DAIKIN

Sky Air

Split and Sky Air

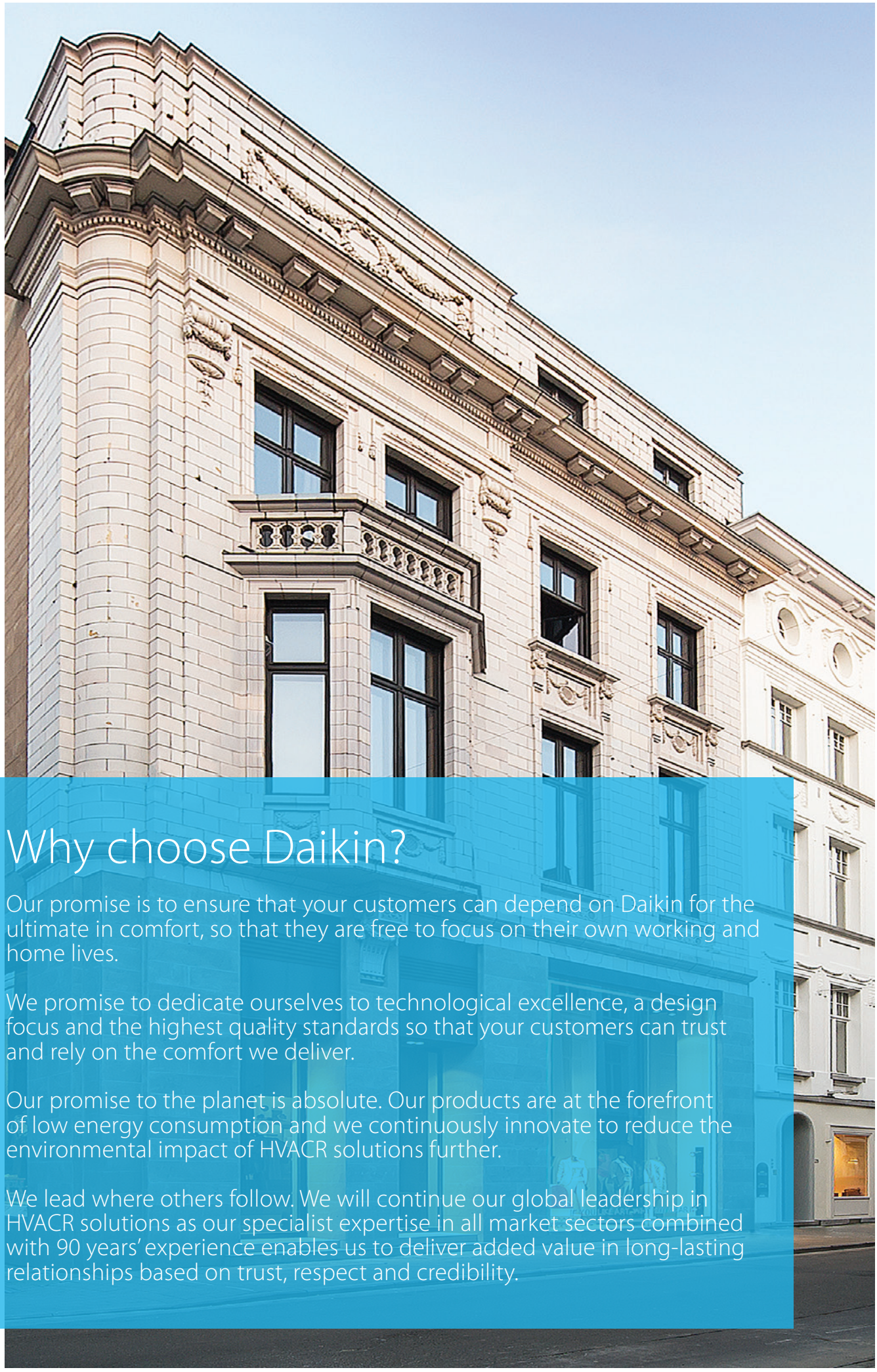
Product catalogue 2016

for professionals

NEW BLUEVOLUTION SKY AIR RANGE LAUNCH SPRING 2016

A comprehensive range for optimum efficiency, total reliability and intelligent control

BLUEVOLUTION



Why choose Daikin?

Our promise is to ensure that your customers can depend on Daikin for the ultimate in comfort, so that they are free to focus on their own working and home lives.

We promise to dedicate ourselves to technological excellence, a design focus and the highest quality standards so that your customers can trust and rely on the comfort we deliver.

Our promise to the planet is absolute. Our products are at the forefront of low energy consumption and we continuously innovate to reduce the environmental impact of HVACR solutions further.

We lead where others follow. We will continue our global leadership in HVACR solutions as our specialist expertise in all market sectors combined with 90 years' experience enables us to deliver added value in long-lasting relationships based on trust, respect and credibility.

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Why choose a Daikin Split or Sky Air system?

Benefits for the installer

Optimum efficiency

Daikin is a world leader in air conditioning and heating. So no matter what your customers' needs are, you will be able to find a heating or cooling solution that is ideal for them in our wide product range. We are an environmentally responsible company, so all our products are designed to be highly efficient all year round. Their low energy consumption also means that your customers will have lower energy bills.

Intelligent control

Make life easier for your customers with features like intelligent eye and weekly timer, as well as a smartphone app or a user-friendly remote control they can use to control their systems. They will enjoy our units' whisper quiet operation and the perfect airflow pattern which creates the ideal indoor climate.

Reliable products

You can reassure your customers that Daikin products are renowned for their reliability and that when they do need servicing, we are there to provide you – and your customers – with everything you need.

- The ideal solution for each application with a **wide range of available products** both for cooling and heating
- **Low energy** bills thanks to high seasonal efficiencies up to A+++ and energy saving features such as intelligent eye and weekly timer
- Control via a **smartphone app** or a user-friendly remote control
- Perfect **comfort**: **whisper quiet sound** level and **perfect airflow** pattern

Bluevolution range

Thinking beyond today

From 2025 on, the European F-gas regulation prescribes the use of refrigerants with a GWP below 750 for all pair split air conditioner installations with a refrigerant charge below 3kg. R-410A (GWP 2087.5) will remain available for other applications and service.

Daikin first introduced R-32 in 2012. Its low GWP of 675, together with competitive energy efficiency, safety and affordability make it very attractive. From 2016, Daikin introduces our unique Bluevolution range of R32 systems, including pair and multi units, that once again set a new benchmark for residential air conditioning. An intelligent and fresh design combines leading efficiency values with top comfort features.

An old friend who doesn't make trouble

Using R-32 is not unknown territory because R-410A is a blend of 50 % R-32 and 50 % R-125. Additional benefits of using the single component refrigerant R-32 include the prevention of fractioning or gliding problems and easier recharging and recycling.

Handling as you like it: with working pressures similar to R-410A, the possibility to charge in both liquid and gas phase, and the availability of tools suitable for both R-32 and R-410A equipment, deciding to lead the way with the Daikin Bluevolution range is easy.

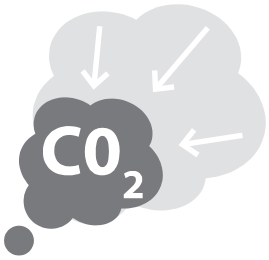
In the spotlight

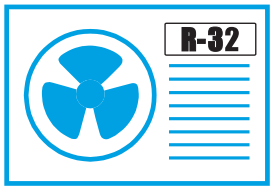
First light commercial products with R-32

Industry-leading technology – now even more units with R-32

- **Lowest environmental impact**
  - GWP reduced by 68% compared with R-410A refrigerant
  - 10% lower refrigerant charge
- **Increased energy savings** thanks to R-32 refrigerant (minimum 5% more efficient in cooling when compared with R-410A products)
- **Reduced maintenance cost** as no yearly refrigerant containment leak check is required
- **Replacement technology**
- **Operation range** down to -20°C in heating mode

BLUEVOLUTION





Ururu Sarara (FTXZ)

Wall mount (FTXM)

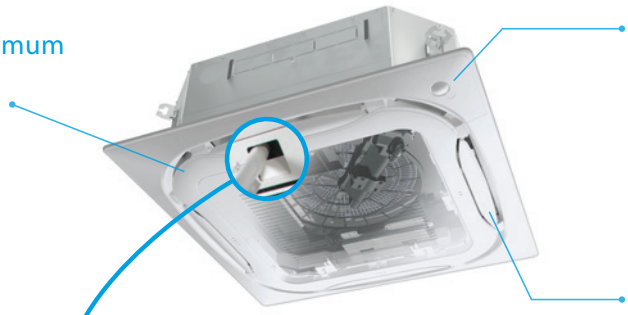
Emura (FTXJ)

Roundflow Cassette (FCAHG)

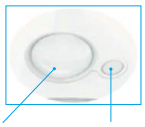
Unique units designed for your interior

Auto cleaning cassette

360° air discharge for optimum efficiency and comfort

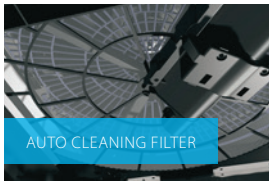


Intelligent sensors increase comfort and efficiency

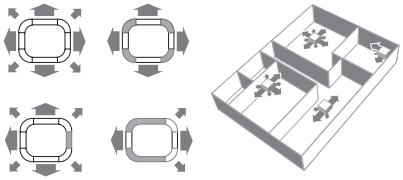


Auto cleaning filter

› Increases efficiency with 50% and makes maintenance easier since the unit does not need to be opened for filter cleaning
› Dust can be removed easily with a vacuum cleaner without opening the unit



Flexible installation with individual flap control

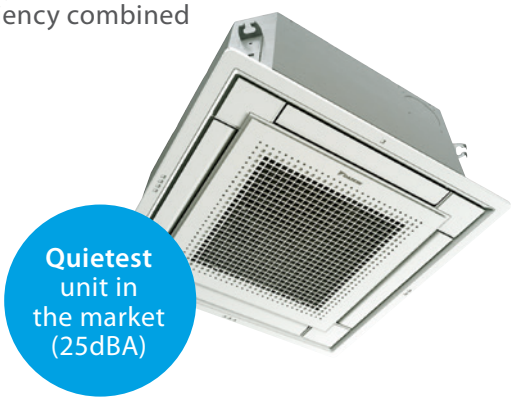


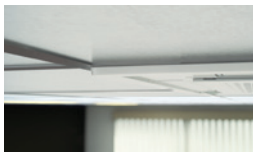
Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling: Advanced technology and top efficiency combined

Unique design

› Designed by a European design office to fully meet European tastes
› Fully flat into the ceiling, leaving only 8mm
› Fully integrated in one ceiling tile, enabling lights, speakers and sprinklers to be installed in adjoining ceiling tiles
› Decoration panel available in 2 colours (white and white-silver)





4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

Best in class quality

Connects to

Seasonal Classic

Seasonal Smart

Flexible installation with individual flap control

Stylish unit

Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible

Innovative solutions for every situation

Infrastructure cooling

› For rooms and enclosures that require round-the-clock cooling
› Where continuous uptime is the absolute requirement for protecting server data protection equipment

Between **20-40%** sensible capacity increase

Reliable

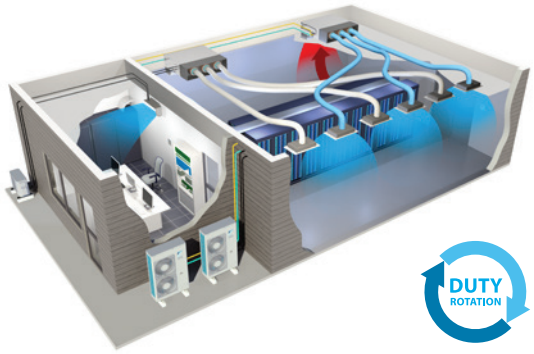
Guaranteed system operation:
› Oversized indoor units boost cooling capacity and prevent freeze-ups on the indoor side
› Wide operating range envelope: operation range in cooling down to -15°C and up to +50°C

Efficient

Optimum return on investment:
› Lowers running costs by using highly efficient direct expansion cooling systems
› Lower running costs compared to other DX systems and water based chillers.
› Minimises environmental impact with A++ energy labels
› Reduces mechanical cooling and energy consumption with the free cooling option for single phase systems

Flexible

› Scalable in capacity
› Improved infrastructure control and management
› Lower physical footprint since no floor space is occupied
› Wide range of indoor units to suit application preferences (ceiling suspended cassettes, wall mounted indoors, concealed ceiling ducted type indoors)



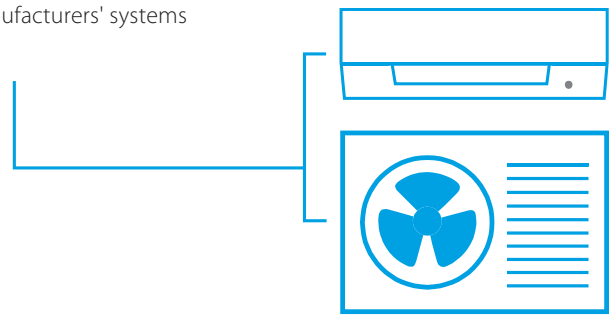
BRC1E53

Duty rotation compatibility	Modelname
Wired remote control	BRC1E53*
Conceiled ceiling system	FBQ-D*
Wall mounted system	FAQ-C9*
Ceiling suspended system	FHQ-CB*

Replacement technology

› Less installation time compared to a full replacement allows you to tackle more projects making it more profitable
› Lower installation cost improves your competitive edge
› Replace non-Daikin systems

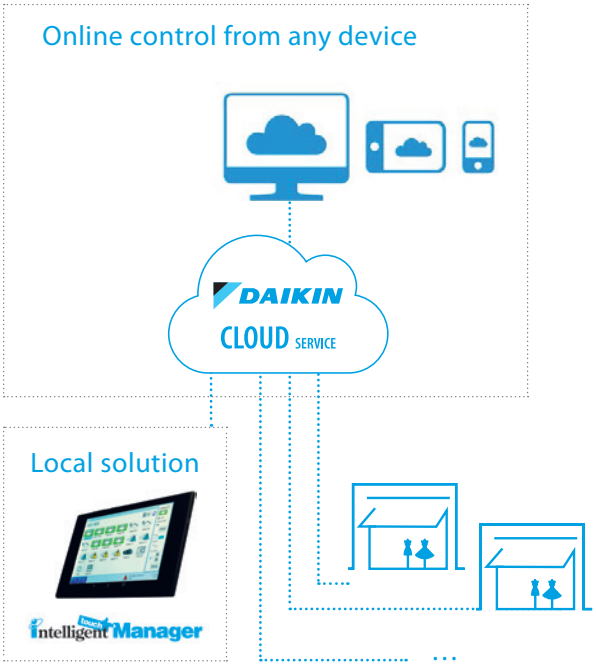
☑ Reuse existing piping and wiring
☑ Replace indoor and outdoor units only
☑ Replace both Daikin and other manufacturers' systems



Split and Sky Air Controls

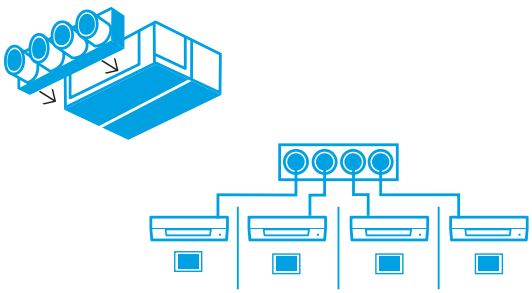
Intelligent Tablet Controller

- The Daikin Intelligent Tablet Controller gives you central control which allows different zones to be set to different temperatures.
- You can set pre- and post-trade modes to save energy
- The Daikin Intelligent Tablet Controller's local control can be limited (amongst the staff) and integrated with HQ control and monitoring
- It is easy to use and intuitive
- Daikin Cloud Service provides a flexible solution which can grow with your business
- Daikin Cloud Service's reduced communication (polling mechanism) means your internal payment network is secure. Via the Daikin supplied 3G/4G router you can even run it outside your network.



Multi-zoning COMING SOON

- Control of multiple climate zones with one duct indoors
- Plug & play plenum
- Motorized dampers regulated according to ΔT
- Automatic airflow adjustment according to the demand
- Wireless room thermostat for each zone
- Centralised zone controller for central control



Variable Refrigerant Temperature

Customised, intelligent and efficient solution

Daikin Sky Air systems are designed to adapt their operation intelligently to meet your customers' specific heating and cooling requirements, without compromising efficiency. When maximum cooling or heating is required (a big difference between the indoor temperature and the setpoint), the system is able to deliver the required capacity quickly.

But at times when the cooling or heating requirement is lower (a small difference between the indoor temperature and the setpoint), the system will automatically adapt its refrigerant in order to save energy and avoid cold draughts. Intelligent Sky Air systems ensure peace of mind at all times without any need for manual adjustment.

Split and Sky Air,
the solution for the light commercial sector.

7 reasons why Split and Sky Air are unique in the market

1 High energy efficiency

› Top seasonal efficiency
  • A++ label both in cooling and heating for combination FCQHG71F/100F + RZQG71L9V1/100L9V1
  • Variable Refrigerant Temperature that automatically adapts the refrigerant temperature to the load
› First commercial R-32 unit boosting cooling efficiency by 5%
› Auto cleaning cassette leading to 50% savings compared to standard cassettes

Top seasonal efficiency

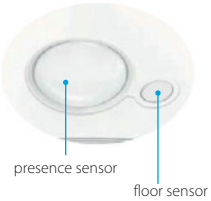
A++

Variable Refrigerant Temperature

2 Best comfort

› Variable Refrigerant Temperature preventing cold draughts
› Low sound indoor and outdoor units
› Presence and floor sensors direct the air flow away from persons, while ensuring an even temperature distribution
› Operation down to -20°C in heat pump operation
› Fresh air intake integrated in indoor unit

BLUEVOLUTION



3 Top reliability

› Dedicated asymmetric combinations for reliable, cost-effective infrastructure cooling
› Gas-cooled PCB
› Most extensive testing before new units leave the factory
› Widest support network and after sales service
› All spare parts available in Europe

Asymmetric combinations

4 Market leading controls

› Intelligent Tablet Controller: control your Split and Sky Air total solution centrally from a touch screen
› Dedicated control solutions
  › for retail applications with retail economizer
  › for infrastructure cooling with standard remote control
› Daikin Cloud Service offers services such as online control, energy monitoring, comparison of multiple sites

5 Unique solutions for aesthetics

› Fully flat cassette design unit that integrates fully flat into the ceiling
› Auto cleaning cassette ensures dirt-free ceilings with filters for regular and dust prone areas

6 Unique installation benefits

FUQ

› 4-way blow ceiling suspended cassette (FUQ) for rooms without false ceiling
  Now connectable to Seasonal Smart and Classic
› Plug & play Daikin air handling unit with ERQ condensing units
› Total solution for cooling, heating, air curtains and ventilation
› Dedicated asymmetric combinations for infrastructure cooling
› Cost-efficiently replace Daikin and non-Daikin R-22 and R-407C systems by keeping the refrigerant piping
› **Use up to 4 indoor units linked to one outdoor unit for long or irregularly shaped rooms**

7 Widest range of outdoor units for small commercial environments

A product for each type of customer

Pair, twin, triple, double twin systems

Capacity class	25	35	50	60	71	100	125	140	200	250
Range					■	■	■	■	■	■

Multi systems connecting to Sky Air indoors

40	50	50	52	68	80	90	4HP	5HP	6HP	8HP	10HP	12HP
■	■	■	■	■	■	■	■	■	■	■	■	■

Seasonal Smart

Up to Energy Label A++
Industry-leading efficiency that dramatically cuts running costs and repays in <2 years
› Only dedicated solution for infrastructure cooling
› Available in R-410A and R-32

VRV IV S-series
Industry-leading efficiency with individual control of up to 9 indoor units
› incorporates VRV IV standards and technologies
› the most compact VRV

Seasonal Classic

Up to Energy Label A+
Versatile and effective for typical needs of most retail applications.

Multi model application
Individual control of up to 5 indoor units

Super Inverter

For large commercial applications

INVERTER

Up to Energy Label A+
(SEER A+ for 71 Cass)
Plug and play comfort at minimum up-front cost for busy shop environments

Advantages of types of indoor units

What is the advantage of a concealed ceiling unit?

Concealed ceiling units offer you an extremely unobtrusive solution because they are compact and only the discharge and intake grilles are visible. In addition, they free up the maximum amount of floor and wall space, giving complete interior design flexibility. Their new low consumption DC fan motor offers you maximum energy saving. And of course we have a wide range of units to suit rooms of all sizes. Some models have an optional online controller for the ultimate in convenience.

What is the advantage of a wall mounted unit?

Wall mounted units are simple to install and can be less intrusive than floor mounted units. They can be placed subtly, high on a wall, where they do not detract from your décor. Whether the space is large or small, we have units with the capacities to provide the climate your customer wants and to suit their budget. We can offer you anything from high-efficiency design units to units that offer excellent value for money. Some models have an optional online controller for the ultimate in convenience.

What is the advantage of a floor standing unit?

Floor standing units are easy to install in rooms where space is at a premium. They are ideal for attics for example, where the walls tend to be lower. Floor standing units are very good at heating because they discharge the heated air at the bottom, creating an excellent convection effect. Our floor standing units are more compact than low temperature radiators, and the Nexura even has a radiant front panel. Some models have an optional online controller for the ultimate in convenience.

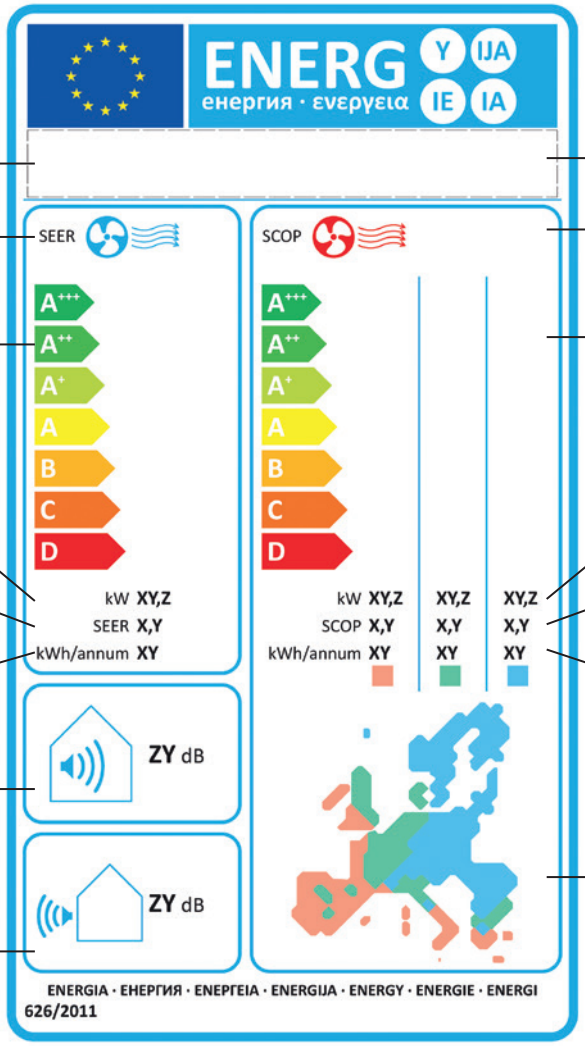
Europe's new energy label

Labelling to encourage intelligent choices

To enable consumers to compare and make purchasing decisions based on uniform labelling criteria, Europe has introduced energy labels. The previous European energy label for air conditioners, introduced in 1992, did its job for the time. In 2013, Europe introduced a seasonal energy label. This label allows end users to make even more informed choices, since seasonal efficiency reflects air conditioner efficiency over an entire season.

The energy label includes multiple classifications from A+++ to D, reflected in colour shadings ranging from dark green (most energy efficient) to red (least efficient). Information on the label not only includes the seasonal efficiency ratings for heating (SCOP) and cooling (SEER), but also annual energy consumption and noise levels.

The label in more detail



Name of manufacturer and product

SEER: seasonal efficiency values for cooling

Classifications from A+++ (most energy efficient) to D (least energy efficient

Design load for cooling
Seasonal efficiency ratings for cooling (SEER)

Annual energy consumption during a cooling season, including auxiliary modes

Sound power value for indoor unit

Sound power value for outdoor unit

Combination of indoor and outdoor unit

SCOP: seasonal efficiency values for heating

Classifications from A+++ (most energy efficient) to D (least energy efficient)

Design load for heating
Seasonal efficiency ratings for heating (SCOP)

Annual energy consumption during a heating season, including auxiliary modes

To take the broad range of conditions into account, 3 climate zones are used: cold, average and warm

BLUE = COLDER CLIMATE (OPTIONAL)
GREEN = AVERAGE CLIMATE (COMPULSORY)
ORANGE = WARMER CLIMATE (OPTIONAL)

Split and Sky Air, from high specification, tailored solutions to primary cooling and heating

Which applications?

Whether you have a shop, office, restaurant; whether you are a small retailer or a B&B owner; whether you need a solution for your IT or server rooms...

Sky Air offers an ideal solution that not only suits your needs but also helps your budget and minimises environmental impact.

One system,

multiple applications for shops, offices, restaurant, home …

Heating and cooling

› Extract heat from the outside air, even in cold weather (down to -20°C)
› Electrically powered compressor
› Extremely effective at heating
› Silent and discreet
› State-of-the-art technology to keep energy bills as low as possible

Top seasonal efficiency

BLUEVOLUTION

› A++ label both in cooling and heating for combination FCQHG71F/100F + RZQG71L9V1/100L9V1 A++
› Top efficiency by choosing R-32 products (minimum 5% more efficient when compared to R-410A)

Wide range of heat pump units

› Ideal for both new build and renovation projects
› Select from a wide range of indoor units: wall mounted and floor standing, concealed or ceiling mounted
› Very quiet and draught-free operation
› For long or irregularly shaped rooms, you can use up to four indoor units linked to a single outdoor unit. All the indoor units are controlled at the same time

Replacement

› Split and Sky Air outdoor and indoor units can be used to replace R-22 and R-407C systems
› Reuse existing piping and wiring

Flexible Installation

› Outdoor units are neat and sturdy
› They can be installed against a wall or on a roof or terrace

Control systems

User-friendly controls allow your customers to manage their Sky Air system for maximum efficiency:

› From individualised unit control to centralised management via touchscreen options and code based controllers, they are in control at all times
› The DIII-net connection is standard, allowing you to link into the wider building management systems
› Buildings can be monitored from a distance using Internet monitoring

Ventilation

Daikin's ventilation option provides a supply of fresh air to help create a healthy and high quality indoor environment.

Biddle air curtains

› Biddle air curtains can be used in combination with the Sky Air system to provide highly efficient heating at building entrances
› Ideal for buildings with open door policies such as retail stores
› Year round climate control and comfort even on the most demanding days
› Payback time of less than 12 months compared with electric air curtains

'We were very happy to work with Daikin in installing one of the latest fully controllable systems with operational flexibility, which met all our requirements.'
Retail shop representative

Store & shop

Reducing retail costs

› Creates an inviting atmosphere for your customers
› Discreet with limited visual and operating impact
› Reduces energy usage and costs
› Worry-free installation
› User-friendly control

In the current commercial environment, retailers are under pressure to reduce both store development and running costs. Legislation adds further financial pressure with different energy-efficient schemes. Therefore affordable, energy-efficient solutions are vital to minimise lifetime costs, while ensuring compliance with the latest regulations.

Whatever the site and requirements we can design a system that is economical, has low environmental impact and uses the very latest in advanced VRV technology. Our heat pumps extract heat from the outside air even in cold weather to warm the retail space and can be installed either on roof tops or against walls - the ultimate in installation flexibility. And our air curtains solve that problem of comfort loss resulting from exterior doors.

'Leading edge design in harmony with the construction and interior design.'
Architect

Office

Efficiency in the workplace

› Fully flat cassette: design and genius in one
› Cutting the cost of hot water
› Fresh air: a healthier office atmosphere
› Centralised control: complete Daikin package for office building management

Efficient building and facilities management is key to minimising operational costs. Daikin's customised office solutions give you full control over energy consumption – creating the ideal working conditions and minimising environmental impact.

Daikin's office air conditioning can be integrated into a whole climate control solution. Heat recovery between components, free cooling ventilation and free hot water production all result in lower running costs and minimum carbon emissions.

'Total renovation and expansion of the restaurant meant new air conditioning equipment was required. Daikin was the first and only supplier to contact as we had already had good experience in the past!'
Owner of a highly-rated restaurant

Restaurants

Perfect ambience

› Ensures an even temperature distribution to create the perfect dining environment
› Highly energy efficient
› Uses intelligent control systems operated from one central location

Restaurants require heating, cooling, ventilation, hot-water production and even refrigeration systems. But, nothing should distract diners from enjoying the **perfect ambience**, and that ambience includes the **optimum temperature**. That is exactly what Daikin's concealed ceiling units deliver through whisper quiet operation and improved comfort from the 3-step air flow control. These turn your customer's restaurant into a comfortable, welcoming environment. And with **centralised control** and easy scheduling for the entire restaurant system, **energy use is minimised** to reduce your customer's running costs.

'A reliable system and guaranteed continuous operation are what count for me.'
General office manager

Data centres

Sky Air for infrastructure cooling

› Continuous cooling operation
› Dedicated infrastructure cooling settings
› Unique selection method with capacity tables down to -15°C outdoor temperature
› Enhanced reliability thanks to asymmetric combinations (e.g. FHQ125C + RZQG100L9V1) with required seasonal energy labels

Servers, especially racks of servers, generate a great deal of heat and this needs to be removed through **continuous cooling**. This is achieved through automatic switching between units after a certain period of use to ensure that at any time, one unit is working while the other is available for maintenance.

Given the critical importance of continuous cooling for server rooms, the system can be managed via an RTD-10 controller that can monitor and control up to 8 indoor units either directly or via the building management system (RTD-NET).

Products and benefits overview

Split

			BLUEVOLUTION	
			Wall mounted	
			FTXZ-N	FTXJ-MW/S
				
We care	Econo mode	This function decreases power consumption so that other applicances that need large power consumption can be used. This function is also energy saving.	•	•
	2-area intelligent eye	Air flow is sent to a zone other than where the person is located at that moment. If no people are detected, the unit will automatically switch over to the energy-efficient setting.		•
	3-area intelligent eye	Air flow is sent to a zone other than where the person is located at that moment. Detection is done in 3 directions: left, front and right. If no people are detected, the unit will automatically switch over to the energy-efficient setting.	•	
	Movement sensor	The sensor detects whether someone is in the room. When the room is empty, the unit switches to economy mode after 20 minutes and restarts when a person enters the room.		
	Energy saving during operation standby	Current consumption is reduced by about 80% when operating on standby. If no people are detected for more than 20 minutes, the system will automatically switch to the current-saving mode.	•	•
	Home leave operation	During absence, the indoor temperature can be maintained at a certain level.		
	Night set mode	Saves energy, by preventing overcooling or overheating during night time.		•
	Fan only	The air conditioner can be used as fan, blowing air without cooling or heating.	•	•
	Auto cleaning filter	The filter automatically cleans itself once per day. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.	•	
Comfort	Comfort mode	The unit automatically changes the angle of the air discharge louvre depending on the mode. In cooling operation, the air will be directed rather upwards to to avoid cold draughts; while in heating operation, the air will be directed rather downwards to avoid cold feet.	•	•
	Powerful mode	If the temperature in the room is too high/low, it can be cooled down/heated quickly by selecting the 'powerful mode'. After the powerful mode is turned off, the unit returns to the preset mode.	•	•
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature (heat pump types only).	•	•
	Impossible to hear	Daikin indoor units are impossible to hear in silent mode.		•
	Whisper quiet (down to 19dBA)	Daikin indoor units are whisper quiet.	•	•
	Radiant heat	The front panel of the indoor unit radiates additional heat to add to your comfort on cold days.		
	Indoor unit silent operation	To ensure a quiet environment for studying or sleeping, the user can lower the operation sound of the indoor unit by 3 dB(A) via remote control.	•	•
	Comfortable sleeping mode	Increased comfort function that follows a specific temperature fluctuation rhythm.	•	
	Outdoor unit silent operation	To ensure a quiet environment for the neighbourhood, the user can lower the operation sound of the outdoor unit by 3 dB(A) via remote control.	•	•
Air flow	3-D Air flow	This function combines vertical and horizontal auto-swing to circulate a stream of cool/warm air right to the corners of even large spaces.	•	•
	Vertical auto swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution.	•	•
	Horizontal auto swing	Possibility to select automatic horizontal moving of the air discharge louvre, for uniform air flow and temperature distribution.	•	•
	Auto fan speed	Automatically selects the necessary fan speed to reach or maintain the set temperature.	•	•
	Fan speed steps	Allows to select up to the given number of fan-speed steps.	5	5
Humidity control	Ururu - humidification	Moisture is absorbed from the outdoor air and evenly distributed throughout the indoor areas.	•	
	Sarara - dehumidification	Reduces indoor humidity, without affecting the room temperature, by mixing cool, dry air with warm air.	•	
	Dry programme	Allows humidity levels to be reduced without variations in room temperature.		•
Air treatment	Flash streamer	The Flash Streamer generates high-speed electrons that powerfully break down bacteria, viruses and allergens, making the air more clean.	•	
	Silver allergen removal and air purifying filter	Captures allergens such as pollen and dust mites. The filter suppresses pollen and mites for 99% or more.		•
	Titanium photocatalytic air purification filter	Removes airborne dust particles, and decomposes the odours of for example tobacco and pets. It also decomposes harmful organic chemical substances such as bacteria, viruses and allergens.	•	•
	Photocatalytic deodorising filter	Removes airborne dust particles, decomposes odours and restrains the reproduction of bacteria, viruses and microbes, this to ensure a steady supply of clean air.		
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air.		
Remote control & timer	Online controller	Control your indoor unit from any location via app.	•	•
	Weekly timer	Timer can be set to start operation anytime on a daily or weekly basis.		•
	24 Hour timer	Timer can be set to start cooling/heating anytime during a 24-hour period.	•	•
	Infrared remote control	Infrared remote control with LCD to start, stop and regulate the air conditioner from a distance.	•	•
	Wired remote control	Wired remote control to start, stop and regulate the air conditioner from a distance.		•
	Centralised remote control	Centralised control to start, stop and regulate several air conditioners from one central point.	•	•
Other functions	Auto-restart	The unit restarts automatically at the original settings after power failure.	•	•
	Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies.	•	•
	Multi model application	Up to 5 indoor units (even different capacities) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.		•
	VRV for residential application	Up to 9 indoor units (even different capacities and up to 71 class) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.		
	Guaranteed operation down to -25°C	Daikin is suitable for all climates, even withstanding severe winter conditions with an operation range down to -25°C.		

For explanation of the benefits, see the end of this catalogue.

		Standard range								
Wall mounted	Concealed ceiling	Wall mounted					Floor standing		Flexi type	Concealed ceiling
C/FTXM-M	**FDXM-F**	**FTXG-LW/S**	**CTXS-K**	**FTXS-K**	**FTXS-G**	**FTX-KV**	**FVXG-K**	**FVXS-F**	**FLXS-B(9)**	**FDXS-F(9)**
										
•		•	•	•	•	•	•	•		
•		•		• 35,42,50 class						
•			•	• 20,25 class	•					
•		•	•	•		•				
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•		•		• 35,42,50 class	•					
•		•	•	•	•	•	•	•	•	
•		•		• 35,42,50 class	•					
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5	3	5	5	5	5	5	5	5	5	3
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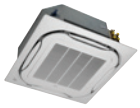
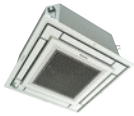
							•	•		

*Note: blue cells contain preliminary data

Product overview Sky Air
Small Sky and Sky Air

Type	Model	Product name		PG
Ceiling mounted cassette	NEW UNIQUE High COP, round flow cassette	FCAHG-F BLUEVOLUTION	 1st R-32 commercial unit in the European market	38
	UNIQUE High COP, round flow cassette	FCQHG-F		63
	UNIQUE Round flow cassette	FCQG-F[1]		64
	UNIQUE Fully flat cassette	FFQ-C	 universal design award 2014 GERMAN DESIGN AWARD SPECIAL 2016	74
Concealed ceiling	Small concealed ceiling unit	FDBQ-B		85
	Slim concealed ceiling unit	FDXS-F (9)		95
	Concealed ceiling unit with medium ESP	FBQ-D[1]		87
	Concealed ceiling unit with high ESP	FDQ-C		99
	Concealed ceiling unit with high ESP	FDQ-B[1]		104
Wall mounted	Wall mounted unit	FAQ-C		46
Ceiling suspended	Ceiling suspended unit	FHQ-C[1]		78
	UNIQUE 4-way blow ceiling suspended unit	FUQ-C[1]		71
Floor standing	Floor standing unit	FVQ-C		57
	Concealed floor standing unit	FNQ-A		53

1) Twin, triple, double twin application is only possible up to 125 class

Indoor units

Capacity class (kW)

	25	35	50	60	71	100	125	140	200	250
First R-32 BLUEVOLUTION light commercial range available in Europe › Lowest environmental impact: reduced GWP and higher efficiency compared to R-410A products › 5 different fan speeds available › Reduces maintenance costs as no yearly refrigerant containment check is required › Includes all R-410A high COP round flow cassette features R-32 ROUND FLOW					●	●	●	●		
360° air discharge for the highest efficiency and comfort › High COP cassette ensures top performance for commercial applications › Auto cleaning function ensures high efficiency › Intelligent sensors save energy and maximise comfort › Flexibility to suit every room layout ROUND FLOW					●	●	●	●		
360° air discharge for the highest efficiency and comfort › Auto cleaning function ensures high efficiency › Intelligent sensors save energy and maximise comfort › Flexibility to suit every room layout › Lowest installation height in the market › 27~29 dB(A) on low fan speed ROUND FLOW		●	●	●	●	●	●	●		
Unique design in the market that integrates fully flat into the ceiling › Perfect integration in standard architectural ceiling tiles › Blend of iconic design and engineering excellence with a white or silver and white finish › Intelligent sensors save energy and maximise comfort › Flexibility to suit every room layout without changing the location of the unit! › Quietest 600 x 600 cassette on the market	●	●	●	●						
Designed for hotel bedrooms and ensuring a good night rest › Compact dimensions enable installation in narrow ceiling voids › Easy mounting: drain pan can be located left or right of the unit › Discreetly concealed in the ceiling: only the grilles are visible › Flexible installation as the air suction direction can be altered from rear to bottom suction	●									
Slim design for flexible installation › Medium external static pressure up to 40Pa › Small capacity unit developed for small of well insulated rooms		●	●	●	●	●	●	●		
Slimmest yet most powerful medium static pressure unit on the market! › Slimmest unit in class, only 245mm › Low operating sound level › Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths › Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, guaranteeing comfort		●	●	●	●	●	●	●		
ESP up to 200Pa, ideal for large sized buildings › Discreetly concealed in the ceiling: only the grilles are visible › Possibility to change ESP via wired remote control allows optimisation of the supply air volume › Flexible installation as the air suction direction can be altered from rear to bottom suction							●			
ESP up to 250Pa, Ideal for extra large sized spaces › Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible › Up to 26.4kW in heating mode									●	●
For rooms with no false ceilings nor free floor space › The air is comfortably spread up- and downwards thanks to 5 different discharge angles › Easy maintenance as this can be done from the front of the unit › Easy to install: 100 class is 35% lighter than previous model › Flexible to install: pipe connection can be bottom, left or right					●	●				
For wide rooms with no false ceilings nor free floor space › Ideal for comfortable air flow in wide rooms thanks to Coanda effect › Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily! › Can be mounted in corners or narrow spaces without any problem		●	●	●	●	●	●	●		
Unique Daikin unit for high rooms with no false ceilings nor free floor space › Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily! › Flexibility to suit every room layout without changing the location of the unit! › Optimum comfort guaranteed with automatic air flow adjustment to the required load › The air is comfortably spread up- and downwards thanks to 5 different discharge angles					●	●	●			
For spaces with high ceilings › Ideal solution for commercial spaces with no or narrow false ceilings › Even rooms with very high ceilings can be heated up or cooled down very easily! › Guarantees a stable temperature › Vertical and horizontal outblow					●	●	●	●		
Designed to be concealed in walls, only grilles remain visible › Slimmest unit on the market with a depth of only 200mm! › Both window sill or ducted installation are possible thanks to sufficient ESP › Whisper quiet operation allows installation in any location	●	●	●	●						

New combination with Seasonal Classic available!

Benefits overview Sky Air
Small Sky and Sky Air

			NEW
			FCAHG-F
			 R-32
We care	Seasonal efficiency - Smart use of energy	Seasonal efficiency gives a more realistic indication on how efficient air conditioners operate over an entire heating or cooling season.	●
	Inverter technology	In combination with inverter controlled outdoor units.	●
	Home leave operation	During absence, the indoor temperature can be maintained at a certain level.	●
	Fan only	The air conditioner can be used as fan, blowing air without cooling or heating.	●
	Auto cleaning filter	The filter automatically cleans itself once per day. Simplicity of upkeep means optimum energy efficiency and maximum comfort without the need for expensive or time-consuming maintenance.	●
	Floor and presence sensor	The presence sensor directs the air away from any person detected in the room, when the air flow control is on. The floor sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.	●
Comfort	Draught prevention	When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.	●
	Whisper quiet	Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neightbourhood.	●
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	●
Air treatment	Air filter	Removes airborne dust particles to ensure a steady supply of clean air.	●
Humidity control	Dry programme	Allows humidity levels to be reduced without variations in room temperature.	●
Air flow	Ceiling soiling prevention	A special function prevents air blowing out too long in horizontal position, to prevent ceiling stains.	●
	Vertical auto swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution.	●
	Fan speed steps	Allows to select up to the given number of fan speed.	5
	Individual flap control	Individual flap control via the wired remote controller makes it simple to fix the position of each flap individually, to suit any new room configuration. Optional closure kits are available as well.	●
Remote control & timer	Weekly timer	Timer can be set to start operation anytime on a daily or weekly basis.	●
	Infrared remote control	Infrared remote control with LCD to start, stop and regulate the air conditioner from a distance.	optional
	Wired remote control	Wired remote control to start, stop and regulate the air conditioner from a distance.	optional
	Centralised control	Centralised control to start, stop and regulate several air conditioners from one central point.	optional
Other functions	Infrastructure cooling	Remove in a reliable, efficient and flexible way the heat constantly generated by the IT and server equipment to ensure maximum uptime while offering the best return on investment.	●
	Auto-restart	The unit restarts automatically at the original settings after power failure.	●
	Self-diagnosis	Simplifies maintenance by indicating system faults or operating anomalies.	●
	Drain pump kit	Facilitates condensation draining from the indoor unit.	standard
	Twin/triple/double twin application	2, 3 or 4 indoor units can be connected to only 1 outdoor unit even if they have different capacities. All indoor units operate within the same mode (cooling or heating) from one remote control.	
	Multi model application	Up to 5 indoor units (even different capacities) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.	
	VRV for residential application	Up to 9 indoor units (even different capacities and up to 71 class) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.	

Ceiling mounted cassette units			Concealed ceiling units					Ceiling suspended units	4-Way blow ceiling suspended unit	Wall mounted unit	Floor standing units	
FCQHG-F	**FCQG-F**	**FFQ-C**	**FDBQ-B**	**FDXS-F(9)**	**FBQ-D**	**FDQ-C**	**FDQ-B**	**FHQ-CB**	**FUQ-C**	**FAQ-C9**	**FVQ-C**	**FNQ-A**
												
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optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
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standard	standard	standard			standard	standard		optional	standard	optional		
●	●	●			●	●	●	●	●	●		●
	●	●	●	●	●			●				●
	●	●	●		●			●				●

R32 BLUEVOLUTION RANGE

R32 Bluevolution

Ururu Sarara

The best of the best

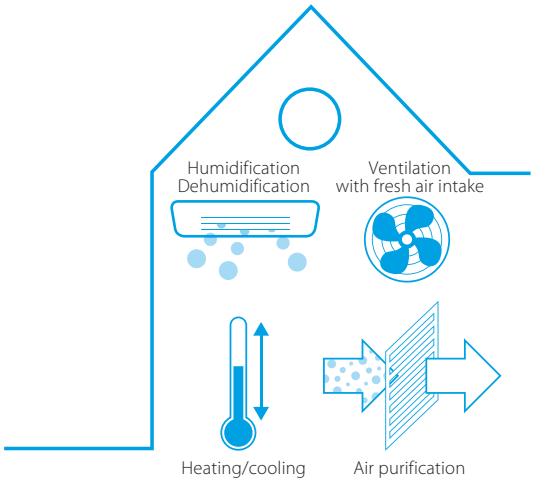
reddot design award
winner 2013

Why choose Ururu Sarara?

The Daikin Ururu Sarara brings a new level of sophisticated control to air conditioning. It has five air treatment techniques which together provide a total comfort solution. In addition, the Ururu Sarara range has SEER and SCOP A+++ ratings thanks to its energy efficient compressor and heat exchanger. Because of its innovative technology, as well as its design, it won the prestigious Red Dot design award in 2013.

A+++

BLUEVOLUTION



5 air treatment techniques

1 Heating and cooling in one unit, for year-round comfort with the highest energy label available
2 In winter, the Ururu function replenishes the moisture in the air to maintain a comfortable feel without unnecessary heating
3 In summer, the Sarara function removes excess moisture while maintaining an even temperature thus eliminating the need for extra cooling
4 Ventilation for fresh air even with closed windows
5 Air purification and automatic filter cleaning, for non-stop purified and allergy-free air

flash streamer
ONLY BY DAIKIN

Daikin Emura

Form. Function. Redesigned.

The Daikin Emura is the result of ongoing research into creating superior air conditioning solutions for European interiors. The new generation's extra functions make it even more suitable for European homes. This has been confirmed by the fact that the Daikin Emura is the winner of the prestigious Reddot design award 2014, German Design Award – Special Mention 2015, Focus Open 2014 Silver Good Design Award 2014 and iF design award 2015.

Why choose Daikin Emura

- Top design with two stylish finishes, silver and anthracite or pure matt white
- High seasonal efficiencies up to A+++
- Silver allergen removal and air purifying filter: captures allergens such as pollen and dust mites
- Whisper quiet sound levels as low as 19 decibels
- Control and keep an overview on your energy consumption via a smartphone app or a user-friendly remote control

A+++

BLUEVOLUTION

reddot award 2014 winner

German Design Award SPECIAL MENTION 2015

Focus Open 2014 Silver

GOOD DESIGN

iF DESIGN AWARD 2015

DAIKIN
emura

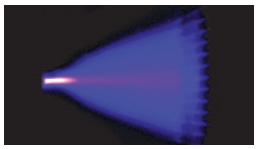
FTXM-M

The feel-good vision of the future

Enjoy state-of-the-art comfort

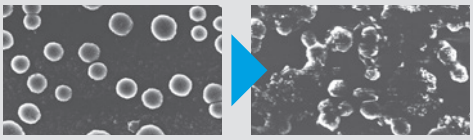
This unit typifies Daikin's future vision of air conditioning. Styled with fresh European design, it impresses with brilliant seasonal efficiency values up to A+++ without compromising comfort. The exceptional Daikin Flash Streamer guarantees superior air purification. With our online controller app, you have control from wherever you are. It also displays energy consumption for all R-32 products. 3D air flow and 2-area intelligent eye create perfect and non-invasive air flow. And all this with superbly quiet operation. This full-range series is the ideal choice for most applications.

Better air quality with the Daikin Flash Streamer

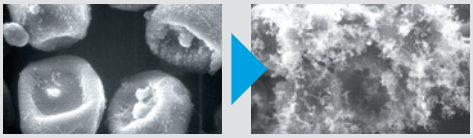


This all-in-one heating and cooling unit purifies the air year round. Using electrons to trigger chemical reactions with air molecules, the Flash Streamer breaks down moulds, viruses or NO_X, leaving you with perfect, allergen-free air.

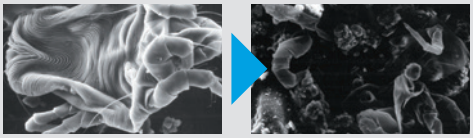
Virus
before and after irradiation



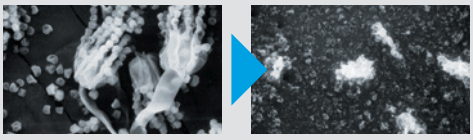
Pollen-based allergen
before and after irradiation



Fungal allergens
before and after irradiation



Allergens from animate beings
before and after irradiation



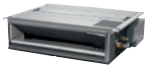
Viruses and allergens were placed on the electrode of the streamer discharge unit and then photographed through an electron microscope after being irradiated.

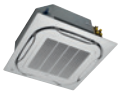
(Testing organization: Yamagata University and Wakayama Medical University)

Bluevolution range

indoor units

BLUEVOLUTION

Type	Model	Product name		15	20	25	35	42	50	60	71	page
Wall mounted	Ururu Sarara Complete climate control with (de)humidification, air purification & ventilation with top efficiencies in heating & cooling	FTXZ-N				A+++ (pair only)	A+++ (pair only)		A+++ (pair only)			33
	Daikin Emura Design at its best, delivering superior efficiency and comfort	FTXJ-MW/S			A+++	A+++	A++		A++			34
	Wall mounted unit Discreet, modern design for optimal efficiency and comfort thanks to 2-area intelligent eye	CTXM-M		● (multi only)								35
		FTXM-M			A+++	A+++	A+++	A++	A++	A++	A++	35
Ceiling concealed	Slim concealed ceiling unit Compact concealed ceiling unit, with a height of only 200mm	FDXM-F			● (multi only)	● (multi only)			● (multi only)	● (multi only)		36

Type	Model	Product name		71	100	125	140	page
Roundflow cassette	Hi CoP roundflow Single phase smart	FCAHG-F		A++	A++	A++	●	38

	Wall mounted															Concealed ceiling			
	Daikin Emura FTXJ-MW/S				CTXM-M	FTXM-M							FTXP-KV			FDXM-F			
Connectable indoor units	20	25	35	50	15	20	25	35	42	50	60	71	20	25	35	25	35	50	60
2MXM40M	●	●	●		●	●	●	●					●	●	●	●	●		
2MXM50M	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	
3MXM40M	●	●	●		●	●	●	●								●	●		
3MXM52M	●	●	●	●	●	●	●	●	●	●						●	●	●	
3MXM68M	●	●	●	●	●	●	●	●	●	●	●					●	●	●	●
4MXM68M	●	●	●	●	●	●	●	●	●	●	●					●	●	●	●
4MXM80M	●	●	●	●	●	●	●	●	●	●	●	●				●	●	●	●
5MXM90M	●	●	●	●	●	●	●	●	●	●	●	●				●	●	●	●

*Note: blue cells contain preliminary data

Wall mounted unit

Complete climate control with (de)humidification, air purification & ventilation with top efficiencies in heating & cooling

› SEER + SCOP = A+++ on the entire range
› No need to clean filters, thanks to the self cleaning filter
› Unique combination of humidification, dehumidification, ventilation, air purification and heating & cooling in 1 system
› 3 area intelligent eye: air flow is sent to a zone other than where the person is located at that moment. Detection is done in 3 directions: left, front and right. If no people are detected, the unit will automatically switch over to the energy-efficient setting
› Reddot design award winner 2013
› Online controller (optional): control your indoor from any location with an app, via your local network or internet
› First R-32 air-to-air heat pump in the European market

Indoor Units			FTXZ25N	FTXZ35N	FTXZ50N
Capacity	UK Total Cooling	kW	2.79	3.90	5.58
	UK Sensible Cooling	kW	2.39	2.88	3.77
	Nominal Cooling	kW	2.50	3.50	5.00
	Nominal Heating	kW	3.60	5.00	6.30
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+++	A+++	A+++
	Pdesign	kW	2.50	3.50	5.00
	SEER		9.54	9.00	8.60
	Annual Energy Consumption	kWh	92	136	203
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+++	A+++	A+++
	Pdesign	kW	3.50	4.50	5.60
	SCOP		5.90	5.73	5.50
	Annual Energy Consumption	kWh	831	1100	1427
Nominal Efficiency	EER / COP		6.10 / 5.80	5.30 / 5.00	4.55 / 4.47
	Energy Label		A / A	A / A	A / A
	Annual Energy Consumption	kWh	205	330	550
Air Flow Rate (Cooling)	High / Nom / Low / S Low	m^3/sec	0.180 / 0.125 / 0.090 / 0.067	0.200 / 0.140 / 0.090 / 0.067	0.250 / 0.153 / 0.110 / 0.077
Dimensions	Height	mm	295		
	Width	mm	798		
	Depth	mm	372		
Weight		kg	15	15	15
Sound Pressure (Cooling)	High / Nom / Low / S Low	dBA	38 / 33 / 26 / 19	42 / 35 / 27 / 19	47 / 38 / 30 / 23
Sound Power		dBA	54	57	60

Outdoor Units			RXZ25N	RXZ35N	RXZ50N
Dimensions	Height x Width x Depth	mm	693 x 795 x 300		
Weight		kg	50kg		
Electrical Details	Power Supply		1ph		
	Running Current	A	1.80	2.80	4.80
	Starting Current	A	2.8	4.4	6.2
	Max Fuse Size	A	16	16	16
Interconnection Wiring	Core / Cable size		3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)	1/4 (6.4) / 3/8 (9.5)	1/4 (6.4) / 3/8 (9.5)
Pipework	Maximum Length	m	10	10	10
	Maximum Vertical Rise	m	8	8	8
	Precharged to	m	10	10	10
	Holding Charge	kg	1.34	1.34	1.34
Sound Pressure (Cooling)	High	dBA	46	48	49
Sound Power		dBA	59	61	63
Air Flow Rate	High	m^3/sec	0.516	0.573	0.673
ECA Eligible			●	●	●

Wall mounted unit

Design at its best, delivering superior efficiency and comfort

- Seasonal efficiency values up to A+++
- Choosing for an R-32 product reduces the environmental impact by 68% compared with R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
- Remarkable blend of iconic design and engineering excellence with an elegant finish in silver and anthracite or in matt crystal white
- Daikin Emura has been awarded with many awards, thanks to its excellent design
- Silver allergen removal and air purifying filter: captures allergens such as pollen and dust mites. The filter suppresses pollen and mites for 99% or more
- Online controller (standard): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!

Indoor Units			Matt Crystal White					Brushed Aluminium		
			FTXJ20MW	FTXJ25MW	FTXJ35MW	FTXJ50MW	FTXJ20MS	FTXJ25MS	FTXJ35MS	FTXJ50MS
Capacity	UK Total Cooling	kW	2.25	2.35	3.42	4.69	2.25	2.35	3.42	4.69
	UK Sensible Cooling	kW	1.84	1.88	2.51	3.09	1.84	1.88	2.51	3.09
	Nominal Cooling	kW	2.00	2.50	3.50	5.00	2.00	2.50	3.50	5.00
	Nominal Heating	kW	2.50	3.40	4.00	5.80	2.50	3.40	4.00	5.80
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+++	A+++	A++	A++	A+++	A+++	A++	A++
	Pdesign	kW	2.30	2.40	3.50	4.80	2.30	2.40	3.50	4.80
	SEER		8.73	8.64	7.19	7.02	8.73	8.64	7.19	7.02
	Annual Energy Consumption	kWh	92	97	170	239	92	97	170	239
Seasonal Efficiency (EN14825) HEATING	Energy Label		A++	A++	A++	A+	A++	A++	A++	A+
	Pdesign	kW	2.10	2.70	3.00	4.60	2.10	2.70	3.00	4.60
	SCOP		4.60	4.60	4.60	4.28	4.60	4.60	4.60	4.28
	Annual Energy Consumption	kWh	638	822	913	1505	638	822	913	1505
Nominal Efficiency	Energy Label		A / A	A / A	A / A	A / A	A / A	A / A	A / A	A / A
	EER / COP		4.64 / 5.00	4.73 / 4.57	4.09 / 4.04	3.35 / 3.65	4.64 / 5.00	4.73 / 4.57	4.09 / 4.04	3.35 / 3.65
	Annual Energy Consumption	kWh	248	254	428	716	248	254	428	716
Air Flow Rate	High / Low / Silent	m^3/sec	0.148 / 0.0073 / 0.043	0.148 / 0.0073 / 0.043	0.182 / 0.080 / 0.048	0.182 / 0.113 / 0.060	0.148 / 0.0073 / 0.043	0.148 / 0.0073 / 0.043	0.182 / 0.080 / 0.048	0.182 / 0.113 / 0.060
Dimensions	Height	mm	303				303			
	Width	mm	998				998			
	Depth	mm	212				212			
Weight		kg	12	12	12	12	12	12	12	12
Sound Pressure	High / Low / Silent	dBA	38 / 25 / 19	38 / 25 / 19	45 / 26 / 20	45 / 35 / 32	38 / 25 / 19	38 / 25 / 19	45 / 26 / 20	45 / 35 / 32
Sound Power	Cooling	dBA	54	54	59	60	54	54	59	60

Outdoor Units			RXJ20M	RXJ25M	RXJ35M	RXJ50M	RXJ20M	RXJ25M	RXJ35M	RXJ50M
Dimensions	Height x Width x Depth	mm	550 x 765 x 285			735 x 825 x 315	550 x 765 x 300			735 x 825 x 315
Weight		kg	34			47	34			48
Electrical Details	Power Supply		1ph				1ph			
	Running Current	A	2.67	2.82	4.18	6.43	2.67	2.82	4.18	6.43
	Starting Current	A	2.6	3.6	4.6	6.9	2.6	3.6	4.6	6.9
	Max Fuse Size	A	10	10	10	15	10	10	10	15
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5			
Piping Connections	Liquid / Gas	inches	1/4 / 3/8	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2	1/4 / 3/8	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2
Pipework	Maximum Length	m	20	20	20	30	20	20	20	30
	Maximum Vertical Rise	m	15	15	15	20	15	15	15	20
	Precharged to	m	10	10	10	10	10	10	10	10
	Additional Charge	g/m	20				20			
	Holding Charge	kg	0.72	0.72	0.72	1.3	0.72	0.72	0.72	1.1
Sound Pressure	High / Silent	dBA	46 / 43	46 / 43	48 / 45	48 / 45	46 / 43	46 / 43	48 / 45	48 / 45
Sound Power		dBA	61	61	63	63	61	61	63	63
Air Flow Rate (cooling)	High	m^3/Sec	0.575	0.575	0.616	0.830	0.575	0.575	0.616	0.830
ECA Eligible			●	●	●	●	●	●	●	●

Wall mounted unit

Attractive, wall mounted design with perfect indoor air quality

- Seasonal efficiency values up to A+++ in cooling and heating thanks to its up-to-date technology and built-in intelligence
- Practically inaudible: the unit runs so quietly, you will almost forget it is there
- Fresher, cleaner air thanks to Daikin's Flash Streamer technology: you can breathe deep with no worries about impure air
- 2-area intelligent eye: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting
- 3D air flow combines vertical and horizontal auto-swing to circulate a stream of warm or cool air right to the corners of even large spaces
- Online controller (optional): control your indoor from any location with an app, via your local network or internet and keep an overview on your energy consumption
- Sleek, unobtrusive air conditioning unit that matches European sensibilities regarding interior design
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A and leads directly to lower energy consumption thanks to its high energy efficiency

FTXM20-42M

RXM-M

ARC466A33

R32 Bluevolution

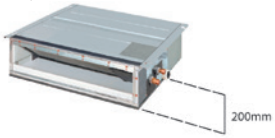
Indoor Units			FTXM20M	FTXM25M	FTXM35M	FTXM42M	FTXM50M	FTXM60M	FTXM71M
Capacity	UK Total Cooling	kW	1.95	2.44	3.42	4.11	4.56	TBC	TBC
	UK Sensible Cooling	kW	1.65	1.82	2.56	2.85	3.14	TBC	TBC
	Nominal Cooling	kW	2.00	2.50	3.50	4.20	5.00	6.0	7.1
	Nominal Heating	kW	2.50	3.40	4.00	5.40	5.80	7.0	8.2
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+++	A+++	A+++	A++	A++	A++	A++
	Pdesign	kW	2.00	2.50	3.40	4.20	5.00	6	6.8
	SEER		8.53	8.52	8.51	7.50	7.33	6.9	6.11
	Annual Energy Consumption	kWh	83	103	140	196	239	304	390
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+++	A+++	A+++	A++	A++	A+	A
	Pdesign	kW	2.30	2.40	2.50	4.00	4.60	4.6	6.2
	SCOP		5.10	5.10	5.10	4.60	4.60	TBC	TBC
	Annual Energy Consumption	kWh	632	659	686	1217	1400	1498	2278
Nominal Efficiency	Energy Label		A / A	A / A	A / A	A / A	A / A	A / A	B / D
	EER / COP		4.57 / 5.00	4.50 / 5.00	4.23 / 4.04	3.75 / 4.12	3.68 / 4.00	3.39 / 3.61	3.03 / 3.19
	Annual Energy Consumption	kWh	219	278	402	560	682	885	1174
Air Flow Rate	High / Low / Silent	m^3/sec	0.185 / 0.100 / 0.073	0.185 / 0.103 / 0.073	0.210 / 0.106 / 0.076	0.210 / 0.118 / 0.076	0.266 / 0.185 / 0.168	- / 0.318 / -	- / 0.341 / -
Dimensions	Height	mm	272	272	272	272	295		
	Width	mm	811	811	811	811	1040		
	Depth	mm	294	294	294	294	300		
Weight		kg	10	10	10	10	14.5		
Sound Pressure	High / Low / Silent	dBA	41 / 25 / 19	41 / 25 / 19	45 / 29 / 19	45 / 30 / 21	46 / 37 / 34	TBC	TBC
Sound Power		dBA	57	57	60	60	60	61	62

Outdoor Units			RXM20M	RXM25M	RXM35M	RXM42M	RXM50M	RXM60M	RXM71M
Dimensions	Height x Width x Depth	mm	550 x 765 x 285			735 x 825 x 300			735 x 870 x 320
Weight		kg	32	32	32	44	44	44	44
Electrical Details	Power Supply		1ph			1ph			
	Running Current	A	1.95	2.47	4.23	4.97	6.48	TBC	TBC
	Starting Current	A	3.7	3.7	4.4	6.8	6.6	TBC	TBC
	Max Fuse Size	A	10	10	10	20	20	TBC	TBC
Interconnection Wiring	Core / Cable size		3+E / 1.5			3+E / 2.5		TBC	TBC
Piping Connections	Liquid / Gas	inches	1/4 (6.4) / 3/8 (9.5)			1/4 (6.4) / 1/2 (12.7)			TBC
Pipework	Maximum Length	m	20	20	20	30	30	30	30
	Maximum Vertical Rise	m	15	15	15	15	15	15	15
	Precharged to	m	10	10	10	10	10	10	10
	Additional Charge	g/m	20			20			
	Holding Charge	kg	0.76	0.76	0.76	1.30	1.4	1.5	1.7
Sound Pressure	High / Silent	dBA	46 / -	46 / -	49 / -	48 / 44	48 / 44	48 / 44	47 / -
Sound Power		dBA	59	59	61	63	63	63	66
Air Flow Rate (Cooling)	High	m^3/sec	0.600	0.600	0.600	0.848	0.840	TBC	TBC
ECA Eligible			●	●	●	●	●	●	●

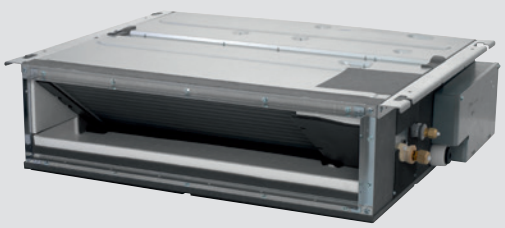
Concealed ceiling unit

Compact concealed ceiling unit, with a height of only 200mm

› Compact dimensions, can easily be mounted in a ceiling void of only 240mm



› Discreetly concealed in the ceiling: only the suction and discharge grilles are visible
› Choosing for an R-32 product reduces the environmental impact by 68% compared with R-410A and leads directly to lower energy consumption thanks to its high energy efficiency
› Low energy consumption thanks to DC fan motor
› Medium external static pressure up to 40Pa facilitates unit use with flexible ducts of varying lengths



FDXM25-35F

BRC1E52A/B

Indoor unit			FDXM	*25F	*35F	*50F	*60F
Dimensions	Unit	HeightxWidthxDepth	mm	200x750x620		200x1,150x620	
Weight	Unit		kg	21		30	
Air filter	Type			Removable / washable / mildew proof			
Fan - Air flow rate	Cooling	High/Nom./Low	m^3/sec	0.145/0.133/0.122		0.200/0.183/0.167	0.267/0.247/0.225
	Heating	High/Nom./Low	m^3/sec	0.145/0.133/0.122		0.267/0.247/0.225	
Fan - External static pressure	Nom./Maximum available/High		Pa	30/-		40/-	
Sound power level	Cooling		dBA	53		55	56
	Heating		dBA	53		55	56
Sound pressure level	Cooling	High/Nom./Low	dBA	35/33/27		38/36/30	38/35/30
	Heating	High/Nom./Low	dBA	35/33/27		38/36/30	
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 230		1~ / 50 / 220-240	
Control systems	Infrared remote control			BRC4C65			
	Wired remote control			BRC1E52			

* preliminary data

Multi model application

- Seasonal efficiencies up to A+++ in cooling
- Outdoor units for multi model application
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Up to 5 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time. Each unit works individually and independently from the other regarding set point and fan speed but within the same cooling or heating mode
- Different types of indoor units can be connected: e.g. wall mounted units, concealed ceiling units
- Choosing an R-32 product reduces the environmental impact by 68% compared with R-410A and leads directly to lower energy consumption

2MXM40-50M

	Wall mounted															Concealed ceiling			
	Daikin Emura FTXJ-MW/S				CTXM-M	FTXM-M							FTXP-KV			FDXM-F			
Connectable indoor units	20	25	35	50	15	20	25	35	42	50	60	71	20	25	35	25	35	50	60
2MXM40M	●	●	●		●	●	●	●					●	●	●	●	●		
2MXM50M	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	
3MXM40M	●	●	●		●	●	●	●								●	●		
3MXM52M	●	●	●	●	●	●	●	●	●	●						●	●	●	
3MXM68M	●	●	●	●	●	●	●	●	●	●	●					●	●	●	●
4MXM68M	●	●	●	●	●	●	●	●	●	●	●					●	●	●	●
4MXM80M	●	●	●	●	●	●	●	●	●	●	●	●				●	●	●	●
5MXM90M	●	●	●	●	●	●	●	●	●	●	●	●				●	●	●	●

*Note: blue cells contain preliminary data

Outdoor unit					*2MXM40M	*2MXM50M	*3MXM40M	*3MXM52M	*3MXM68M	*4MXM68M	*4MXM80M	*5MXM90M
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x870x320					
Weight	Unit			kg	-							
Sound power level	Cooling			dBA	60	61	59		61		62	66
Sound pressure level	Cooling	Nom.		dBA	46	48	46		48			52
	Heating	Nom.		dBA	48	50	47		48	49		52
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240							
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46							
	Heating	Ambient	Min.~Max.	°CWB	-15~24							
Number of connected indoor units					2	2	3	3	3	4	4	5

BLUEVOLUTION

Seasonal Smart

High COP, round flow cassette

360° air discharge for optimum efficiency and comfort

› Industry leading technology extended with R-32
› 68% lower GWP compared with R-410A products
› 10% lower refrigerant charge compared with R-410A products
› Minimum 5% more efficient in cooling when compared with R-410A products

› Duty rotation control (via BRC1E53A/B/C)
› Power saving mode can be set to 70% or 40% of the demand (via BRC1E53A/B/C)
› 5 different fan speeds available
› Includes all R-410A high COP round flow cassette features

Indoor Units			Single Phase			
			FCAHG71F	FCAHG100F	FCAHG125F	FCAHG140F
Capacity	UK Total Cooling	kW	7.76	10.80	13.60	14.90
	UK Sensible Cooling	kW	5.32	7.44	9.30	10.25
	Nominal Cooling	kW	6.80	9.50	12.00	13.40
	Nominal Heating	kW	7.50	10.80	13.50	15.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A++	-
	Pdesign	kW	6.80	9.50	12.0	-
	SEER		7.35	7.35	6.94	-
	Annual Energy Consumption	kWh	TBC	TBC	TBC	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A++	A++	-
	Pdesign	kW	7.60	11.30	12.66	-
	SCOP		4.54	4.80	4.63	-
	Annual Energy Consumption	kWh	2343	3298	3829	-
Nominal Efficiency	Energy Label		A / A	A / A	A / A	A / A
	EER / COP		4.09 / 4.80	4.42 / 4.99	4.00 / 4.00	3.35 / 4.12
	Annual Energy Consumption	kWh	831	1075	1500	2000
Air Flow Rate	High / Low	m^3/sec	0.353 / 0.270 / 0.203	0.538 / 0.428 / 0.317	0.558 / 0.445 / 0.332	0.558 / 0.455 / 0.352
Dimensions (with Decoration Panel)	Height	mm	288(348)	288 (348)	288 (348)	288 (348)
	Width	mm	840 (950)	840 (950)	840 (950)	840 (950)
	Depth	mm	840 (950)	840 (950)	840 (950)	840 (950)
Weight (with Decoration Panel)		kg	25 (30.5)	26 (31.4)	26 (31.4)	26 (31.4)
Sound Pressure	High / Nom / Low	dBA	36 / 33 / 29	44 / 39 / 33	45 / 40 / 35	45 / 41 / 37
Sound Power		dBA	53	61	61	61

Outdoor Units			RZAG71LV1	RZAG100LV1	RZAG125LV1	RZAG140LV1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320		
Weight		kg	69	95	95	95
Electrical Details	Power Supply		1ph			
	Running Current	A	TBC	TBC	TBC	TBC
	Starting Current	A	4	4	4	4
	Max Fuse Size	A	20	32	32	32
Interconnection Wiring	Core / Cable size		3+E / 1.5			
Piping Connections	Liquid / Gas	inches	3/8 (9.5) / 5/8 (15.9)			
Pipework	Maximum Length	m	50	75	75	75
	Maximum Vertical Rise	m	30	30	30	30
	Precharged to	m	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual			
	Holding Charge	kg	2.6	3.6	3.6	3.6
Sound Pressure	Nom	dBA	48	50	51	52
Sound Power	Nom	dBA	64	66	67	69
Air Flow Rate (cooling)	High	m^3/sec	TBC	TBC	TBC	TBC

Ururu Sarara FTXZ-N

Daikin Emura FTXJ-MW

FTXM-M

Pair

Industry leading technology with R-32 delivering optimal efficiency and comfort for commercial applications

- Daikin's Seasonal Smart range is the first R-32 light commercial range available in the European market
- 68% lower GWP compared with R-410A products
- 10% lower refrigerant charge compared with R-410A products
- Minimum 5% more efficient in cooling when compared with R-410A products
- Quiet mode: set via the remote control for example during night time
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days

Variable Refrigerant Temperature

- Re-use of existing R-22 or R-407C technology
- Extended operation range down to -20°C in heating and down to -15°C in cooling

RZQG140L9V1//(L(8)Y1

Outdoor Units			RZAG71LV1	RZAG100LV1	RZAG125LV1	RZAG140LV1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320		
Weight		kg	69	95	95	95
Electrical Details	Power Supply		1ph			
	Running Current	A	TBC	TBC	TBC	TBC
	Starting Current	A	4	4	4	4
	Max Fuse Size	A	20	32	32	32
Interconnection Wiring	Core / Cable size		3+E / 1.5			
Piping Connections	Liquid / Gas	inches	3/8 (9.5) / 5/8 (15.9)			
Pipework	Maximum Length	m	50	75	75	75
	Maximum Vertical Rise	m	30	30	30	30
	Precharged to	m	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual			
	Holding Charge	kg	2.6	3.6	3.6	3.6
Sound Pressure	Nom	dBA	48	50	51	52
Sound Power	Nom	dBA	64	66	67	69
Air Flow Rate (cooling)	High	m^3/sec	TBC	TBC	TBC	TBC

Indoor units

Benefits for the installer

› Modular designs and factory fitted extras make installation easier to achieve

Benefits for the consultant

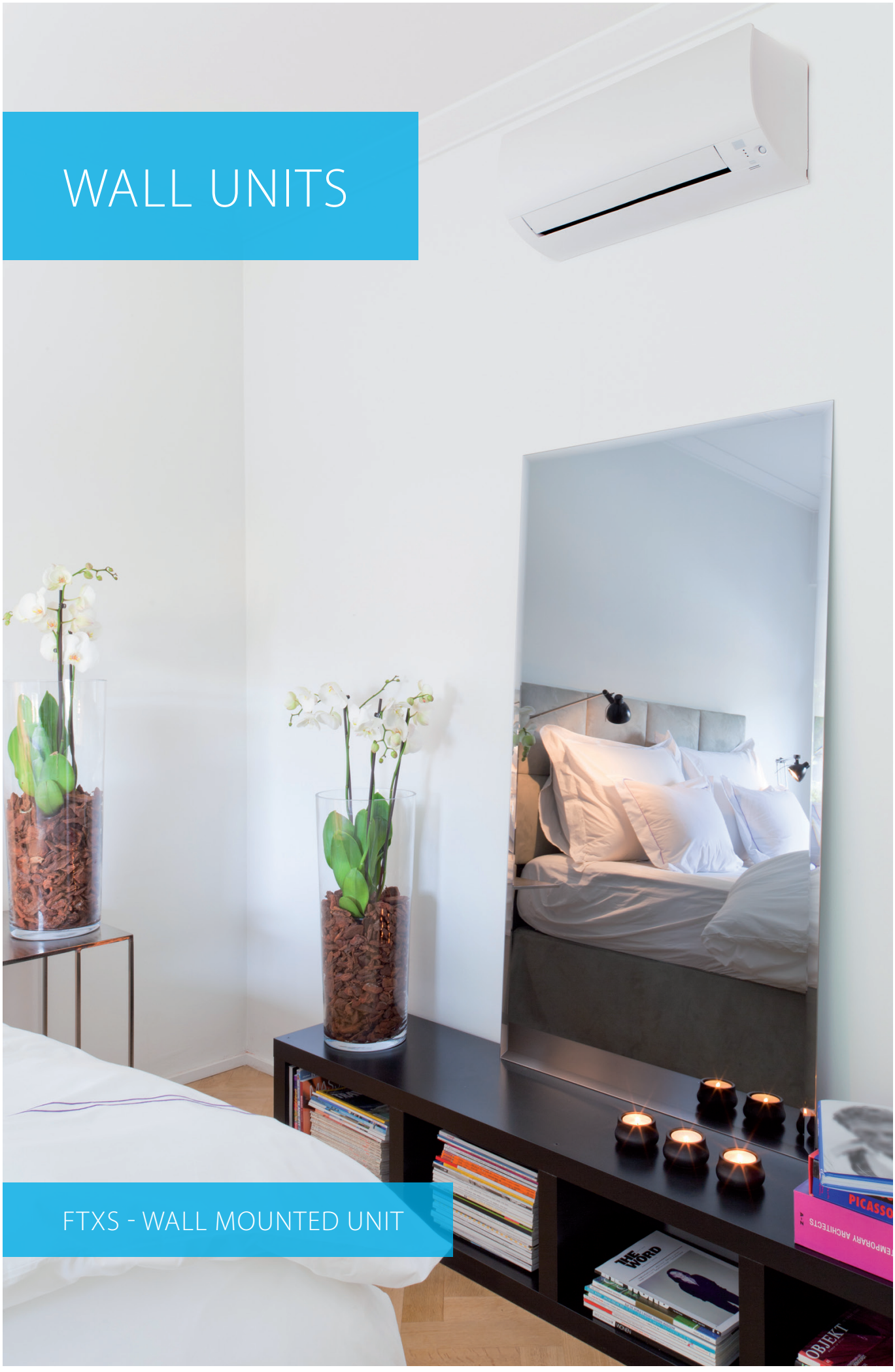
› You will have the confidence of knowing that you can recommend the right climate control systems to meet tomorrow's legislation
› You will have systems that are designed to blend into any décor and provide optimal performance with top seasonal efficiencies
› You will have access to innovative technology to maximise the climate control performance of the entire building
› Your credentials as an eco-conscious consultant and designer will be enhanced

Benefits for the end user

› Your climate control system will meet legal requirements well beyond the current legislation
› You will obtain optimal seasonal performance thus saving energy and reducing costs
› You will have even better energy efficient units when choosing our Sky Air R-32 product range (minimum 5% more efficient compared with R-410A products)
› The climate control system will add value to the building thus protecting your investment
› You will save on installation and running costs, obtain rapid return on investment and contribute to ecological protection objectives

A wide range of high quality and design indoor units for residential and light commercial applications

WALL UNITS

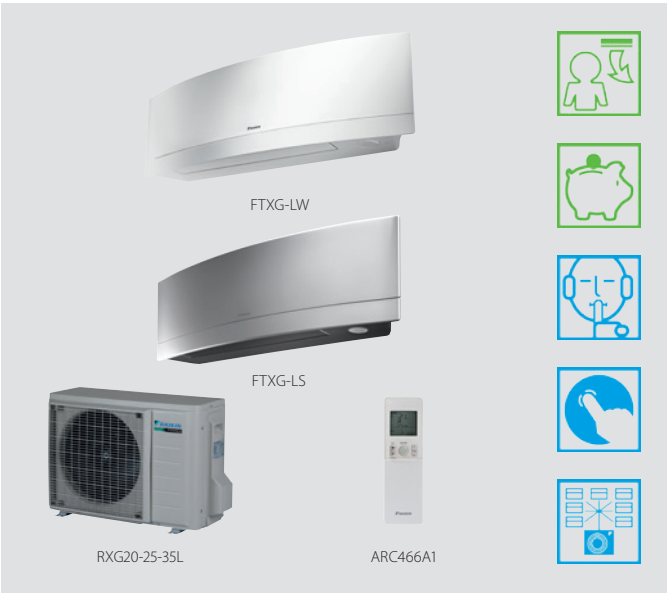


FTXS - WALL MOUNTED UNIT

Wall mounted unit

Design at its best, delivering superior efficiency and comfort

- Seasonal efficiency values up to A+++
- Remarkable blend of iconic design and engineering excellence with an elegant finish in silver and anthracite or in matt crystal white
- Daikin Emura has been awarded with Reddot design award 2014 by an international jury, thanks to its excellent design
- Designed to perfectly balance technological leadership and the beauty of aerodynamics
- Online controller (optional): control your indoor from any location with an app, via your local network or internet
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!



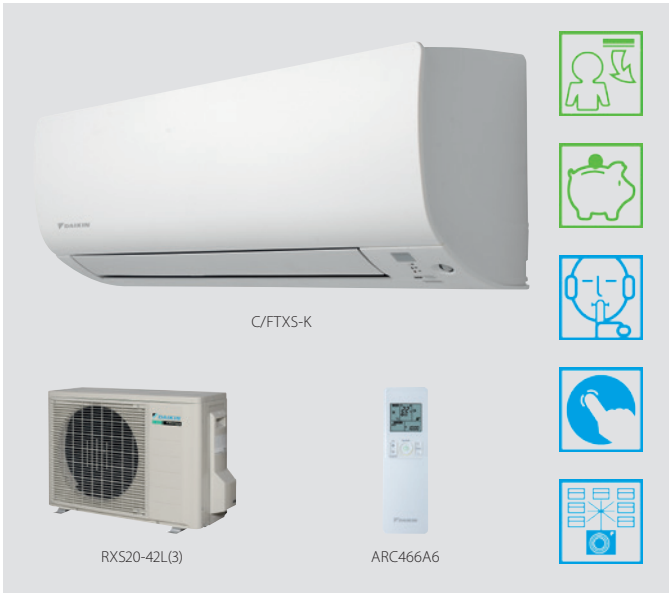
Indoor Units			Matt Crystal White				Silver			
			FTXG20LW	FTXG25LW	FTXG35LW	FTXG50LW	FTXG20LS	FTXG25LS	FTXG35LS	FTXG50LS
Capacity	UK Total Cooling	kW	2.25	2.35	3.42	4.69	2.25	2.35	3.42	4.69
	UK Sensible Cooling	kW	1.84	1.88	2.51	3.09	1.84	1.88	2.51	3.09
	Nominal Cooling	kW	2.00	2.50	3.50	5.00	2.00	2.50	3.50	5.00
	Nominal Heating	kW	2.50	3.40	4.00	5.80	2.50	3.40	4.00	5.80
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+++	A+++	A++	A++	A+++	A+++	A++	A++
	Pdesign	kW	2.30	2.40	3.50	4.80	2.30	2.40	3.50	4.80
	SEER		8.52	8.50	7.00	6.70	8.52	8.50	7.00	6.70
	Annual Energy Consumption	kWh	94	99	175	251	94	99	175	251
Seasonal Efficiency (EN14825) HEATING	Energy Label		A++	A++	A++	A+	A++	A++	A++	A+
	Pdesign	kW	2.10	2.70	3.00	4.60	2.10	2.70	3.00	4.60
	SCOP		4.60	4.60	4.60	4.24	4.60	4.60	4.60	4.24
	Annual Energy Consumption	kWh	639	821	913	1519	639	821	913	1519
Nominal Efficiency	EER / COP		4.59 / 5	4.59 / 4.42	3.97 / 4.06	3.53 / 3.65	4.59 / 5	4.59 / 4.42	3.97 / 4.06	3.53 / 3.65
	Energy Label		A / A	A / A	A / A	A / A	A / A	A / A	A / A	A / A
	Annual Energy Consumption	kWh	250	261	441	680	250	261	441	680
Air Flow Rate (Cooling)	High / Low / Silent	m³/sec	0.148 / 0.073 / 0.043	0.148 / 0.073 / 0.043	0.182 / 0.080 / 0.048	0.182 / 0.113 / 0.060	0.148 / 0.073 / 0.043	0.148 / 0.073 / 0.043	0.182 / 0.080 / 0.048	0.182 / 0.113 / 0.060
Dimensions	Height	mm	303				303			
	Width	mm	998				998			
	Depth	mm	212				212			
Weight		kg	12	12	12	12	12	12	12	12
Sound Pressure (Cooling)	High / Low / Silent	dBA	38 / 25 / 19	38 / 25 / 19	45 / 26 / 20	46 / 35 / 32	38 / 25 / 19	38 / 25 / 19	45 / 26 / 20	46 / 35 / 32
Sound Power		dBA	54	54	59	60	54	54	59	60

Outdoor Units			RXG20L	RXG25L	RXG35L	RXG50L	RXG20L	RXG25L	RXG35L	RXG50L
Dimensions	Height x Width x Depth	mm	550 x 765 x 285			735 x 825 x 300	550 x 765 x 285			735 x 825 x 300
Weight		kg	35			48	35			48
Electrical Details	Power Supply		1ph				1ph			
	Running Current	A	2.70	2.80	4.80	6.20	2.70	2.80	4.80	6.20
	Starting Current	A	2.8	4.4	5.5	7.4	2.8	4.4	5.5	7.4
	Max Fuse Size	A	16	16	16	20	16	16	16	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5			
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)			1/4 (6.4) / 1/2 (12.7)	1/4 (6.4) / 3/8 (9.5)			1/4 (6.4) / 1/2 (12.7)
Pipework	Maximum Length	m	20	20	20	30	20	20	20	30
	Maximum Vertical Rise	m	15	15	15	20	15	15	15	20
	Precharged to	m	10	10	10	10	10	10	10	10
	Additional Charge	g/m	20				20			
	Holding Charge	kg	1.05	1.05	1.05	1.6	1.05	1.05	1.05	1.6
Sound Pressure (Cooling)	High / Silent Operation	dBA	46 / 43	46 / 43	48 / 44	48 / 44	46 / 43	46 / 43	48 / 44	48 / 44
Sound Power		dBA	61	61	63	63	61	61	63	63
Air Flow Rate	High	m³/sec	0.575	0.575	0.616	0.830	0.575	0.575	0.616	0.830
ECA Eligible			●	●	●	●	●	●	●	●

Wall mounted unit

Discreet, modern design for optimal efficiency and comfort thanks to 2-area intelligent eye

- Discreet, modern design. Its smooth curve blends beautifully with the wall resulting in an unobtrusive presence that matches all interior décors
- High quality matt crystal white finish
- Whisper quiet in operation: the operating of the unit can hardly be heard. The sound pressure level goes down to 19dBA!
- Ideal for installation in bedrooms (20,25 class) and larger or irregular shaped living areas (35,42,50 class)
- 2-area intelligent eye: air flow is sent to a zone other than where the person is located at that moment; if no people are detected, the unit will automatically switch over to the energy-efficient setting.
- Online controller (optional): control your indoor unit from any location with an app, via your local network or internet



Indoor Units			FTXS20K	FTXS25K	FTXS35K	FTXS42K	FTXS50K	FTXS60G	FTXS71G
Capacity	UK Total Cooling	kW	1.95	2.44	3.42	4.11	4.56	5.86	6.94
	UK Sensible Cooling	kW	1.65	1.82	2.56	2.85	3.14	3.87	4.65
	Nominal Cooling	kW	2.00	2.50	3.50	4.20	5.00	6.00	7.10
	Nominal Heating	kW	2.50	3.40	4.00	5.40	5.80	7.00	8.20
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A++	A++	A++	A	A
	Pdesign	kW	2.00	2.50	3.50	4.20	5.00	6.00	7.10
	SEER		7.40	7.90	7.47	6.80	6.80	5.58	5.23
	Annual Energy Consumption	kWh	95	111	164	216	257	376	475
Seasonal Efficiency (EN14825) HEATING	Energy Label		A++	A++	A++	A+	A+	A	A
	Pdesign	kW	2.30	2.50	3.50	4.00	4.60	4.80	6.50
	SCOP		4.77	4.78	4.85	4.20	4.20	3.89	3.50
	Annual Energy Consumption	kWh	675	732	1039	1334	1535	1728	2593
Nominal Efficiency	EER / COP		4.65 / 4.72	4.21 / 4.67	3.89 / 4.76	3.35 / 4.12	3.32 / 4	3.02 / 3.43	3.02 / 3.22
	Energy Label		A / A	A / A	A / A	A / A	A / A	B / B	B / C
	Annual Energy Consumption	kWh	228	297	450	627	753	995	1175
Air Flow Rate (Cooling)	High / Low / Silent	m^3/sec	0.147 / 0.078 / 0.065	0.152 / 0.083 / 0.065	0.187 / 0.097 / 0.068	0.187 / 0.117 / 0.068	0.198 / 0.123 / 0.075	0.267 / 0.188 / 0.168	0.287 / 0.192 / 0.175
Dimensions	Height	mm	289	289	298	298	298	290	290
	Width	mm	780	780	900	900	900	1050	1050
	Depth	mm	215	215	215	215	215	250	250
Weight		kg	8	8	11	11	11	12	12
Sound Pressure (Cooling)	High / Nom / Low / Silent	dBA	40 / 32 / 24 / 19	41 / 33 / 25 / 19	45 / 37 / 29 / 19	45 / 39 / 33 / 21	46 / 40 / 34 / 23	45 / 41 / 36 / 33	46 / 42 / 37 / 34
Sound Power		dBA	58	58	59	59	60	60	63

Outdoor Units			RXS20L3	RXS25L3	RXS35L3	RXS42L	RXS50L	RXS60L	RXS71F8
Dimensions	Height x Width x Depth	mm	550 x 765 x 285		550 x 765 x 285		735 x 825 x 300		770 x 900 x 320
Weight		kg	34	34	34	39	47	48	71
Electrical Details	Power Supply		1ph			1ph			
	Running Current	A	2.30	3.10	4.10	5.70	6.30	8.80	10.49
	Starting Current	A	2.4	3.3	4.3	6.6	6.8	9.4	11.7
	Max Fuse Size	A	10	10	10	20	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5			3+E / 1.5			
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)			1/4 (6.4) / 1/2 (12.7)			1/4 (6.4) / 5/8 (15.9)
Pipework	Maximum Length	m	20	20	20	20	30	30	30
	Maximum Vertical Rise	m	15	15	15	15	20	20	20
	Precharged to	m	10	10	10	10	10	10	10
	Additional Charge	g/m	20			20			
	Holding Charge	kg	1.0	1.0	1.2	1.3	1.7	1.5	2.3
Sound Pressure (Cooling)	High / Silent Operation	dBA	46 / 43	46 / 43	48 / 44	48 / 44	48 / 44	49 / 46	52 / 49
Sound Power		dBA	59	59	61	61	62	62	65
Air Flow Rate (Cooling)	High	m^3/sec	0.558	0.558	0.600	0.621	0.848	0.835	0.910
ECA Eligible			●	●	●	●	●		

Wall mounted unit

Discreet wall mounted unit providing high efficiency and comfort

- SEER / SCOP up to A++
- Discreet, stylish front panel blends easily with the wall, and matches all interior décors
- Online controller (optional): control your indoor from any location with an app, via your local network or internet
- Dry programme allows humidity levels to be reduced without variations in room temperature
- Up to 2 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time

Indoor Units			FTX20KV	FTX25KV	FTX35KV	FTX50KV	FTX60KV	FTX71KV
Capacity	UK Total Cooling	kW	1.95	2.44	3.42	TBC	TBC	TBC
	UK Sensible Cooling	kW	1.65	1.82	2.56	TBC	TBC	TBC
	Nominal Cooling	kW	2.00	2.50	3.50	5.00	6.00	7.10
	Nominal Heating	kW	2.50	3.40	4.00	6.00	7.00	8.20
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A++	A++	A++	A
	Pdesign	kW	2.00	2.50	3.50	5.00	6.00	7.10
	SEER		6.66	6.55	6.44	6.59	6.76	5.25
	Annual Energy Consumption	kWh	105	134	190	266	311	473
Seasonal Efficiency (EN14825) HEATING	Energy Label		A++	A++	A++	A+	A+	A
	Pdesign	kW	2.20	2.40	2.80	4.60	4.80	6.2
	SCOP		4.65	4.61	4.64	4.13	4.10	3.81
	Annual Energy Consumption	kWh	TBC	TBC	TBC	TBC	TBC	TBC
Nominal Efficiency	EER / COP		3.98 / 4.77	3.78 / 4.36	3.43 / 4.02	3.58 / 3.80	3.65 / 3.63	2.61 / 3.19
	Energy Label		A / A	A / A	A / A	A / A	A / A	
	Annual Energy Consumption	kWh	251	331	510	698	822	1360
Air Flow Rate	High / Low / S Low	m^3/min	0.165 / 0.096 / 0.080	0.173 / 0.101 / 0.080	0.196 / 0.105 / 0.081	0.266 / 0.185 / 0.168	0.293 / 0.203 / 0.186	0.293 / 0.203 / 0.186
Dimensions	Height	mm	286	286	286	295	295	295
	Width	mm	770	770	770	990	990	990
	Depth	mm	225	225	225	263	263	263
Weight		kg	8	8	8	13.5	13.5	13.5
Sound Pressure	High / Low / S Low	dBA	39 / 25 / 20	40 / 26 / 20	43 / 27 / 20	43 / 34 / 31	45 / 36 / 33	46 / 37 / 34
Sound Power		dBA	55	55	59	59	60	62

Outdoor Units			RX20K	RX25K	RX35K	RX50K	RX60K	RX71K
Dimensions	Height x Width x Depth	mm	550 x 658 x 275			735 x 870 x 320		
Weight		kg	28			44	49	49
Electrical Details	Power Supply		1ph			1 ph		
	Running Current	A	TBC	TBC	TBC	TBC	TBC	TBC
	Starting Current	A	3.0	3.7	5.2	7	9.9	TBC
	Max Fuse Size	A	16	16	16	20	20	TBC
Interconnection Wiring	Core / Cable size		3+E / 1.5			3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)			1/4 (6.4) / 1/2 (12.7)		
Pipework	Maximum Length	m	15	15	15	30	30	30
	Maximum Vertical Rise	m	12	12	12	20	20	20
	Precharged to	m	10	10	10	10	10	10
	Additional Charge	g/m	20	20	20	20	20	20
	Holding Charge	kg	0.74	0.74	1.00	1.13	1.45	1.45
Sound Pressure	High	dBA	46	46	48	47	49	52
Sound Power		dBA	60	60	62	61	63	66
Air Flow Rate (Cooling)	High	m^3/sec	0.486	0.486	0.460	1.063	1.045	TBC

Seasonal Smart

Wall mounted unit

For rooms with no false ceilings or free floor space

› Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FAQ100C

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B BRC7EB518

Indoor Units			Single Phase		3 Phase	
			FAQ71C9	FAQ100C9	FAQ71C9	FAQ100C9
Capacity	UK Total Cooling	kW	7.76	10.80	7.76	10.80
	UK Sensible Cooling	kW	5.32	7.44	5.32	7.44
	Nominal Cooling	kW	6.80	9.50	6.80	9.50
	Nominal Heating	kW	7.50	10.80	7.50	10.80
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A++	A++
	Pdesign	kW	6.80	9.50	6.80	9.50
	SEER		6.51	6.11	6.51	6.11
	Annual Energy Consumption	kWh	366	545	366	545
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A+	A+
	Pdesign	kW	6.33	10.20	6.33	10.20
	SCOP		4.02	4.01	4.02	4.01
	Annual Energy Consumption	kWh	2205	3562	2205	3562
Nominal Efficiency	EER / COP		3.4 / 3.7	3.62 / 3.61	3.4 / 3.7	3.62 / 3.61
	Energy Label		A / A	A / A	A / A	A / A
	Annual Energy Consumption	kWh	1000	1315	1000	1315
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.300 / 0.267 / 0.233	0.433 / 0.383 / 0.317	0.300 / 0.267 / 0.233	0.433 / 0.383 / 0.317
Dimensions	Height	mm	290	340	290	340
	Width	mm	1050	1200	1050	1200
	Depth	mm	238	240	238	240
Weight		kg	13	17	13	17
Sound Pressure (Cooling)	High / Nom / Low	dBA	45 / 42 / 40	49 / 45 / 41	45 / 42 / 40	49 / 45 / 41
Sound Power		dBA	61	65	61	65

Outdoor Units			RZQG71L9V1	RZQG100L9V1	RZQG71L8Y1	RZQG100L8Y1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320	990 x 940 x 320	1430 x 940 x 320
Weight		kg	69	95	80	101
Electrical Details	Power Supply		1ph		3ph	
	Running Current	A	8.17	10.75	3.07	4.04
	Starting Current	A	4	4	4	4
	Max Fuse Size	A	20	32	16	20
Interconnection Wiring	Core / Cable size		3+E / 1.5		3+E / 1.5	
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)		3/8 (9.5) / 5/8 (15.9)	
Pipework	Maximum Length	m	50	75	50	75
	Maximum Vertical Rise	m	30	30	30	30
	Precharged to	m	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual		Refer to Installation Manual	
	Holding Charge	kg	2.9	4.0	2.9	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	48 / 43	50 / 45	48 / 43	50 / 45
Sound Power		dBA	64	66	64	66
Air Flow Rate (Cooling)	Nominal	m^3/sec	0.983	1.166	0.983	1.116
ECA Eligible			●		●	

Seasonal Classic

Wall mounted unit

For rooms with no false ceilings or free floor space

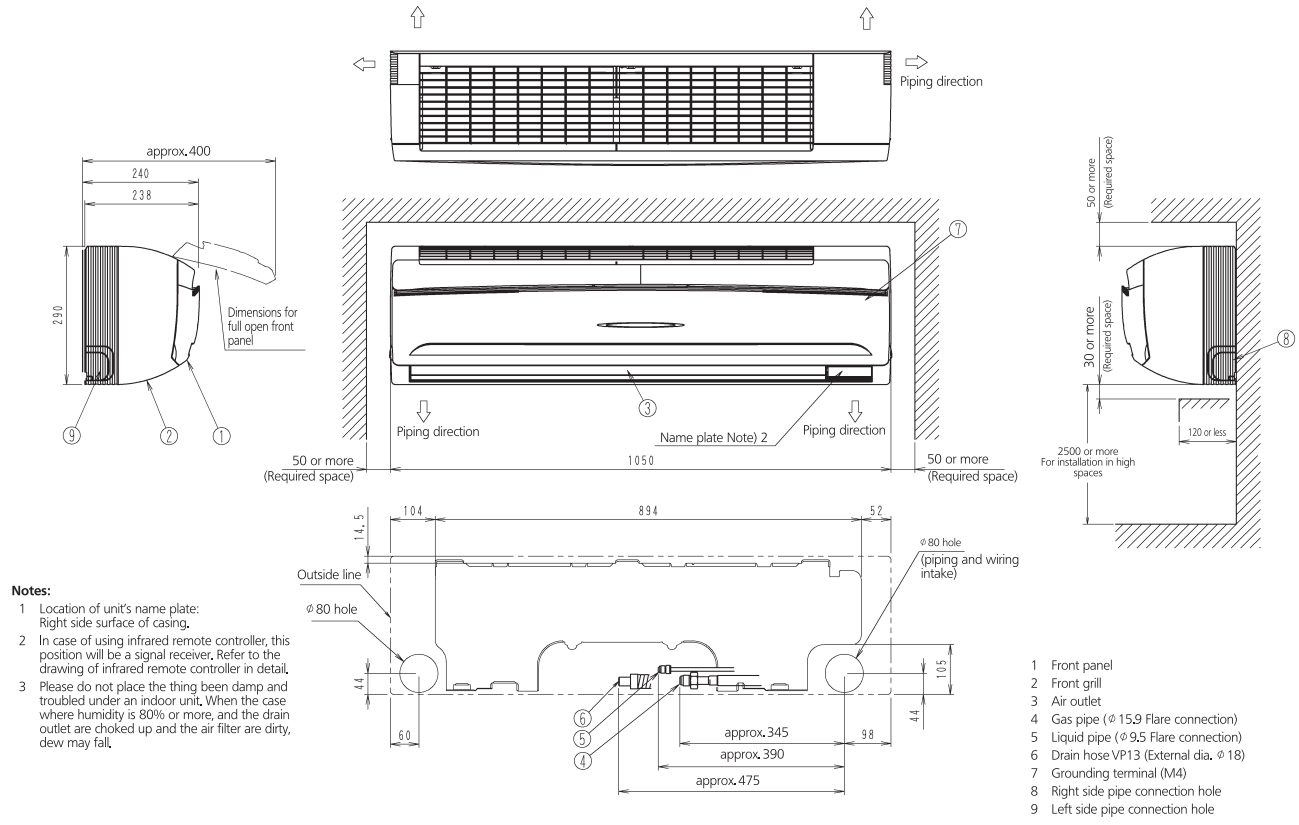
Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- Reduced energy consumption thanks to specially developed DC fan motor
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Maintenance operations can be performed easily from the front of the unit
- Flexible to install as the largest casing only weighs 17kg and piping connection can be done at the bottom, left or right of the unit
- Optimum comfort guaranteed with automatic air-flow volume control as this minimises the difference between room and required temperature. No action required from occupants to meet the desired temperature
- No optional adapter needed for DIII-connection, link your unit into the wider building management system

Indoor Units			Single Phase		3 Phase
			FAQ71C9	FAQ100C9	FAQ100C9
Capacity	UK Total Cooling	kW	7.28	10.80	10.80
	UK Sensible Cooling	kW	4.99	7.44	7.44
	Nominal Cooling	kW	6.80	9.50	9.50
	Nominal Heating	kW	7.50	10.80	10.80
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+	A+	A+
	Pdesign	kW	6.80	9.50	9.50
	SEER		6.05	5.61	5.61
	Annual Energy Consumption	kWh	393	593	593
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A+
	Pdesign	kW	6.00	6.81	6.81
	SCOP		3.90	4.01	4.01
	Annual Energy Consumption	kWh	2155	2378	2378
Nominal Efficiency	EER / COP		3.21 / 3.61	3.01 / 3.41	3.01 / 3.41
	Energy Label		A / A	B / B	B / B
	Annual Energy Consumption	kWh	1060	1580	1580
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.300 / 0.267 / 0.233	0.433 / 0.383 / 0.317	0.433 / 0.383 / 0.317
Dimensions	Height	mm	290	340	340
	Width	mm	1050	1200	1200
	Depth	mm	238	240	240
Weight		kg	13	17	17
Sound Pressure (Cooling)	High / Nom / Low	dBA	45 / 42 / 40	49 / 45 / 41	49 / 45 / 41
Sound Power		dBA	61	65	65

Outdoor Units			RZQSG71L3V1	RZQSG100L9V1	RZQSG100L8Y1
Dimensions	Height x Width x Depth	mm	770 x 900 x 320	990 x 940 x 320	990 x 940 x 320
Weight		kg	67	72	82
Electrical Details	Power Supply		1ph		3ph
	Running Current	A	8.66	12.91	4.86
	Starting Current	A	4	4	4
	Max Fuse Size	A	20	32	20
Interconnection Wiring	Core / Cable size		3+E / 1.5		3+E / 1.5
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)		3/8 (9.5) / 5/8 (15.9)
Pipework	Maximum Length	m	50	50	50
	Maximum Vertical Rise	m	15	30	30
	Precharged to	m	30	30	30
	Additional Charge	g/m	Refer to Installation Manual		Refer to Installation Manual
	Holding Charge	kg	2.75	2.9	2.9
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	49 / 49	53 / 49	53 / 49
Sound Power		dBA	65	70	70
Air Flow Rate (Cooling)	Nominal	m^3/sec	0.866	1.266	1.266

FAQ71C



Notes:

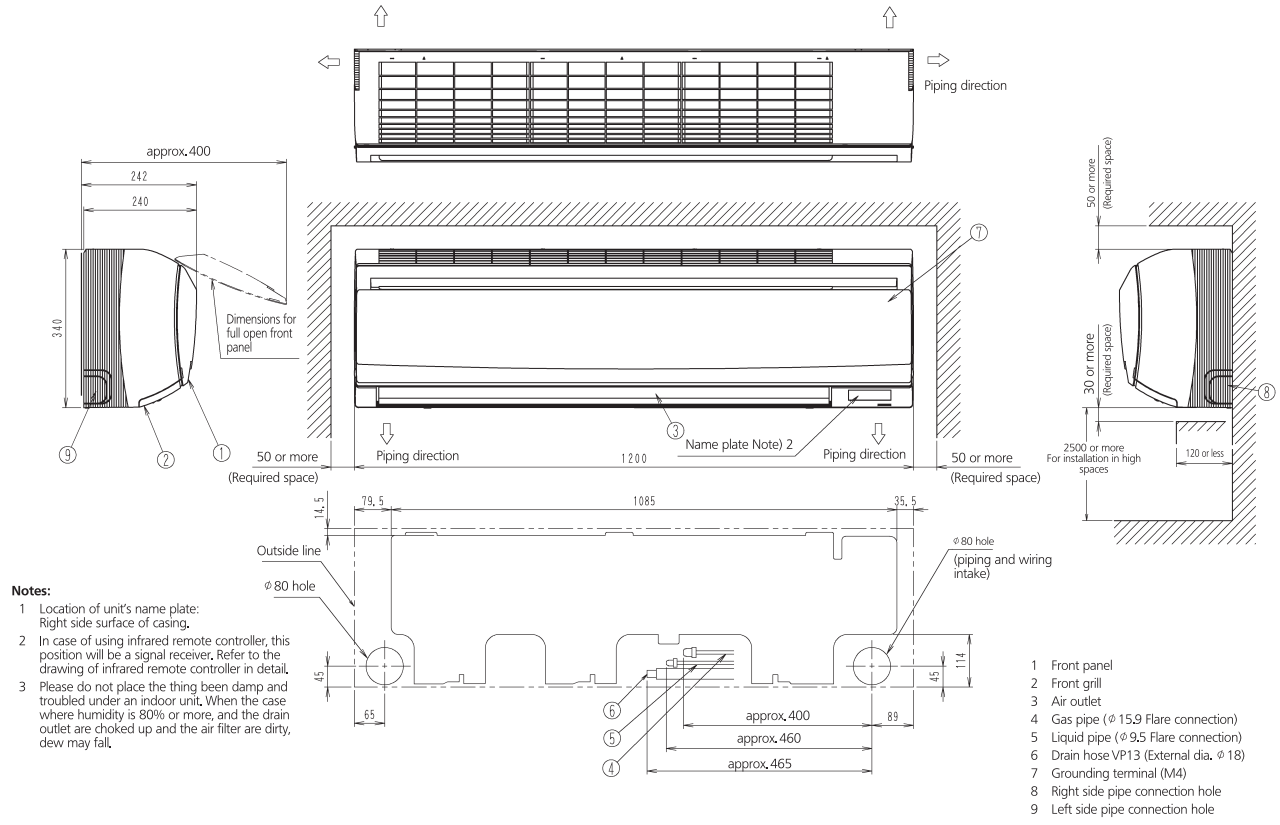
1. Location of unit's name plate: Right side surface of casing.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

1 Front panel
2 Front grill
3 Air outlet
4 Gas pipe (φ15.9 Flare connection)
5 Liquid pipe (φ9.5 Flare connection)
6 Drain hose VP13 (External dia. φ18)
7 Grounding terminal (M4)
8 Right side pipe connection hole
9 Left side pipe connection hole

Mounting location

3D073840A

FAQ100C



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1 Front panel
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6 Drain hose VP13 (External dia. φ18)
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8 Right side pipe connection hole
9 Left side pipe connection hole

Mounting location

3D073841A

FLOOR STANDING UNITS

FVXG 'NEXURA' - FLOOR STANDING UNIT

nexura

Floor standing unit with radiant heat panel

Stylish floor standing unit with radiant heat panel for comfortable heat and very low noise

- The aluminium part of the front panel of the Nexura indoor unit has the capability of warming up, just like a traditional radiator, to add even more comfort on cold days
- Quiet and discreet, Nexura offers you the best in heating and cooling, in comfort and design
- The indoor unit distributes air at the sound of a whisper. The noise produced amounts to barely 22dB(A) in cooling and 19dB(A) in radiant heat mode. In comparison, the ambient sound in a quiet room amounts to 40dB(A) on average
- Comfortable vertical auto swing ensures draughtfree operation and prevents ceiling soiling
- Online controller (optional): control your indoor from any location with an app, via your local network or internet
- Can be installed against a wall or recessed
- Its low height enables the unit to fit perfectly beneath a window
- Weekly timer can be set to start heating or cooling anytime on a daily or weekly basis

FVXG-K

RXG20-25-35L

ARC466A2

Indoor Units			FVXG25K	FVXG35K	FVXG50K
Capacity	UK Total Cooling	kW	2.44	3.42	4.81
	UK Sensible Cooling	kW	1.93	2.37	3.17
	Nominal Cooling	kW	2.50	3.50	5.00
	Nominal Heating	kW	3.40	4.50	5.80
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A+
	Pdesign	kW	2.50	3.50	5.00
	SEER		6.53	6.48	5.41
	Annual Energy Consumption	kWh	134	189	324
Seasonal Efficiency (EN14825) HEATING	Energy Label		A++	A+	A+
	Pdesign	kW	2.80	3.10	4.60
	SCOP		4.65	4.00	4.18
	Annual Energy Consumption	kWh	842	1087	1543
Nominal Efficiency	EER / COP		4.63 / 4.42	3.72 / 3.75	3.31 / 3.69
	Energy Label		A / A	A / A	A / A
	Annual Energy Consumption	kWh	270	470	755
Air Flow Rate (Cooling)	High / Nom / Low / Silent	m^3/sec	0.148 / 0.148 / 0.088 / 0.075	0.155 / 0.155 / 0.088 / 0.075	0.177 / 0.177 / 0.122 / 0.100
Dimensions	Height	mm	600	600	600
	Width	mm	950	950	950
	Depth	mm	215	215	215
Weight		kg	22	22	22
Sound Pressure (Cooling)	High / Nom / Low / Silent	dBA	38 / 32 / 26 / 23	39 / 33 / 27 / 24	44 / 40 / 36 / 32
Sound Power		dBA	52	52	58

Outdoor Units			RXG25L	RXG35L	RXG50L
Dimensions	Height x Width x Depth	mm	550 x 765 x 300		735 x 825 x 315
Weight		kg	35	35	48
Electrical Details	Power Supply		1ph		
	Running Current	A	2.68	4.64	6.04
	Starting Current	A	4.4	5.5	7.4
	Max Fuse Size	A	10	10	20
Interconnection Wiring	Core / Cable size		3+E / 1.5		3+E / 1.5
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)		1/4 (6.4) / 1/2 (12.7)
Pipework	Maximum Length	m	20	20	30
	Maximum Vertical Rise	m	15	15	20
	Precharged to	m	10	10	10
	Additional Charge	g/m	20		
	Holding Charge	kg	1.05	1.05	1.60
Sound Pressure (Cooling)	High / Silent Operation	dBA	46 / 43	48 / 44	48 / 44
Sound Power		dBA	61	63	63
Air Flow Rate (Cooling)	High	m^3/sec	0.575	0.616	0.830

ECA Eligible	•		

Floor standing unit

Floor standing unit for optimal heating comfort thanks to dual airflow

› Its low height enables the unit to fit perfectly beneath a window
› Can be installed against a wall or recessed
› Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
› Online controller (optional): control your indoor from any location with an app, via your local network or internet

Indoor Units			FVXS25F	FVXS35F	FVXS50F
Capacity	UK Total Cooling	kW	2.44	3.42	4.89
	UK Sensible Cooling	kW	1.87	2.34	3.21
	Nominal Cooling	kW	2.50	3.50	5.00
	Nominal Heating	kW	3.40	4.50	5.80
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+	A+	A+
	Pdesign	kW	2.50	3.50	5.00
	SEER		5.74	5.60	5.89
	Annual Energy Consumption	kWh	152	219	297
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A	A
	Pdesign	kW	2.60	2.90	4.20
	SCOP		4.56	3.93	3.80
	Annual Energy Consumption	kWh	798	1033	1546
Nominal Efficiency	EER / COP		4.12 / 4.42	3.30 / 3.78	3.23 / 3.63
	Energy Label		A / A	A / A	A / A
	Annual Energy Consumption	kWh	303	530	775
Air Flow Rate (Cooling)	High / Nom / Low / Silent	m^3/sec	0.137 / 0.137 / 0.080 / 0.068	0.142 / 0.142 / 0.082 / 0.075	0.178 / 0.178 / 0.130 / 0.110
Dimensions	Height	mm	600	600	600
	Width	mm	700	700	700
	Depth	mm	210	210	210
Weight		kg	14	14	14
Sound Pressure (Cooling)	High / Nom / Low / Silent	dBA	38 / 32 / 26 / 23	39 / 33 / 27 / 24	44 / 40 / 36 / 32
Sound Power	High	dBA	52	52	60

Outdoor Units			RXS25L3	RXS35L3	RXS50L
Dimensions	Height x Width x Depth	mm	550 x 765 x 285	550 x 765 x 285	735 x 825 x 300
Weight		kg	34	34	47
Electrical Details	Power Supply		1ph		
	Running Current	A	3.30	4.70	6.80
	Starting Current	A	3.3	4.3	6.8
	Max Fuse Size	A	10	10	20
Interconnection Wiring	Core / Cable size		3+E / 1.5		3+E / 1.5
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)		1/4 (6.4) / 1/2 (12.7)
Pipework	Maximum Length	m	20	20	30
	Maximum Vertical Rise	m	15	15	20
	Precharged to	m	10	10	10
	Additional Charge	g/m	20		
	Holding Charge	kg	1.0	1.2	1.7
Sound Pressure (Cooling)	High / Silent Operation	dBA	46 / 43	48 / 44	48 / 44
Sound Power	High	dBA	59	61	62
Air Flow Rate (Cooling)	High	m^3/sec	0.558	0.600	0.848

Flexi type unit

Flexible unit, ideal for rooms without false ceiling, can fit on either ceiling or wall

- Can fit on either ceiling or lower wall; its low height enables the unit to fit beneath a window
- Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy
- Online controller (optional): control your indoor from any location with an app, via your local network or internet

FLXS-B(9)

RXS25-35L3

ARC433B67

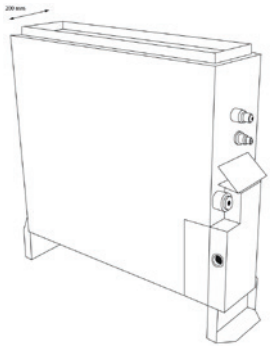
Indoor Units			FLXS25B	FLXS35B9	FLXS50B
Capacity	UK Total Cooling	kW	2.44	3.34	4.82
	UK Sensible Cooling	kW	1.65	2.14	3.16
	Nominal Cooling	kW	2.50	3.50	4.90
	Nominal Heating	kW	3.40	4.00	6.10
Seasonal Efficiency (EN14825) COOLING	Energy Label		A	B	A
	Pdesign	kW	2.50	3.50	4.90
	SEER		5.19	4.87	5.25
	Annual Energy Consumption	kWh	169	252	326
Seasonal Efficiency (EN14825) HEATING	Energy Label		A	A	A
	Pdesign	kW	2.50	2.90	4.20
	SCOP		3.80	3.80	3.80
	Annual Energy Consumption	kWh	921	1068	1546
Nominal Efficiency	EER / COP		3.85 / 3.54	2.88 / 3.57	2.85 / 3.35
	Energy Label		A / B	B / B	C / C
	Annual Energy Consumption	kWh	325	608	860
Air Flow Rate (Cooling)	High / Nom / Low / Silent	m^3/sec	0.127 / 0.127 / 0.100 / 0.087	0.143 / 0.127 / 0.110 / 0.093	0.190 / 0.190 / 0.142 / 0.125
Dimensions	Height	mm	490	490	490
	Width	mm	1050	1050	1050
	Depth	mm	200	200	200
Weight		kg	16	16	17
Sound Pressure (Cooling)	High / Nom / Low / Silent	dBA	37 / 34 / 31 / 28	38 / 35 / 32 / 29	47 / 43 / 39 / 36
Sound Power		dBA	51	53	60

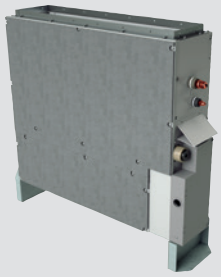
Outdoor Units			RXS25L3	RXS35L3	RXS50L
Dimensions	Height x Width x Depth	mm	550 x 765 x 285	550 x 765 x 285	735 x 825 x 300
Weight		kg	34	34	47
Electrical Details	Power Supply		1ph		
	Running Current	A	3.60	5.10	7.60
	Starting Current	A	3.3	4.3	6.8
	Max Fuse Size	A	10	10	20
Interconnection Wiring	Core / Cable size		3+E / 1.5		3+E / 1.5
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)		1/4 (6.4) / 1/2 (12.7)
Pipework	Maximum Length	m	20	20	30
	Maximum Vertical Rise	m	15	15	20
	Precharged to	m	10	10	10
	Additional Charge	g/m	20		
	Holding Charge	kg	1.0	1.2	1.7
Sound Pressure (Cooling)	High / Silent Operation	dBA	46 / 43	48 / 44	48 / 44
Sound Power		dBA	59	61	62
Air Flow Rate (Cooling)	High	m^3/sec	0.558	0.600	0.848

Concealed floor standing unit

Designed to be concealed in walls

› Ideal for installation in offices, hotels and residential applications
› Discreetly concealed in the ceiling: only the suction and discharge grilles are visible
› Its low height (620 mm) enables the unit to fit perfectly beneath a window
› Requires very little installation space as the depth is only 200 mm
› High ESP allows flexible installation





FNQ-A

RXS35L3

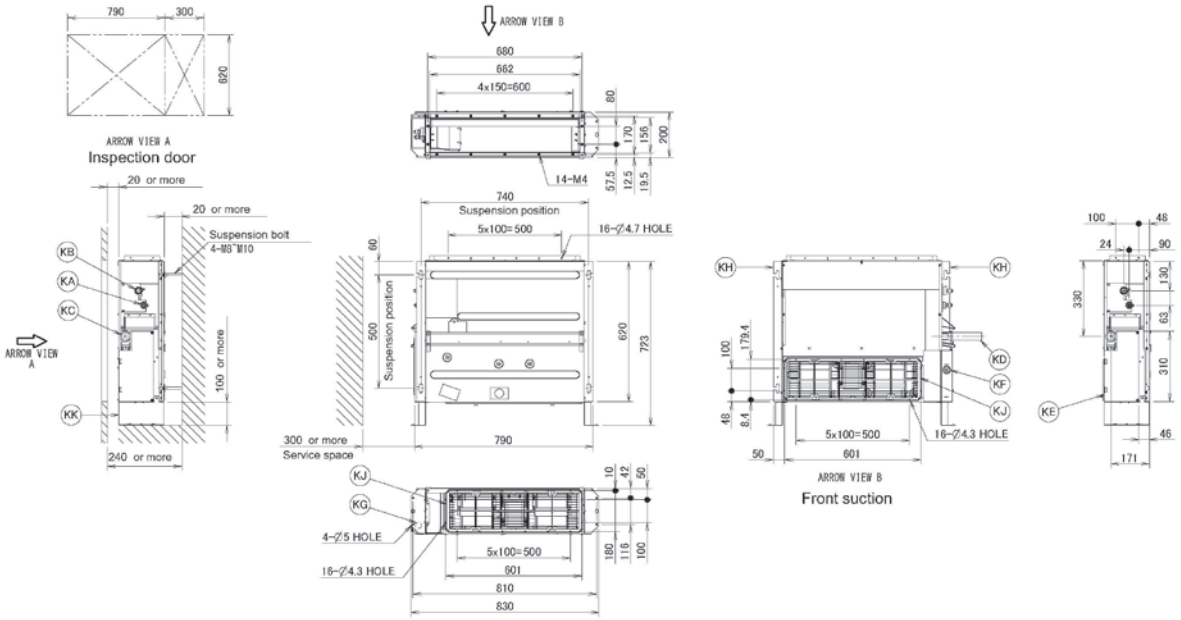
BRC1E52A-B, BRC4C65

Indoor Units			Vertical Ducted			
			FNQ25A	FNQ35A	FNQ50A	FNQ60A
Capacity	UK Total Cooling	kW	2.54	3.32	4.89	5.86
	UK Sensible Cooling	kW	1.89	2.26	3.66	4.11
	Nominal Cooling	kW	2.40	3.40	5.00	6.00
	Nominal Heating	kW	3.20	4.00	5.80	7.00
Seasonal Efficiency (EN14825 COOLING	Energy Label		A+	A+	A+	A
	Pdesign	kW	2.60	3.40	5.00	6.00
	SEER		5.63	5.65	5.72	5.51
	Annual Energy Consumption	kWh	162	211	306	381
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A+	A+
	Pdesign	kW	2.80	2.90	4.00	4.60
	SCOP		4.24	4.05	4.09	4.16
	Annual Energy Consumption	kWh	925	1002	1369	1548
Nominal Efficiency	EER / COP		3.77 / 4.00	3.06 / 3.48	3.35 / 3.34	2.68 / 3.11
	Energy Label		A / A	B / B	A / C	D / D
	Annual Energy Consumption	kWh	345	556	746	1119
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.145 / 0.133 / 0.122	0.145 / 0.133 / 0.122	0.267 / 0.247 / 0.225	0.225 / 0.247 / 0.025
External Static Pressure	High / Nominal	Pa	48 / 30		49 / 40	
Dimensions	Height (with legs)	mm	620 (720)		620 (720)	
	Width	mm	750		1150	
	Depth	mm	200		200	
Weight		kg	23		30	
Sound Pressure (Cooling)	High / Nom / Low	dBA	33 / 31 / 28		36 / 33 / 30	
Sound Power		dBA	53		56	

Outdoor Units			RXS25L3	RXS35L3	RXS50L	RXS60L
Dimensions	Height x Width x Depth	mm	550 x 765 x 285	550 x 765 x 285	735 x 825 x 300	735 x 825 x 300
Weight		kg	34	34	47	48
Electrical Details	Power Supply		1ph			
	Running Current	A	2.90	4.70	6.30	9.40
	Starting Current	A	3.3	4.3	6.8	10.2
	Max Fuse Size	A	10	10	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5		3+E / 1.5	
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)		1/4 (6.4) / 1/2 (12.7)	
Pipework	Maximum Length	m	20	20	30	30
	Maximum Vertical Rise	m	15	15	20	20
	Precharged to	m	10	10	10	10
	Additional Charge	g/m	20			
	Holding Charge	kg	1.0	1.2	1.7	1.5
Sound Pressure (Cooling)	High / Silent Operation	dBA	46 / 43	48 / 44	48 / 44	49 / 46
Sound Power		dBA	59	61	61	62
Air Flow Rate (Cooling)	High	m^3/sec	0.558	0.600	0.848	0.836

Detailed technical drawings

FNQ25-35A



Item	Name	Description
KA	Liquid pipe connection port	Ø6.40 flared connection
KB	Gas pipe connection port	Ø9.50 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
KK	Mounting foot	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

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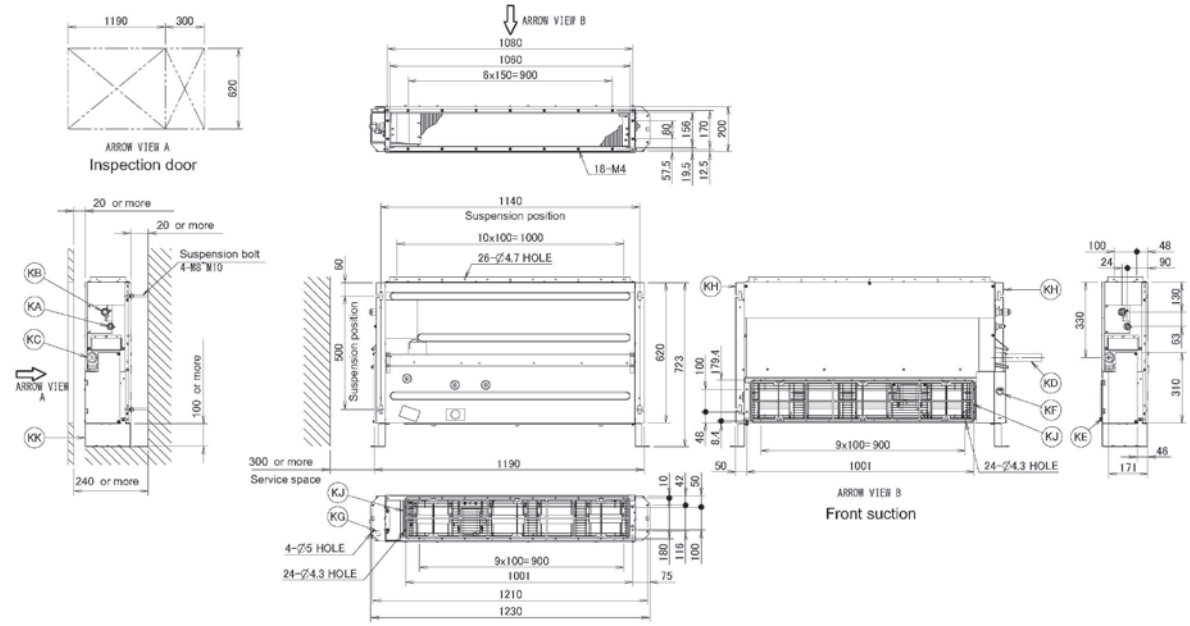
Detailed technical drawings

FNQ50-60A



Item	Name	Description
KA	Liquid pipe connection port	Ø6.4 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Drain hose	ID Ø25
KE	Control box	/
KF	Transmission line	/
KG	Power supply connection	/
KH	Suspension bracket	/
KJ	Air filter	/
KK	Mounting foot	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

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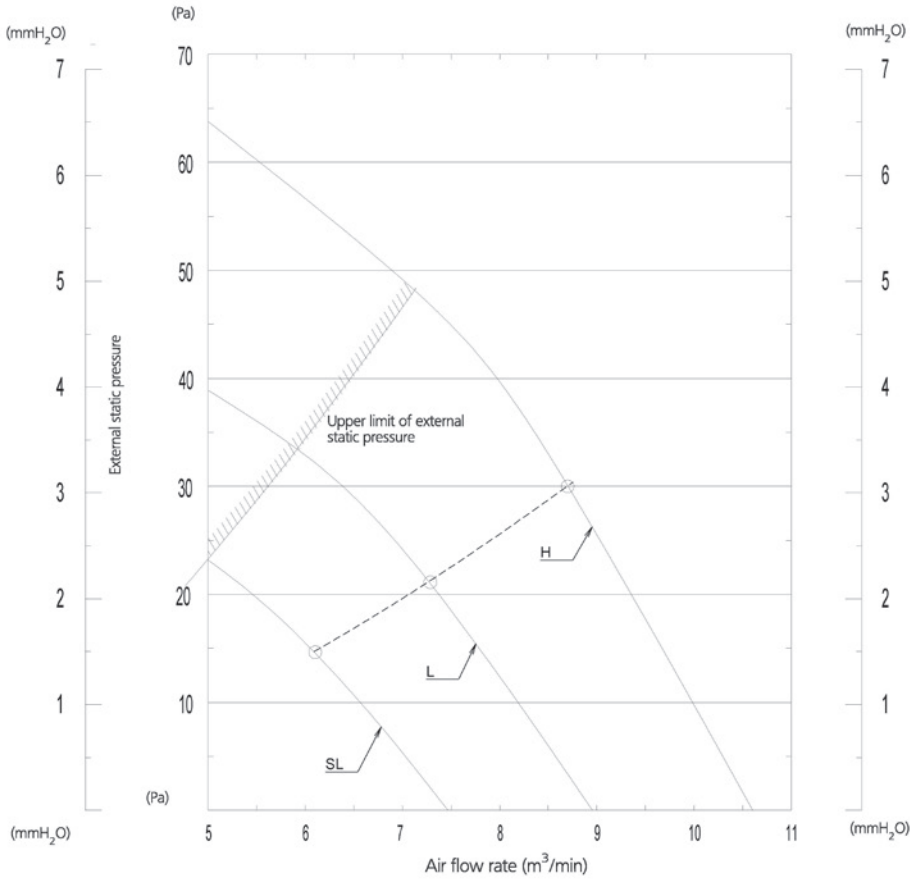

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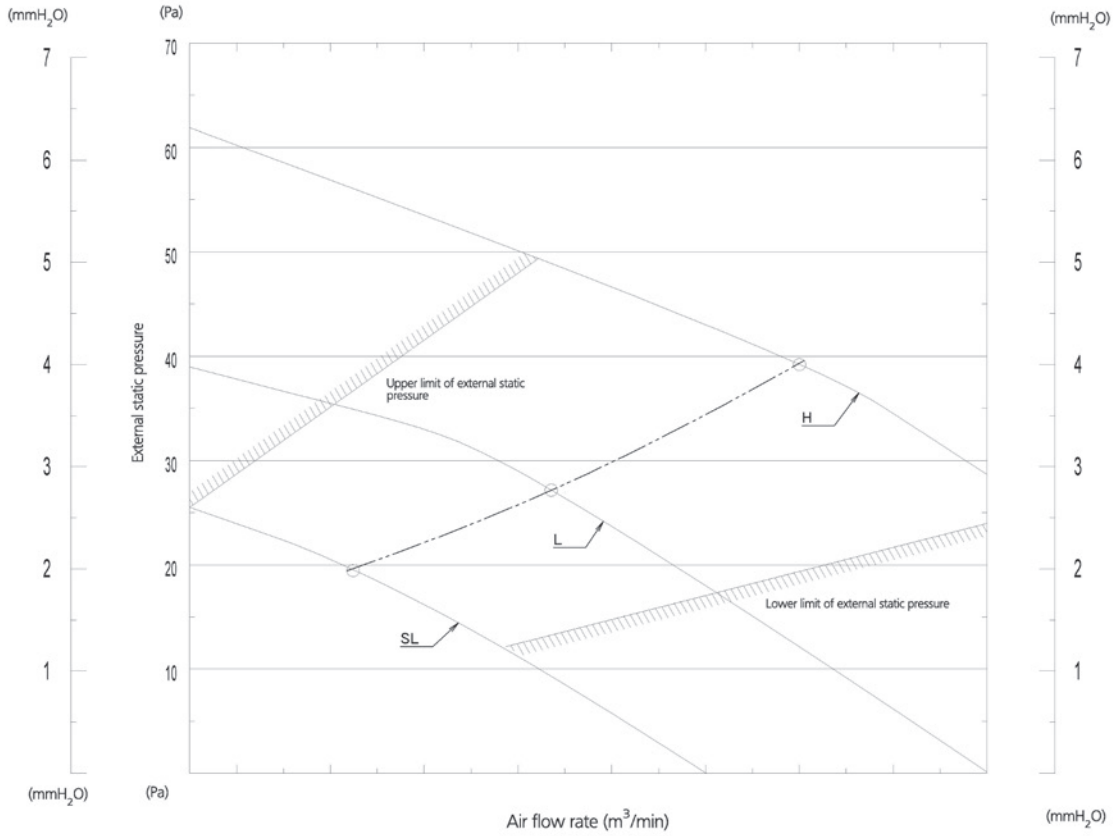

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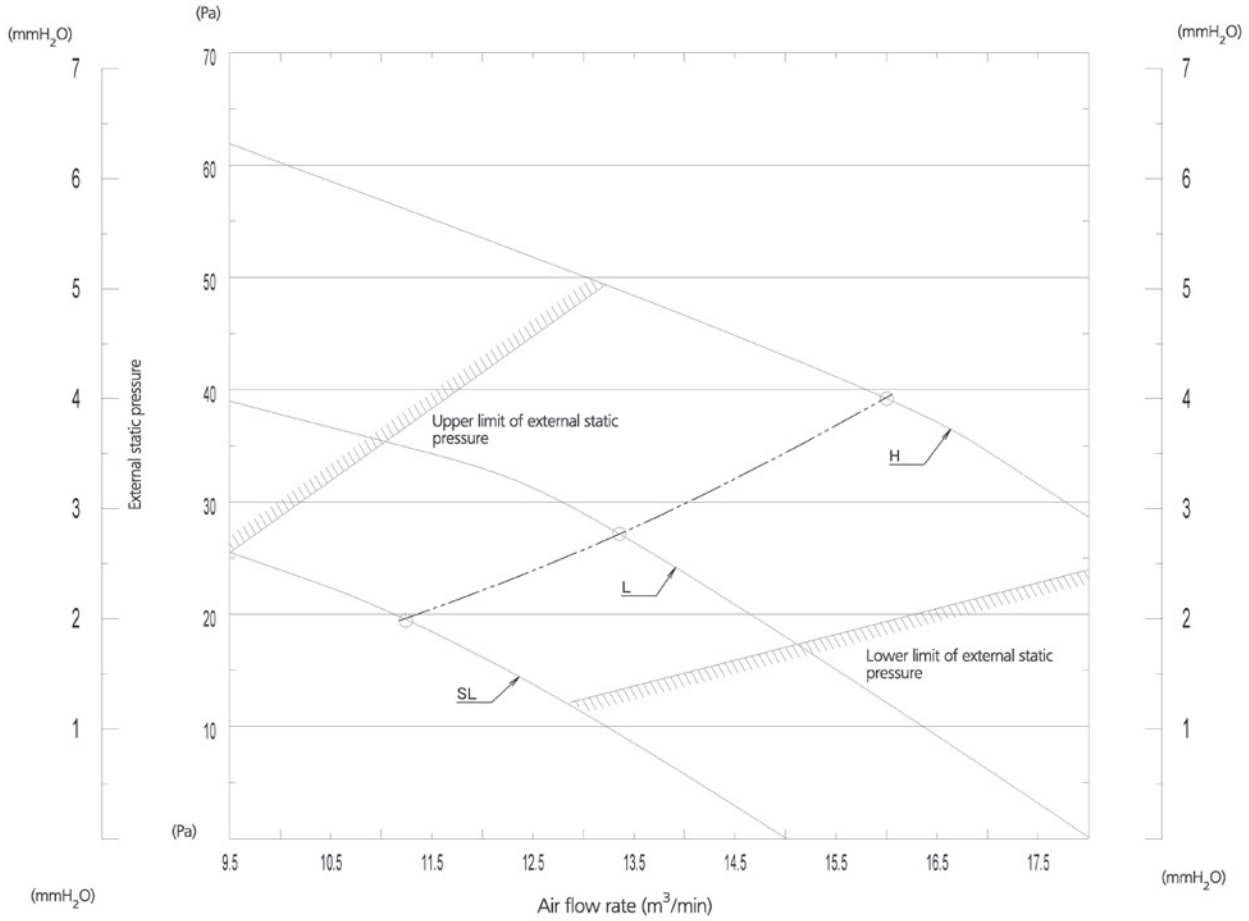

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Seasonal Smart

Floor standing unit

For commercial spaces with high ceilings

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FVQ71C

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B

Indoor Units			Single Phase				3 Phase			
			FVQ71C	FVQ100C	FVQ125C	FVQ140C	FVQ71C	FVQ100C	FVQ125C	FVQ140C
Capacity	UK Total Cooling	kW	7.76	10.80	13.60	14.90	7.76	10.80	13.60	14.90
	UK Sensible Cooling	kW	5.32	7.44	9.30	10.25	5.32	7.44	9.30	10.25
	Nominal Cooling	kW	6.80	9.50	12.00	13.40	6.80	9.50	12.00	13.40
	Nominal Heating	kW	7.50	10.80	13.50	15.50	7.50	10.80	13.50	15.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A+	A+	-	A++	A+	A+	-
	Pdesign	kW	6.80	9.50	12.00	-	6.80	9.50	12.00	-
	SEER		6.31	5.61	5.61	-	6.31	5.61	5.61	-
	Annual Energy Consumption	kWh	378	593	749	-	378	593	749	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A	-	A+	A+	A	-
	Pdesign	kW	6.33	11.30	11.30	-	6.33	11.30	11.30	-
	SCOP		4.05	4.20	3.87	-	4.05	4.20	3.87	-
	Annual Energy Consumption	kWh	2189	3767	4088	-	2189	3767	4088	-
Nominal Efficiency	EER / COP		3.37 / 3.64	3.81 / 4.14	3.21 / 3.7	3.21 / 3.61	3.37 / 3.64	3.81 / 4.14	3.21 / 3.7	3.21 / 3.61
	Energy Label		A / A	A / A	A / A	A / A	A / A	A / A	A / A	A / A
	Annual Energy Consumption	kWh	1010	1245	1870	2085	1010	1245	1870	2085
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.300 / 0.267 / 0.233	0.467 / 0.417 / 0.367	0.467 / 0.433 / 0.400	0.500 / 0.467 / 0.433	0.300 / 0.267 / 0.233	0.467 / 0.417 / 0.367	0.467 / 0.433 / 0.400	0.500 / 0.467 / 0.433
Dimensions	Height	mm	1850	1850	1850	1850	1850	1850	1850	1850
	Width	mm	600	600	600	600	600	600	600	600
	Depth	mm	270	350	350	350	270	350	350	350
Weight		kg	39	47	47	47	39	47	47	47
Sound Pressure (Cooling)	High / Nom / Low	dBA	43 / 41 / 38	50 / 47 / 44	51 / 48 / 46	53 / 51 / 48	43 / 41 / 38	50 / 47 / 44	51 / 48 / 46	53 / 51 / 48
Sound Power		dBA	55	62	63	65	55	62	63	65

Outdoor Units			RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1	RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320	990 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320
Weight		kg	69	95	95	95	80	101	101	101
Electrical Details	Power Supply		1ph				3ph			
	Running Current	A	8.26	10.18	15.29	17.04	3.11	3.83	5.75	6.41
	Starting Current	A	4	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	16	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5			
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)			
Pipework	Maximum Length	m	50	75	75	75	50	75	75	75
	Maximum Vertical Rise	m	30	30	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual			
	Holding Charge	kg	2.9	4.0	4.0	4.0	2.9	4.0	4.0	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	48 / 43	50 / 45	51 / 45	52 / 45	48 / 43	50 / 45	51 / 45	52 / 45
Sound Power		dBA	64	66	67	69	64	66	67	69
Air Flow Rate (Cooling)	Nominal	m^3/sec	0.983	1.166	1.166	1.400	0.983	1.166	1.166	1.400
ECA Eligible			●				●			

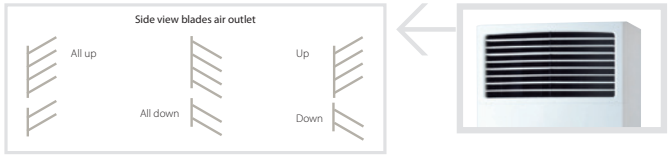
Seasonal Classic

Floor standing unit

For commercial spaces with high ceilings

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

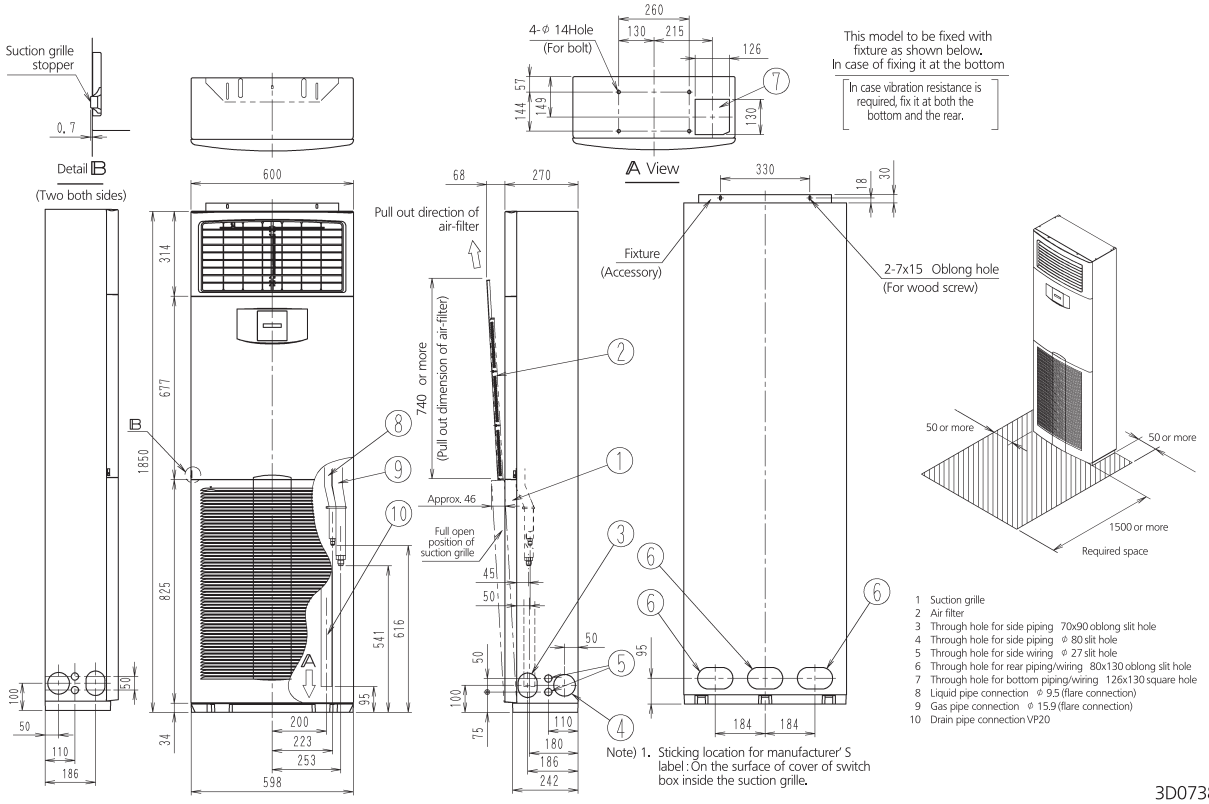
- Ideal solution for commercial and busy environments
- Decrease of temperature variation by automatic fan speed selection or freely selectable 3-step fan speed
- Improved comfort as a result of better airflow distribution from the vertical out blow which allows manual adjustment of air outlet blades at the top of the unit
- Selectable horizontal out blow to better suit the layout of the room (via wired remote controller BRC1E52)
- No optional adapter needed for DIII-connection, link your unit into the wider building management system



Indoor Units			Single Phase				3 Phase		
			FVQ71C	FVQ100C	FVQ125C	FVQ140C	FVQ100C	FVQ125C	FVQ140C
Capacity	UK Total Cooling	kW	7.28	10.80	13.60	14.90	10.80	13.60	14.90
	UK Sensible Cooling	kW	4.99	7.44	9.30	10.25	7.44	9.30	10.25
	Nominal Cooling	kW	6.80	9.50	12.00	13.40	9.50	12.00	13.40
	Nominal Heating	kW	7.50	10.80	13.50	15.50	10.80	13.50	15.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A	A	A	-	A	A	-
	Pdesign	kW	6.80	9.50	12.00	-	9.50	12.00	-
	SEER		5.50	5.50	5.50	-	5.50	5.50	-
	Annual Energy Consumption	kWh	433	605	764	-	605	764	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		A	A+	A	-	A+	A	-
	Pdesign	kW	6.33	7.60	7.60	-	7.60	7.60	-
	SCOP		3.86	4.01	3.85	-	4.01	3.85	-
	Annual Energy Consumption	kWh	2296	2654	2764	-	2654	2764	-
Nominal Efficiency	EER / COP		3.21 / 3.61	3.21 / 3.61	2.81 / 3.41	3.01 / 3.41	3.21 / 3.61	2.81 / 3.41	3.01 / 3.41
	Energy Label		A / A	A / A	C / B	B / B	A / A	C / B	B / B
	Annual Energy Consumption	kWh	1059	1480	2135	2225	1480	2135	2225
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.300 / 0.267 / 0.233	0.467 / 0.417 / 0.367	0.467 / 0.433 / 0.400	0.500 / 0.467 / 0.433	0.467 / 0.417 / 0.367	0.467 / 0.433 / 0.400	0.500 / 0.467 / 0.433
Dimensions	Height	mm	1850	1850	1850	1850	1850	1850	1850
	Width	mm	600	600	600	600	600	600	600
	Depth	mm	270	350	350	350	350	350	350
Weight		kg	39	47	47	47	47	47	47
Sound Pressure (Cooling)	High / Nom / Low	dBA	43 / 41 / 38	50 / 47 / 44	51 / 48 / 46	53 / 51 / 48	50 / 47 / 44	51 / 48 / 46	53 / 51 / 48
Sound Power		dBA	55	62	60	63	59	60	63

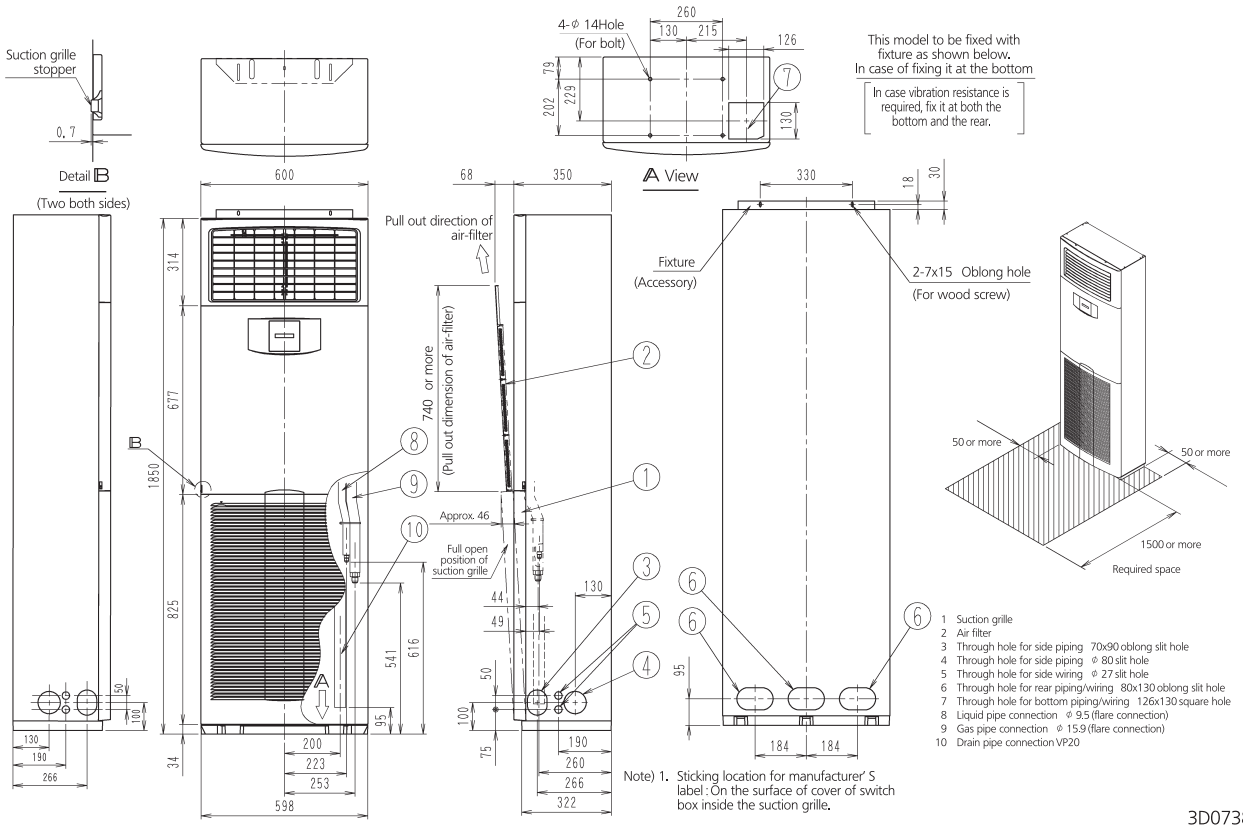
Outdoor Units			RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Dimensions	Height x Width x Depth	mm	770 x 900 x 320	990 x 940 x 320		1430 x 940 x 320	990 x 940 x 320		1430 x 940 x 320
Weight		kg	72	74		104	82		101
Electrical Details	Power Supply		1ph				3ph		
	Running Current	A	8.66	12.10	17.45	18.19	4.55	6.56	6.84
	Starting Current	A	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)		
Pipework	Maximum Length	m	50	50	50	50	50	50	50
	Maximum Vertical Rise	m	15	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual		
	Holding Charge	kg	2.75	2.9	2.9	4.0	2.9	2.9	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	49 / 49	53 / 49	54 / 49	53 / 49	53 / 49	54 / 49	53 / 49
Sound Power		dBA	65	70	70	69	70	70	69
Air Flow Rate (Cooling)	High	m^3/sec	0.833	1.266	1.283	1.383	1.266	1.283	1.383

FVQ71C



3D073846A

FVQ100-125-140C



3D073847

CASSETTE AND UNDER CEILING UNITS

UNIQUE 4-WAY BLOW CEILING SUSPENDED UNIT

FCQG-F/FCQHG-F/FXFQ-A/FXAHG-F

Auto cleaning cassette

More energy efficient and user-friendly than any other

- Running costs are reduced by 50% compared with standard solutions thanks to automatic daily filter cleaning
- Less time is required to maintain the filter: dust can be removed easily with a vacuum cleaner without opening the unit
- For fine dust applications (i.e. clothing shops) a finer mesh filter (BYCQ140DGF) ensures consistent, performance, optimum air distribution and clean ceilings

BYCQ140DG	BYCQ140DGF
Auto-cleaning panel	auto-cleaning panel with fine mesh filter
White with grey louvers	White with grey louvers

Self-cleaning cassette for maintaining the optimum store atmosphere

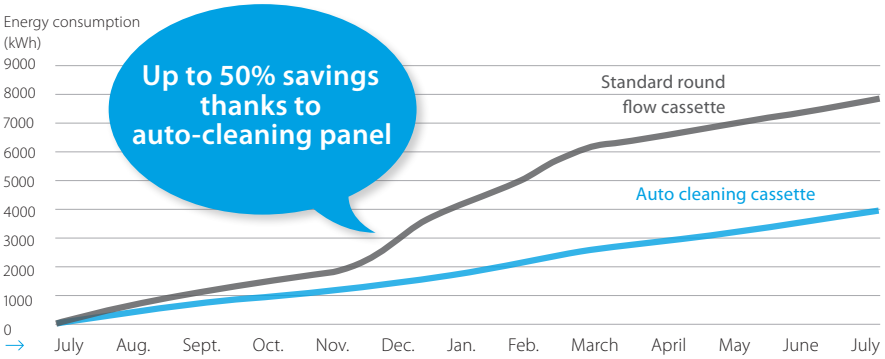
Air distribution with a clean filter

Air distribution with a dusty filter

Dust can be removed easily with a vacuum cleaner without opening the unit.

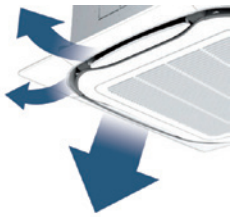
References

Wolverhampton, UK
Running costs were reduced by up to 50% compared with standard solutions thanks to daily filter cleaning.



Why choose an auto cleaning cassette?

- 360° air discharge for optimum comfort
- Unique auto-cleaning panel
- Intelligent sensors

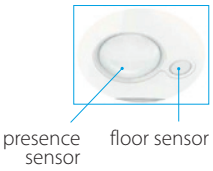


360° air discharge for improved comfort

› 360° air flow discharge pattern

Intelligent sensors improve efficiency and comfort even more

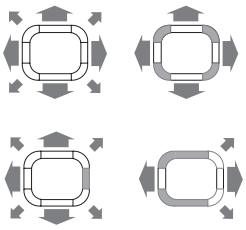
› The presence sensor adjusts the set point if no one is detected in the room leading to up to 27% savings. It also automatically directs air flow away from any person to avoid draught

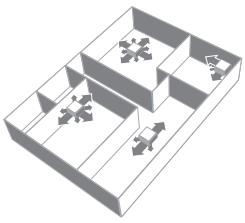


› The infrared floor sensor detects the average floor temperature and ensures even temperature distribution between ceiling and floor to prevent cold feet

Flexible installation

› Flaps can be individually controlled or closed using the wired remote control, to suit room configuration. Optional closure kits are also available





Benefits for the installer

› Product with unique functions in this market
› Less time needed for onsite maintenance
› Use the controller to individually open or close any of the four flaps to easily adapt to a changing room layout
› Easy set-up of the sensor option to improve comfort and save energy

Benefits for the consultant

› Product with unique functions in this market
› Designed for use in all types and sizes of commercial offices and retail environments
› Ideal product for improving BREEAM score/EPBD in combination with Sky Air Seasonal Smart or VRV IV heat pump units

Benefits for the end user

› Designed for use in all types and sizes of commercial offices and retail environments
› Perfect environment conditions: no more draughts or cold feet
› Save up to 50% on running costs with the auto-cleaning panel, which also facilitates maintenance
› Your customers can save up to 27% on their energy bills thanks to the sensor option
› Flexible use of space thanks to individual flap control

Marketing tools

› Visit the website: www.daikin.co.uk/roundflow-cassette

High COP, round flow cassette

360° air discharge for optimum efficiency and comfort

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FCQHG71-100-125-140F

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B, BRC7FA532F

Indoor Units			Single Phase				3 Phase			
			FCQHG71F	FCQHG100F	FCQHG125F	FCQHG140F	FCQHG71F	FCQHG100F	FCQHG125F	FCQHG140F
Capacity	UK Total Cooling	kW	7.76	10.80	13.60	14.90	7.76	10.80	13.60	14.90
	UK Sensible Cooling	kW	5.32	7.44	9.30	10.25	5.32	7.44	9.30	10.25
	Nominal Cooling	kW	6.80	9.50	12.00	13.40	6.80	9.50	12.00	13.40
	Nominal Heating	kW	7.50	10.80	13.50	15.50	7.50	10.80	13.50	15.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A++	-	A++	A++	A++	-
	Pdesign	kW	6.80	9.50	12.00	-	6.80	9.50	12.00	-
	SEER		7.00	7.00	6.61	-	7.00	7.00	6.61	-
	Annual Energy Consumption	kWh	340	475	636	-	340	475	636	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A++	A++	-	A+	A++	A++	-
	Pdesign	kW	7.60	11.30	12.66	-	7.60	11.30	12.66	-
	SCOP		4.54	4.80	4.63	-	4.54	4.80	4.63	-
	Annual Energy Consumption	kWh	2344	3296	3829	-	2344	3296	3829	-
Nominal Efficiency	EER / COP		4.09 / 4.8	4.42 / 4.99	4 / 4.4	3.35 / 4.12	4.09 / 4.8	4.42 / 4.99	4 / 4.4	3.35 / 4.14
	Energy Label		A / A	A / A	A / A	A / A	A / A	A / A	A / A	A / A
	Annual Energy Consumption	kWh	830	1075	1500	2000	830	1075	1500	2000
Air Flow Rate (Cooling)	High / Nom / Low	m³/sec	0.353 / 0.270 / 0.203	0.538 / 0.428 / 0.317	0.558 / 0.445 / 0.332	0.558 / 0.455 / 0.352	0.353 / 0.270 / 0.203	0.538 / 0.428 / 0.317	0.558 / 0.445 / 0.332	0.558 / 0.455 / 0.352
Dimensions (with Decoration Panel)	Height	mm	288(348)	288 (348)	288 (348)	288 (348)	288(348)	288 (348)	288 (348)	288 (348)
	Width	mm	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
	Depth	mm	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
Weight (with Decoration Panel)		kg	25 (30.4)	26 (31.4)	26 (31.4)	26 (31.4)	25 (30.4)	26 (31.4)	26 (31.4)	26 (31.4)
Sound Pressure (Cooling)	High / Nom / Low	dBA	36 / 33 / 29	44 / 39 / 33	45 / 40 / 35	45 / 41 / 37	36 / 33 / 29	44 / 39 / 33	45 / 40 / 35	45 / 41 / 37
Sound Power		dBA	53	61	61	61	53	61	61	61

Outdoor Units			RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1	RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320			990 x 940 x 320	1430 x 940 x 320		
Weight		kg	69	95			80	101		
Electrical Details	Power Supply		1ph				3ph			
	Running Current	A	6.78	8.79	12.26	16.35	2.55	3.31	4.61	6.15
	Starting Current	A	4	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	16	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5			
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)			
Pipework	Maximum Length	m	50	75	75	75	50	75	75	75
	Maximum Vertical Rise	m	30	30	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual			
	Holding Charge	kg	2.9	4.0	4.0	4.0	2.9	4.0	4.0	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	48 / 43	50 / 45	51 / 45	52 / 45	48 / 43	50 / 45	51 / 45	52 / 45
Sound Power		dBA	64	66	67	69	64	66	67	69
Air Flow Rate (Cooling)	Nom	m³/sec	0.983	1.166	1.166	1.400	0.983	1.166	1.166	1.400
ECA Eligible			●	●	●	●	●	●	●	●

Round flow cassette

360° air discharge for optimum efficiency and comfort

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FCQG100-125-140F

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B, BRC7FA532F

Efficiency data				FCQG + RZQG	71F + 71L9V1	100F + 100L9V1	125F + 125L9V1	140F + 140L9V1	71F + 71L8Y1	100F + 100L8Y1	125F + 125L8Y1	140F + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	6.8	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.01	2.45	3.22	-	2.01	2.45	3.22	4.17
	Heating	Nom.		kW	1.89	2.60	3.72	-	1.89	2.60	3.72	4.30
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A+	-	A++		A+	-
		Pdesign		kW	6.80	9.50	12.00	-	6.8	9.5	12	-
		SEER			6.80		6.00	-	6.8		6	-
		Annual energy consumption		kWh	350	489	700	-	350	489	700	-
	Heating (Average climate)	Energy label			A+	A++	A+	-	A+	A++	A+	-
		Pdesign		kW	6.33	11.30	12.66	-	6.33	11.3	12.66	-
		SCOP			4.20	4.61	4.10	-	4.2	4.61	4.1	-
		Annual energy consumption		kWh	2,110	3,432	4,323	-	2,110	3,432	4,323	-
Nominal efficiency	EER				3.39	3.87	3.73	3.21	3.39	3.87	3.73	3.21
	COP				3.97	4.15	3.63	3.61	3.97	4.15	3.63	3.61
	Annual energy consumption			kWh	1,005	1,225	1,610	-	1,005	1,225	1,610	-
	Energy label	Cooling/Heating			A/A			-	A/A			-

Indoor unit				FCQG	71F	100F	125F	140F	71F	100F	125F	140F
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840	246x840x840			204x840x840	246x840x840		
Weight	Unit			kg	21	24			21	24		
Decoration panel	Model				BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter / BYCQ140D7GW1 - auto cleaning panel / BYCQ140D7W1W - full white / BYCQ140D7W1 - white with grey louvers							
	Colour				Pure White (RAL 9010)							
	Dimensions	HeightxWidthxDepth		mm	130x950x950 / 130x950x950 / 50x950x950							
	Weight			kg	10.3 / 10.3 / 5.4 / 5.4							
Air filter	Type				Resin net with mold resistance							
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4		15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4	
	Heating	High/Nom./Low		m^3/min	15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4		15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4	
Sound power level	Cooling			dBA	51	54	58		51	54	58	
	Heating			dBA	51	54	58		51	54	58	
Sound pressure level	Cooling	High/Nom./Low		dBA	33/31/28	37/33/29	41/35/29		33/31/28	37/33/29	41/35/29	
	Heating	High/Nom./Low		dBA	33/31/28	37/33/29	41/35/29		33/31/28	37/33/29	41/35/29	
Control systems	Infrared remote control				BRC7FA532F							
	Wired remote control				BRC1D52 / BRC1E52A/B							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240							

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	69	95			80	101		
Sound power level	Cooling			dBA	64	66	67	69	64	66	67	69
Sound pressure level	Cooling	Nom.		dBA	48	50	51	52	48	50	51	52
	Heating	Nom.		dBA	50	52	53		50	52	53	
	Night quiet mode	Level 1		dBA	43	45			43	45		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50							
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5							
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5			R-410A/2.9/6.1/2,087.5	R-410A/4.0/8.4/2,087.5		
Piping connections	Liquid	OD		mm	9.52							
	Gas	OD		mm	15.9							
	Piping length	OU - IU	Max.	m	50	75			50	75		
		System	Equivalent	m	70	90			70	90		
			Chargeless	m	30							
	Additional refrigerant charge			kg/m	See installation manual							
	Level difference	IU - OU	Max.	m	30.0							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20	32			20	32		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing. (3) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt.

ROUND FLOW

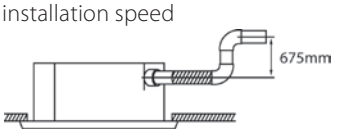
Seasonal Classic

Round flow cassette

360° air discharge for optimum efficiency and comfort

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- The round flow cassette provides a more comfortable environment and offers greater savings in energy consumption to shop, office and restaurant owners
- Lowest installation height in the market: 204mm for class 71
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Modern style decoration panel is available in 3 different variations: white (RAL9010) with grey louvers, full white (RAL9010) or auto-cleaning panel
- Daily automatic filter cleaning results in higher efficiency, comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine-dust applications, e.g. clothing shops)
- Two optional intelligent sensors improve energy efficiency and comfort
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Branch duct discharge allows to optimise air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Standard drain pump with 675mm lift increases flexibility and installation speed



Indoor Units			Single Phase				3 Phase		
			FCQG71F	FCQG100F	FCQG125F	FCQG140F	FCQG100F	FCQG125F	FCQG140F
Capacity	UK Total Cooling	kW	7.28	10.80	13.60	14.90	10.80	13.60	14.90
	UK Sensible Cooling	kW	4.99	7.44	9.30	10.25	7.44	9.30	10.25
	Nominal Cooling	kW	6.80	9.50	12.00	13.40	9.50	12.00	13.40
	Nominal Heating	kW	7.50	10.80	13.50	15.50	10.80	13.50	15.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A	-	A++	A	-
	Pdesign	kW	6.80	9.50	12.00	-	9.50	12.00	-
	SEER		6.10	6.50	5.30	-	6.50	5.30	-
	Annual Energy Consumption	kWh	390	512	793	-	512	793	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A+	-	A+	A+	-
	Pdesign	kW	6.33	7.60	8.03	-	7.60	8.03	-
	SCOP		4.10	4.10	4.01	-	4.10	4.01	-
	Annual Energy Consumption	kWh	2162	2596	2804	-	2596	2804	-
Nominal Efficiency	EER / COP		3.21 / 3.61	3.3 / 3.54	3.21 / 3.41	3.01 / 3.41	3.3 / 3.54	3.21 / 3.41	3.01 / 3.41
	Energy Label		A / A	A / B	A / B	B / B	A / B	A / B	B / B
	Annual Energy Consumption	kWh	1060	1440	1870	2225	1440	1870	2225
Air Flow Rate (Cooling)	High / Nom / Low	m³/sec	0.250 / 0.202 / 0.152	0.380 / 0.293 / 0.207	0.433 / 0.320 / 0.207	0.267 / 0.320 / 0.207	0.380 / 0.293 / 0.207	0.433 / 0.320 / 0.207	0.267 / 0.320 / 0.207
Dimensions (with Decoration Panel)	Height	mm	204 (264)	246 (306)	246 (306)	246 (306)	246 (306)	246 (306)	246 (306)
	Width	mm	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
	Depth	mm	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)	840 (950)
Weight (with Decoration Panel)		kg	21 (26.4)	24 (29.4)	24 (29.4)	24 (29.4)	24 (29.4)	24 (29.4)	24 (29.4)
Sound Pressure (Cooling)	High / Nom / Low	dBA	33 / 31 / 28	37 / 33 / 29	41 / 35 / 29	41 / 35 / 29	37 / 33 / 29	41 / 35 / 29	41 / 35 / 29
Sound Power		dBA	51	54	58	58	54	58	58

Outdoor Units			RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Dimensions	Height x Width x Depth	mm	770 x 900 x 320	990 x 940 x 320		1430 x 940 x 320	990 x 940 x 320		1430 x 940 x 320
Weight		kg	72	75		95	82		101
Electrical Details	Power Supply		1ph				3ph		
	Running Current	A	8.66	11.77	15.29	18.19	4.40	5.72	6.80
	Starting Current	A	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)		
Pipework	Maximum Length	m	50	50	50	50	50	50	50
	Maximum Vertical Rise	m	15	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual		
	Holding Charge	kg	2.75	2.9	2.9	4.0	2.9	2.9	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	49 / 49	53 / 49	54 / 49	53 / 49	53 / 49	54 / 49	53 / 49
Sound Power		dBA	65	70	70	69	70	70	69
Air Flow Rate (Cooling)	High	m³/sec	0.866	1.266	1.283	1.383	1.266	1.283	1.383
ECA Eligible			●	●			●		

ROUND FLOW

Round flow cassette

360° air discharge for optimum efficiency and comfort

Combination with split outdoor units is ideal for small retail, offices or residential applications

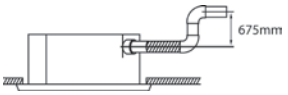
- The round flow cassette provides a more comfortable environment and offers greater savings in energy consumption to shop, office and restaurant owners
- Lowest installation height in the market: 204mm for class 71
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Modern style decoration panel is available in 3 different variations: white (RAL9010) with grey louvers, full white (RAL9010) or auto-cleaning panel
- Daily automatic filter cleaning results in higher efficiency, comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine-dust applications, e.g. clothing shops)
- Two optional intelligent sensors improve energy efficiency and comfort
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Branch duct discharge allows to optimise air distribution in irregular shaped rooms or to supply air to small adjacent rooms

FCQG35-50-60F

RXS35L3

BRC1E52A-B, BRC7FA532F

- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Standard drain pump with 675mm lift increases flexibility and installation speed

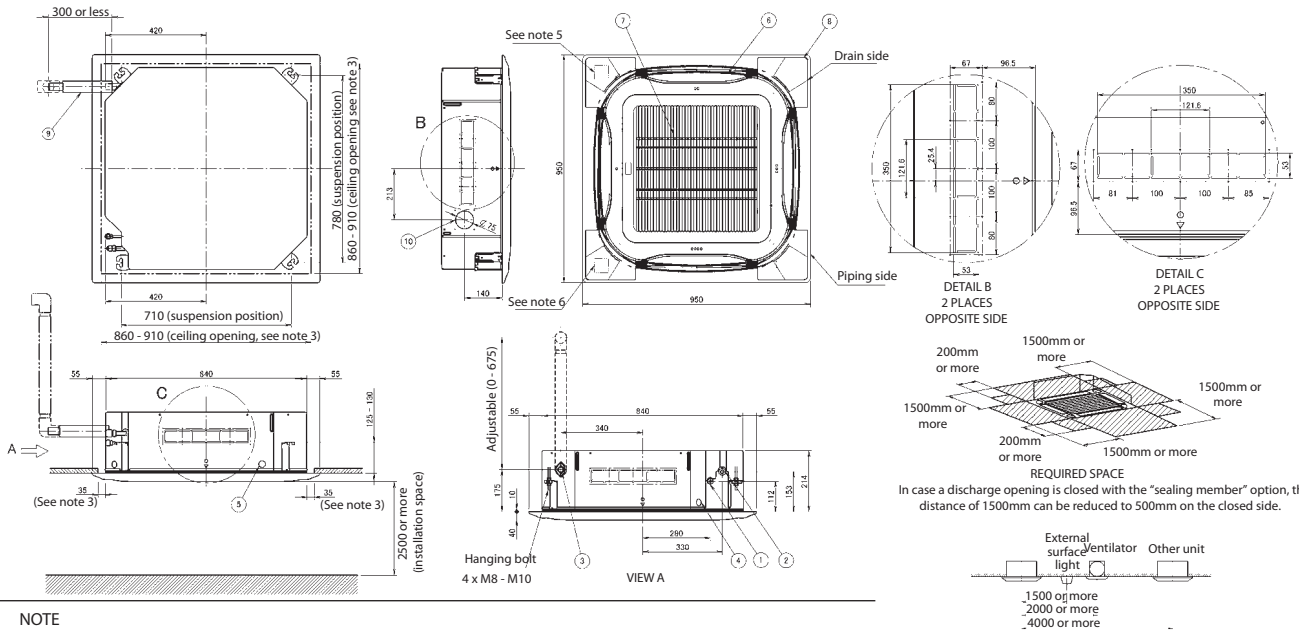


Indoor Units			FCQG35F	FCQG50F	FCQG60F
Capacity	UK Total Cooling	kW	3.32	4.89	5.57
	UK Sensible Cooling	kW	2.29	3.26	3.67
	Nominal Cooling	kW	3.40	5.00	5.70
	Nominal Heating	kW	4.20	6.00	7.00
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A++
	Pdesign	kW	3.50	5.00	5.70
	SEER		6.35	6.48	6.22
	Annual Energy Consumption	kWh	193	270	321
Seasonal Efficiency (EN14825) HEATING	Energy Label		A++	A++	A+
	Pdesign	kW	3.32	4.36	4.71
	SCOP		4.90	4.29	4.00
	Annual Energy Consumption	kWh	949	1426	1646
Nominal Efficiency	EER / COP		3.74 / 3.5	3.55 / 3.7	3.48 / 3.52
	Energy Label		A / B	A / A	A / B
	Annual Energy Consumption	kWh	455	705	820
Air Flow Rate (Cooling)	High / Nom / Low	m³/sec	0.208 / 0.177 / 0.145	0.210 / 0.178 / 0.145	0.227 / 0.187 / 0.145
Dimensions (with Decoration Panel)	Height	mm	204 (264)	204 (264)	204 (264)
	Width	mm	840 (950)	840 (950)	840 (950)
	Depth	mm	840 (950)	840 (950)	840 (950)
Weight (with Decoration Panel)		kg	18 (23.4)	19 (24.4)	19 (24.4)
Sound Pressure (Cooling)	High / Nom / Low	dBA	31 / 29 / 27	31 / 29 / 27	33 / 31 / 28
Sound Power		dBA	49	49	51

Outdoor Units			RXS35L3	RXS50L	RXS60L
Dimensions	Height x Width x Depth	mm	550 x 765 x 285	735 x 825 x 300	735 x 825 x 300
Weight		kg	34	47	48
Electrical Details	Power Supply		1ph		
	Running Current	A	4.00	6.30	7.40
	Starting Current	A	4.30	6.80	10.2
	Max Fuse Size	A	10	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5	3+E / 1.5	
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)	1/4 (6.4) / 1/2 (12.7)	
Pipework	Maximum Length	m	20	30	30
	Maximum Vertical Rise	m	15	20	20
	Precharged to	m	10	10	10
	Additional Charge	g/m	20	20	20
	Holding Charge	kg	1.2	1.7	1.5
Sound Pressure (Cooling)	High / Silent Operation	dBA	48 / 44	48 / 44	49 / 46
Sound Power		dBA	61	62	62
Air Flow Rate (Cooling)	High	m³/sec	0.600	0.848	0.836

ECA Eligible	•	•	

FCQG35-71F WITH STANDARD PANEL



NOTE

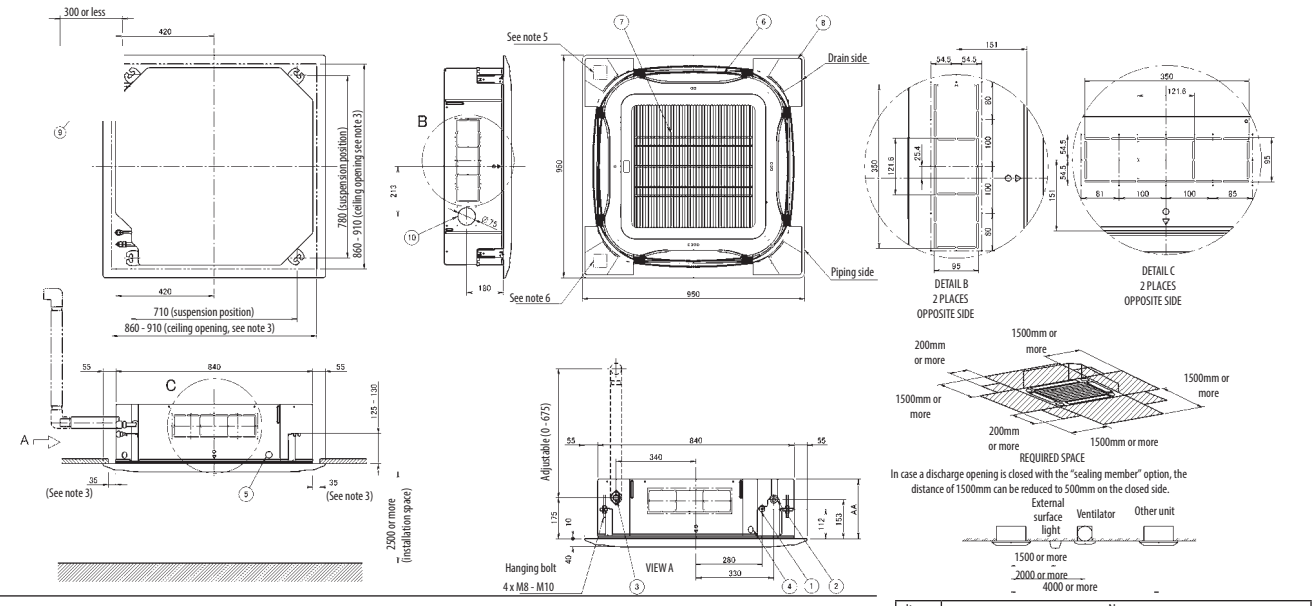
1. Location of the nameplates
   - Unit body: on the control box cover
   - Decoration panel: on the panel frame at the piping side under the corner cover
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary
3. Make sure the spacing between the ceiling and the cassette is no more than 35mm. Max ceiling opening: 910mm
4. When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10mm or more)
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail
6. In case of using a infrared control, this position will be a receiver, refer to the drawing of the infrared control for more detail

Item	Name
1	Liquid pipe connection
2	Gas pipe connection
3	Drain pipe connection
4	Power supply entry hole
5	Transmission wiring entry hole
6	Air discharge opening
7	Air suction grille
8	Corner decoration cover
9	Drain hose
10	Knock out hole

Model
FCQG35-71FVEB, FXFQ20-63AVEB

2D090245A

FCQG100-140F / FCQHG-F WITH STANDARD PANEL



NOTE

1. Location of the nameplates
   - Unit body: on the control box cover
   - Decoration panel: on the panel frame at the piping side under the corner cover
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary
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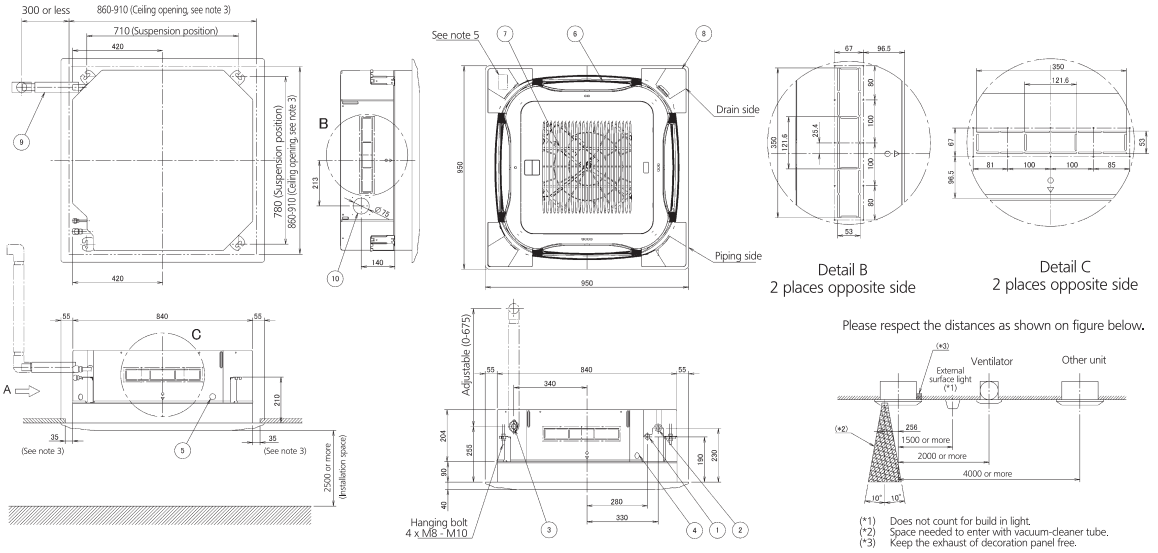
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail
6. In case of using a infrared control, this position will be a receiver, refer to the drawing of the infrared control for more detail

Item	Name
1	Liquid pipe connection
2	Gas pipe connection
3	Drain pipe connection
4	Power supply entry hole
5	Transmission wiring entry hole
6	Air discharge opening
7	Air suction grille
8	Corner decoration cover
9	Drain hose
10	Knock out hole

	Model
256	FCQG100-140FVEB, FXFQ80-100AVEB
298	FCQHG71-140FVEB, FXFQ125AVEB

3D077130E

FCQG35-71F WITH AUTO-CLEANING PANEL



1 Liquid pipe connection
2 Gas pipe connection
3 Drain pipe connection
4 Power supply entry hole
5 Transmission wiring entry hole
6 Air discharge opening
7 Air suction grille
8 Corner decoration cover
9 Drain hose
10 Knock out hole

Model
FCQG35-71F, FXFQ20-63A

(*1) Does not count for build in light.
(*2) Space needed to enter with vacuum-cleaner tube.
(*3) Keep the exhaust of decoration panel free.

Installation direction

Notes:

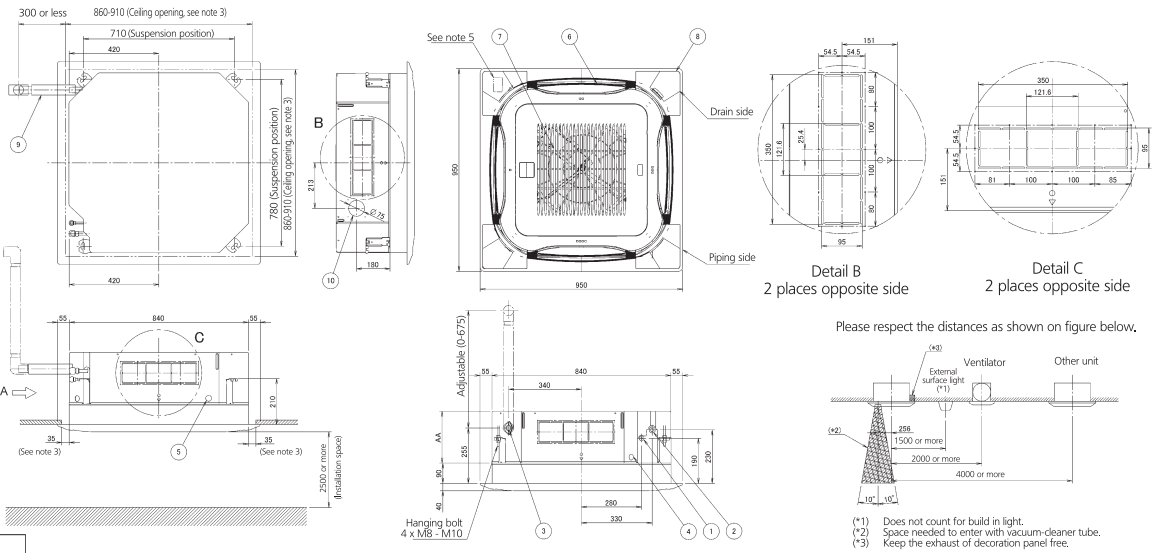
1. Location of the nameplates:
   - Unit body: on the control box cover.
   - Decoration panel: on the panel frame at the piping side under the corner cover.
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary.
3. Make sure the spacing between the ceiling and the cassette is no more than 35mm.
   MAX ceiling opening: 910mm.
4. When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10 mm or more).
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail.

Required space

In case a discharge opening is closed with the 'sealing member' option, the distance of 1500mm can be reduced to 500mm on the closed side.

2D090231

FCQG100-140F / FCQHG-F WITH AUTO-CLEANING PANEL

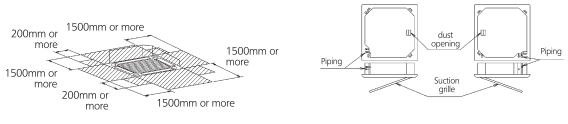


1 Liquid pipe connection
2 Gas pipe connection
3 Drain pipe connection
4 Power supply entry hole
5 Transmission wiring entry hole
6 Air discharge opening
7 Air suction grille
8 Corner decoration cover
9 Drain hose
10 Knock out hole

AA	Model
246	FCQG100-140F, FXFQ80-100A
288	FCQHG71-140F, FXFQ125A

(*1) Does not count for build in light.
(*2) Space needed to enter with vacuum-cleaner tube.
(*3) Keep the exhaust of decoration panel free.

Installation direction



Notes:

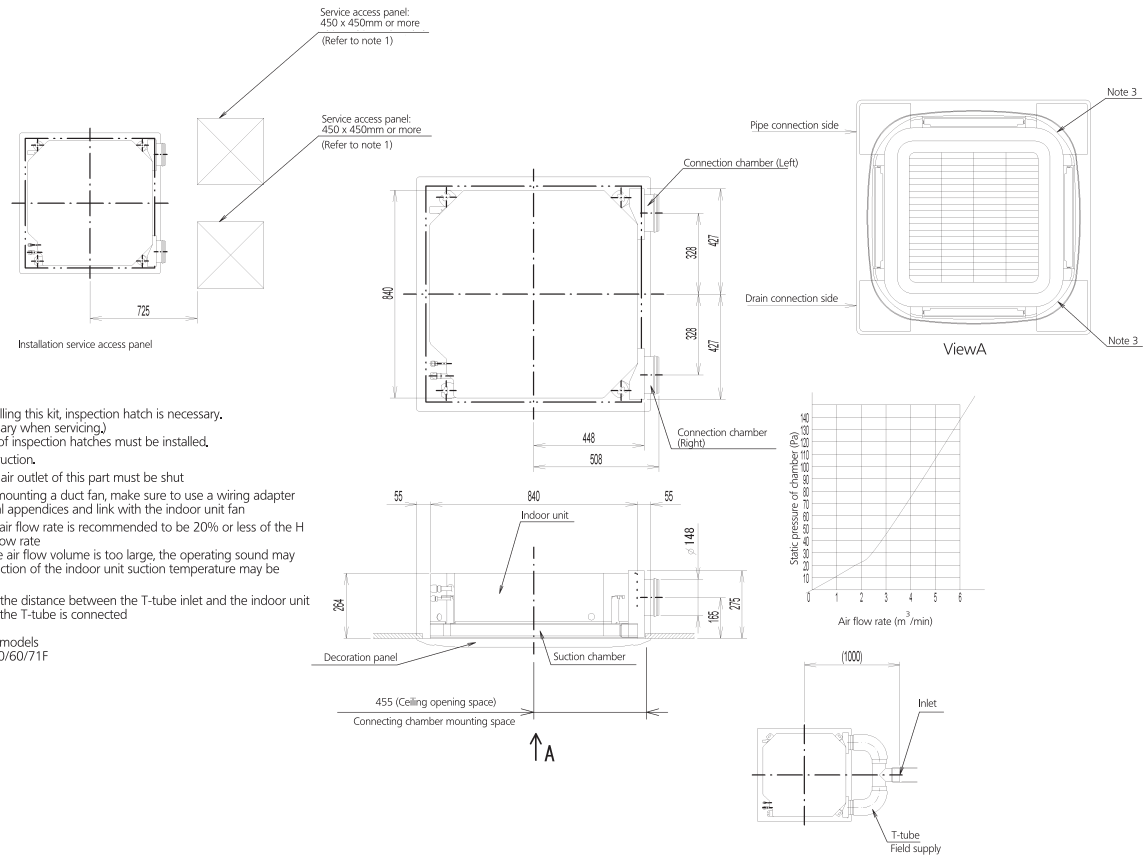
1. Location of the nameplates:
   - Unit body: on the control box cover.
   - Decoration panel: on the panel frame at the piping side under the corner cover.
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary.
3. Make sure the spacing between the ceiling and the cassette is no more than 35mm.
   MAX ceiling opening: 910mm.
4. When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10 mm or more).
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail.

Required space

In case a discharge opening is closed with the 'sealing member' option, the distance of 1500mm can be reduced to 500mm on the closed side.

3D077131D

FCQG35-71F



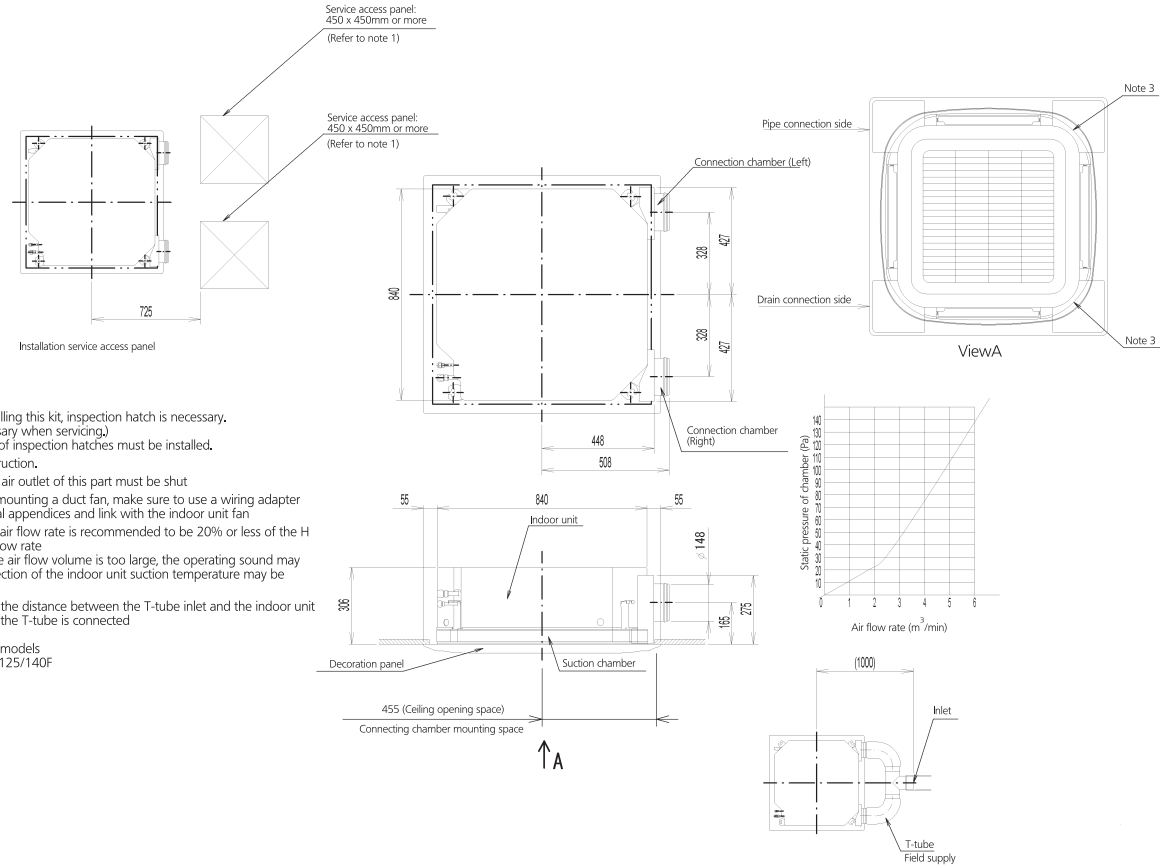
Note:

1 When installing this kit, inspection hatch is necessary.
(it is necessary when servicing.)
Either one of inspection hatches must be installed.
2 Field construction.
3 The corner air outlet of this part must be shut
4 In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices and link with the indoor unit fan
5 The intake air flow rate is recommended to be 20% or less of the H speed air flow rate
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.
6 It indicates the distance between the T-tube inlet and the indoor unit inlet when the T-tube is connected

Applicable models
FCQG35/50/60/71F

3D082217

FCQG100-140F



Note:

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(it is necessary when servicing.)
Either one of inspection hatches must be installed.
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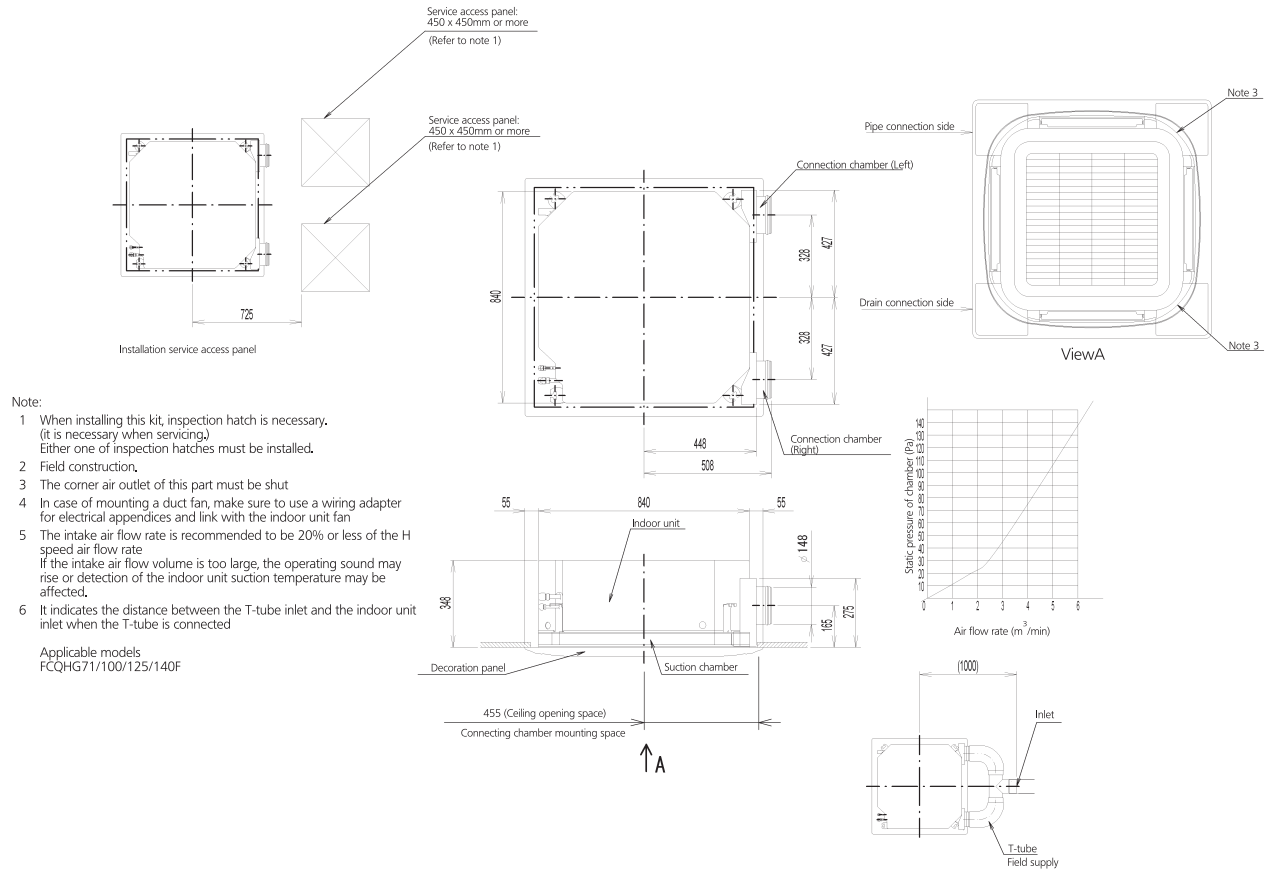
5 The intake air flow rate is recommended to be 20% or less of the H speed air flow rate
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.
6 It indicates the distance between the T-tube inlet and the indoor unit inlet when the T-tube is connected

Applicable models
FCQG100/125/140F

3D082218

FCQHG-F



Note:

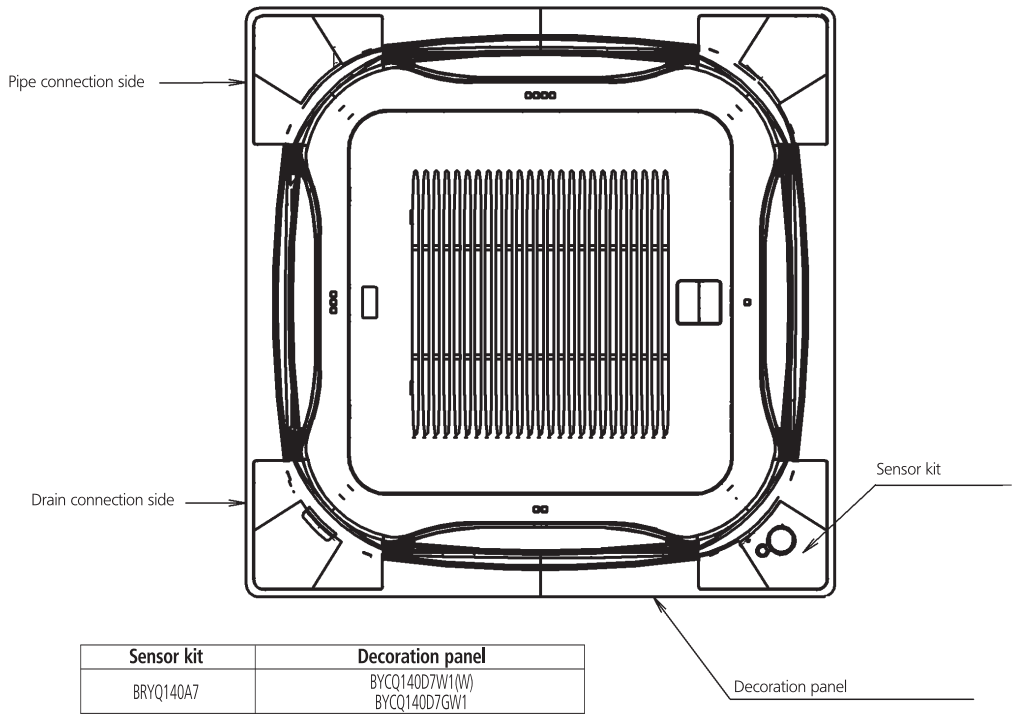
1 When installing this kit, inspection hatch is necessary.
(it is necessary when servicing.)
Either one of inspection hatches must be installed.
2 Field construction.
3 The corner air outlet of this part must be shut
4 In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices and link with the indoor unit fan
5 The intake air flow rate is recommended to be 20% or less of the H speed air flow rate
If the intake air flow volume is too large, the operating sound may rise or detection of the indoor unit suction temperature may be affected.
6 It indicates the distance between the T-tube inlet and the indoor unit inlet when the T-tube is connected

Applicable models
FCQHG71/100/125/140F

3D082220

FCQG-F / FCQHG-F

Sensor kit installation procedure



Sensor kit	Decoration panel
BRYQ140A7	BYCQ140D7W1(W) BYCQ140D7GW1

4D077409

Seasonal Smart

4-way blow ceiling suspended unit

Unique Daikin unit for high rooms with no false ceilings nor free floor space

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FUQ-C

RZQG140L9V1//L(8)Y1

BRC1E52A-B, BRC7C58

Indoor Units			Single Phase			3 Phase		
			FUQ71C	FUQ100C	FUQ125C	FUQ71C	FUQ100C	FUQ125C
Capacity	UK Total Cooling	kW	7.76	10.80	13.60	7.76	10.80	13.60
	UK Sensible Cooling	kW	5.32	7.44	9.30	5.32	7.44	9.30
	Nominal Cooling	kW	6.80	9.50	12.00	6.80	9.50	12.00
	Nominal Heating	kW	7.50	10.80	13.50	7.50	10.80	13.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A+	A++	A++	A+
	Pdesign	kW	6.80	9.50	12.00	6.80	9.50	12.00
	SEER		6.50	6.11	5.61	6.50	6.11	5.61
	Annual Energy Consumption	kWh	367	545	749	367	545	749
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A+	A+	A+	A+
	Pdesign	kW	7.60	11.30	14.13	7.60	11.30	14.13
	SCOP		4.20	4.50	4.44	4.20	4.50	4.44
	Annual Energy Consumption	kWh	2534	3516	4456	2534	3516	4456
Nominal Efficiency	EER / COP		4.05 / 4.08	3.86 / 3.95	3.39 / 3.42	4.05 / 4.08	3.86 / 3.95	3.39 / 3.42
	Energy Label		A / A	A / A	A / A	A / A	A / A	A / A
	Annual Energy Consumption	kWh	840	1230	1770	840	1230	1770
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.383 / 0.325 / 1.933	0.517 / 0.425 / 0.333	0.542 / 0.442 / 0.342	0.383 / 0.325 / 1.933	0.517 / 0.425 / 0.333	0.542 / 0.442 / 0.342
Dimensions	Height	mm	198	198	198	198	198	198
	Width	mm	950	950	950	950	950	950
	Depth	mm	950	950	950	950	950	950
Weight		kg	25	26	26	25	26	26
Sound Pressure (Cooling)	High / Nom / Low	dBA	41 / 38 / 35	46 / 42 / 39	47 / 43 / 40	41 / 38 / 35	46 / 42 / 39	47 / 43 / 40
Sound Power		dBA	59	64	65	59	64	65

Outdoor Units			RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320		990 x 940 x 320	1430 x 940 x 320	
Weight		kg	69	95		80	101	
Electrical Details	Power Supply		1ph			3ph		
	Running Current	A	6.83	9.52	14.06	2.57	3.58	5.29
	Starting Current	A	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	16	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5			3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 5/8 (15.9)		
Pipework	Maximum Length	m	50	75	75	50	75	75
	Maximum Vertical Rise	m	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual			Refer to Installation Manual		
	Holding Charge	kg	2.9	4.0	4.0	2.9	4.0	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	48 / 43	50 / 45	51 / 45	48 / 43	50 / 45	51 / 45
Sound Power		dBA	64	66	67	64	66	67
Air Flow Rate (Cooling)	Nom	m^3/sec	0.983	1.166	1.166	0.983	1.166	1.166
ECA Eligible			●	●		●	●	

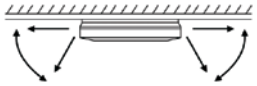
Seasonal Classic

4-way blow ceiling suspended unit

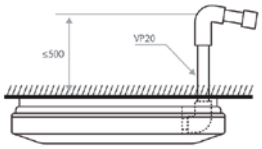
Unique Daikin unit for high rooms with no false ceilings or free floor space

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- 5 different discharge angles between 0 and 60°can be programmed via the remote control



- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Standard drain pump with 500mm lift increases flexibility and installation speed



Indoor Units			Single Phase			3 Phase	
			FUQ71C	FUQ100C	FUQ125C	FUQ100C	FUQ125C
Capacity	UK Total Cooling	kW	7.28	10.80	13.60	10.80	13.60
	UK Sensible Cooling	kW	4.99	7.44	9.30	7.44	9.30
	Nominal Cooling	kW	6.80	9.50	12.00	9.50	12.00
	Nominal Heating	kW	7.50	10.80	13.50	10.80	13.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+	A+	A	A+	A
	Pdesign	kW	6.80	9.50	12.0	9.50	12.0
	SEER		5.81	5.61	5.30	5.61	5.30
	Annual Energy Consumption	kWh	410	593	793	593	793
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A	A+	A
	Pdesign	kW	6.33	7.60	7.60	7.60	7.60
	SCOP		3.90	4.01	3.85	4.01	3.85
	Annual Energy Consumption	kWh	2273	2653	2763	2653	2763
Nominal Efficiency	EER / COP		3.21 / 3.61	3.21 / 3.61	2.65 / 3.41	3.21 / 3.61	2.65 / 3.41
	Energy Label		A/A	A/A	D/B	A/A	D/B
	Annual Energy Consumption	kWh	TBC	TBC	TBC	TBC	TBC
Air Flow Rate	High / Low	m^3/min	0.383 / 0.325 / 0.193	0.517 / 0.425 / 0.333	0.542 / 0.442 / 0.342	0.517 / 0.425 / 0.333	0.542 / 0.442 / 0.342
Dimensions	Height	mm	198			198	
	Width	mm	950			950	
	Depth	mm	950			950	
Weight		kg	25	26		26	
Sound Pressure	High / Low	dBA	41 / 38 / 35	46 / 42 / 39	47 / 43 / 40	46 / 42 / 39	47 / 43 / 40
Sound Power		dBA	59	64	65	64	65

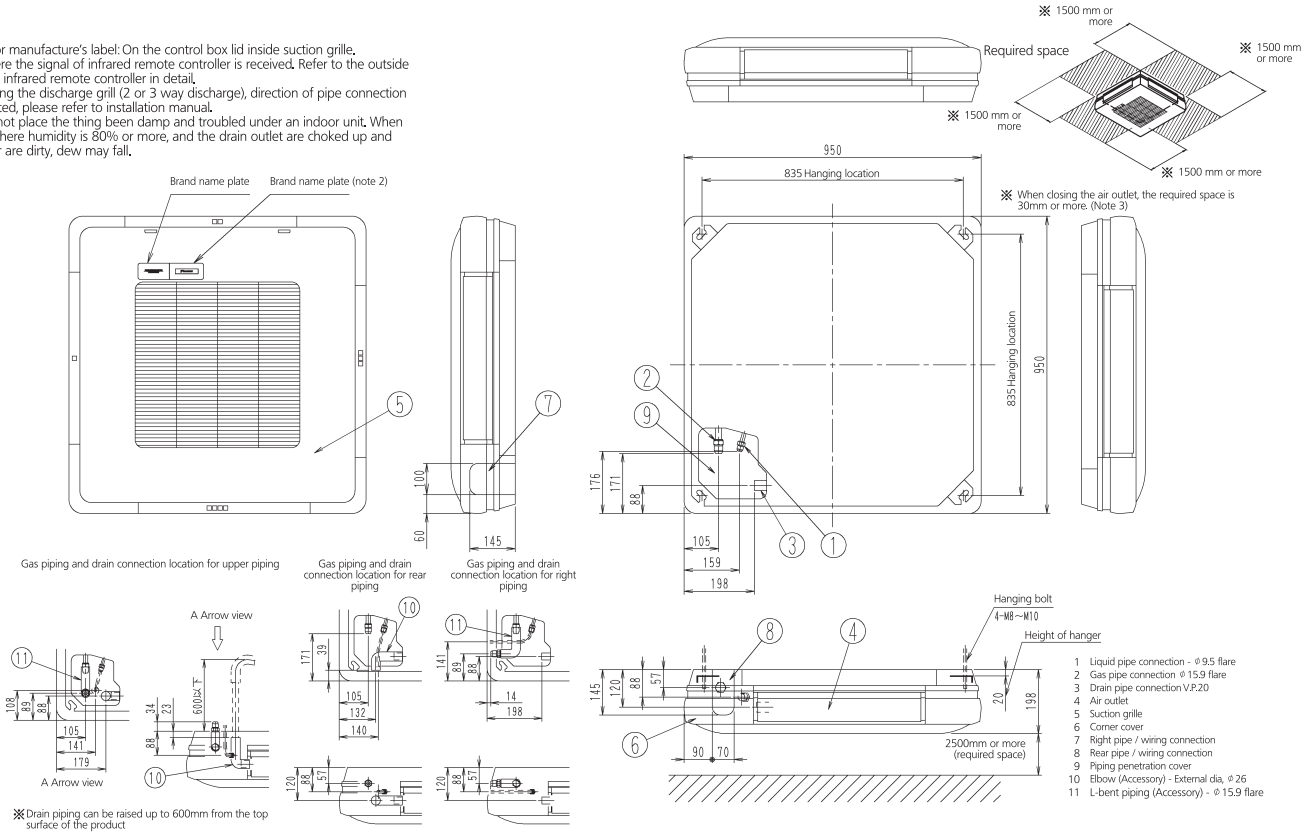
Outdoor Units			RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG100L8Y1	RZQSG125L8Y1
Dimensions	Height x Width x Depth	mm	770 x 900 x 320	990 x 940 x 320		990 x 940 x 320	
Weight		kg	67	72	74	82	
Electrical Details	Power Supply		1ph			3ph	
	Running Current	A	TBC	TBC	TBC	TBC	TBC
	Starting Current	A	4	4	4	4	4
	Max Fuse Size	A	20	32	32	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5			3+E / 1.5	
Piping Connections	Liquid / Gas	inches	3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 5/8 (15.9)	
Pipework	Maximum Length	m	50	50	50	50	50
	Maximum Vertical Rise	m	15	30	30	30	30
	Precharged to	m	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual			Refer to Installation Manual	
	Holding Charge	kg	2.75	2.9	2.9	2.9	2.9
Sound Pressure	Nom / Night Quiet	dBA	49 / 49	53 / 49	54 / 49	53 / 49	54 / 49
Sound Power		dBA	65	70	70	70	70
Air Flow Rate (Cooling)	High	m^3/Sec	0.866	1.266	1.283	1.266	1.283

FUQ-C

Note:

1. Location for manufacture's label: On the control box lid inside suction grille.
2. This is where the signal of infrared remote controller is received. Refer to the outside drawing of infrared remote controller in detail.
3. When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to installation manual.
4. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

(Unit: mm)



1 Liquid pipe connection - Φ9.5 flare
2 Gas pipe connection Φ15.9 flare
3 Drain pipe connection V.P.20
4 Air outlet
5 Suction grille
6 Corner cover
7 Right pipe / wiring connection
8 Rear pipe / wiring connection
9 Piping penetration cover
10 Elbow (Accessory) - External dia, Φ26
11 L-bent piping (Accessory) - Φ15.9 flare

3D080135

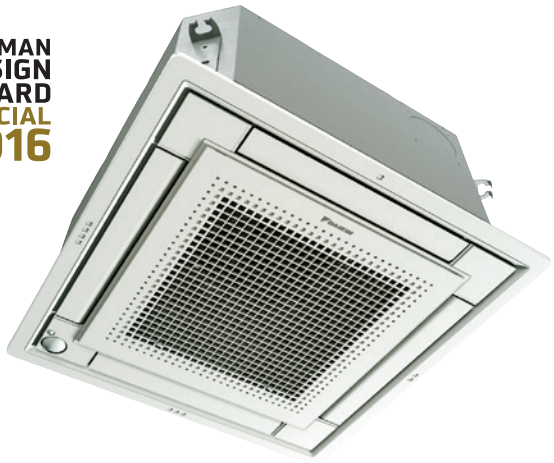
FFQ-C / FXZQ-A

universal design award 2014

GERMAN DESIGN AWARD SPECIAL 2016

Fully Flat Cassette

Design & Genius in one



Why choose fully flat cassette?

- Unique design in the market that integrates fully flat into the ceiling
- Advanced technology and top efficiency combined
- Most quiet cassette available on the market

Marketing tools

Visit the website: www.daikin.co.uk/fullyflat

Benefits for the installer

› Unique product in the market!
› Most quiet unit (25dBA)
› The user-friendly remote control, available in several languages, enables the easy set-up of sensor option and control of the individual flap position
› Meeting European design tastes

Benefits for the consultant

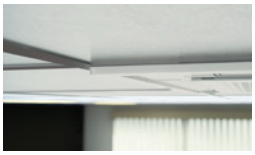
› Unique product in the market!
› Blends seamlessly in any modern office interior design
› Ideal product to improve BREEAM score/EPBD in combination with Sky Air Seasonal Smart (FFQ-C) or VRV IV heat pump units (FXZQ-A)

Benefits for the end user

› Engineering excellence and unique design in one
› Most quiet unit (25dBA)
› Perfect working conditions: no more cold draughts
› Save up to 27% on your energy bill thanks to the optional sensors
› Flexible usage of space and suits any room configuration thanks to individual flap control
› User-friendly remote control, available in several languages

Unique design

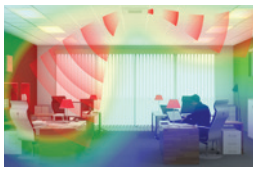
› Designed by a European design office to fully meet the European taste
› Fully flat into the ceiling, leaving only 8mm.
› Fully integrated in the one ceiling tile, enabling lights, speakers and sprinklers to be installed in adjoining ceiling tiles
› Decoration panel available in 2 colours (white and white-silver)



Differentiating in technology

Optional presence sensor

› When the room is empty, it can adjust the set temperature or switch off the unit – saving energy
› When people are detected, the direction of the airflow is adapted to avoid cold draughts being directed towards occupants



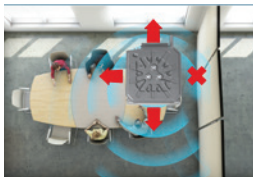
Optional floor sensor

› Detects the temperature difference and re-directs the airflow to ensure even temperature distribution

Top efficiency

› Seasonal labels up to A++*
› When the room is empty, the sensor option can adjust the set temperature or switch off the unit – saving up to 27% energy
› Individual flap control: easily control one or more flaps via the wired remote controller (BRC1E52) when rearranging the room. When fully closing or blocking the flaps, the option "Sealing member of air discharge outlet" is needed

* for FFQ25,35C in combination with RXS25,35L3



Most quiet unit in the market

› Most silent cassette in the market (25dBA), important for office applications

universal design award 2014

GERMAN DESIGN AWARD SPECIAL 2016

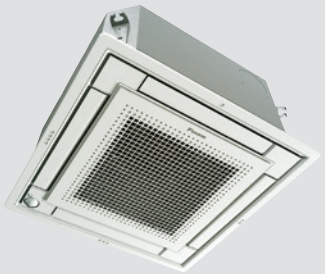
Fully flat cassette

Unique design in the market that integrates fully flat into the ceiling

Combination with split outdoor units is ideal for small retail, offices or residential applications

› Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
› Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
› Individual flap control: flexibility to suit every room layout without changing the location of the unit!
› Two optional intelligent sensors improve energy efficiency and comfort

› No optional adapter needed for DIII-connection, link your unit into the wider building management system
› Branch duct discharge allows to optimise air distribution in irregular shaped rooms or to supply air to small adjacent rooms
› Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
› Standard drain pump with 675mm lift increases flexibility and installation speed



FFQ-C

RXS25-35L3

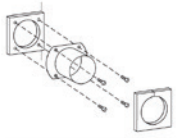
BRC1E52A-B, BRC7F530W_S - white/grey panel, BRC7EB530 - standard panel

› Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required

Fresh air intake opening in casing

* Brings in up to 10% of fresh air into the room

Optional fresh air intake kit

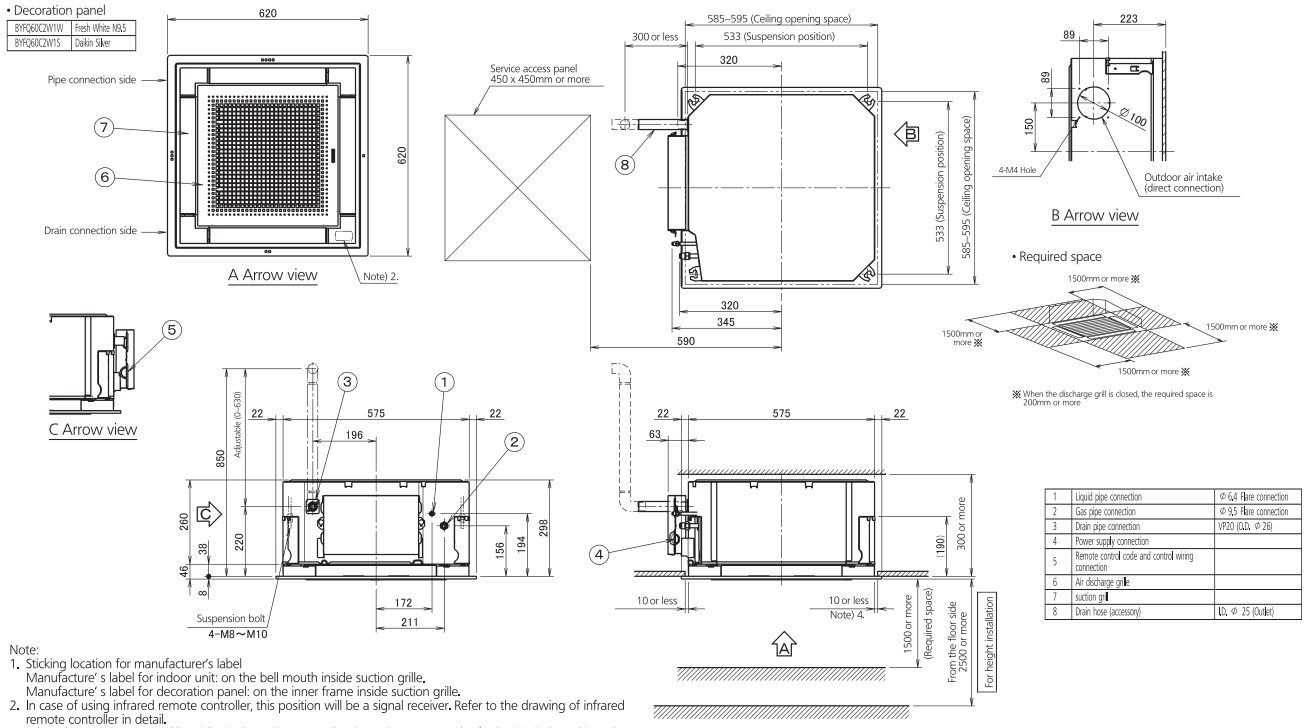


* Allows larger quantities of fresh air to be bought in

Indoor Units			FFQ25C	FFQ35C	FFQ50C	FFQ60C
Capacity	UK Total Cooling	kW	2.44	3.32	4.62	5.72
	UK Sensible Cooling	kW	1.81	2.28	3.40	4.20
	Nominal Cooling	kW	2.50	3.40	4.70	5.80
	Nominal Heating	kW	3.20	4.00	5.50	7.00
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A+	A+
	Pdesign	kW	2.50	3.40	5.00	5.70
	SEER		6.11	6.32	5.93	5.71
	Annual Energy Consumption	kWh	143	188	295	349
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A	A+
	Pdesign	kW	2.31	3.10	3.84	3.96
	SCOP		4.24	4.10	3.90	4.04
	Annual Energy Consumption	kWh	763	1059	1378	1373
Nominal Efficiency	EER / COP		4.53 / 3.9	3.78 / 3.5	3.21 / 3.49	3.02 / 3.41
	Energy Label		A / A	A / B	A / B	B / B
	Annual Energy Consumption	kWh	276	460	780	945
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.150 / 0.133 / 0.108	0.167 / 0.142 / 0.108	0.200 / 0.167 / 0.125	0.242 / 0.208 / 0.158
Dimensions (with Decoration Panel)	Height	mm	260 (306)	260 (306)	260 (306)	260 (306)
	Width	mm	575 (620)	575 (620)	575 (620)	575 (620)
	Depth	mm	575 (620)	575 (620)	575 (620)	575 (620)
Weight (with Decoration Panel)		kg	16 (18.8)	16 (18.8)	17.5 (20.2)	17.5 (20.2)
Sound Pressure (Cooling)	High / Nom / Low	dBA	31 / 28.5 / 25	34 / 30.5 / 25	39 / 34 / 27	43 / 40 / 32
Sound Power		dBA	48	51	56	60

Outdoor Units			RXS25L3	RXS35L3	RXS50L	RXS60L
Dimensions	Height x Width x Depth	mm	550 x 765 x 285	550 x 765 x 285	735 x 825 x 300	735 x 825 x 300
Weight		kg	34	34	47	48
Electrical Details	Power Supply		1ph			
	Running Current	A	4.00	4.00	6.90	8.30
	Starting Current	A	3.3	4.3	6.8	10.2
	Max Fuse Size	A	10	10	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5		3+E / 1.5	
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)		1/4 (6.4) / 1/2 (12.7)	
Pipework	Maximum Length	m	20	20	30	30
	Maximum Vertical Rise	m	15	15	20	20
	Precharged to	m	10	10	10	10
	Additional Charge	g/m	20			
	Holding Charge	kg	1.0	1.2	1.7	1.5
Sound Pressure (Cooling)	High / Silent Operation	dBA	46 / 43	48 / 44	48 / 44	49 / 46
Sound Power		dBA	61	61	62	62
Air Flow Rate (Cooling)	High	m^3/sec	0.588	0.600	0.848	0.836
ECA Eligible			●	●		

FFQ25-35C

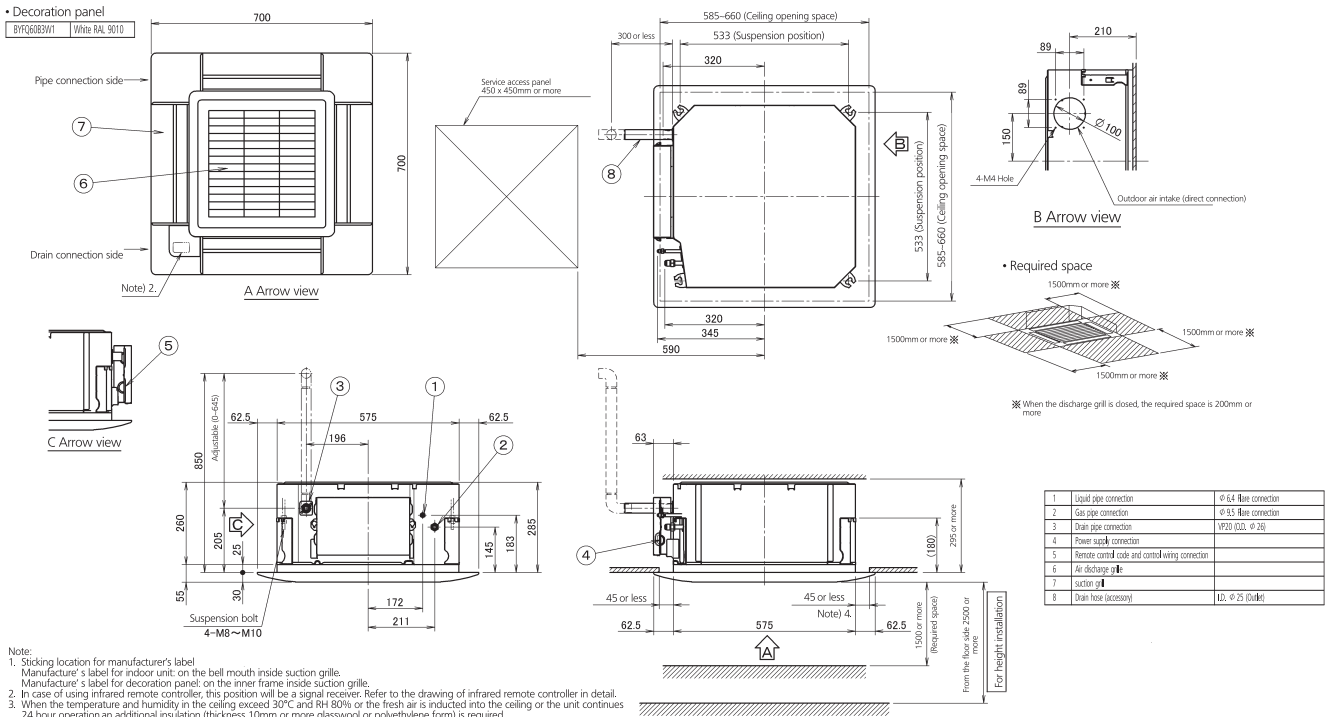


1	Liquid pipe connection	Φ 6.4 Flare connection
2	Gas pipe connection	Φ 9.5 Flare connection
3	Drain pipe connection	VP20 (I.D. Φ 26)
4	Power supply connection	
5	Remote control code and control wiring connection	
6	Air discharge grille	
7	suction grill	
8	Drain hose (accessory)	I.D. Φ 25 (Outlet)

Note:
1. Sticking location for manufacturer's label
   Manufacture' s label for indoor unit: on the bell mouth inside suction grille.
   Manufacture' s label for decoration panel: on the inner frame inside suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. When the temperature and humidity in the ceiling exceed 30°C and RH 80% or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more glasswool or polyethylene form) is required.
4. Though the installation is acceptable up to maximum of 595mm square ceiling opening, Keep the clearance of 10mm or less between the main unit and the ceiling opening so that the panel overlap allowance can be ensured.

3D082433

FFQ25-35C



1	Liquid pipe connection	Φ 6.4 Flare connection
2	Gas pipe connection	Φ 9.5 Flare connection
3	Drain pipe connection	VP20 (I.D. Φ 26)
4	Power supply connection	
5	Remote control code and control wiring connection	
6	Air discharge grille	
7	suction grill	
8	Drain hose (accessory)	I.D. Φ 25 (Outlet)

Note:
1. Sticking location for manufacturer's label
   Manufacture' s label for indoor unit: on the bell mouth inside suction grille.
   Manufacture' s label for decoration panel: on the inner frame inside suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. When the temperature and humidity in the ceiling exceed 30°C and RH 80% or the fresh air is inducted into the ceiling or the unit continues 24 hour operation,an additional insulation (thickness 10mm or more glasswool or polyethylene form) is required.
4. Though the installation is acceptable up to maximum of 660mm square ceiling opening, keep the clearance of 45mm or less between the main unit and the ceiling opening so that the panel overlap allowance can be ensured.

3D082434A

CEILING SUSPENDED UNITS

FHQ - CEILING SUSPENDED UNIT

Seasonal Smart

Ceiling suspended unit

For wide rooms with no false ceilings or free floor space

For combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

FHQ60-71C

RZQG100-125-140L9V1/L(8)Y1

BRC1E52A-B, BRC7G53

Indoor Units			Single Phase				3 Phase			
			FHQ71CB	FHQ100CB	FHQ125CB	FHQ140CB	FHQ71CB	FHQ100CB	FHQ125CB	FHQ140CB
Capacity	UK Total Cooling	kW	7.76	10.80	13.60	14.90	7.76	10.80	13.60	14.90
	UK Sensible Cooling	kW	5.32	7.44	9.30	10.25	5.32	7.44	9.30	10.25
	Nominal Cooling	kW	6.80	9.50	12.00	13.40	6.80	9.50	12.00	13.40
	Nominal Heating	kW	7.50	10.80	13.50	15.50	7.50	10.80	13.50	15.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A+	-	A++	A++	A+	-
	Pdesign	kW	6.80	9.50	12.00	-	6.80	9.50	12.00	-
	SEER		6.95	6.11	6.01	-	6.95	6.11	6.01	-
	Annual Energy Consumption	kWh	343	454	699	-	343	545	699	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A++	A+	-	A+	A++	A+	-
	Pdesign	kW	7.60	11.30	14.13	-	7.60	11.30	14.13	-
	SCOP		4.32	4.61	4.23	-	4.32	4.61	4.23	-
	Annual Energy Consumption	kWh	2462	3431	4677	-	2462	3431	4677	-
Nominal Efficiency	EER / COP		3.82 / 4.13	3.81 / 4.15	3.52 / 3.89	3.31 / 3.63	3.82 / 4.13	3.81 / 4.15	3.52 / 3.89	3.31 / 3.63
	Energy Label		A / A	A / A	A / A	A / A	A / A	A / A	A / A	A / A
	Annual Energy Consumption	kWh	890	1245	1790	2025	890	1245	1790	2025
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.342 / 0.283 / 0.233	0.467 / 0.400 / 0.333	0.517 / 0.450 / 0.383	0.567 / 0.483 / 0.400	0.342 / 0.283 / 0.233	0.467 / 0.400 / 0.333	0.517 / 0.450 / 0.383	0.567 / 0.483 / 0.400
Dimensions	Height	mm	235	235	235	235	235	235	235	235
	Width	mm	1270	1590	1590	1590	1270	1590	1590	1590
	Depth	mm	690	690	690	690	690	690	690	690
Weight		kg	32	38	38	38	32	38	38	38
Sound Pressure (Cooling)	High / Nom / Low	dBA	38 / 36 / 34	42 / 38 / 34	44 / 41 / 37	46 / 42 / 38	38 / 36 / 34	42 / 38 / 34	44 / 41 / 37	46 / 42 / 38
Sound Power		dBA	53	56	59	60	53	56	59	60

Outdoor Units			RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1	RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320			990 x 940 x 320	1430 x 940 x 320		
Weight		kg	69	95			80	101		
Electrical Details	Power Supply		1ph				3ph			
	Running Current	A	7.27	10.18	14.63	16.55	2.74	3.83	5.50	6.23
	Starting Current	A	4	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	16	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5			
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)			
Pipework	Maximum Length	m	50	75	75	75	50	75	75	75
	Maximum Vertical Rise	m	30	30	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual			
	Holding Charge	kg	2.9	4.0	4.0	4.0	2.9	4.0	4.0	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	48 / 43	50 / 45	51 / 45	52 / 45	48 / 43	50 / 45	51 / 45	52 / 45
Sound Power		dBA	64	66	67	69	64	66	67	69
Air Flow Rate (Cooling)	Nominal	m^3/sec	0.983	1.166	1.166	1.400	0.983	1.166	1.166	1.400
ECA Eligible			●	●	●		●	●	●	

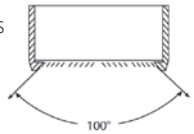
Seasonal Classic

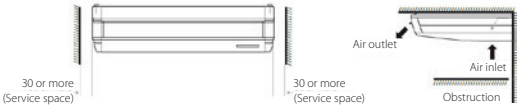
Ceiling suspended unit

For wide rooms with no false ceilings or free floor space

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle
- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space





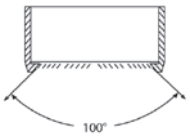
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Drain pump kit available as accessory
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Indoor Units			Single Phase				3 Phase		
			FHQ71CB	FHQ100CB	FHQ125CB	FHQ140CB	FHQ100CB	FHQ125CB	FHQ140CB
Capacity	UK Total Cooling	kW	7.28	10.80	13.60	14.90	10.80	13.60	14.90
	UK Sensible Cooling	kW	4.99	7.44	9.30	10.25	7.44	9.30	10.25
	Nominal Cooling	kW	6.80	9.50	12.00	13.40	9.50	12.00	13.40
	Nominal Heating	kW	7.50	10.80	13.50	15.50	10.80	13.50	15.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+	A+	A+	-	A+	A+	-
	Pdesign	kW	6.80	9.50	12.00	-	9.50	12.00	-
	SEER		5.61	5.61	5.61	-	5.61	5.61	-
	Annual Energy Consumption	kWh	424	593	748	-	593	748	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		A	A	A+	-	A	A+	-
	Pdesign	kW	7.60	7.60	7.60	-	7.60	7.60	-
	SCOP		3.90	3.91	4.01	-	3.91	4.01	-
	Annual Energy Consumption	kWh	2727	2722	2654	-	2722	2654	-
Nominal Efficiency	EER / COP		3.46 / 4	3.21 / 3.61	2.89 / 3.62	3.01 / 3.41	3.21 / 3.61	2.89 / 3.62	3.01 / 3.41
	Energy Label		A / A	A / A	C / A	B / B	A / A	C / A	B / B
	Annual Energy Consumption	kWh	985	1480	2075	2225	1480	2075	2225
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.342 / 0.283 / 0.233	0.467 / 0.400 / 0.333	0.517 / 0.450 / 0.383	0.567 / 0.483 / 0.400	0.467 / 0.400 / 0.333	0.517 / 0.450 / 0.383	0.567 / 0.483 / 0.400
Dimensions	Height	mm	235	235	235	235	235	235	235
	Width	mm	1270	1590	1590	1590	1590	1590	1590
	Depth	mm	690	690	690	690	690	690	690
Weight		kg	32	38	38	38	38	38	38
Sound Pressure (Cooling)	High / Nom / Low	dBA	38 / 36 / 34	42 / 38 / 34	44 / 41 / 37	46 / 42 / 38	42 / 38 / 34	44 / 41 / 37	46 / 42 / 38
Sound Power		dBA	53	56	59	60	56	59	60

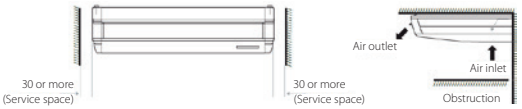
Outdoor Units			RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Dimensions	Height x Width x Depth	mm	770 x 900 x 320	990 x 940 x 320		1430 x 940 x 320	990 x 940 x 320		1430 x 940 x 320
Weight		kg	72	74		95	82		101
Electrical Details	Power Supply		1ph				3ph		
	Running Current	A	8.05	12.10	16.96	18.19	4.52	6.34	6.80
	Starting Current	A	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)		
Pipework	Maximum Length	m	50	50	50	50	50	50	50
	Maximum Vertical Rise	m	15	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual		
	Holding Charge	kg	2.75	2.9	2.9	4.0	2.9	2.9	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	49 / 49	53 / 49	54 / 49	53 / 49	53 / 49	54 / 49	53 / 49
Sound Power		dBA	65	70	70	69	70	70	69
Air Flow Rate (Cooling)	High	m^3/sec	0.866	1.266	1.283	1.383	1.266	1.283	1.383

Ceiling suspended unit

For wide rooms with no false ceilings or free floor space



- Ideal for comfortable air flow in wide rooms thanks to Coanda effect: up to 100° discharge angle
- Even rooms with ceilings up to 3.8m can be heated up or cooled down very easily without capacity loss
- Can easily be mounted in corners and narrow spaces, as it only needs 30mm lateral service space



- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Drain pump kit available as accessory

FHQ60C

RXS35L3

BRC1E52A-B, BRC7G53

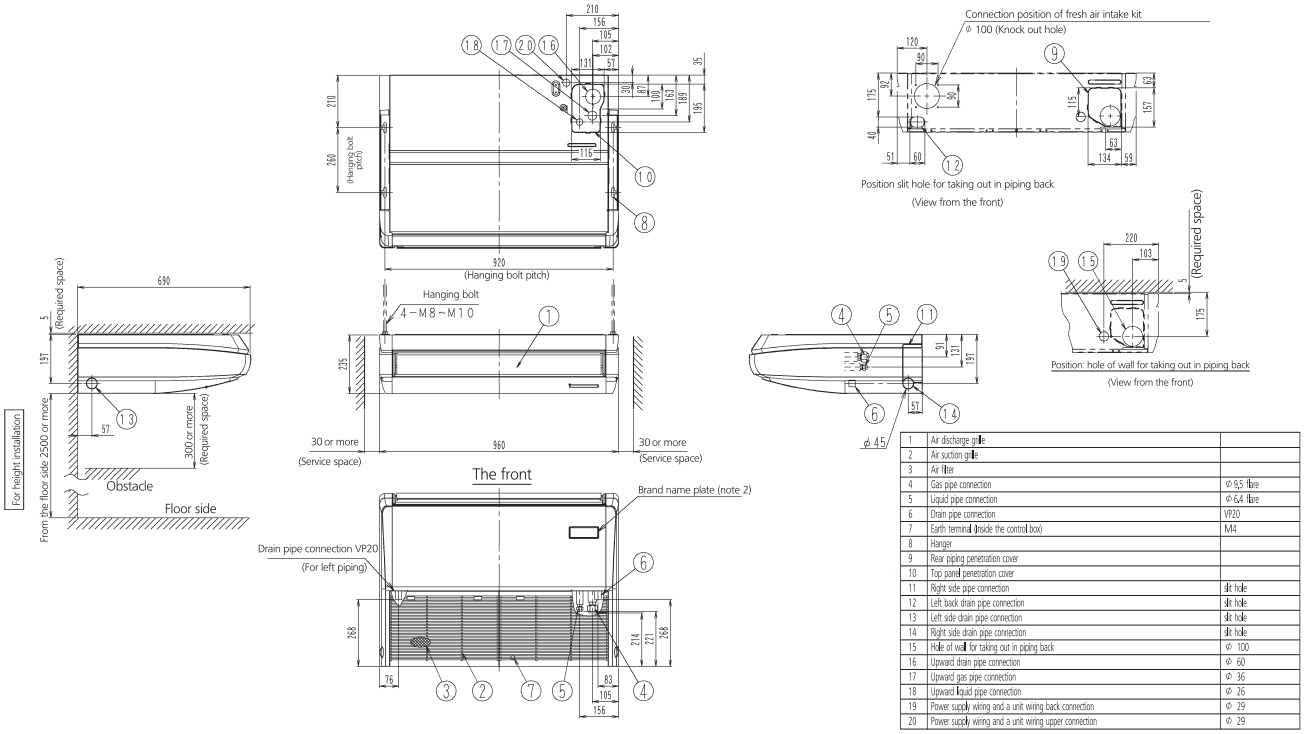
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required

Indoor Units			FHQ35CB	FHQ50CB	FHQ60CB
Capacity	UK Total Cooling	kW	3.32	4.92	5.57
	UK Sensible Cooling	kW	2.58	3.52	3.93
	Nominal Cooling	kW	3.40	5.00	5.70
	Nominal Heating	kW	4.00	6.00	7.20
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A+	A+
	Pdesign	kW	3.40	5.00	5.70
	SEER		6.18	5.87	6.02
	Annual Energy Consumption	kWh	193	298	332
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A	A
	Pdesign	kW	3.10	4.35	4.71
	SCOP		4.43	3.86	3.87
	Annual Energy Consumption	kWh	981	1578	1705
Nominal Efficiency	EER / COP		3.58 / 4.08	3.18 / 3.35	3.26 / 3.32
	Energy Label		A / A	B / C	A / C
	Annual Energy Consumption	kWh	475	785	875
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.233 / 0.192 / 0.167	0.250 / 0.200 / 0.167	0.325 / 0.250 / 0.250
Dimensions	Height	mm	235	235	235
	Width	mm	960	960	1270
	Depth	mm	690	690	690
Weight		kg	24	25	31
Sound Pressure (Cooling)	High / Nom / Low	dBA	36 / 34 / 31	37 / 35 / 32	37 / 35 / 33
Sound Power		dBA	53	54	54

Outdoor Units			RXS35L3	RXS50L	RXS60L
Dimensions	Height x Width x Depth	mm	550 x 765 x 285	735 x 825 x 300	735 x 825 x 300
Weight		kg	34	47	48
Electrical Details	Power Supply		1ph		
	Running Current	A	4.1	7.3	7.8
	Starting Current	A	4.3	6.8	10.2
	Max Fuse Size	A	10	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5	3+E / 1.5	
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)	1/4 (6.4) / 1/2 (12.7)	
Pipework	Maximum Length	m	20	30	30
	Maximum Vertical Rise	m	15	20	20
	Precharged to	m	10	10	10
	Additional Charge	g/m	20.0		
	Holding Charge	kg	1.2	1.7	1.5
Sound Pressure (Cooling)	High / Silent Operation	dBA	48 / 44	48 / 44	49 / 46
Sound Power		dBA	61	62	62
Air Flow Rate (Cooling)	High	m^3/sec	0.600	0.848	0.836

ECA Eligible			•		

FHQ35C

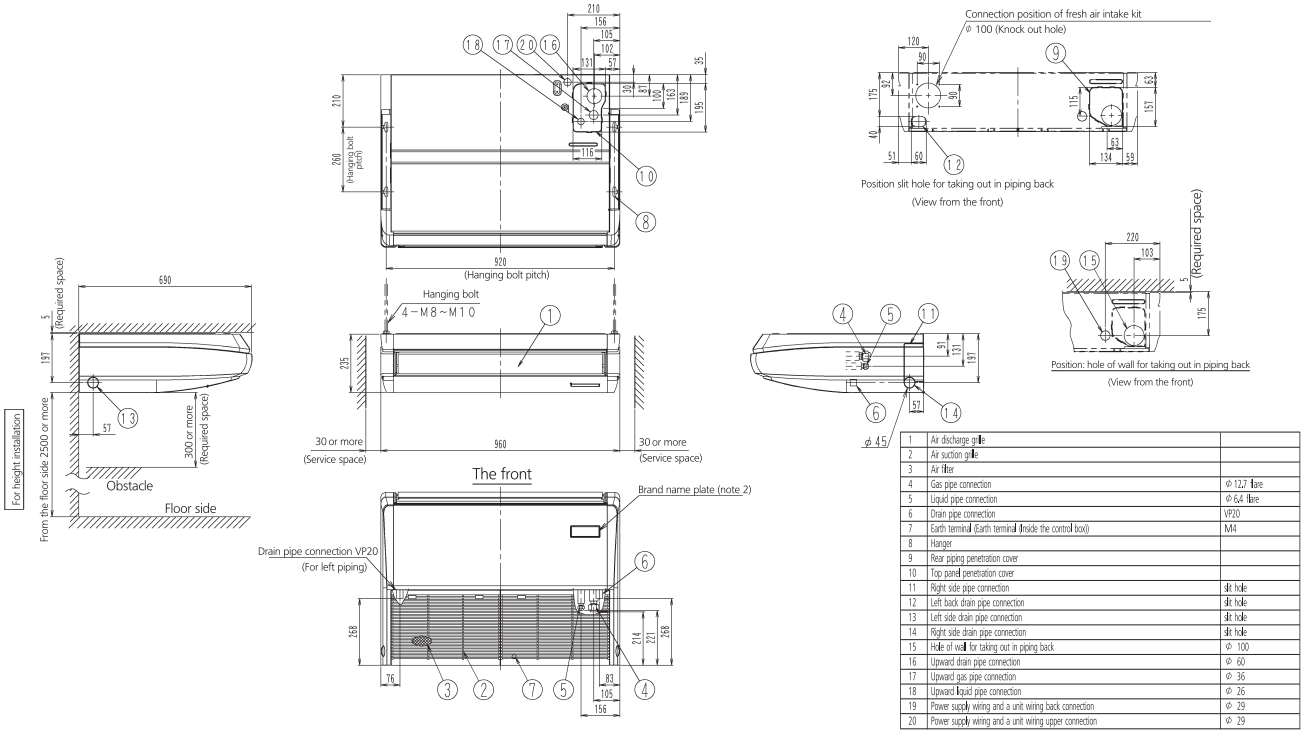


1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 9,5 flare
5	Liquid pipe connection	ø 6,4 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside the control box)	M4
8	Hanger	
9	Rear piping penetration cover	
10	Top panel penetration cover	
11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power supply wiring and a unit wiring back connection	ø 29
20	Power supply wiring and a unit wiring upper connection	ø 29

Note:
1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

3D080028

FHQ50C

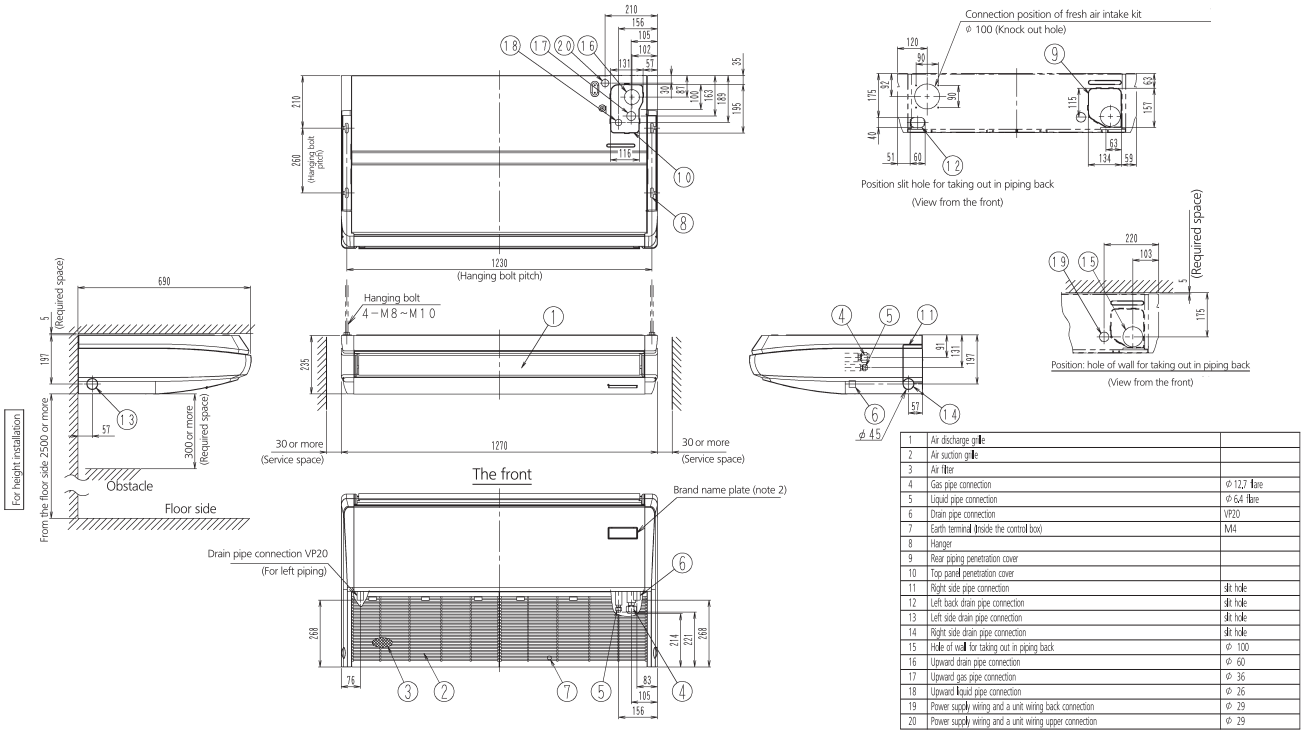


1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 12,7 flare
5	Liquid pipe connection	ø 6,4 flare
6	Drain pipe connection	VP20
7	Earth terminal (Earth terminal inside the control box))	M4
8	Hanger	
9	Rear piping penetration cover	
10	Top panel penetration cover	
11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ø 100
16	Upward drain pipe connection	ø 60
17	Upward gas pipe connection	ø 36
18	Upward liquid pipe connection	ø 26
19	Power supply wiring and a unit wiring back connection	ø 29
20	Power supply wiring and a unit wiring upper connection	ø 29

Note:
1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall

3D080029

FHQ60C

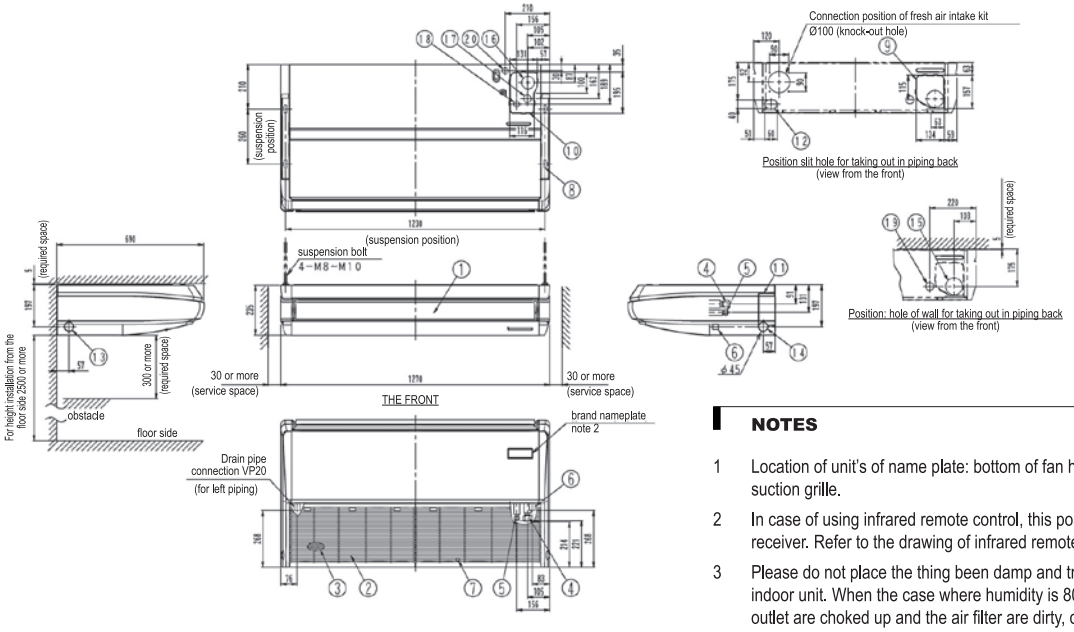


1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ϕ 12,7 flare
5	Liquid pipe connection	ϕ 6,4 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside the control box)	M4
8	Hanger	
9	Rear piping penetration cover	
10	Top panel penetration cover	
11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	ϕ 100
16	Upward drain pipe connection	ϕ 60
17	Upward gas pipe connection	ϕ 36
18	Upward liquid pipe connection	ϕ 26
19	Power supply wiring and a unit wiring back connection	ϕ 29
20	Power supply wiring and a unit wiring upper connection	ϕ 29

Note:
1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

3D080119

FHQ71C



3D069632A

NOTES

1 Location of unit's of name plate: bottom of fan housing inside the suction grille.

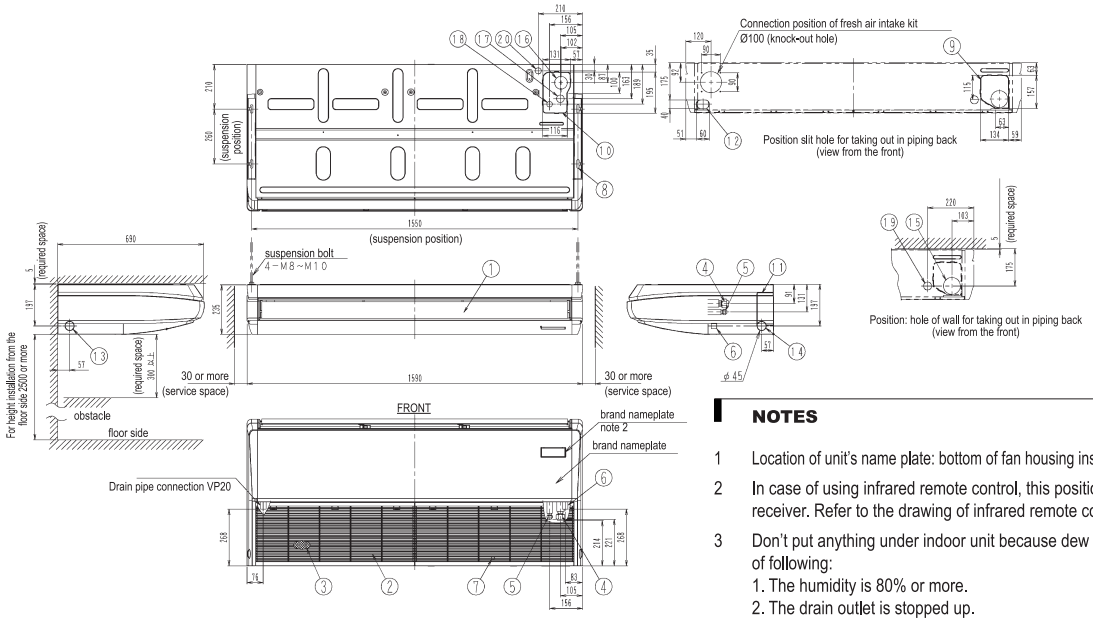
2 In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.

3 Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, the drain outlet are choked up and the air filter are dirty, dew may fall.

Nr	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	Ø15.9 flare
5	Liquid pipe connection	Ø9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection opening lid	
10	Upward piping and wiring connection opening lid	

11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	Ø100
16	Upward drain pipe connection	Ø60
17	Upward gas pipe connection	Ø36
18	Upward liquid pipe connection	Ø26
19	Power source wiring and a unit wiring back connection	Ø29
20	Power source wiring and a unit wiring upper connection	Ø29

FHQ100-140C



NOTES

1 Location of unit's name plate: bottom of fan housing inside the suction grille.

2 In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.

3 Don't put anything under indoor unit because dew may fall by reason of following:
1. The humidity is 80% or more.
2. The drain outlet is stopped up.
3. The air filter is dirty.

Nr	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	Ø15.9 flare
5	Liquid pipe connection	Ø9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside electric components box)	M4
8	Hanger bracket	
9	Backward piping and wiring connection opening lid	
10	Upward piping and wiring connection opening lid	

11	Right side pipe connection	slit hole
12	Left back drain pipe connection	slit hole
13	Left side drain pipe connection	slit hole
14	Right side drain pipe connection	slit hole
15	Hole of wall for taking out in piping back	Ø100
16	Upward drain pipe connection	Ø60
17	Upward gas pipe connection	Ø36
18	Upward liquid pipe connection	Ø26
19	Power source wiring and a unit wiring back connection	Ø29
20	Power source wiring and a unit wiring upper connection	Ø29

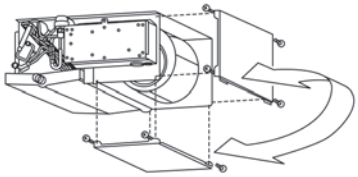
DUCTED UNITS

WHERE CEILING SLOT DIFFUSER
IS USED IN SUSPENDED CEILING

Small concealed ceiling unit

Designed for hotel applications

› Compact unit (230mm high & 652mm deep), can easily be mounted in narrow ceiling voids
› Discreetly concealed in the ceiling: only the suction and discharge grilles are visible
› Whisper quiet operation: down to 28dBA sound pressure level
› Flexible installation, as the air suction direction can be altered from rear to bottom suction



› For easy mounting, the drain pan can be located to the left or right of the unit

FDBQ-B

BRC1E52A/B

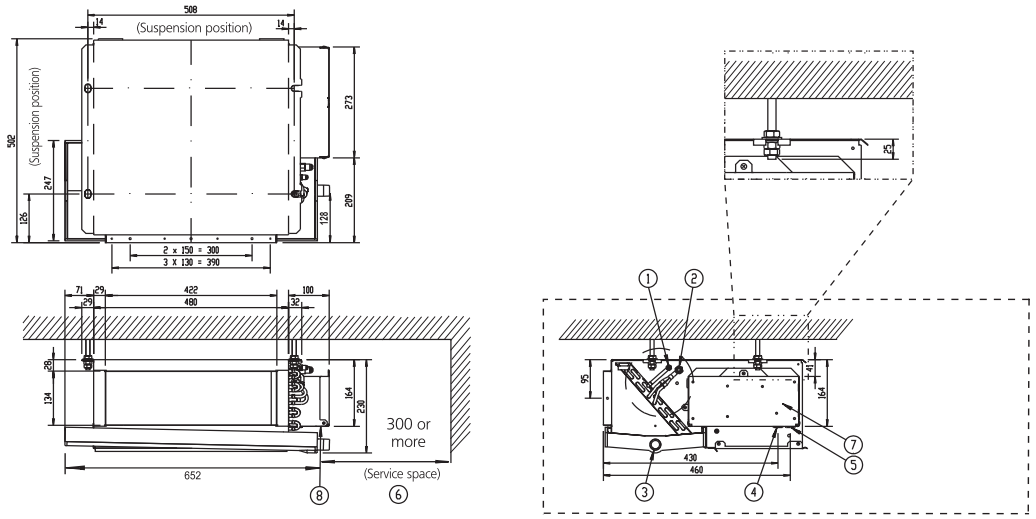
Indoor unit					FDBQ
					25B
Dimensions	Unit	HeightxWidthxDepth		mm	230x652x502
Weight	Unit			kg	17.0
Air filter	Type				Resin net with mold resistance
Fan - Air flow rate	Cooling	High/Low		m^3/min	6.50/5.20
	Heating	High/Low		m^3/min	6.95/5.20
Sound power level	Cooling			dBA	55
	Heating			dBA	55
Sound pressure level	Cooling	High/Low		dBA	35.0/28.0
	Heating	High/Low		dBA	35.0/29.0
Control systems	Wired remote control				BRC1D52 / BRC1E52A/B
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 230

Outdoor unit					5MXS90E
Dimensions	Unit	HeightxWidthxDepth		mm	only available in multi model application
Weight	Unit			kg	
Sound power level	Cooling			dBA	
Sound pressure level	Cooling	Nom.		dBA	
	Heating	Nom.		dBA	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	
	Heating	Ambient	Min.~Max.	°CWB	
Refrigerant	Type/Charge kg-TCO^{2}Eq/GWP				
Piping connections	Liquid	OD		mm	
	Gas	OD		mm	
	Piping length	OU - IU	Max.	m	
	Additional refrigerant charge			kg/m	
	Level difference	IU - OU	Max.	m	
		IU - IU	Max.	m	
Power supply	Phase / Frequency / Voltage			Hz / V	
Current - 50Hz	Maximum fuse amps (MFA)			A	

(1) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.

FDBQ25B

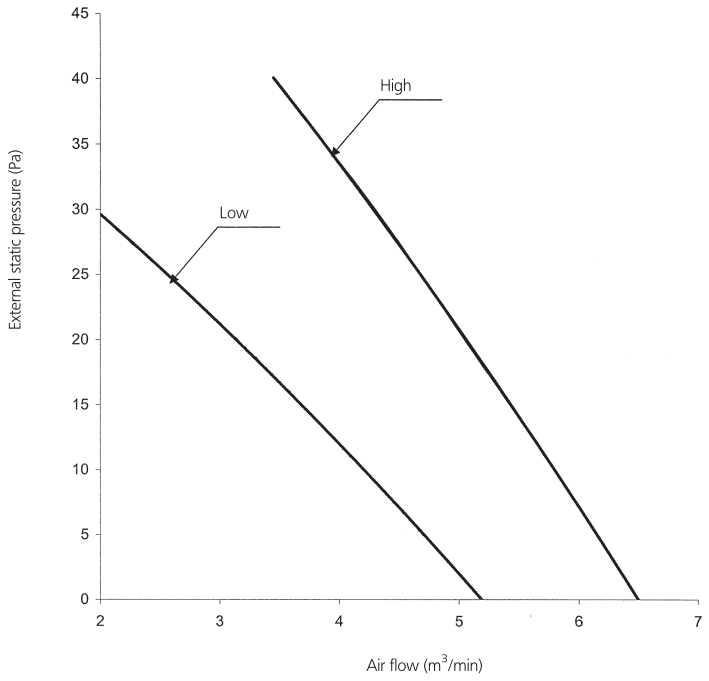
unit (mm)



1 Liquid pipe connection (ϕ6.35)
2 Gas pipe connection (ϕ9.52)
3 Drain hole (OD = ϕ27.2 ID = ϕ21.6)
4 Entry for wiring on/off-switch, remote controller and electrical heater
5 Entry for wiring power supply
6 Service space
7 Switch box
8 Name plate

3TW20814-1C

FDBQ25B



Note: The wired remote control can be used to switch between 'high' and 'low'

4TW25858-1

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

Combination with split outdoor units is ideal for small retail, offices or residential applications

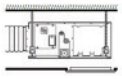
- Top efficiency in the market! Energy label up to A++
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Lowest sound levels in the market: down to 25dBA!
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discreetly concealed in the ceiling: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles

FBQ-D

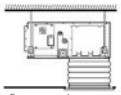
RXS35L3

BRC1E52A-B, BRC4C65

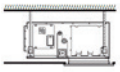
- Standard built-in drain pump with 625mm lift increases flexibility and installation speed



For free use into a false ceiling



For connecting onto a suction canvas (not supplied by Daikin)



For direct connection to Daikin panel (via EKBYBSD kit)

Indoor Units			DC Ducted		
			FBQ35D	FBQ50D	FBQ60D
Capacity	UK Total Cooling	kW	3.32	4.89	5.57
	UK Sensible Cooling	kW	2.93	3.55	4.09
	Nominal Cooling	kW	3.40	5.00	5.70
	Nominal Heating	kW	4.00	5.50	7.00
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A+
	Pdesign	kW	3.40	5.00	5.70
	SEER		6.17	6.21	5.86
	Annual Energy Consumption	kWh	193	282	340
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A+
	Pdesign	kW	2.90	4.40	4.60
	SCOP		4.07	4.06	4.01
	Annual Energy Consumption	kWh	998	1517	1606
Nominal Efficiency	EER / COP		3.99 / 4.02	3.52 / 3.83	3.45 / 3.71
	Energy Label		A / A	B / A	B / A
	Annual Energy Consumption	kWh	426	710	826
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.250 / 0.208 / 0.175	0.250 / 0.208 / 0.175	0.300 / 0.250 / 0.208
External Static Pressure	High / Nom	Pa	150 / 30		
Dimensions	Height	mm	245		
	Width	mm	700		1000
	Depth	mm	800		
Weight		kg	28		35
Sound Pressure (Cooling)	High / Nom / Low	dBA	35 / 32 / 29	35 / 32 / 29	30 / 28 / 25
Sound Power		dBA	60	60	55

Outdoor Units			RXS35L3	RXS50L	RXS60L
Dimensions	Height x Width x Depth	mm	550 x 765 x 285	735 x 825 x 300	735 x 825 x 300
Weight		kg	34	47	48
Electrical Details	Power Supply		1ph (refer to databook)		
	Running Current	A	4.6	7.2	9.2
	Starting Current	A	4.3	6.8	10.2
	Max Fuse Size	A	10	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5	3+E / 1.5	
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)	1/4 (6.4) / 1/2 (12.7)	
Pipework	Maximum Length	m	20	30	30
	Maximum Vertical Rise	m	15	20	20
	Precharged to	m	10	10	10
	Additional Charge	g/m	20		
	Holding Charge	kg	1.2	1.7	1.5
Sound Pressure (Cooling)	High / Silent Operation	dBA	48 / 44	48 / 44	49 / 46
Sound Power		dBA	61	61	62
Air Flow Rate (Cooling)	High	m^3/sec	0.600	0.848	0.836

Seasonal Smart

Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance

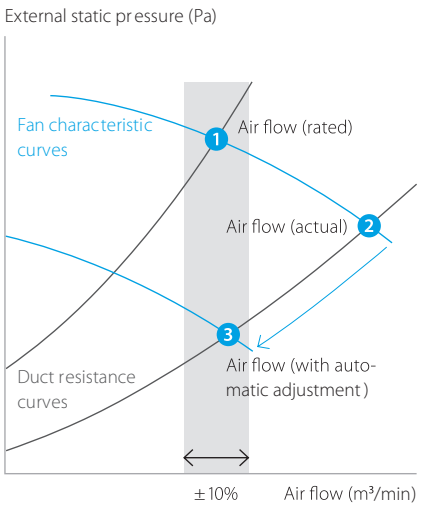
Optimised supply air volume

Automatically selects the most appropriate fan curve to achieve the units' nominal air flow within ±10%.

Why?

After installation the real ducting will frequently differ from the initially calculated air flow resistance. Therefore the real air flow may be much lower or higher than nominal, leading to a lack of capacity or uncomfortable air temperature.

Automatic Airflow Adjustment function will adapt the unit's fan speed to any ducting automatically(10 or more fan curves are available on every model), making installation much faster.



Indoor Units			Single Phase				3 Phase			
			FBQ71D	FBQ100D	FBQ125D	FBQ140D	FBQ71D	FBQ100D	FBQ125D	FBQ140D
Capacity	UK Total Cooling	kW	7.76	10.80	13.60	14.90	7.76	10.80	13.60	14.90
	UK Sensible Cooling	kW	5.32	7.44	9.30	10.25	5.32	7.44	9.30	10.25
	Nominal Cooling	kW	6.80	9.50	12.00	13.40	6.80	9.50	12.00	13.40
	Nominal Heating	kW	7.50	10.80	13.50	15.50	7.50	10.80	13.50	15.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A+	A++	-	A++	A+	A++	-
	Pdesign	kW	6.80	9.50	12.00	-	6.80	9.50	12.00	-
	SEER		6.16	5.87	6.11	-	6.16	5.87	6.11	-
	Annual Energy Consumption	kWh	386	566	687	-	386	566	687	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A++	A+	-	A+	A++	A+	-
	Pdesign	kW	6.00	11.30	12.70	-	6.00	11.30	12.71	-
	SCOP		4.31	4.78	4.28	-	4.31	4.78	4.28	-
	Annual Energy Consumption	kWh	1949	3310	4154	-	1949	3310	4154	-
Nominal Efficiency	EER / COP		3.60 / 4.01	3.81 / 4.41	3.31 / 3.90	3.35 / 3.60	3.60 / 4.01	3.81 / 4.41	3.31 / 3.90	3.35 / 3.60
	Energy Label		A / A	A / A	A / A	A / B	A / A	A / A	A / A	A / B
	Annual Energy Consumption	kWh	944	1217	1813	2000	944	1217	1813	2000
Air Flow Rate (Cooling)	High / Nom / Low	m³/sec	0.300 / 0.250 / 0.208	0.483 / 0.433 / 0.383	0.567 / 0.483 / 0.392	0.567 / 0.483 / 0.393	0.300 / 0.250 / 0.208	0.483 / 0.433 / 0.383	0.567 / 0.483 / 0.392	0.567 / 0.483 / 0.393
External Static Pressure	High / Nom	Pa	150 / 30	150 / 40	150 / 50		150 / 30	150 / 40	150 / 50	
Dimensions	Height	mm	245				245			
	Width	mm	1000	1400			1000	1400		
	Depth	mm	800				800			
Weight		kg	35	46			35	46		
Sound Pressure (Cooling)	High / Nom / Low	dBA	30 / 28 / 25	34 / 32 / 30	37 / 35 / 32		30 / 28 / 25	34 / 32 / 30	37 / 35 / 32	
Sound Power		dBA	56	58	62	62	56	58	62	62

Outdoor Units			RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1	RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320			990 x 940 x 320	1430 x 940 x 320		
Weight		kg	69	95	95	95	80	101		
Electrical Details	Power Supply		1ph				3ph			
	Running Current	A	7.93	9.97	12.87	16.43	2.98	3.75	4.84	6.18
	Starting Current	A	4	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	16	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5			
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)			
Pipework	Maximum Length	m	50	75	75	75	50	75	75	75
	Maximum Vertical Rise	m	30	30	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual			
	Holding Charge	kg	2.9	4.0	4.0	4.0	2.9	4.0	4.0	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	48 / 43	50 / 45	51 / 45	52 / 45	48 / 43	50 / 45	51 / 45	52 / 45
Sound Power		dBA	64	66	67	69	64	66	67	69
Air Flow Rate (Cooling)	High	m³/sec	0.983	1.166	1.166	1.400	0.983	1.166	1.166	1.400
ECA Eligible			●		●		●		●	

Seasonal Classic

Concealed ceiling unit with medium ESP

Slimmest yet most powerful medium static pressure unit on the market

Combination with Seasonal Classic ensures good value for money for all types of commercial applications

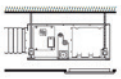
- Top efficiency in the market! Energy label up to A++
- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Lowest sound levels in the market: down to 25dBA!
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discreetly concealed in the ceiling: only the suction and discharge grilles are visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- No optional adapter needed for DIII-connection, link your unit into the wider building management system

FBQ-D

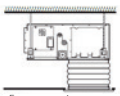
RZQSG100-125L3/9V1/L(8)Y1

BRC1E52A-B, BRC4C65

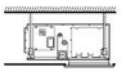
- Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles
- Standard built-in drain pump with 625mm lift increases flexibility and installation speed



For free use into a false ceiling



For connecting onto a suction canvas (not supplied by Daikin)

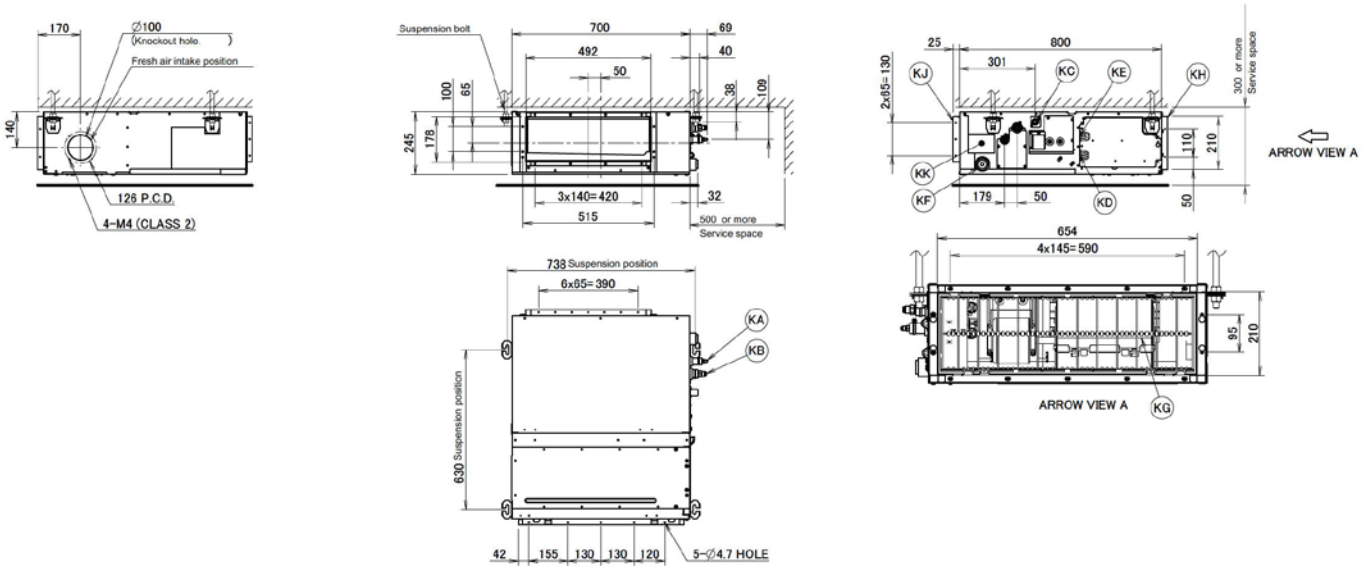


For direct connection to Daikin panel (via EKBYBSD kit)

Indoor Units			Single Phase				3 Phase		
			FBQ71D	FBQ100D	FBQ125D	FBQ140D	FBQ100D	FBQ125D	FBQ140D
Capacity	UK Total Cooling	kW	7.28	10.80	13.60	14.90	10.80	13.60	14.90
	UK Sensible Cooling	kW	4.99	7.44	9.30	10.25	7.44	9.30	10.25
	Nominal Cooling	kW	6.80	9.50	12.00	13.40	9.50	12.00	13.40
	Nominal Heating	kW	7.50	10.80	13.50	15.50	10.80	13.50	15.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+	A+	A	-	A+	A	-
	Pdesign	kW	6.80	9.50	12.00	-	9.50	12.00	-
	SEER		5.84	5.61	5.47	-	5.61	5.47	-
	Annual Energy Consumption	kWh	408	593	768	-	593.00	768.00	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A+	-	A+	A+	-
	Pdesign	kW	6.00	7.60	7.60	-	7.60	7.60	-
	SCOP		4.01	4.15	4.01	-	4.15	4.01	-
	Annual Energy Consumption	kWh	2095	2564	2653	-	2564	2653	-
Nominal Efficiency	EER / COP		3.43 / 3.92	3.35 / 3.67	3.23 / 3.63	3.06 / 3.40	3.35 / 3.67	3.23 / 3.63	3.06 / 3.40
	Energy Label		A / A	A / A	A / A	B / B	A / A	A / A	B / B
	Annual Energy Consumption	kWh	991	1418	1858	2190	1418	1858	2190
Air Flow Rate (Cooling)	High / Nom / Low	m^3/sec	0.300 / 0.250 / 0.208	0.483 / 0.433 / 0.383	0.567 / 0.483 / 0.392	0.567 / 0.483 / 0.393	0.483 / 0.433 / 0.383	0.567 / 0.483 / 0.392	0.567 / 0.483 / 0.393
External Static Pressure	High / Nom	Pa	150 / 30	150 / 40	150 / 50		150 / 40	150 / 50	
Dimensions	Height	mm	245				245		
	Width	mm	1000	1400			1400		
	Depth	mm	800				800		
Weight		kg	35	46			46		
Sound Pressure (Cooling)	High / Nom / Low	dBA	30 / 28 / 25	34 / 32 / 30	37 / 35 / 32		34 / 32 / 30	37 / 35 / 32	
Sound Power		dBA	56	58	62	62	58	62	

Outdoor Units			RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Dimensions	Height x Width x Depth	mm	770 x 900 x 320	990 x 940 x 320		1430 x 940 x 320	990 x 940 x 320		1430 x 940 x 320
Weight		kg	72	75		95	82		101
Electrical Details	Power Supply		1ph				3ph		
	Running Current	A	8.46	11.73	15.29	18.15	4.39	5.72	6.79
	Starting Current	A	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)		
Pipework	Maximum Length	m	50	50	50	50	50	50	50
	Maximum Vertical Rise	m	15	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual		
	Holding Charge	kg	2.75	2.9	2.9	4.0	2.9	2.9	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	49 / 49	53 / 49	54 / 49	53 / 49	53 / 49	54 / 49	53 / 49
Sound Power		dBA	65	70	70	69	70	70	69
Air Flow Rate (Cooling)	High	m^3/sec	0.866	1.266	1.283	1.383	1.266	1.283	1.383

FBQ35D

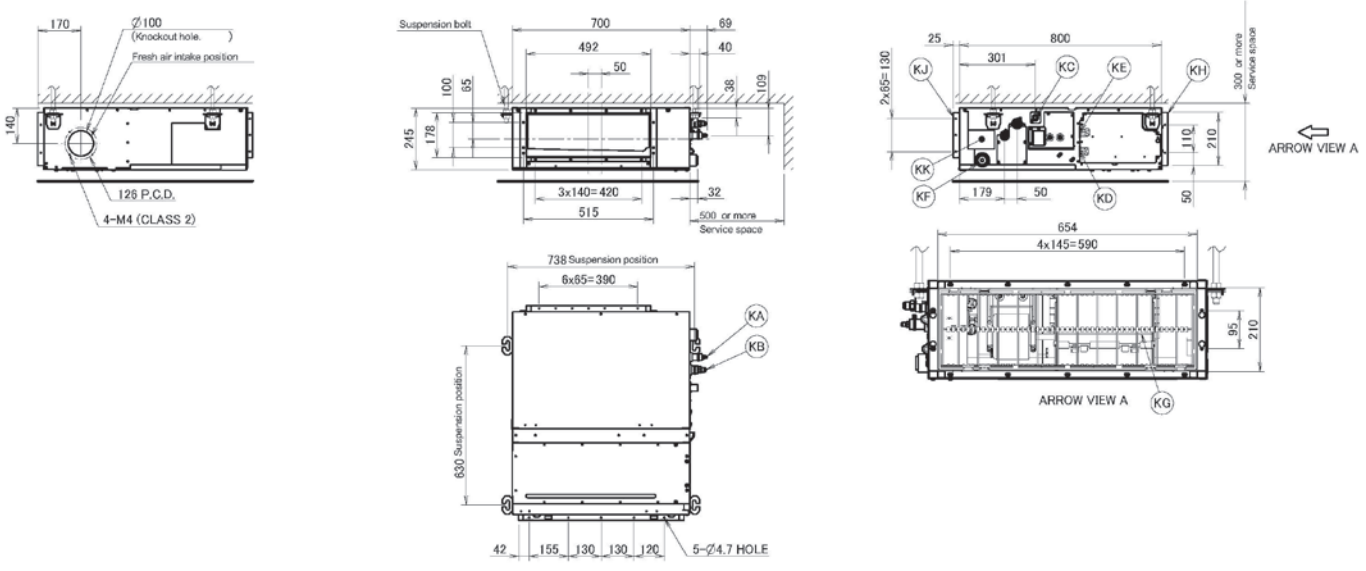


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø9.52 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094988A

FBQ50D

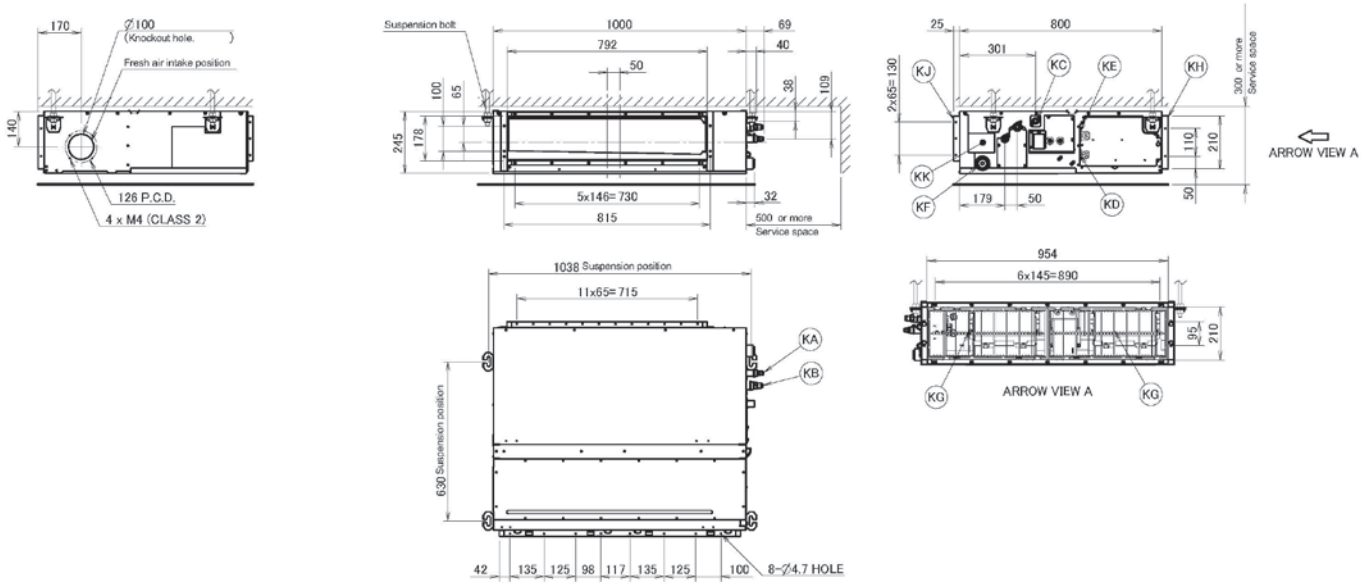


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094918A

FBQ60D

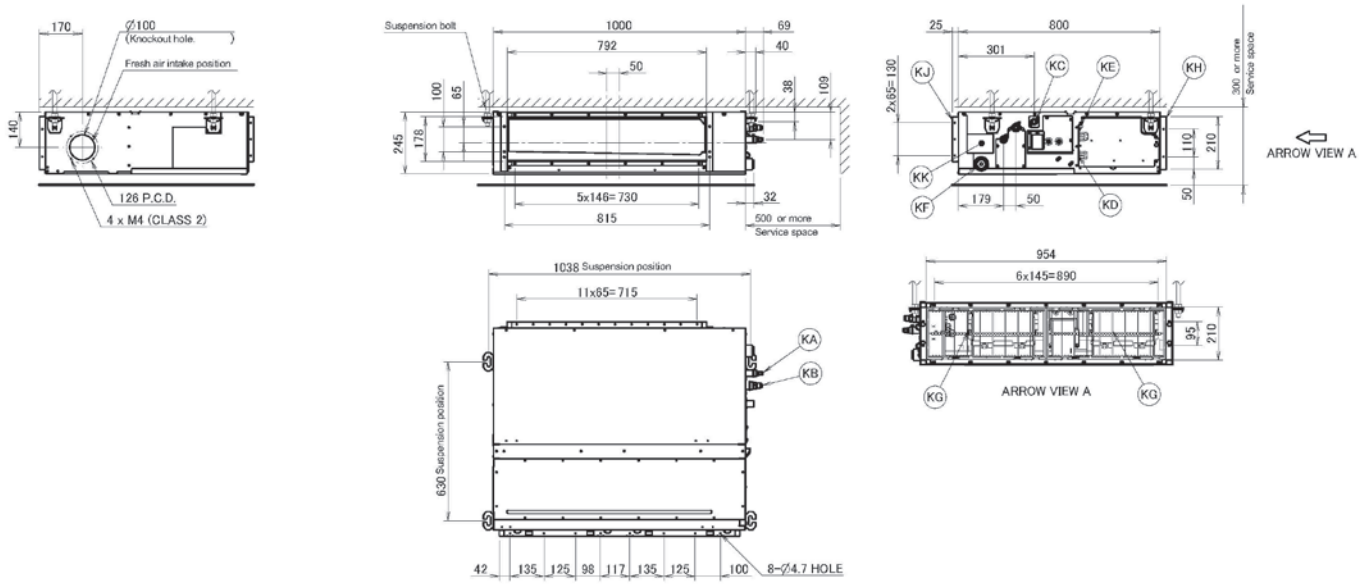


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094983A

FBQ71D

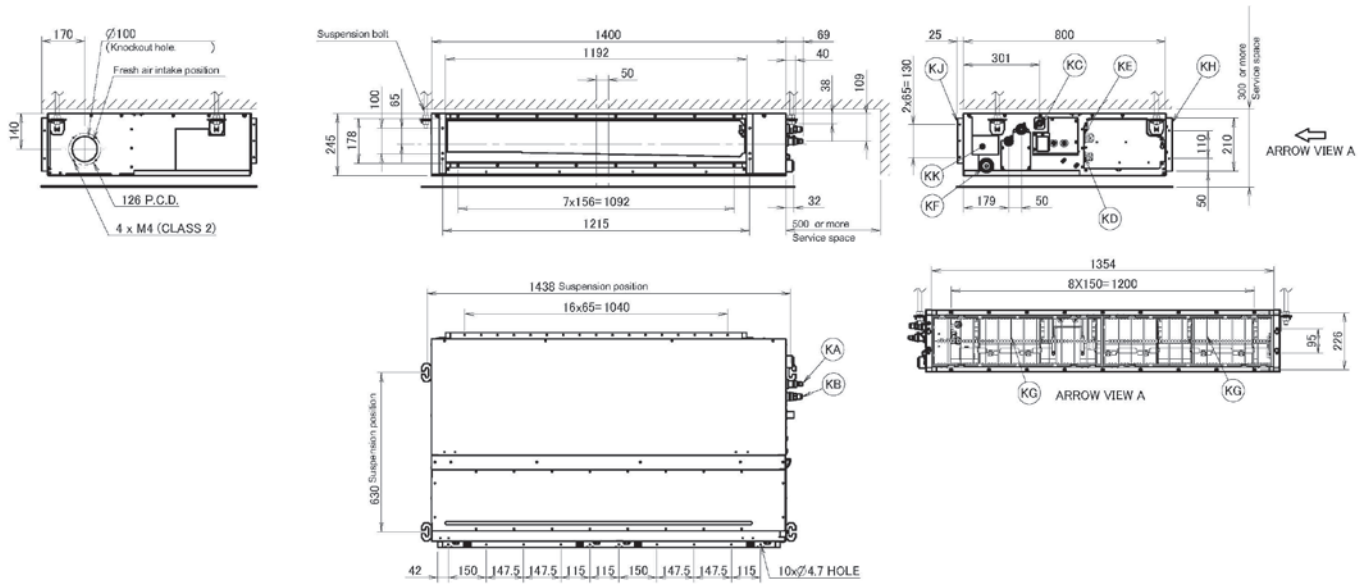


Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094915A

FBQ100-140D

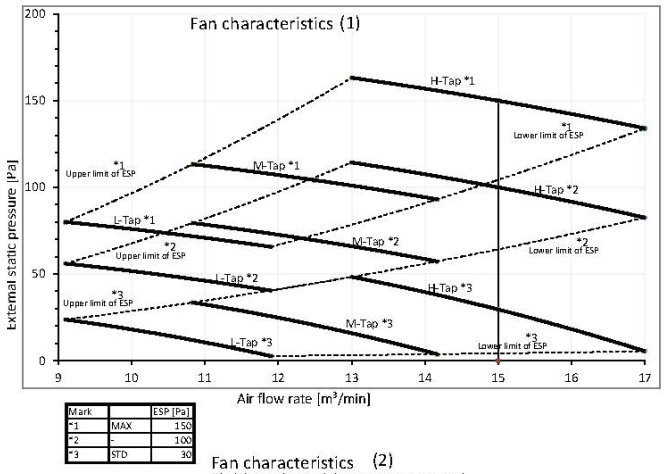


Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

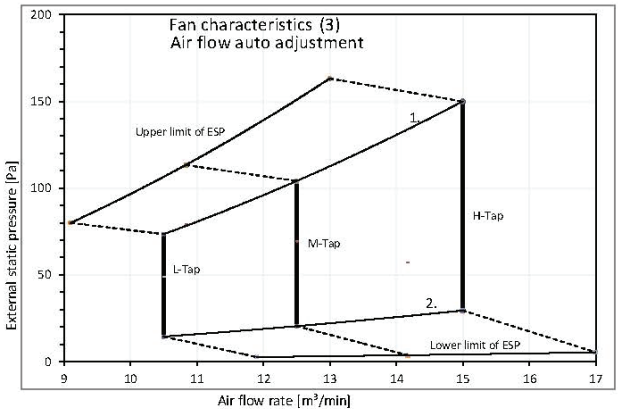
Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094914A

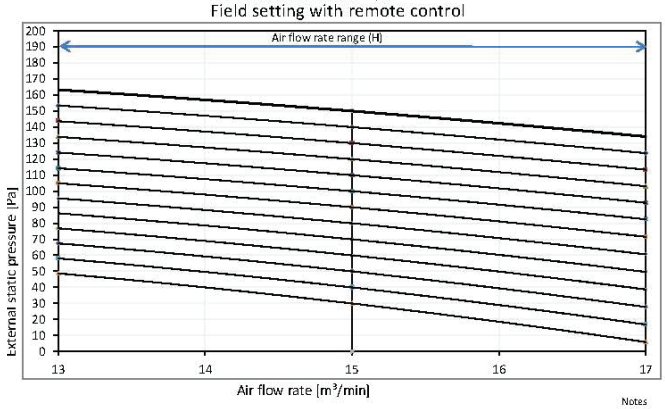
FBQ35-50D



Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	30



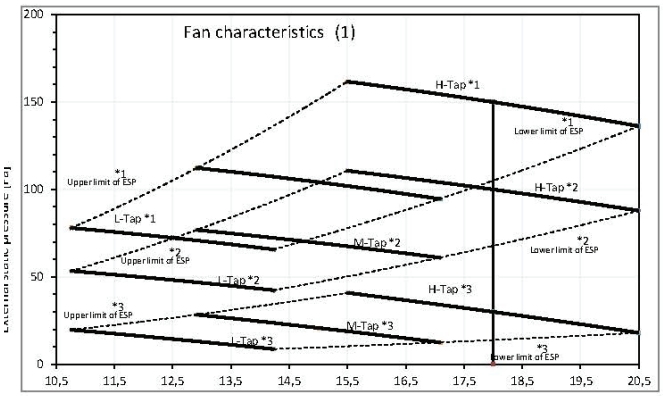
1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment



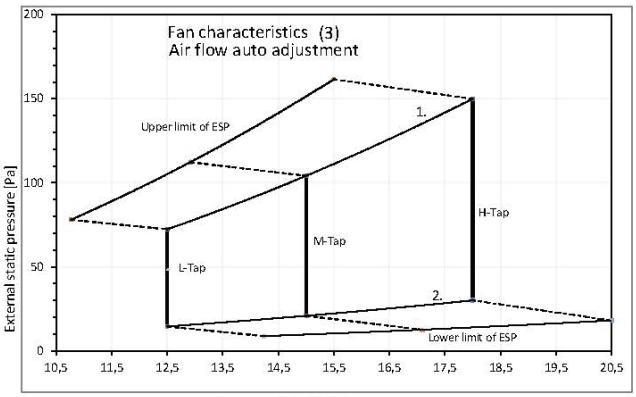
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095521A

FBQ60-71D

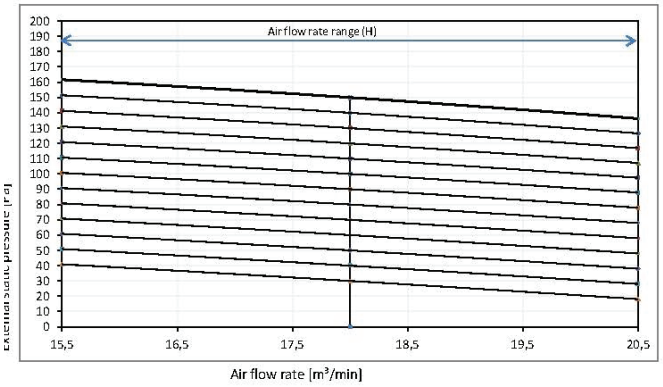


Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	30



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

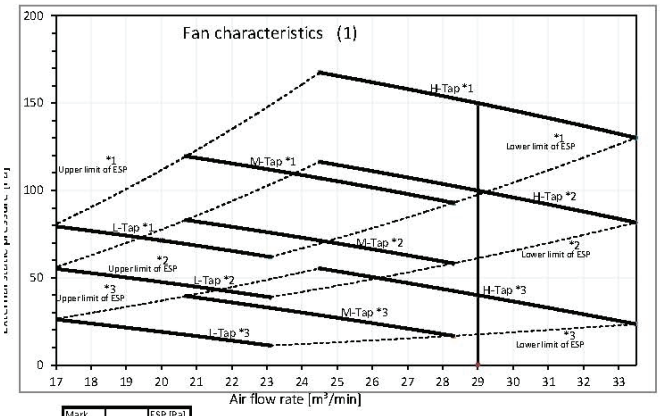
Fan characteristics (2)
Field setting with remote control



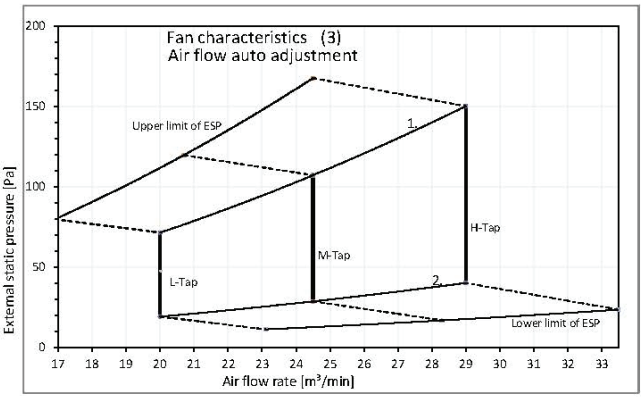
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095524A

FBQ100D

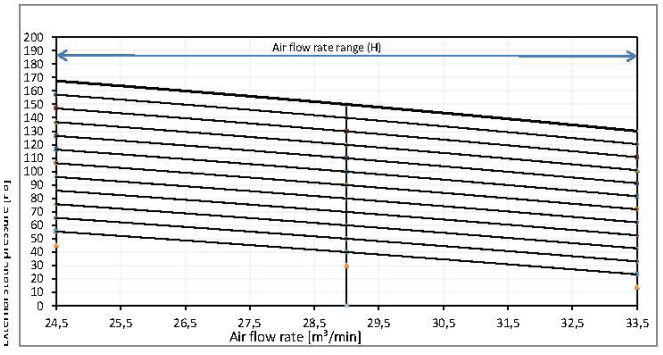


Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	40



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

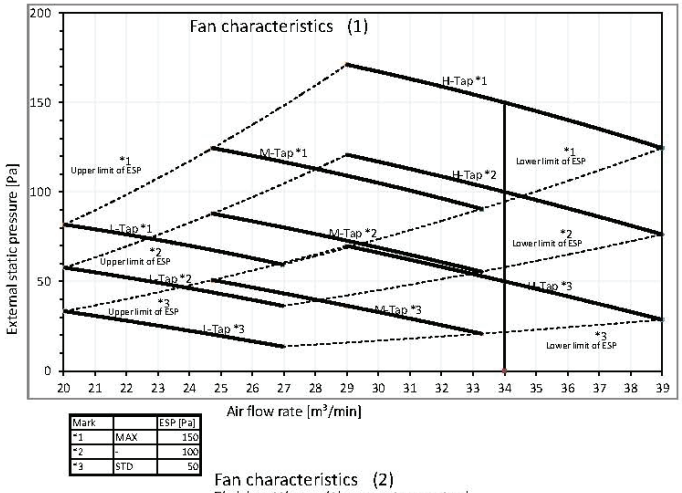
Fan characteristics (2)
Field setting with remote control



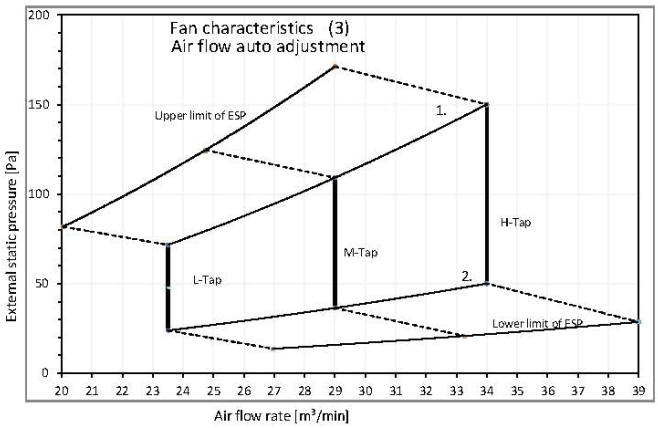
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095526A

FBQ125-140D

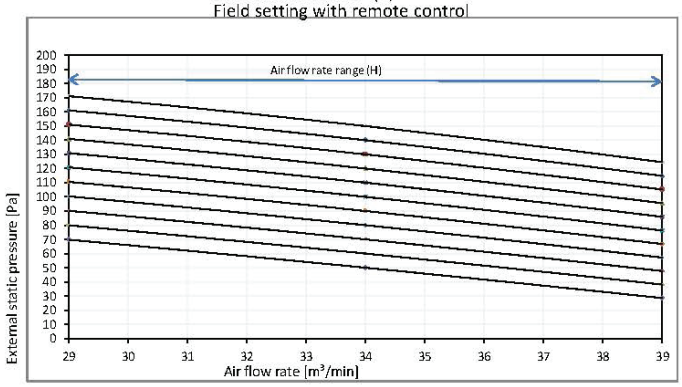


Mark		ESP [Pa]
*1	MAX	150
*2	-	100
*3	STD	50



1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Fan characteristics (2)
Field setting with remote control



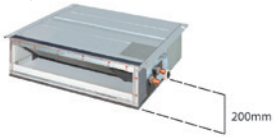
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095527A

Concealed ceiling unit

Compact concealed ceiling unit, with a height of only 200mm

› Compact dimensions, can easily be mounted in a ceiling void of only 240mm



› Medium external static pressure up to 40Pa facilitates unit use with flexible ducts of varying lengths
› Discreetly concealed in the ceiling: only the suction and discharge grilles are visible
› Low energy consumption thanks to DC fan motor
› Optimised heating solution for your home

FDXS25-35F

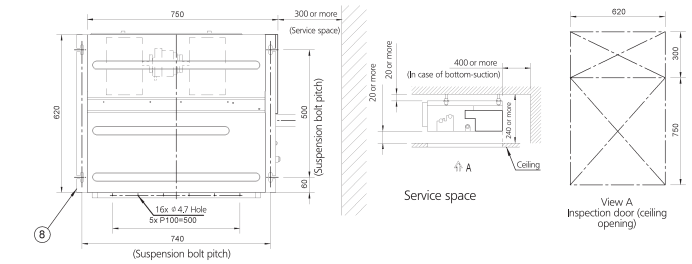
RXS25-35L3

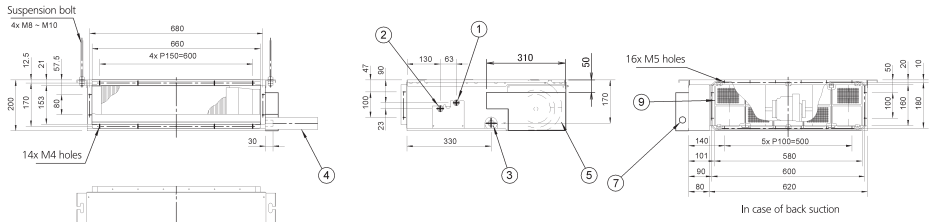
BRC1E52A-B, BRC4C65

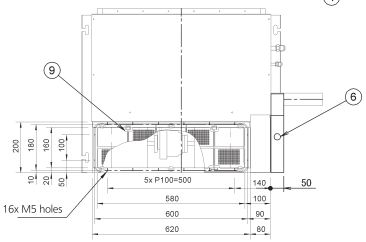
Indoor Units			DC Ducted			Slim Ducted			
			FBQ35D	FBQ50D	FBQ60D	FDXS25F	FDXS35F	FDXS50F9	FDXS60F
Capacity	UK Total Cooling	kW	3.32	4.89	5.57	2.35	3.32	4.81	5.86
	UK Sensible Cooling	kW	2.93	3.55	4.09	1.81	2.26	3.08	3.97
	Nominal Cooling	kW	3.40	5.00	5.70	2.40	3.40	5.00	6.00
	Nominal Heating	kW	4.00	5.50	7.00	3.20	4.00	5.80	7.00
Seasonal Efficiency (EN14825) COOLING	Energy Label		A++	A++	A+	A+	A	A+	A
	Pdesign	kW	3.40	5.00	5.70	2.40	3.40	5.00	6.00
	SEER		6.17	6.21	5.86	5.63	5.21	5.72	5.51
	Annual Energy Consumption	kWh	193	282	340	149	228	306	381
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A+	A+	A	A	A
	Pdesign	kW	2.90	4.40	4.60	2.60	2.90	4.00	4.60
	SCOP		4.07	4.06	4.01	4.24	3.88	3.93	3.80
	Annual Energy Consumption	kWh	998	1517	1606	858	1047	1425	1693
Nominal Efficiency	EER / COP		3.99 / 4.02	3.52 / 3.83	3.45 / 3.71	3.74 / 4.00	2.96 / 3.48	3.03 / 3.1	2.91 / 3.21
	Energy Label		A / A	B / A	B / A	A / A	A / B	B / D	C / C
	Annual Energy Consumption	kWh	426	710	826	325	574	825	1030
Air Flow Rate (Cooling)	High / Nom / Low	m³/sec	0.250 / 0.208 / 0.175	0.250 / 0.208 / 0.175	0.300 / 0.250 / 0.208	0.145 / 0.145 / 0.122	0.145 / 0.145 / 0.122	0.200 / 0.200 / 0.167	0.267 / 0.000 / 0.225
External Static Pressure	High / Nom	Pa	150 / 30			30.0	30.0	40.0	40.0
Dimensions	Height	mm	245			200			
	Width	mm	700		1000	750		1150	
	Depth	mm	800			620			
Weight		kg	28		35	21		30	
Sound Pressure (Cooling)	High / Nom / Low	dBA	35 / 32 / 29	35 / 32 / 29	30 / 28 / 25	35 / 33 / 27	35 / 33 / 27	38 / 36 / 30	38 / 36 / 30
Sound Power		dBA	60	60	55	53	53	55	56

Outdoor Units			RXS35L3	RXS50L	RXS60L	RXS25L3	RXS35L3	RXS50L	RXS60L
Dimensions	Height x Width x Depth	mm	550 x 765 x 285	735 x 825 x 300	735 x 825 x 300	550 x 765 x 285	550 x 765 x 285	735 x 825 x 300	735 x 825 x 300
Weight		kg	34	47	48	34	34	47	48
Electrical Details	Power Supply		1ph (refer to databook)			1ph			
	Running Current	A	4.6	7.2	9.2	3.90	4.90	7.10	9.20
	Starting Current	A	4.3	6.8	10.2	3.3	4.3	6.8	10.2
	Max Fuse Size	A	10	20	20	10	10	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5	3+E / 1.5		3+E / 1.5		3+E / 1.5	
Piping Connections	Liquid / Gas	inches (mm)	1/4 (6.4) / 3/8 (9.5)	1/4 (6.4) / 1/2 (12.7)		1/4 (6.4) / 3/8 (9.5)		1/4 (6.4) / 1/2 (12.7)	
Pipework	Maximum Length	m	20	30	30	20	20	30	30
	Maximum Vertical Rise	m	15	20	20	15	15	20	20
	Precharged to	m	10	10	10	10	10	10	10
	Additional Charge	g/m	20			20			
	Holding Charge	kg	1.2	1.7	1.5	1.0	1.2	1.7	1.5
Sound Pressure (Cooling)	High / Silent Operation	dBA	48 / 44	48 / 44	49 / 46	46 / 43	48 / 44	48 / 44	49 / 46
Sound Power		dBA	61	61	62	59	61	61	62
Air Flow Rate (Cooling)	High	m³/sec	0.600	0.848	0.836	0.558	0.600	0.484	0.836

FDXS25-35F





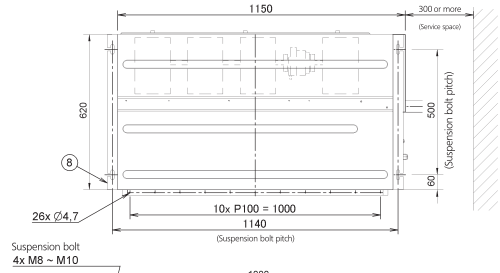


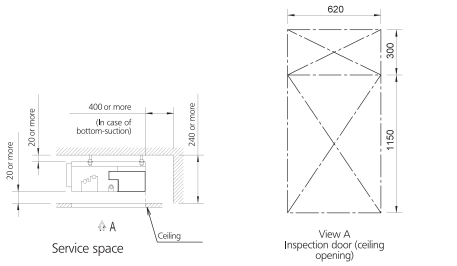
1	Liquid pipe connection	Φ 6,4 Flare connection
2	Gas pipe connection	Φ 9,5 Flare connection
3	Socket for drain	VP 20 (OD Φ 26, ID Φ 20)
4	Drain hose (accessory)	ID Φ 25 (Outlet)
5	control box	
6	Transmission wring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

Note:
1. In case of back-suction, mount chamber cover to bottom side of the unit.
   In case of bottom-suction, mount chamber cover to back side of the unit.
2. Location of unit's name plate: control box cover.
3. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique.) It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D081343

FDXS50F9



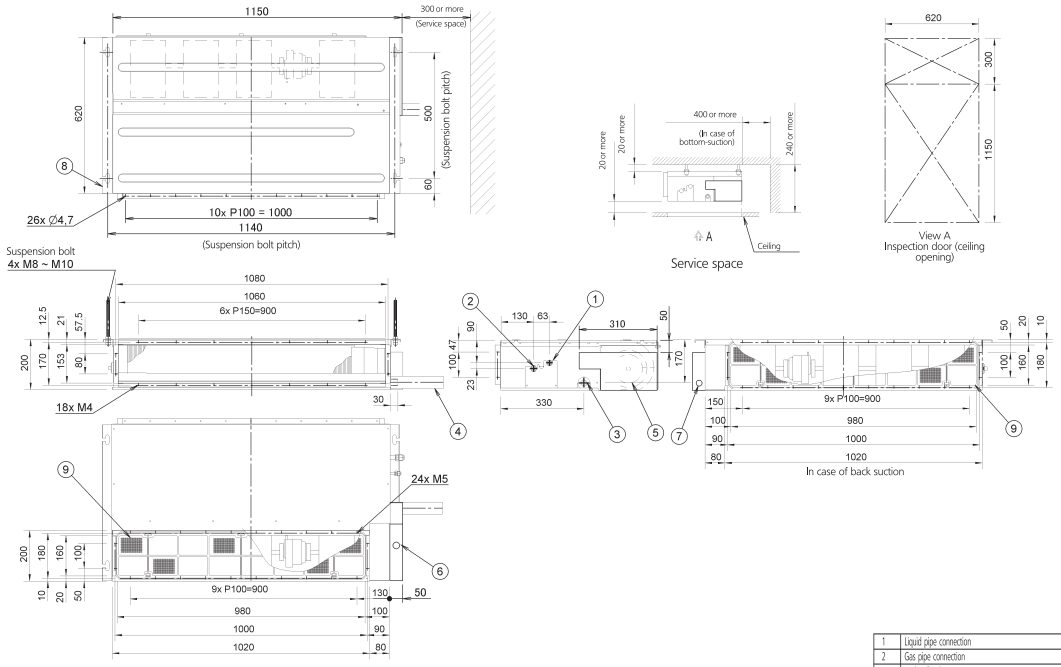


1	Liquid pipe connection	Φ 6,4 Flare connection
2	Gas pipe connection	Φ 12,7 Flare connection
3	Socket for drain	VP 20 (OD Φ 26, ID Φ 20)
4	Drain hose (accessory)	ID Φ 25 (Outlet)
5	control box	
6	Transmission wring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

Note:
1. In case of back-suction, mount chamber cover to bottom side of the unit.
   In case of bottom-suction, mount chamber cover to back side of the unit.
2. Location of unit's name plate: control box cover.
3. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique). It can not be equipped with air filter (accessory) when connecting duct to suction side.

3D085963

FDXS60F

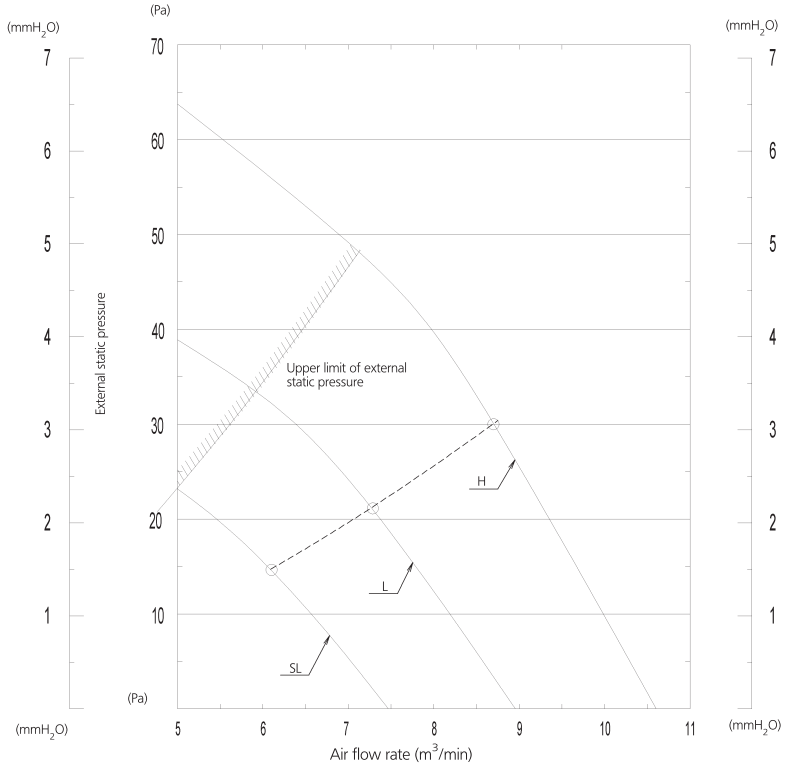


1	Liquid pipe connection	Φ 6,4 Flare connection
2	Gas pipe connection	Φ 12,7 Flare connection
3	Socket for drain	VP 20 (OD Φ 26, ID Φ 20)
4	Drain hose (accessory)	ID Φ 25 (Outlet)
5	control box	
6	Transmission wiring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

Note:
1. In case of back-suction, mount chamber cover to bottom side of the unit.
   In case of bottom-suction, mount chamber cover to back side of the unit.
2. Location of unit's name plate: control box cover.
3. Mount the air filter at the suction side. (Use an air filter whose dust collecting efficiency is at least 50% in a gravimetric technique.) It can not be equipped with air filter (accessory) when connecting duct to suction side.

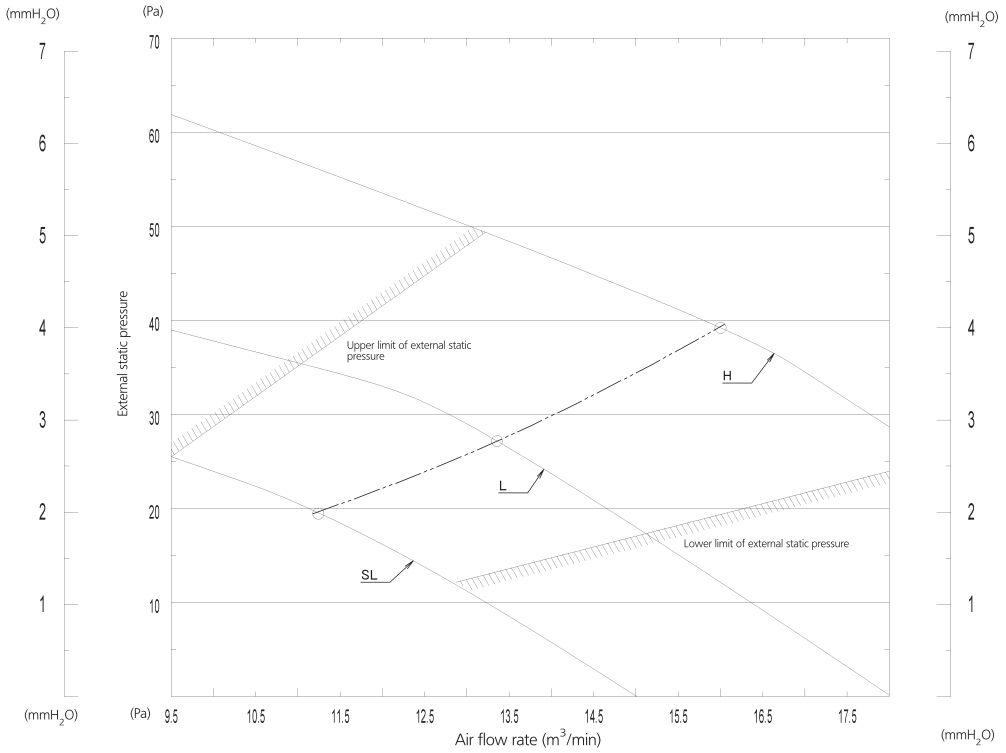
3D081360

FDXS25-35F



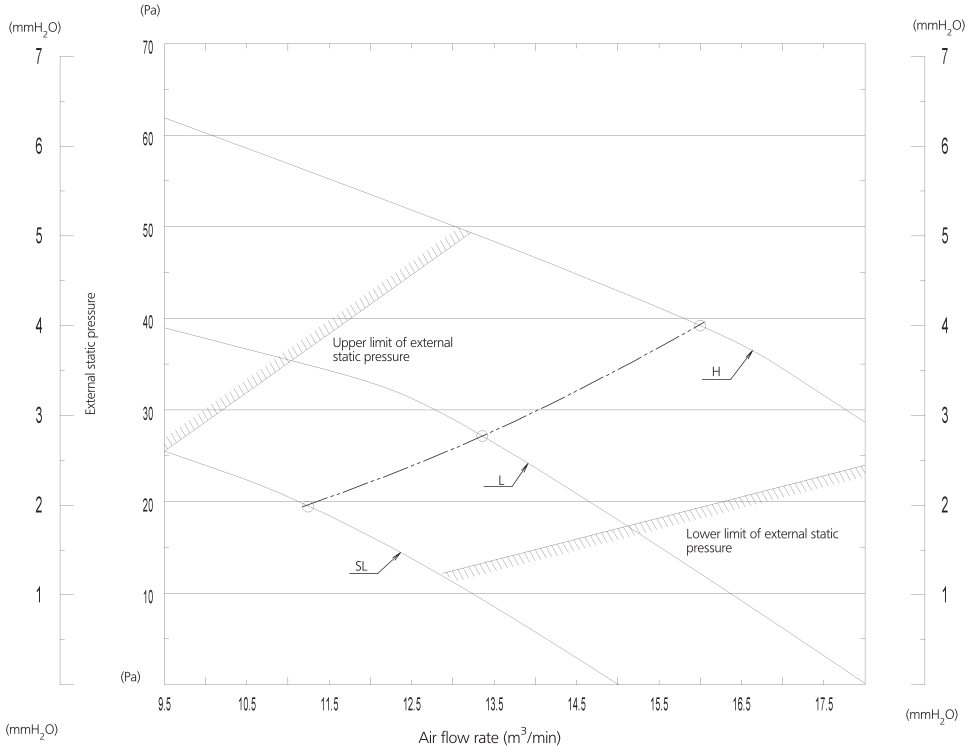
3D081327

FDXS50F9



3D085960

FDXS60F



3D081329

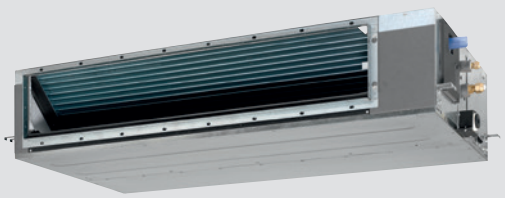
Seasonal Classic

Seasonal Smart

Concealed ceiling unit with high ESP

ESP up to 200, ideal for large sized spaces

- Seasonal Smart ensures the best in quality, highest efficiency and performance. Seasonal Classic gives value for money
- Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, whatever the length of duct, making installation easier and guaranteeing comfort. Moreover, the ESP can be changed via the wired remote control to optimise the supply air volume
- High external static pressure up to 200Pa facilitates using flexible ducts of varying lengths
- Discreetly concealed in the ceiling: only the suction and discharge grilles are visible
- Reduced energy consumption thanks to specially developed DC fan motor
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Flexible installation, as the air suction direction can be altered from rear to bottom suction
- Standard built-in drain pump increases flexibility and installation speed
- No optional adapter needed for DIII-connection, link your unit into the wider building management system



FDQ125C

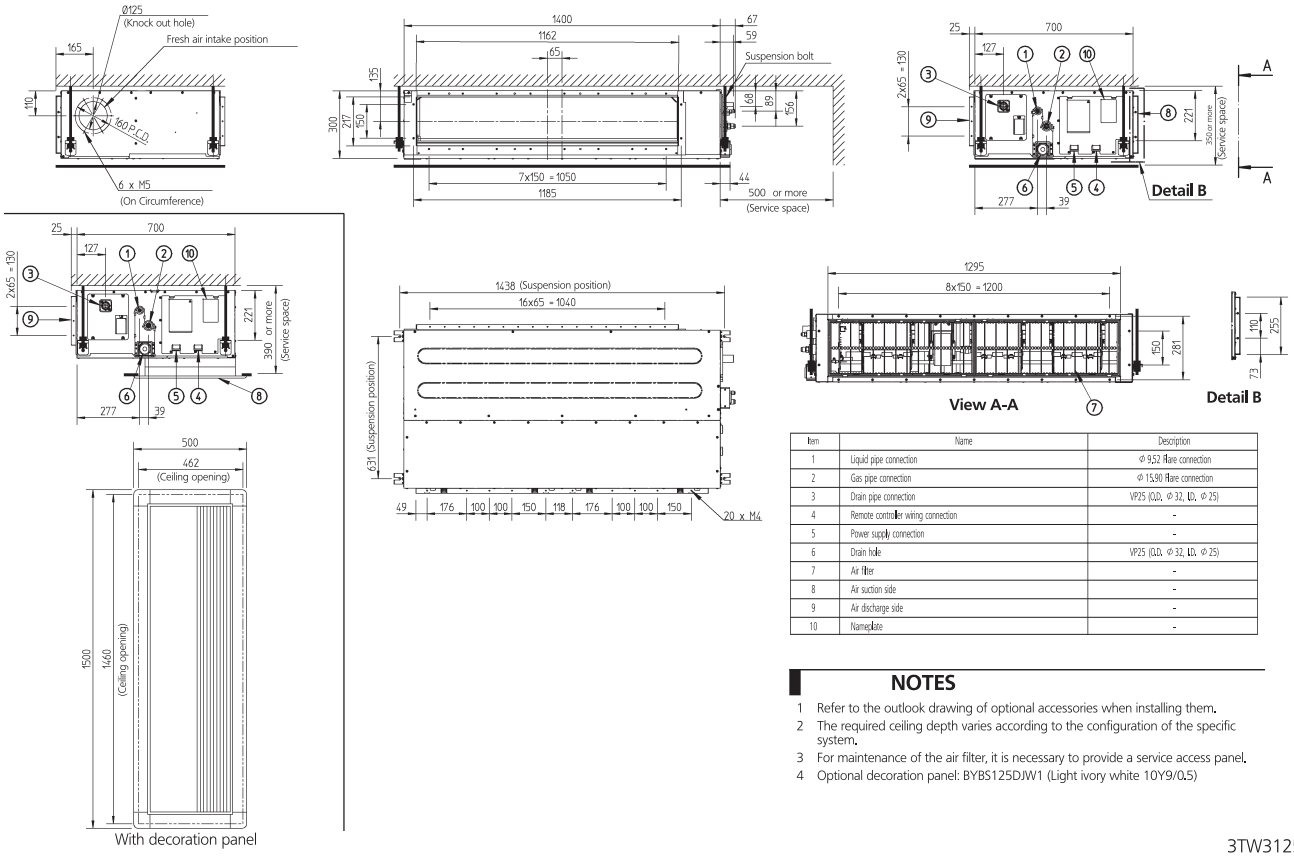
RZQSG125L3/9V1/L(8)Y1

BRC1E52A-B, BRC4C65

Indoor Units			Single Phase	3 Phase	Single Phase	3 Phase
			FDQ125C	FDQ125C	FDQ125C	FDQ125C
Capacity	UK Total Cooling	kW	13.60	13.60	13.60	13.60
	UK Sensible Cooling	kW	9.30	9.30	9.30	9.30
	Nominal Cooling	kW	12.00	12.00	12.00	12.00
	Nominal Heating	kW	13.50	13.50	13.50	13.50
Seasonal Efficiency (EN14825) COOLING	Energy Label		A+	A+	A	A
	Pdesign	kW	12.00	12.00	12.00	12.00
	SEER		5.81	5.81	5.20	5.20
	Annual Energy Consumption	kWh	723	723	807	807
Seasonal Efficiency (EN14825) HEATING	Energy Label		A+	A+	A	A
	Pdesign	kW	12.71	12.71	7.60	7.60
	SCOP		4.21	4.21	3.90	3.90
	Annual Energy Consumption	kWh	4227	4227	2729	2729
Nominal Efficiency	EER / COP		3.75 / 3.83	3.75 / 3.83	3.21 / 3.51	3.21 / 3.51
	Energy Label		A / A	A / A	A / B	A / B
	Annual Energy Consumption	kWh	1600	1600	1870	1600
Air Flow Rate	High / Nom	m^3/sec	0.650 / 0.467	0.650 / 0.467	0.650 / 0.467	0.650 / 0.467
External Static Pressure	High / Nominal	Pa	200 / 50	200 / 50	200 / 50	200 / 50
Dimensions	Height	mm	300	300	300	300
	Width	mm	1400	1400	1400	1400
	Depth	mm	700	700	700	700
Weight		kg	45	45	45	45
Sound Pressure	High / Low	dBA	40 / 33	40 / 33	40 / 33	40 / 33
Sound Power		dBA	66	66	66	66

Outdoor Units			RZQG125L9V1	RZQG125L8Y1	RZQSG125L9V1	RZQSG125L8Y1
Dimensions	Height x Width x Depth	mm	1430 x 940 x 320	1430 x 940 x 320	990 x 940 x 320	990 x 940 x 320
Weight		kg	95	101	75	82
Electrical Details	Power Supply		1ph - see notes	3ph - see notes	1ph - see notes	3ph - see notes
	Running Current	A	14.80	4.89	17.30	5.72
	Starting Current	A	4	4	4	4
	Max Fuse Size	A	32	20	32	20
Interconnection Wiring	Core / Cable size		3+E / 1.5			
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)			
Pipework	Maximum Length	m	75	75	50	50
	Maximum Vertical Rise	m	30	30	30	30
	Precharged to	m	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual			
	Holding Charge	kg	4.0	4.0	2.9	2.9
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	51 / 45	51 / 45	54 / 49	54 / 49
Sound Power		dBA	67	67	70	70
Air Flow Rate (Cooling)	High	m^3/sec	1.166	1.166	1.283	1.283

FDQ125C



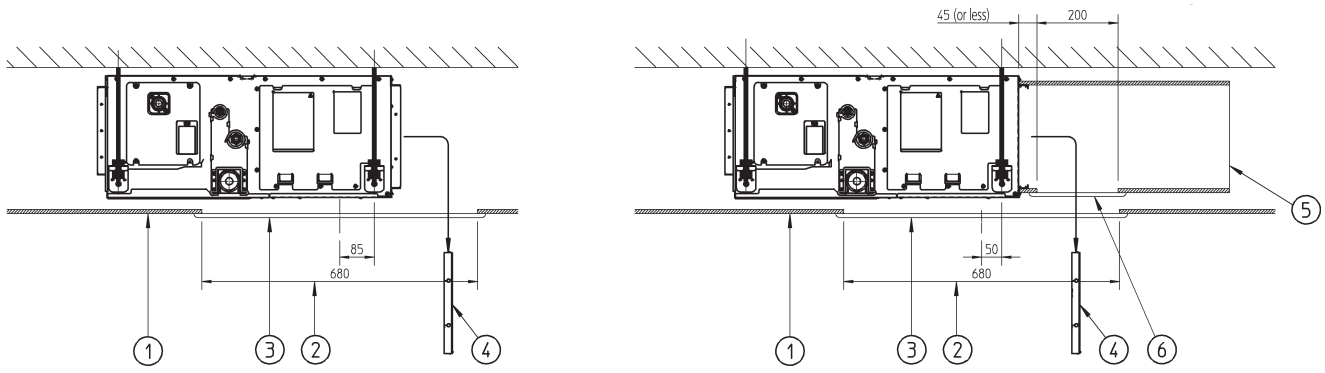
Item	Name	Description
1	Liquid pipe connection	Φ 9.52 flare connection
2	Gas pipe connection	Φ 15.90 flare connection
3	Drain pipe connection	VP25 (O.D. Φ 32, I.D. Φ 25)
4	Remote controller wiring connection	-
5	Power supply connection	-
6	Drain hole	VP25 (O.D. Φ 32, I.D. Φ 25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

NOTES

1 Refer to the outlook drawing of optional accessories when installing them.
2 The required ceiling depth varies according to the configuration of the specific system.
3 For maintenance of the air filter, it is necessary to provide a service access panel.
4 Optional decoration panel: BYBS125DJW1 (Light ivory white 10Y9/0.5)

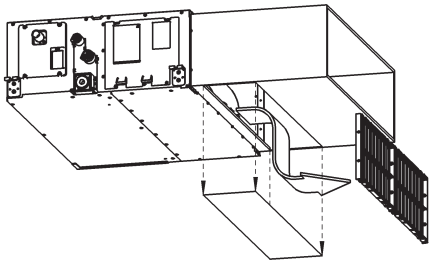
3TW31254-1B

FDQ125C



Installation without air inlet duct

Installation with air inlet duct



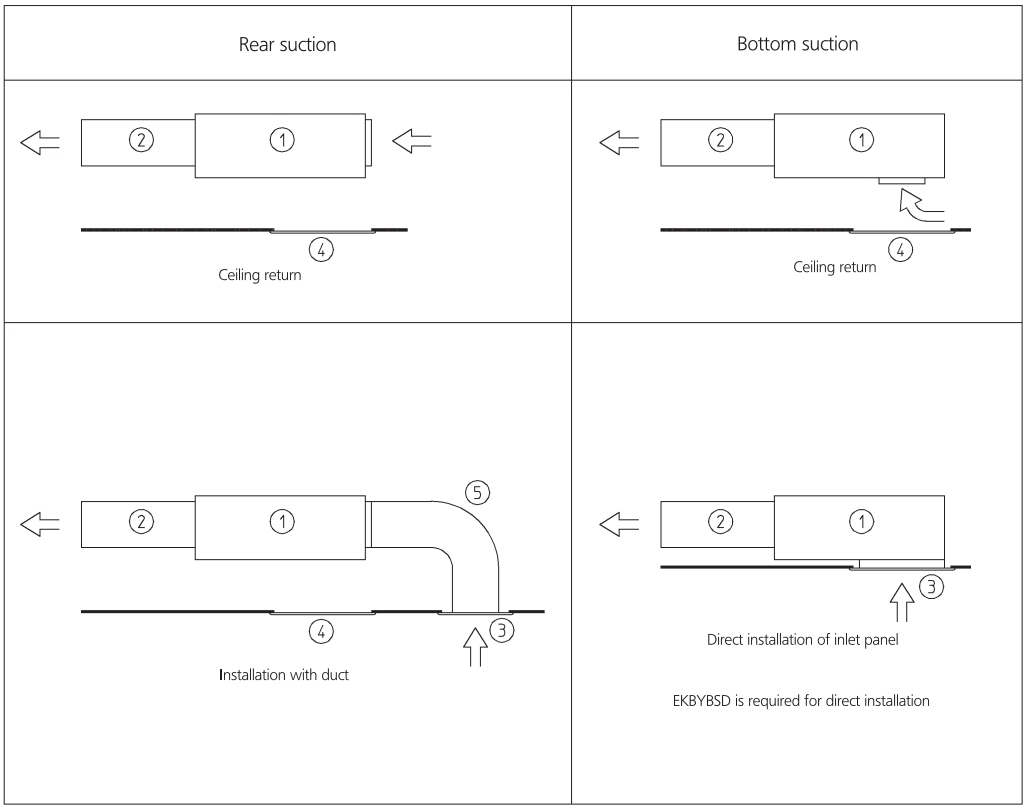
Number	Description
1	Suspended ceiling
2	Ceiling opening
3	Service access panel (optional)
4	Air filter
5	Air inlet duct
6	Duct service opening

NOTES

1 When installing the unit with rear suction, a service opening is necessary for the maintenance of the air filters.
2 When installing the unit with a suction duct, a service opening must be provided in the duct.

3TW31184-4

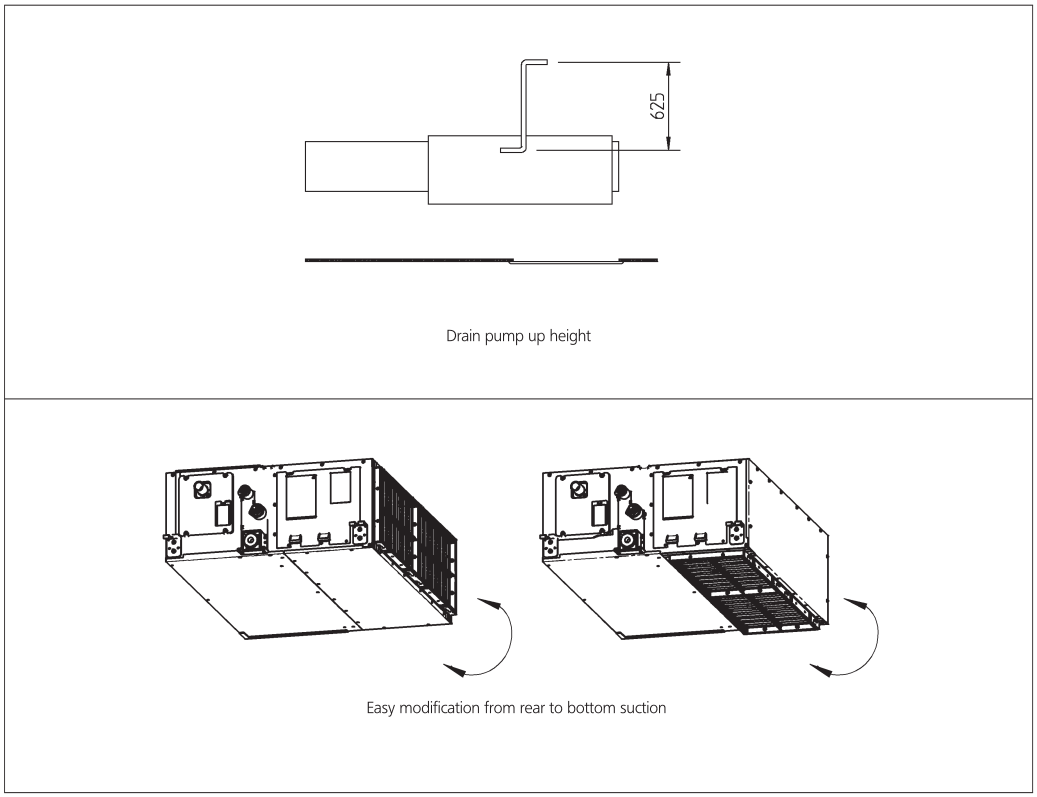
GNC



Wide variety of installation methods

Number	Description	
1	Main body	
2	Air outlet duct	Field supply
3	Inlet panel	Optional accessory
4	Access panel	Optional accessory
5	Air inlet duct	Field supply

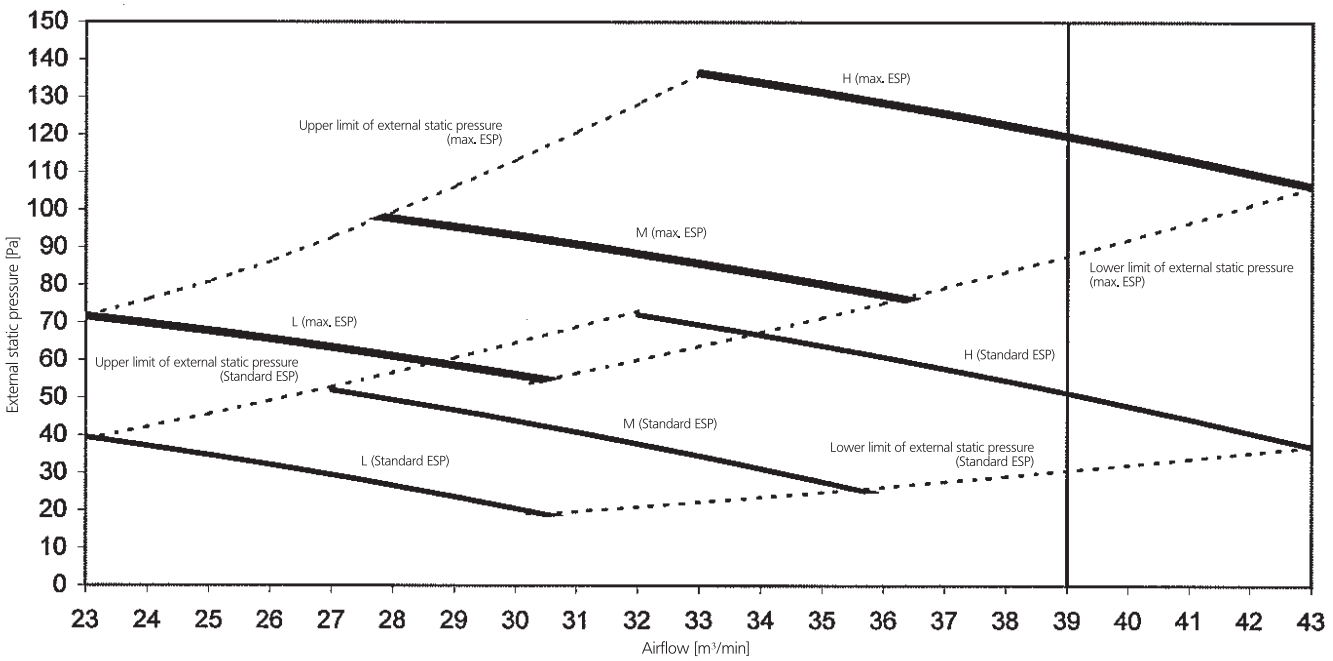
3TW31183-1A



3TW31183-1A

FDQ125C

Fan characteristics (1)



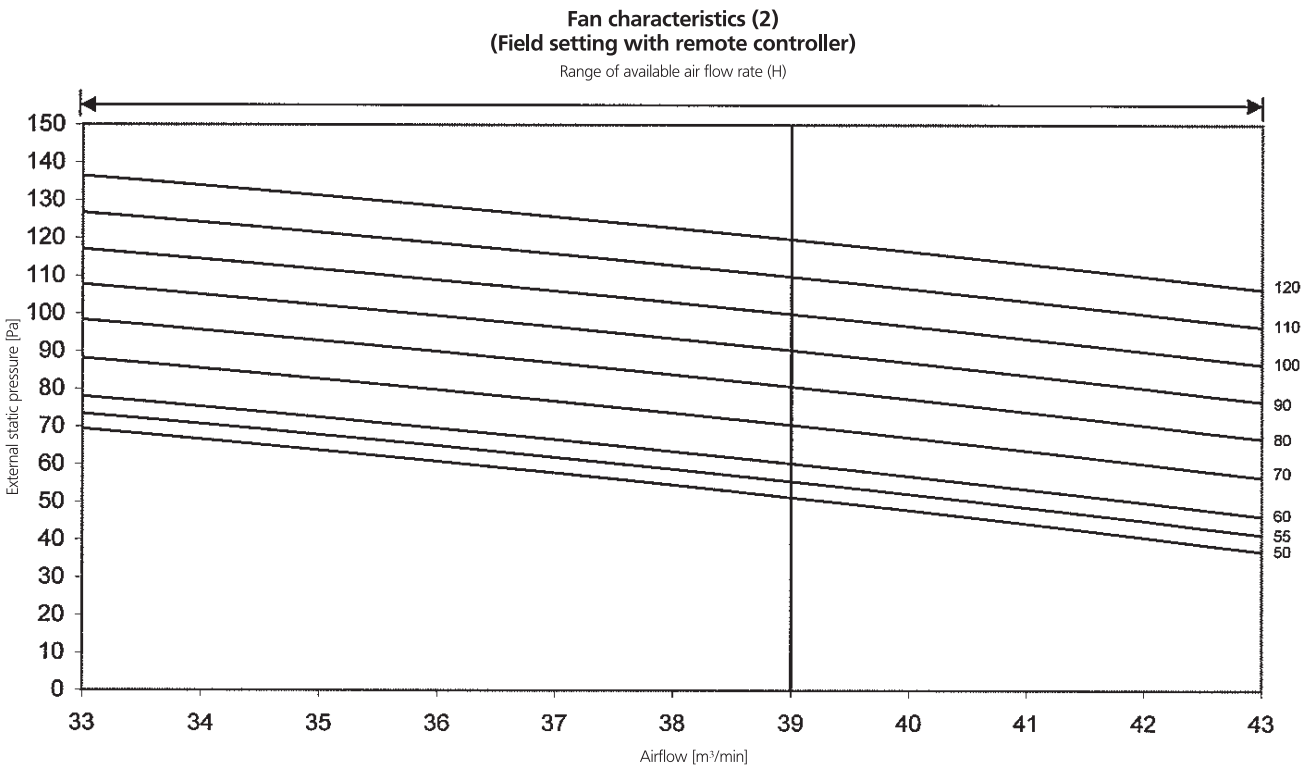
NOTES

1 Fan characteristics as shown are in 'fan only' mode
2 ESP: External static pressure

3TW31268-1

FDQ125C

Fan characteristics (2)
(Field setting with remote controller)



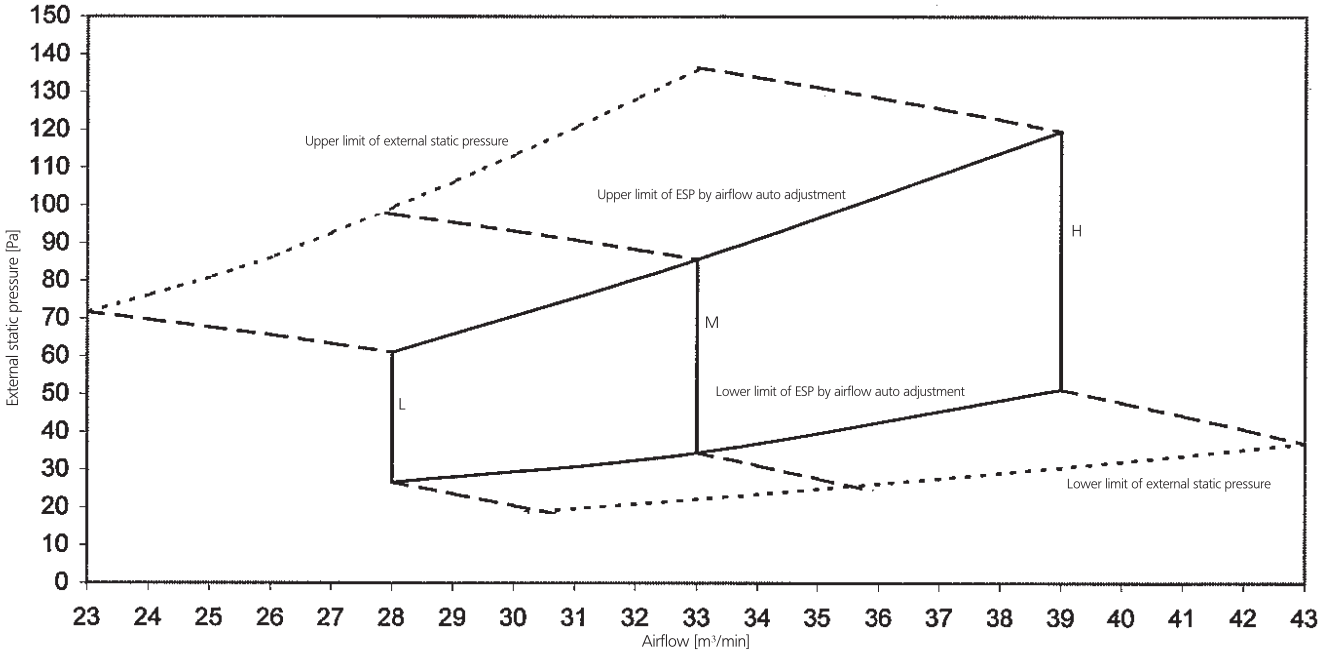
NOTES

1 Fan characteristics as shown are in 'fan only' mode
2 ESP: External static pressure

3TW31268-1

FDQ125C

Fan characteristics (3)
(airflow auto adjustment)



NOTES

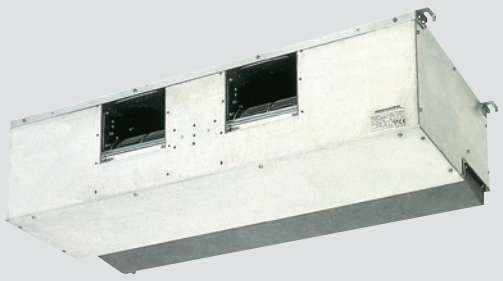
1 Fan characteristics as shown are in 'fan only' mode
2 ESP: External static pressure

3TW31268-1

Concealed ceiling unit with high ESP

ESP up to 250, ideal for extra large sized spaces

› High external static pressure up to 250Pa facilitates using flexible ducts of varying lengths
› Discreetly concealed in the ceiling: only the suction and discharge grilles are visible
› Up to 26.4kW in heating mode



FDQ-B

RZQ200-250C

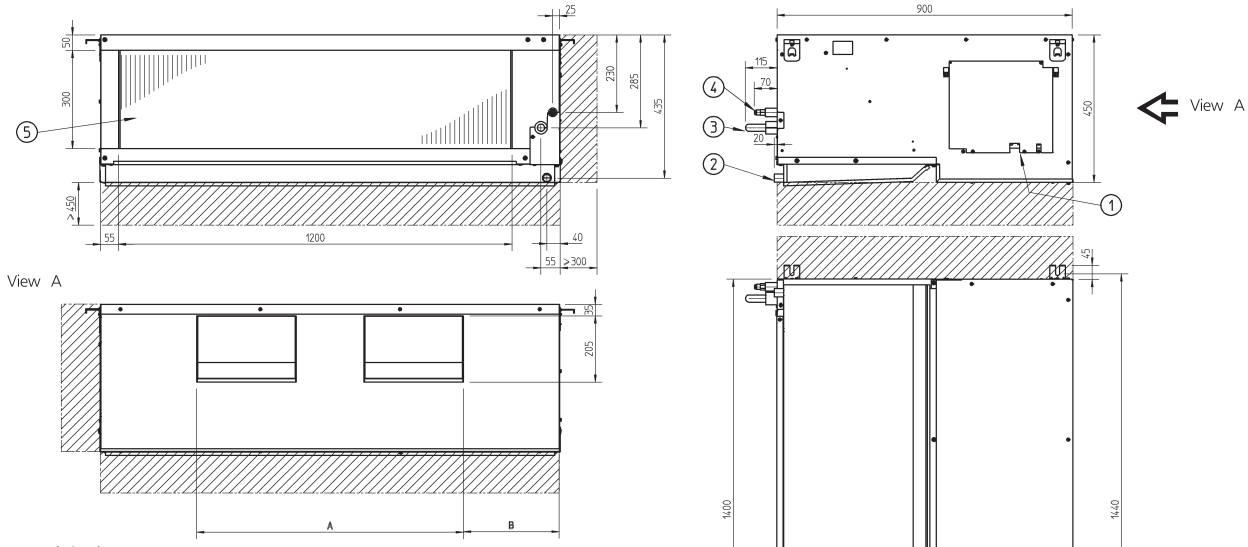
BRC1E52A-B

Indoor Units			Super Inverter (3 phase)	
			FDQ200B	FDQ250B
Capacity	UK Total Cooling	kW	19.40	23.50
	UK Sensible Cooling	kW	16.30	20.70
	Nominal Cooling	kW	20.00	25.00
	Nominal Heating	kW	23.00	27.00
Seasonal Efficiency (EN14825) COOLING	Energy Label		-	-
	Pdesign	kW	-	-
	SEER		-	-
	Annual Energy Consumption	kWh	-	-
Seasonal Efficiency (EN14825) HEATING	Energy Label		-	-
	Pdesign	kW	-	-
	SCOP		-	-
	Annual Energy Consumption	kWh	-	-
Nominal Efficiency	EER / COP		3.21 / 3.41	2.81 / 3.21
	Energy Label		A / B	C / C
	Annual Energy Consumption	kWh	3115	4290
Air Flow Rate	High / Nom	m^3/sec	1.150 / 1.150	1.483 / 1.483
External Static Pressure	High / Nominal	Pa	250 / 250	250 / 250
Dimensions	Height	mm	450	450
	Width	mm	1400	1400
	Depth	mm	900	900
Weight		kg	89	94
Sound Pressure	High / Low	dBA	45 / 45	47 / 47
Sound Power		dBA	81	82

Outdoor Units			RZQ200C	RZQ250C
Dimensions	Height x Width x Depth	mm	1680 x 930 x 765	1680 x 930 x 765
Weight		kg	183	184
Electrical Details	Power Supply		3ph - see notes	
	Running Current	A	4.61	6.35
	Starting Current	A	4	4
	Max Fuse Size	A	25	25
Interconnection Wiring	Core / Cable size		3+E / 1.5	
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 7/8 (22.2)	1/2 (12.7) / 7/8 (22.2)
Pipework	Maximum Length	m	100	100
	Maximum Vertical Rise	m	30	30
	Precharged to	m	30	30
	Additional Charge	g/m	Refer to Installation Manual	
	Holding Charge	kg	8.3	9.3
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	57 / -	57 / -
Sound Power		dBA	78	78
Air Flow Rate (Cooling)	High	m^3/sec	2.850	2.850

FDQ200-250B / FDYP200-250B

unit (mm)



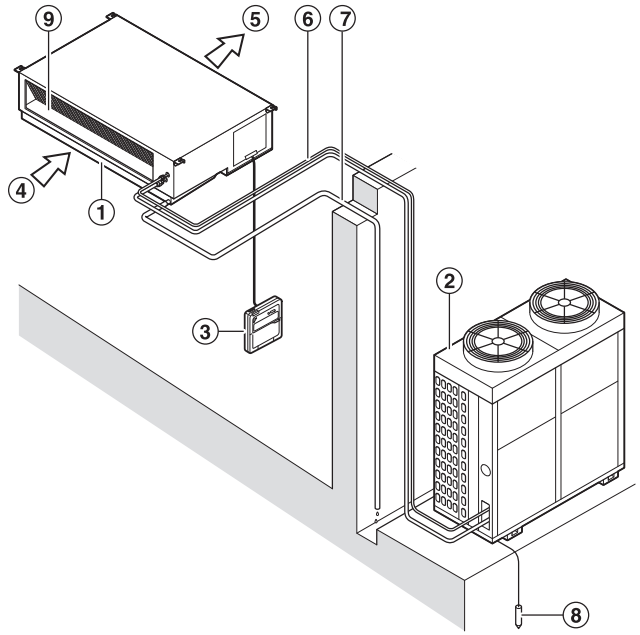
① Power supply intake
② Drain connection ϕ25 O.D.
③ Gas pipe connection
FDYP200B/250B :1 1/8" O.D. or 28,6 mm
FDQ200/250 :7/8" O.D. or 22,2 mm O.D.
④ Liquid pipe connection
FDYP200B : Single union joint 1/2" or 12.7mm
FDYP250B : Single union joint 5/8" or 15.9mm
FDQ200 : Single union joint 3/8" or 9,52 mm
FDQ250 : Single union joint 1/2" or 12.7mm
⑤ Filter

Notes:
▨ : Service space

Model	A	B
FDYP200B8V19/FDQ200B8V3B9	830	285
FDYP250B8V19/FDQ250B8V3B9	890	255

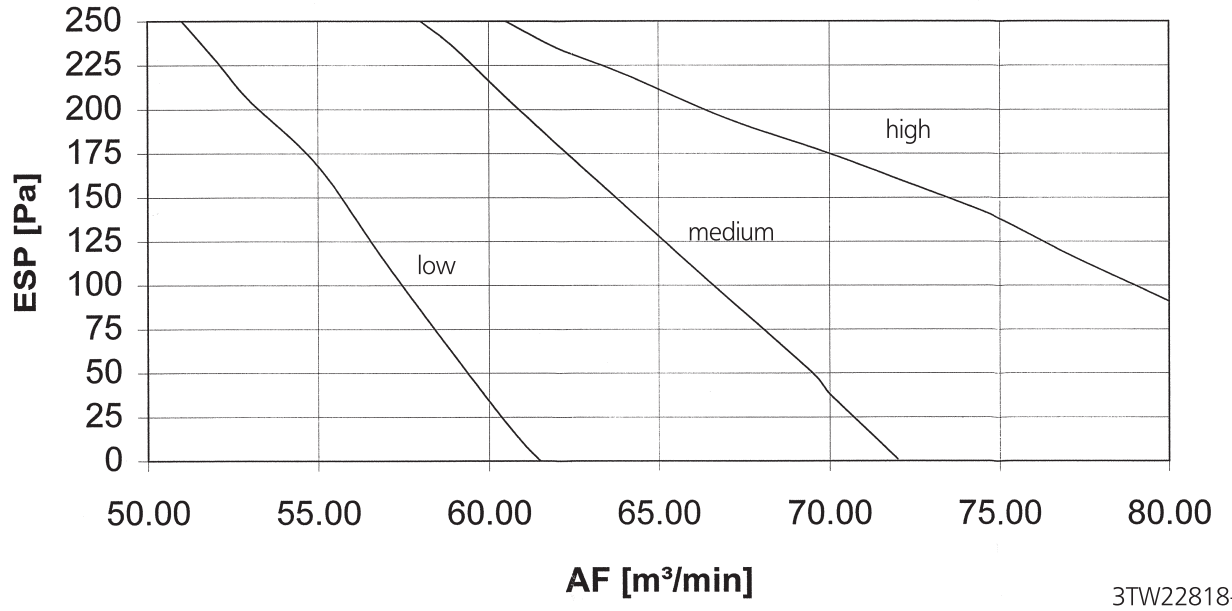
3TW30844-1

FDQ-B



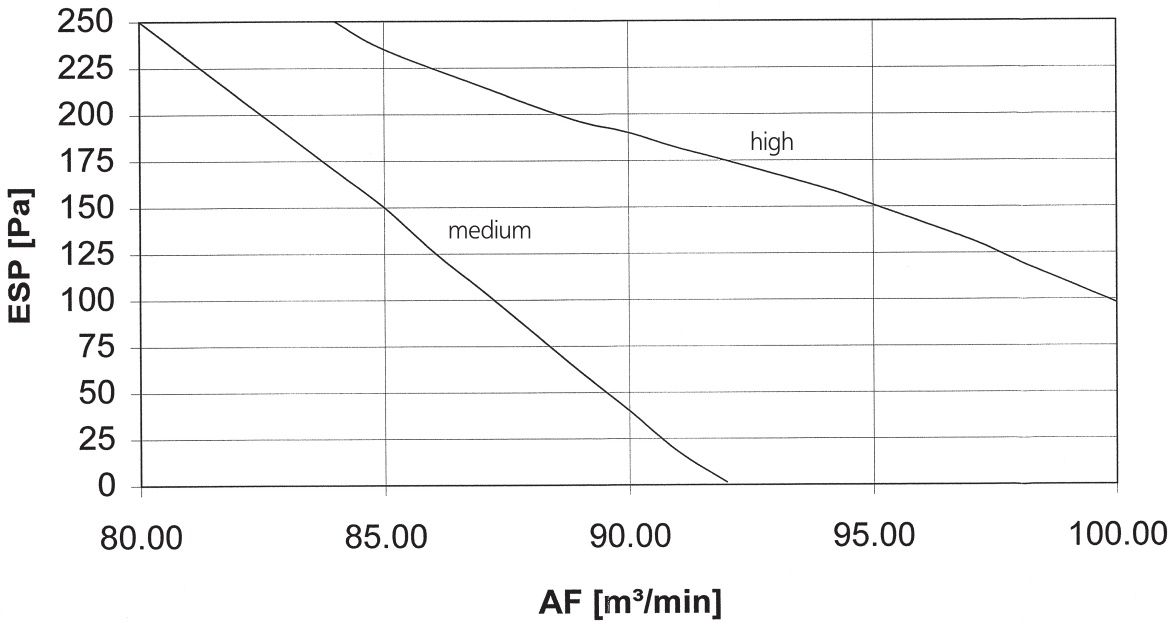
Number	Description
1	Indoor unit
2	Outdoor unit
3	Remote control
4	Inlet air
5	Discharged air
6	Refrigerant piping, connection electric wire
7	Drain pipe
8	Ground wire Wire to ground from the outdoor unit to prevent electrical shocks.
9	Air filter

FDQ200B7



3TW22818-1

FDQ200B7

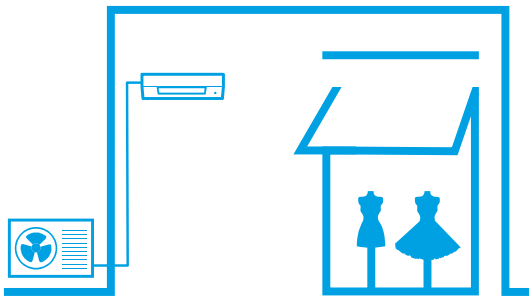


3TW22828-1

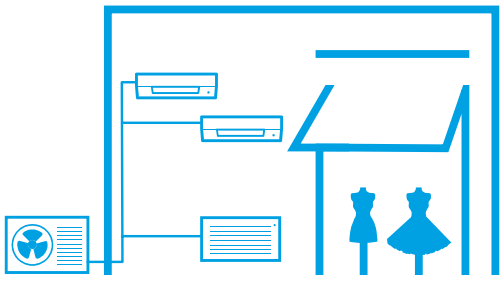
Sky Air and Multi outdoor units

A range of industry leading technology outdoor units for residential and light commercial applications

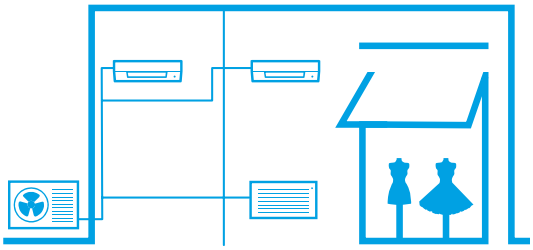
Pair solution



Twin, triple, double twin solution



Multi solution



Benefits for the installer

› Less piping required as all the indoor units can be connected to one single outdoor unit

Benefits for the consultant

› Ideal solution for long or irregularly shaped rooms
› Up to 4 indoor units can be connected to a single outdoor unit
› The air flow is evenly spread into the area, as smaller indoor units are installed in different locations around the room

Benefits for the end user

› All the indoor units are controlled at the same time and by using a single wired remote controller
› Only 1 outdoor unit on a roof, terrace or against an outside wall to control up to 4 indoor units
› Same comfortable feeling throughout the entire room

Picture shows 100, 125 & 140 unit (71 unit comes with single fan)

Picture shows 71, 100 & 125 unit (140 unit comes with double fan)

Products overview outdoor units

Pair, twin, triple & double twin application

SkyAir

Capacity class (kW)

System	Type	Model		Product name		PG	71	100	125	140	200	250
Air cooled	Heat pump	Seasonal Smart R-32 BLUEVOLUTION › Industry leading technology extended with R-32 range › 68% lower GWP compared to R-410A products › 10% lower refrigerant charge compared to R-410A products › Minimum 5% more efficient in cooling when compared to R-410A products › Quiet mode: set via the remote control for example during night time › Re-use technology › Operation range down to -20°C in heating and down to -15°C in cooling › Variable Refrigerant Temperature	Seasonal Smart	RZAG-LV1 NEW		40	●	●	●	●		
		Seasonal Smart › Industry leading technology for commercial applications and server rooms, Telecom shelters, laboratories and IT applications › Top efficient outdoor units › Variable Refrigerant Temperature › Maximum piping length up to 75m › Re-use technology › Maximum piping length up to 50m › Extended operation range down to -20°C in heating and down to -15°C in cooling › Pair, twin, triple and double twin application	Seasonal Smart	RZQG-L9V1		124	●	●	●	●		
			Seasonal Smart	RZQG-L(8)Y1		124	●	●	●	●		
		Seasonal Classic › Technology and comfort combined for commercial applications › Top efficient outdoor units › Re-use technology › Operation range down to -15°C both cooling and in heating › Pair, twin, triple and double twin application	Seasonal Classic	RZQSG-L3/ L9V1		139	●	●	●	●		
				RZQSG-L(8)Y1		139		●	●	●		
		Super Inverter › Packaged system for commercial applications › For large commercial applications › Re-use technology › Pair, twin, triple and double twin applications	Super Inverter	RZQ-C		148					●	●
		Standard outdoor unit › Ideal solution for busy environments and small shops › Easy-to-mount outdoor units: roof, terrace or wall › Outdoor units with swing or scroll compressor › Exclusively offered for pair applications	Seasonal Inverter	AZQS-B8V1		153	●	●	●	●		
				AZQS-BY1		153		●	●	●		

Multi model and VRV application

System	Type	Model	Productname		PG	40	50	52	68	80	90	4HP	5HP	6HP	8HP	10HP	12HP
› Air cooled	Heat pump	Multi model application › Up to 5 indoor units can be connected to a single outdoor unit › Individual control of the indoor units › Different types of indoor units can be combined in one installation › Phased installation possible › Maximum total piping length of 25m offers solution for light commercial or residential applications	2MXS-H		159	●	●										
			3MXS-K		159	●											
			3MXS-E		159			●									
			3MXS-G		159				●								
			4MXS-F		159				●								
			4MXS-E		159					●							
			5MXS-E		159						●						
		The most compact VRV › Compact and lightweight single fan design saves space and is easy to install › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains › Either connect VRV of stylish indoor units (Daikin Emura, Nexura) › Incorporates VRV IV standards & technologies such as Variable Refrigerant temperature	RXYSCQ-TV1 VRV IV S-series Compact		169							●	●				

Benefits overview outdoor units

			RZAG-LV1 BLUEVOLUTION	RZQG-L9V1 / L(8)Y1-	RZQSG-L3/9V1/L(8)Y1	RZQ-C	AZQS-B8V1/BY1	MXS-E/F/G/H/K	RXYSCQ-TV1
									
We care icons	Seasonal efficiency - Smart use of energy	Seasonal efficiency gives a more realistic indication on how efficient air conditioners operate over an entire heating or cooling season.	●	●	●	●	●	●	
	Inverter technology	In combination with inverter controlled outdoor units.	●	●	●	●	●	●	●
	Replacement technology	Service and maintenance with R-22 is prohibited after 1/01/2015, meaning repairs will be impossible to R-22 systems. Avoid unexpected downtime for your customers and replace these systems now!	●	●	●	●	●		
Comfort	Night quiet	Lowers the operation sound of the outdoor unit automatically.	●	●	●			●	●
	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature.	●	●	●	●	●	●	●
Other functions	Variable refrigeration temperature	The intelligent systems ensures highest energy savings with additional comfort to better suit application requirements.	●	●					●
	Twin/triple/double twin application	2, 3 or 4 indoor units can be connected to only 1 outdoor unit even if they have different capacities. All indoor units operate within the same mode (cooling or heating) from one remote control.		●	●	●			
	Multi model application	Up to 5 indoor units (even different capacities) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.						●	
	VRV for residential application	Up to 9 indoor units (even different capacities and up to 71 class) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.							●
	Swing compressor	Outdoor units are fitted with a swing compressor, renowned for its low noise and high reliability.	●	●	●	●	●	●	
	Scroll compressor	Outdoor units are fitted with a scroll compressor, renowned for its low noise and high energy efficiency.							●
	Guaranteed operation down to -20°C	Daikin is suitable for all climates, even withstanding severe winter conditions with an operation range down to -20°C.	●	●					●
	Infrastructure cooling	For high sensible, infrastructure cooling applications, dedicated infrastructure cooling settings and allowing asymmetric combinations enhance the system's reliability.		●					

Sky Air outdoor units meet customers' every need for light commercial applications, from high specification, tailored solutions to primary needs for cooling and heating

	Seasonal Smart R-32 BLUEVOLUTION 	**Seasonal Smart** 	**Seasonal Classic** 	**Super inverter** 	**Seasonal inverter** 
	› Industry-leading technology extended with R-32 products › Lowest environmental impact with R-32 refrigerant › 10% lower refrigerant charge › Minimum 5% more efficient in cooling compared to R-410A units	› For all types of commercial applications, including infrastructure cooling › Best efficiency! › Most flexible installation › Widest range of connectable indoor units	› For all types of commercial applications › Good value for money: very efficient and comfortable indoor units	› Packaged system for large commercial applications	› Basic cooling/ heating solution for small shops
Seasonal efficiency	Up to A++ both in cooling and heating	Up to A++ in cooling	Up to A++ in cooling	N/A	Up to A
Max. piping length between indoor and outdoor	Up to 75m	Up to 75m	Up to 50m	Up to 100m	Up to 50m
Operation range Cooling	-15°C ~ 50°C	-15°C~50°C	-15°C ~46°C		
Operation range Heating	-20°C ~15.5°C	-20°C~15.5°C	-15°C ~15.5°C		
Infrastructure cooling		✓			
1. Variable Refrigerant Temperature	✓	✓	✓		
2. Customizable Variable Refrigerant Temperature	✓	✓			
Connectable indoor units	 High COP roundflow cassette	 Compact roundflow cassette  High COP roundflow cassette  Fully flat cassette	 4-Way blow ceiling suspended cassette  Ceiling suspended unit Wall mounted unit	 Floor standing unit  Concealed floor standing unit  Concealed ceiling unit	 Compact roundflow cassette
Pair application	✓	✓	✓		✓
Twin/triple/double twin		✓	✓	✓	
Multi (max. number of connectable units)					

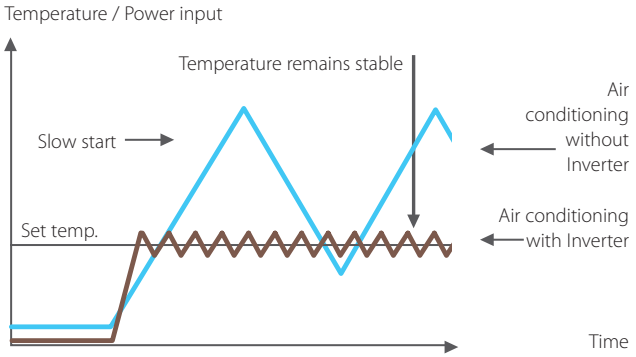
Heating and cooling at the lowest running cost

Inverter control optimises efficiency

Daikin's **inverter technology** is a **true innovation** in the field of climate control. The principle is simple: inverters adjust the power used to suit the actual requirement - no more, no less! This technology provides two clear benefits:

› Comfort: The inverter repays its investment many times over by improving comfort. An air conditioning system with **an inverter continuously adjusts its cooling and heating output** to suit the temperature in the room, thus **improving comfort levels**. The inverter reduces system start-up time, so the required room temperature is reached more quickly. As soon as the correct temperature is reached, the inverter ensures that it is constantly maintained.

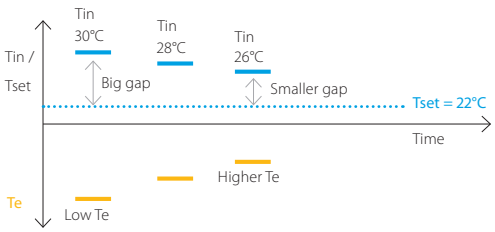
› Energy efficient: Because an inverter **monitors and adjusts** the ambient temperature whenever needed, **energy consumption drops by 30%** compared with a traditional on/off system.



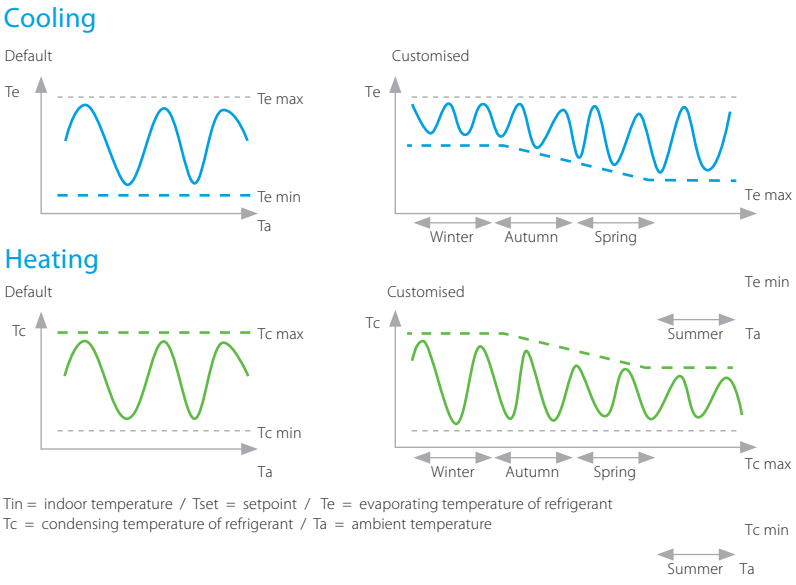
Variable refrigerant temperature

Variable Refrigerant Temperature

1. Operates with variable refrigerant temperature: all Daikin Sky Air outdoor units are able to adapt their operation to meet your unique cooling and heating requirements, without compromising efficiency.



2. Go one step further in improving comfort and efficiency by having the possibility to customize the settings at time of installation. These special settings allow the boundaries of fluctuation of refrigerant's evaporating and condensing temperature to be customized to fit the application.



Tin = indoor temperature / Tset = setpoint / Te = evaporating temperature of refrigerant
Tc = condensing temperature of refrigerant / Ta = ambient temperature

Replacement technology

The quick and quality way of upgrading

R-22 and R-407C systems

VRV-Q benefits to increase your profit

Optimise your business

Less installation time

Tackle more projects in less time thanks to faster installation. It is more profitable than replacing the full system with new piping.

Lower installation costs

Reducing installation costs enables you to offer customers the most cost-effective solution and improve your competitive edge.

Replace non-Daikin systems

NON DAIKIN → DAIKIN

It is a trouble-free replacement solution for Daikin systems and for systems made by other manufacturers.

Easy as one-two-three

A simple solution for replacement technology enables you to handle more projects for more customers in less time and offer them the best price! Everybody gains.

The benefits will convince your customer

- ☑ To prevent unexpected breakdown
- ☑ To lower running costs
- ☑ To protect the environment
- ☑ To improve comfort

Your copper pipes will last for multiple generations

- copper pipes used in air conditioning systems tested by Daikin will last over 60 years after installation.

- Japan/China have replaced with VRV Q-series already 10 years ago!

Umeda Center Building, Japan
- original A/C system: 20 years in use
- replacement with VRV Q-series: 2006 - 2009
- capacity up from 1620HP to 2322HP
- SHASE renewal award:

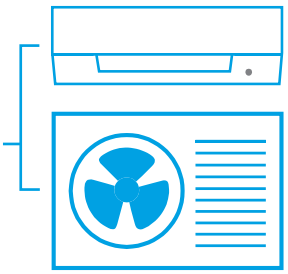
How does it work?

The Daikin low-cost upgrade solution

! Replace indoor units and BS boxes

Contact your local dealer to check compatibility in case you need to keep the indoor units.

! Replace outdoor units



Learn more about Daikin replacement solutions at www.daikin.co.uk/r22

Replacement technology

Procedure for Split / Sky Air

Re-use of the existing pipe work

Check the specification of existing pipe: pressure, diameter and length. Please see NOTE 1.

No → Use new pipe for installation.

Yes

› The existing piping has:
  › NO damage, scratches, dents or fractures
  › separate insulation for the liquid and gas pipe.
› The existing unit has no history of compressor breakdown.

No → Use new pipe for installation.

Yes

Confirm operation and the possibility of using the pump down operation.

No → Clean the pipe work using the appropriate equipment.

Yes

Perform cooling operation for 30 min.
Then execute pump down operation.

Remove existing air conditioner.

Check the contamination level of the oil inside the pipe. See NOTE 2.

No → Clean the pipe work using the appropriate equipment.

OK

Flare connection MUST be redone by using the flare nut included with the new air conditioner (for R-410A).
See NOTE 3

Install the new air conditioner
(Please refer to installation manual before doing so).

Re-use of the existing wiring

Check if the specifications of the installed wiring meet the requirements of the new unit (type, quantity, …).

No → Use new wiring for installation.

Yes

Check that the wiring does not have any scratches.
Check that the wiring-ground and wiring-wiring insulation has a resistance higher than 100MΩ. Measurement needs to be performed with a 500V megger.

No → Use new wiring for installation.

Yes

Possible to re-use wiring.

NOTE 1/ Pipe specifications

1. Pipe thickness

Outside diameter (mm)	Material	Thickness (mm)
6.4	O	0.8
9.5	O	0.8
12.7	O	0.8
15.9	O	1.0
19.1	1/2H	1.0

O: annealed
1/2H: half hard

2. Capacity class and pipe diameter

	Liquid	6.4			9.5		12.7	
	Gas	9.5	12.7	15.9		19.1	15.9	19.1
Split	2.0-4.2kW	•	o	x	x	x	x	x
	5.0-6.0kW	x	•	o	x	x	x	x
	7.1kW	x	x	•	Δ	x	x	x
Sky Air	7.1kW	x	Δ	Δ	•	x	Δ	x
	10.0-14.0kW	x	x	Δ	•	o	Δ	Δ
	20.0-25.0kW	Refrigerant pipe size-up required. Please consult the RZQ-C installation manual.						

- • Possible (Standard condition)
- o Possible (With no impact on chargeless length* and total length)
- Δ Possible (With impact on chargeless length* and total length)
- x Impossible

refer to NOTE 1.3 for more information

3. Chargeless length* and total length

Split	Liquid pipe	7.1kW
Chargeless length	6.4mm	10m
	9.5mm	4m
Max. total length	6.4mm	30m
	9.5mm	12m

If the installation requires longer piping length than chargeless length, add refrigerant at the rate of 20g/m (liquid pipe: 6.4mm), 50g/m(liquid pipe: 9.5mm)

Sky Air (RZQG)	Liquid pipe	71	100	125-140
Chargeless (equivalent)	6.4mm	10m (15m)		
	9.5mm	30m (40m)		
	12.7mm	15m (20m)		
Max. total length (equivalent)	6.4mm	10m (15m)		
	9.5mm	50m(70m)	75m (95m)	
	12.7mm	25m(35m)	35m(45m)	

Sky Air (RZQSG)	Liquid pipe	71	100	125-140
Chargeless (equivalent)	6.4mm	10m (15m)		
	9.5mm	25m (35m)		
	12.7mm	10m (15m)		
Max. total length (equivalent)	6.4mm	10m (15m)		
	9.5mm	30m (50m)	50m (70m)	
	12.7mm	15m (25m)	25m (35m)	

Follow the installation manual for additional refrigerant charge.
* Maximum piping length achievable without additional refrigerant charge.
For more detailed information on RZQ-C consult the installation manual.

Multi model application	Liquid pipe	Chargeless length	Max. Total length
2MXS40	6.4mm	20m	30m
2MXS50			
3MXS52		30m	50m
3MXS68			
4MXS68			60m
4MXS80			70m
5MXS90			75m

If the installation requires longer piping length than chargeless length, add refrigerant at the rate of 20g/m (Liquid pipe: 6.4mm). Should any 9.5 mm piping be in place, use the following formula to determine the required additional refrigerant charge.

ARC=Yx50+(X-30)x20
ARC: additional refrigerant charge (g)
X: 6.4mm liquid piping length (m)
Y: 9.5mm liquid piping length (m)

In case of 4MX80:
If 0 < ARC < 800 g, apply ARC
If ARC > 800 g, apply 800 g (MAX)
If ARC < 0 g, no additional refrigerant charge required

In case of 5MX90:
If 0 < ARC < 900 g, apply ARC
If ARC > 900 g, apply 900 g (MAX)
If ARC < 0 g, no additional refrigerant charge required

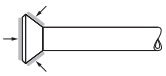
NOTE 2/ Contamination level of the oil

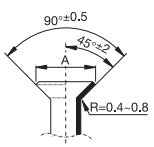
Check the colour of the oil in the existing piping by dipping a piece of white paper or cloth into it. If the oil is colourless, the re-use of the pipe work in place is allowed. An oil checking card can also be used for this purpose (reference nr = 4PW18628-1).

NOTE 3/ Flare connection

Precautions for flare connection:

- Please refer to the table for the dimensions for processing flares and for the tightening torques. (Too much tightening will endup splitting of the flare.)
- When connecting the flare nut, apply refrigerating machine oil to the flare (inside and outside) and first screw the nut 3 or 4 turns by hand.
- After completing the installation, carry out a gas leak inspection of the piping connections with nitrogen and such.



Piping size	Flare nut tightening torque	All dimensions for processing flares (mm)	flare shape
Ø6.4	14.2~17.2 N•m (144~176 kgf•cm)	8.7~9.1	
Ø9.5	32.7~39.9 N•m (333~407 kgf•cm)	12.8~13.2	
Ø12.7	49.5~60.3 N•m (504~616 kgf•cm)	16.2~16.6	
Ø.15.9	61.8~75.4 N•m (630~770 kgf•cm)	19.3~19.7	
Ø19.1	97.2~118.6 N•m (989.8~1208 kgf•cm)	23.6~24.0	

NOTE 4/ Sky Air installation:

In case of twin, triple and double twin installations, a strength pressure test must be performed on the existing piping and piping joints. This test needs to be executed according to EN 378-2 (2009), chapter 6.3.3. The acceptance criteria for the test is that no permanent deformation shall occur in the piping and piping joints at a test pressure of minimum 1.1xPS (PS = maximum allowable pressure). Only in that case is the re-use of the piping and piping joints possible (please check the nameplate of the replacement unit to determine the maximum allowable pressure PS).

The strength pressure test should be followed by a tightness test, according to EN 378-2 (2009), chapter 6.3.4.

NOTE 5/ Precautions for refrigerant piping

- Foreign material (air, mineral oil, moisture, ...) should be prevented from getting mixed into the system. If any refrigerant gas leaks while working on the unit, ventilate the room thoroughly right away.
- Only use R-410A as a refrigerant.

  Installation tools: use only installation tools (gauge manifold charge hose, etc.) that are appropriate for R-410A installations so as to withstand the pressure.
  Vacuum pump: use a 2-stage vacuum pump with a non-return valve. Make sure the pump oil does not flow back into the system while the pump is not working. Use a vacuum pump which can evacuate to -100.7 kPa (5 Torr. -755 mmHg).
- If the local piping has welded connections, check them for gas leaks.

Seasonal Smart: The premium solution

RZQG-L9V1/L(8)Y1

Daikin is leading the way towards more efficient and cost-effective comfort solutions with its Sky Air product range

Why choose Seasonal Smart?

- ☑ Best in class quality
- ☑ Highest seasonal efficiency values when compared with other systems under the same test conditions
- ☑ Advanced and leading technologies
- ☑ Flexible as no other

Top seasonal efficiency

› Inverter control logic optimises efficiency
› Efficiency is enhanced even further thanks to the Variable Refrigerant Temperature settings
› Using a highly efficient swing compressor
› Losses are reduced in standby mode
› A++ label both in heating and cooling FCQHG71/100F + RZQG71/100L9V1
› Available with R-32 increasing cooling efficiency by 5% BLUEVOLUTION

Advanced and leading technologies

› Variable Refrigerant Temperature to suit application requirements better: eliminating cold draughts by varying the evaporating temperature

Flexible as no other

› Reliable, efficient and flexible solution offered to meet the demanding needs of infrastructure cooling environments
› Long pipe runs (up to 75m)
› Wide operation range for cooling (down to 15°C) and for heating (down to -20°C)
› Replacement technology: re-use of existing pipework of R-22 and R-407C systems
› Wide range of indoor units connectable: wall mounted, concealed ceiling, cassette etc

Benefits for the installer

Whatever the installation requirements or restrictions, Seasonal Smart will be able to meet them thanks to:

› R-22/R-407C replacement technology
› Wide operation range for cooling (down to -15°C) to suit even infrastructure cooling applications
› Wide operation range for heating (down to -20°C) to be able to deliver heating in the most severe winters
› Long pipe runs of up to 75m
› Easy accessibility to the gas cooled PCB (L9V1)
› Easy to install discreetly against the wall thanks to the limited depth of the unit
› Wide range of indoor units available

Benefits for the consultant

› Market leader in terms of seasonal efficiency. The unit operates extremely efficiently throughout the whole summer and winter
› R-22/R-407C replacement technology: delivering major energy savings, rapid payback and cost-effective upgrade solution with minimum downtime
› This system has been optimised to perform well in the most severe conditions
› Wide range of indoor units available to suit buildings with or without false ceilings

Benefits for the end user

› Market leader in terms of seasonal efficiency which reduces your customers' electricity bills to a minimum all year round
› Possibility to reduce sound level via settings on the remote controller
› Wide range of stylish, comfortable and silent indoor units available
› Possibility of integrating the unit into a Building Management system
› Reliable system in all weather conditions

Infrastructure cooling with Seasonal Smart

With over 90 years of innovation and engineering expertise in specialised cooling, Daikin offers a Sky Air solution that is **reliable**, **efficient** and **flexible** to meet the demanding needs of infrastructure cooling environments.

Reliable

Guaranteed system operation:

› Oversized indoor units boost cooling capacity and prevent freeze-ups on the indoor side
› Wide operating range envelope: operation range in cooling down to -15°C and up to +50°C

Efficient

Optimum return on investment:

› Lowers running costs by using highly efficient direct expansion cooling systems
› Lower running costs compared to other DX systems and water based chillers
› Minimises environmental impact with A++ energy labels
› Reduces mechanical cooling and energy consumption with the free cooling option for single phase systems

Flexible

› Scalable in capacity
› Improved infrastructure control and management
› Lower physical footprint since no floor space is occupied
› Wide range of indoor units to suit application preferences (ceiling suspended cassettes, wall mounted indoors, concealed ceiling ducted type indoors)

UNIQUE

Dedicated system combinations

Benefits

1. Boost the heat transfer capacity of the indoor system
2. Ability to work with higher evaporation temperatures (Te) avoids downtime and enables continuous operation
3. Official energy labels for indoor and outdoor system combinations provide standardized and reliable performance data

UNIQUE

2-step solution for system selection

Benefits

1. Daikin makes the system selection procedure easy and reliable by providing detailed capacity tables based on extensive testing.
2. Choose the best product combination that meets end-user requirements

UNIQUE

Efficient cooling

Benefits

1. Free cooling: optimum energy efficiency using cold ambient air
2. Widest range of indoor systems with best in class energy efficiency
3. Wide indoor and outdoor operation range, reliable performance even in extreme conditions

UNIQUE

Flexible control

Benefits

1. Optimal backup supported by duty rotation control, automatic backup activation and remote alarms
2. Guaranteed continuous operation from extended compressor limits
3. Controller settings to adapt to specific infrastructure cooling environment conditions
4. Fewer start/stop cycles

Find out more in our infrastructure cooling brochure

Boosted capacity indoor systems

High reliability at lower running costs for infrastructure cooling

Split air conditioning systems for normal comfort cooling applications usually combine indoor systems with matching capacities, or multiple indoor systems with capacities lower than the outdoor system's capacity. This works because the indoor system's cooling capacity is sufficient to handle the higher humidity conditions and varying indoor temperature requirements that are common in a normal living environment.

Applying this design logic to infrastructure cooling environments can lead to risky situations that might compromise overall system reliability and frequent downtimes of 15 minutes.

Indoor systems for infrastructure cooling environments need enhanced capabilities for continuous heat transfer because they work harder to extract energy by cooling dry air. Daikin recommends and offers asymmetric combinations (boosted capacity indoor combinations: e.g. 71 class outdoor + 100 class indoor).

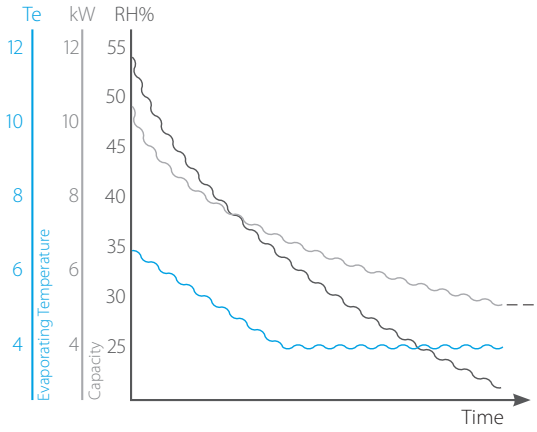
You can now confidently combine indoor systems with higher capacities than the outdoor system. This will boost heat transfer inside the technology or server room environments.

Boosted capacity indoor system combination

Infrastructure cooling application system solutions

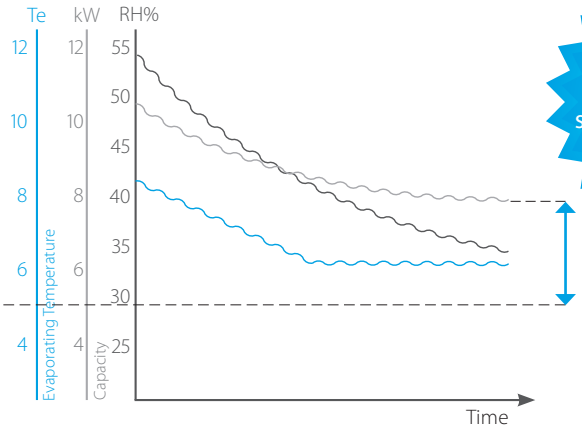
TRADITIONAL SOLUTION

Symmetric indoor-outdoor system combination



Relative Humidity: reduces over time
Capacity: reduced
Evaporating temp: drops to compensate reduced capacity
too low Te can lead to freeze-up prevention, causing system downtime

DEDICATED SOLUTION



Between **20-40%** sensible capacity increase

improved solution

- Boosted capacity indoors increase the heat transfer capacity at low relative humidity
- Allows the system to operate with higher Te, guaranteeing continuous operation and reducing unwanted dehumidification

Low humidity + Low ambient environment

Outside temperature Ta	-5 °C
Set-point	22 °C
Humidity	35 %
Indoor wet-bulb temperature	13 °C

EER

TRADITIONAL SOLUTION **100%**

IMPROVED SOLUTION **82%** — 18% SAVINGS

18% savings on running cost

traditional solution RZQG71L9V1 + FAQ71C	
Total Capacity (TC)	5.63 kW
Sensible Heat Capacity (SHC)	4.28 kW
Power Input (PI)	2 kW
Co-efficient of Power Input (CPI)	0.39
Corrected PI	0.78 kW
EER*	5,5

dedicated system combination solution RZQG71L9V1 + FAQ100C	
Total Capacity (TC)	**6,02 kW**
Sensible Heat Capacity (SHC)	**6,02 kW**
Power Input (PI)	**2 kW**
Co-efficient of Power Input (CPI)	**0,45**
Corrected PI	**0.90 kW**
EER*	**6,7**

Sensible Heat Capacity increases **20-40%** with dedicated system combination.

*EER = (SHC/Corrected PI)

2-Step solution for system selection

High reliability for infrastructure cooling

UNIQUE

Select your infrastructure cooling system in 2 steps

No humidity generation in room (eg: Server room)

IT room requires 22°C inside. It will have 7kW of sensible cooling demand, and no latent cooling demand (no humidity generation) throughout the year.
Ceiling suspended indoor unit is the customer's preference for the server room.

Indoor temperature = 22°CDB
Sensible cooling demand (SHC) = 7 kW
Latent cooling demand (LC) = 0 kW*
Total cooling demand (TC) = SHC + LC = 7 kW
Outdoor temperature operating range = -15°C ~ +40°C
Most stringent outdoor unit capacity condition = -15°C

STEP 1

Determine requested indoor conditions and required cooling demand (Sensible and Total capacity)

Some humidity source in room (eg: Laboratory)

Lab requires 22°C inside. It will have 9 kW of sensible cooling demand, and some humidity generation in the room (est. indoor humidity level 42%).
Wall mounted indoor unit is the customer's preference for the laboratory.

Indoor temperature = 22°CDB
Indoor Relative Humidity (RH%) = 42%**
Sensible cooling demand (SHC) = 9 kW
Latent cooling demand (LC) = 0.9 kW
Total cooling demand (TC) = SHC + LC = 9.9 kW
Outdoor temperature operating range = -10°C ~ +40°C
Most stringent outdoor unit capacity condition = -10°C

STEP 2

Select the system combination from the given table, where the system 's sensible and total capacity meets the cooling demand at the requested indoor and outdoor temperatures.

SOLUTION

Boosted capacity indoor combination with 10kW outdoor system.

RZQG100L8Y1/ FHQ140C
Total capacity = 7.48 kW
Sensible capacity = 7.48 kW
Power input = 0.42 x 2.49 = 1.04 kW

* If there is no latent cooling demand, look for conditions where TC = SHC, since no more dehumidification will occur and thus the indoor environment will stabilize. When TC > SHC and there is no humidity generation, the indoor humidity will gradually decrease.

SOLUTION

Boosted capacity indoor combination with 12.5kW outdoor system.

RZQG125L9V1/ FAQ71C x 2
Total capacity = 10.45 kW
Sensible capacity = 9.34 kW
Power input = 0.48 x 3.69 = 1.78 kW

** System capacity at 42%RH (14,2°CWB) can be found by interpolation between 13°CWB (35%) and 15°CWB (48%).

Combination table for boosted capacity indoor systems

Sky Air	Wall mounted		Ceiling suspended unit							Concealed ceiling unit with medium ESP							Concealed ceiling unit			4-way blow ceiling mounted cassette			Floor standing unit				Fully flat cassette			High COP, round flow cassette				Round flow cassette						
Model	FAQ71C	FAQ100C	FHQ35C	FHQ50C	FHQ60C	FHQ71C	FHQ100C	FHQ125C	FHQ140C	FBQ35D	FBQ50D	FBQ60D	FBQ71D	FBQ100D	FBQ125D	FBQ140D	FDXS35F	FDXS50F9	FDXS60F	FUQ71C	FUQ100C	FUQ125C	FVQ71C	FVQ100C	FVQ125C	FVQ140C	FFQ35C	FFQ50C	FFQ60C	FCQHG71F	FCQHG100F	FCQHG125F	FCQHG140F	FCQG35F	FCQG50F	FCQG60F	FCQG71F	FCQG100F	FCQG125F	FCQG140F
RZQG71L9V1B RZQG71L8Y1B		P	3	2			P			3	2			P			3	2			P			P			3	2			P			3	2			P		
RZQG100L9V1B RZQG100L8Y1B	2		4	3		2			P	4	3		2			P	4	3		2						P	4	3		2			P	4	3		2			P
RZQG125L9V1B RZQG125L8Y1B	2		4	3		2			P	4	3		2			P	4	3		2						P	4	3		2			P	4	3		2			P
RZQG140L9V1B RZQG140L7Y1B	2		4	3		2			P	4	3		2			P	4	3		2						P	4	3		2			P	4	3		2			P

Possible combinations: P = Pair 2 = Twin 3 = Triple 4 = Double Twin

Notes: The capacities in the table are combined capacities (multiple units operating simultaneously) and not individual indoor unit capacities. When combining multiple indoor units, designate the master unit as the unit whose remote controller is equipped with the most functions. Refer to the option list when selecting the correct refnet kit required to install a multi-combination.

Performance characteristics

for boosted capacity indoor combinations

Boosted capacity indoors with 7kW outdoor system

RZQG71L9V1 / RZQG71L8Y1

Indoor			Outdoor temperature [°C DB]																																			
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	4.81	3.98	0.34	4.81	3.98	0.36	4.81	3.98	0.37	4.81	3.98	0.39	4.81	3.98	0.41	4.81	3.98	0.43	4.81	3.98	0.46	4.81	3.98	0.48	5.90	5.25	0.98	5.85	5.22	1.09	5.80	5.20	1.19	5.76	5.17	1.30
41.8	11	18	4.81	4.67	0.34	4.81	4.67	0.36	4.81	4.67	0.37	4.81	4.67	0.39	4.81	4.67	0.41	4.81	4.67	0.43	4.81	4.67	0.46	4.81	4.67	0.48	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
57	13		6.02	5.05	0.37	6.02	5.05	0.41	6.02	5.05	0.45	6.02	5.05	0.50	6.02	5.05	0.52	6.02	5.05	0.55	6.02	5.05	0.57	6.02	5.05	0.64	7.49	5.89	0.99	7.23	5.75	1.10	6.96	5.61	1.20	6.70	5.47	1.31
31.4	11		4.81	4.81	0.34	4.81	4.81	0.36	4.81	4.81	0.37	4.81	4.81	0.39	4.81	4.81	0.41	4.81	4.81	0.43	4.81	4.81	0.46	4.81	4.81	0.48	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
44.9	13	20	6.02	6.02	0.37	6.02	6.02	0.41	6.02	6.02	0.45	6.02	6.02	0.50	6.02	6.02	0.52	6.02	6.02	0.55	6.02	6.02	0.57	6.02	6.02	0.64	7.49	7.00	0.99	7.23	6.81	1.10	6.96	6.60	1.20	6.70	6.37	1.31
52	14		6.62	5.76	0.38	6.62	5.76	0.44	6.62	5.76	0.50	6.62	5.76	0.55	6.62	5.76	0.58	6.62	5.76	0.60	6.62	5.76	0.63	6.62	5.76	0.72	8.15	6.56	0.99	7.74	6.36	1.10	7.34	6.15	1.20	6.93	5.93	1.31
22.9	11		4.81	4.81	0.34	4.81	4.81	0.36	4.81	4.81	0.37	4.81	4.81	0.39	4.81	4.81	0.41	4.81	4.81	0.43	4.81	4.81	0.46	4.81	4.81	0.48	5.90	5.90	0.98	5.85	5.85	1.09	5.80	5.80	1.19	5.76	5.76	1.30
34.8	13	22	6.02	6.02	0.37	6.02	6.02	0.41	6.02	6.02	0.45	6.02	6.02	0.50	6.02	6.02	0.52	6.02	6.02	0.55	6.02	6.02	0.57	6.02	6.02	0.64	7.49	7.49	0.99	7.23	7.23	1.10	6.96	6.96	1.20	6.70	6.70	1.31
47.6	15		7.22	6.06	0.39	7.22	6.06	0.46	7.22	6.06	0.54	7.22	6.06	0.61	7.22	6.06	0.63	7.22	6.06	0.66	7.22	6.06	0.69	7.22	6.06	0.79	8.41	7.00	1.00	7.99	6.80	1.11	7.58	6.60	1.21	7.16	6.37	1.32
54.3	16		7.82	5.71	0.41	7.82	5.71	0.49	7.82	5.71	0.58	7.82	5.71	0.66	7.82	5.71	0.69	7.82	5.71	0.72	7.82	5.71	0.75	7.82	5.71	0.87	8.68	6.54	1.00	8.25	6.35	1.11	7.83	6.14	1.21	7.40	5.92	1.32
21.2	12		5.41	5.41	0.36	5.41	5.41	0.38	5.41	5.41	0.41	5.41	5.41	0.44	5.41	5.41	0.46	5.41	5.41	0.49	5.41	5.41	0.52	5.41	5.41	0.56	6.70	6.70	0.99	6.54	6.54	1.10	6.38	6.38	1.20	6.23	6.23	1.31
32.1	14		6.62	6.62	0.38	6.62	6.62	0.44	6.62	6.62	0.50	6.62	6.62	0.55	6.62	6.62	0.58	6.62	6.62	0.60	6.62	6.62	0.63	6.62	6.62	0.72	8.15	8.15	0.99	7.74	7.74	1.10	7.34	7.34	1.20	6.93	6.93	1.31
43.8	16	24	7.82	6.57	0.41	7.82	6.57	0.49	7.82	6.57	0.58	7.82	6.57	0.66	7.82	6.57	0.69	7.82	6.57	0.72	7.82	6.57	0.75	7.82	6.57	0.87	8.68	7.45	1.00	8.25	7.26	1.11	7.83	7.04	1.21	7.40	6.82	1.32
50	17		8.10	6.08	0.43	8.10	6.08	0.51	8.10	6.08	0.60	8.10	6.08	0.68	8.10	6.08	0.70	8.10	6.08	0.73	8.10	6.08	0.75	8.10	6.08	0.88	8.96	6.99	1.00	8.53	6.80	1.11	8.09	6.59	1.21	7.66	6.37	1.32
21.5	14		6.62	6.62	0.38	6.62	6.62	0.44	6.62	6.62	0.50	6.62	6.62	0.55	6.62	6.62	0.58	6.62	6.62	0.60	6.62	6.62	0.63	6.62	6.62	0.72	8.15	8.15	0.99	7.74	7.74	1.10	7.34	7.34	1.20	6.93	6.93	1.31
26.3	15	27	7.22	7.22	0.39	7.22	7.22	0.46	7.22	7.22	0.54	7.22	7.22	0.61	7.22	7.22	0.63	7.22	7.22	0.66	7.22	7.22	0.69	7.22	7.22	0.79	8.41	8.41	1.00	7.99	7.99	1.11	7.58	7.58	1.21	7.16	7.16	1.32
31.3	16			7.82	0.41	7.82	7.82	0.49	7.82	7.82	0.58	7.82	7.82	0.66	7.82	7.82	0.69	7.82	7.82	0.72	7.82	7.82	0.75	7.82	7.82	0.87	8.68	8.68	1.00	8.25	8.25	1.11	7.83	7.83	1.21	7.40	7.40	1.32

3D098206A

PAIR	FAQ100C	FHQ100C	FBQ100D	FUQ100C	FVQ100C	FCQHG100F	FCQG100F
Cooling	2.00	1.78	1.89	1.67	2.02	1.66	2.01

TWIN	FHQ50C x 2	FBQ50D x 2	FDXS50F9 x 2	FFQ50C x 2	FCQG50F x 2
Cooling	2.34	2.02	2.23	2.02	2.04

TRIPLE	FHQ35CA x 3	FBQ35D x 3	FDXS35F x 3	FFQ35C x 3	FCQG35F x 3
Cooling	2.39	2.11	2.26	2.07	2.06

Boosted capacity indoors with 10kW outdoor system

RZQG100L9V1 / RZQG100L8Y1

Indoor			Outdoor temperature [°C DB]																																			
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	6.00	5.63	0.33	6.00	5.63	0.34	6.00	5.63	0.35	6.00	5.63	0.37	6.00	5.63	0.38	6.00	5.63	0.38	6.00	5.63	0.39	6.00	5.63	0.39	8.36	7.11	1.00	7.92	6.83	1.10	7.48	6.53	1.20	7.09	6.28	1.29
41.8	11	18	6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39	8.36	7.98	1.00	7.92	7.72	1.10	7.48	7.43	1.20	7.09	7.15	1.29
57	13		7.48	6.37	0.42	7.48	6.37	0.44	7.48	6.37	0.45	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.46	7.48	6.37	0.45	7.48	6.37	0.46	9.71	7.67	1.00	9.30	7.42	1.11	8.90	7.16	1.21	8.45	6.88	1.30
31.4	11		6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39	8.36	8.36	1.00	7.92	7.92	1.10	7.48	7.48	1.20	7.09	7.09	1.29
44.9	13	20	7.48	7.25	0.42	7.48	7.25	0.44	7.48	7.25	0.45	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.46	7.48	7.25	0.45	7.48	7.25	0.46	9.71	8.53	1.00	9.30	8.28	1.11	8.90	8.01	1.21	8.45	7.74	1.30
52	14		8.22	7.18	0.47	8.22	7.18	0.48	8.22	7.18	0.49	8.22	7.18	0.51	8.22	7.18	0.50	8.22	7.18	0.49	8.22	7.18	0.49	8.22	7.18	0.49	10.50	8.45	1.01	10.23	8.31	1.11	9.96	8.17	1.21	9.68	7.94	1.31
22.9	11		6.00	6.00	0.33	6.00	6.00	0.34	6.00	6.00	0.35	6.00	6.00	0.37	6.00	6.00	0.38	6.00	6.00	0.38	6.00	6.00	0.39	6.00	6.00	0.39	8.36	8.36	1.00	7.92	7.92	1.10	7.48	7.48	1.20	7.09	7.09	1.29
34.8	13	22	7.48	7.48	0.42	7.48	7.48	0.44	7.48	7.48	0.45	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.46	7.48	7.48	0.45	7.48	7.48	0.46	9.71	9.71	1.00	9.30	9.30	1.11	8.90	8.90	1.21	8.45	8.45	1.30
47.6	15		8.96	7.82	0.52	8.96	7.82	0.53	8.96	7.82	0.54	8.96	7.82	0.55	8.96	7.82	0.54	8.96	7.82	0.53	8.96	7.82	0.52	8.96	7.82	0.52	11.28	9.19	1.01	10.89	8.96	1.11	10.51	8.72	1.22	10.12	8.48	1.32
54.3	16		9.70	7.54	0.56	9.70	7.54	0.58	9.70	7.54	0.59	9.70	7.54	0.60	9.70	7.54	0.59	9.70	7.54	0.57	9.70	7.54	0.55	9.70	7.54	0.56	11.84	8.40	1.01	11.40	8.22	1.11	11.03	8.04	1.22	10.58	7.77	1.32
21.2	12		6.74	6.74	0.38	6.74	6.74	0.39	6.74	6.74	0.40	6.74	6.74	0.41	6.74	6.74	0.42	6.74	6.74	0.42	6.74	6.74	0.42	6.74	6.74	0.42	9.04	9.04	1.00	8.61	8.61	1.10	8.19	8.19	1.21	7.77	7.77	1.30
32.1	14		8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.49	8.22	8.22	0.49	8.22	8.22	0.49	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.31
43.8	16	24	9.70	8.68	0.56	9.70	8.68	0.58	9.70	8.68	0.59	9.70	8.68	0.60	9.70	8.68	0.59	9.70	8.68	0.57	9.70	8.68	0.55	9.70	8.68	0.56	11.84	9.74	1.01	11.40	9.51	1.12	11.03	9.32	1.22	10.58	9.06	1.32
50	17		9.98	7.86	0.58	9.98	7.86	0.59	9.98	7.86	0.60	9.98	7.86	0.61	9.98	7.86	0.60	9.98	7.86	0.60	9.98	7.86	0.60	9.98	7.86	0.60	12.39	9.45	1.02	11.86	9.16	1.12	11.33	8.86	1.22	10.80	8.52	1.33
21.5	14		8.22	8.22	0.47	8.22	8.22	0.48	8.22	8.22	0.49	8.22	8.22	0.51	8.22	8.22	0.50	8.22	8.22	0.49	8.22	8.22	0.49	8.22	8.22	0.49	10.50	10.50	1.01	10.23	10.23	1.11	9.96	9.96	1.21	9.68	9.68	1.31
26.3	15	27	8.96	8.96	0.52	8.96	8.96	0.53	8.96	8.96	0.54	8.96	8.96	0.55	8.96	8.96	0.54	8.96	8.96	0.53	8.96	8.96	0.52	8.96	8.96	0.52	11.28	11.28	1.01	10.89	10.89	1.11	10.51	10.51	1.22	10.12	10.12	1.32
31.3	16		9.70	9.70	0.56	9.70	9.70	0.58	9.70	9.70	0.59	9.70	9.70	0.60	9.70	9.70	0.59	9.70	9.70	0.57	9.70	9.70	0.55	9.70	9.70	0.56	11.84	11.84	1.01	11.40	11.40	1.12	11.03	11.03	1.22	10.58	10.58	1.32

3D098207A

PAIR	FHQ140C	FBQ140D	FVQ140C	FCQHG140F	FCQG140F
Cooling	2.49	2.49	2.49	2.15	2.45

TWIN	FAQ71C x 2	FHQ71C x 2	FBQ71D x 2	FUQ71C x 2	FCQHG71F x 2	FCQG71F x 2
Cooling	2.64	2.94	2.83	2.34	2.14	2.35

TRIPLE	FHQ50C x 3	FBQ50D x 3	FDXS50F9 x 3	FFQ50C x 3	FCQG50F x 3
Cooling	2.98	2.96	2.54	2.70	2.33

DOUBLE TWIN	FHQ35C x 4	FBQ35D x 4	FDXS35F x 4	FFQ35C x 4	FCQG35F x 4
Cooling	3.03	3.05	2.58	2.75	2.35

Symbols

TC Maximum total cooling capacity [kW]
SHC Sensible heat capacity [kW]
CPI Coefficient of the power input
PI Power input [kW]
compressor + indoor and outdoor fan motors
RH Relative humidity [%]

Boosted capacity indoors with 12.5kW outdoor system

RZQG125L9V1 / RZQG125L8Y1

Indoor			Outdoor temperature [°C DB]																																	
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	7.49	6.72	0.33	7.49	6.72	0.34	7.49	6.72	0.35	7.49	6.72	0.36	7.49	6.72	0.37	7.49	6.72	0.38	7.49	6.72	0.38	7.49	6.72	0.38	10.25	8.55	0.98	9.71	8.21	1.08	9.17	7.86	1.18	8.69	7.55	1.27
41.8	11	18	7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	10.25	9.60	0.98	9.71	9.28	1.08	9.17	8.94	1.18	8.69	8.60	1.27
57	13		9.34	7.60	0.42	9.34	7.60	0.43	9.34	7.60	0.44	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	9.34	7.60	0.45	11.91	9.22	0.99	11.41	8.92	1.09	10.91	8.61	1.19	10.37	8.28	1.28
31.4	11	20	7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	10.25	10.25	0.98	9.71	9.71	1.08	9.17	9.17	1.18	8.69	8.69	1.27
44.9	13		9.34	8.65	0.42	9.34	8.65	0.43	9.34	8.65	0.44	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	9.34	8.65	0.45	11.91	10.27	0.99	11.41	9.96	1.09	10.91	9.64	1.19	10.37	9.31	1.28
52	14		10.27	8.56	0.46	10.27	8.56	0.47	10.27	8.56	0.49	10.27	8.56	0.50	10.27	8.56	0.49	10.27	8.56	0.49	10.27	8.56	0.48	10.27	8.56	0.48	12.88	10.16	0.99	12.54	10.00	1.09	12.21	9.83	1.19	11.87	9.55	1.29
22.9	11	22	7.49	7.49	0.33	7.49	7.49	0.34	7.49	7.49	0.35	7.49	7.49	0.36	7.49	7.49	0.37	7.49	7.49	0.38	7.49	7.49	0.38	7.49	7.49	0.38	10.25	10.25	0.98	9.71	9.71	1.08	9.17	9.17	1.18	8.69	8.69	1.27
34.8	13		9.34	9.34	0.42	9.34	9.34	0.43	9.34	9.34	0.44	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	9.34	9.34	0.45	11.91	11.91	0.99	11.41	11.41	1.09	10.91	10.91	1.19	10.37	10.37	1.28
47.6	15		11.20	9.34	0.51	11.20	9.34	0.52	11.20	9.34	0.53	11.20	9.34	0.55	11.20	9.34	0.54	11.20	9.34	0.52	11.20	9.34	0.51	11.20	9.34	0.51	13.83	11.06	0.99	13.36	10.78	1.09	12.88	10.49	1.20	12.41	10.20	1.29
54.3	16		12.12	9.00	0.55	12.12	9.00	0.57	12.12	9.00	0.58	12.12	9.00	0.59	12.12	9.00	0.58	12.12	9.00	0.56	12.12	9.00	0.54	12.12	9.00	0.55	14.51	10.10	1.00	13.98	9.89	1.10	13.52	9.67	1.20	12.98	9.35	1.30
21.2	12	24	8.42	8.42	0.37	8.42	8.42	0.38	8.42	8.42	0.39	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	8.42	8.42	0.41	11.08	11.08	0.98	10.56	10.56	1.08	10.04	10.04	1.19	9.53	9.53	1.27
32.1	14		10.27	10.27	0.46	10.27	10.27	0.47	10.27	10.27	0.49	10.27	10.27	0.50	10.27	10.27	0.49	10.27	10.27	0.49	10.27	10.27	0.48	10.27	10.27	0.48	12.88	12.88	0.99	12.54	12.54	1.09	12.21	12.21	1.19	11.87	11.87	1.29
43.8	16		12.12	10.35	0.55	12.12	10.35	0.57	12.12	10.35	0.58	12.12	10.35	0.59	12.12	10.35	0.58	12.12	10.35	0.56	12.12	10.35	0.54	12.12	10.35	0.55	14.51	11.71	1.00	13.98	11.44	1.10	13.52	11.21	1.20	12.98	10.90	1.30
50	17		12.47	9.38	0.57	12.47	9.38	0.58	12.47	9.38	0.59	12.47	9.38	0.60	12.47	9.38	0.59	12.47	9.38	0.59	12.47	9.38	0.59	12.47	9.38	0.59	15.20	11.36	1.00	14.54	11.02	1.10	13.89	10.66	1.20	13.24	10.25	1.31
21.5	14	27	10.27	10.27	0.46	10.27	10.27	0.47	10.27	10.27	0.49	10.27	10.27	0.50	10.27	10.27	0.49	10.27	10.27	0.49	10.27	10.27	0.48	10.27	10.27	0.48	12.88	12.88	0.99	12.54	12.54	1.09	12.21	12.21	1.19	11.87	11.87	1.29
26.3	15		11.20	11.20	0.51	11.20	11.20	0.52	11.20	11.20	0.53	11.20	11.20	0.55	11.20	11.20	0.54	11.20	11.20	0.52	11.20	11.20	0.51	11.20	11.20	0.51	13.83	13.83	0.99	13.36	13.36	1.09	12.88	12.88	1.20	12.41	12.41	1.29
31.3	16		12.12	12.12	0.55	12.12	12.12	0.57	12.12	12.12	0.58	12.12	12.12	0.59	12.12	12.12	0.58	12.12	12.12	0.56	12.12	12.12	0.54	12.12	12.12	0.55	14.51	14.51	1.00	13.98	13.98	1.10	13.52	13.52	1.20	12.98	12.98	1.30

3D098208A

PAIR	FHQ140C	FBQ140D	FVQ140C	FCQHG140F	FCQG140F
Cooling	3.58	3.63	3.74	3.00	3.22

TWIN	FAQ71C x 2	FHQ71C x 2	FBQ71D x 2	FUQ71C x 2	FCQHG71F x 2	FCQG71F x 2
Cooling	3.69	3.67	4.10	3.44	2.97	3.17

TRIPLE	FHQ50C x 3	FBQ50D x 3	FDXS50F9 x 3	FFQ50C x 3	FCQG50F x 3
Cooling	3.66	3.97	3.45	3.23	3.17

DOUBLE TWIN	FHQ35C x 4	FBQ35D x 4	FDXS35F x 4	FFQ35C x 4	FCQG35F x 4
Cooling	3.64	3.74	3.94	3.01	3.23

Combinations with 14kW outdoor system

RZQG140L9V1 / RZQG140L7Y1

Indoor			Outdoor temperature [°C DB]																																	
			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
RH [%]	°CWB	°CDB	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
54.5	11	16	8.24	7.27	0.32	8.24	7.27	0.33	8.24	7.27	0.34	8.24	7.27	0.35	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.37	8.24	7.27	0.38	10.95	8.87	0.96	10.37	8.51	1.06	9.79	8.15	1.16	9.28	7.83	1.25
41.8	11	18	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38	10.95	9.96	0.96	10.37	9.62	1.06	9.79	9.27	1.16	9.28	8.92	1.25
57	13		10.28	8.22	0.41	10.28	8.22	0.42	10.28	8.22	0.43	10.28	8.22	0.45	10.28	8.22	0.45	10.28	8.22	0.44	10.28	8.22	0.44	10.28	8.22	0.44	12.72	9.56	0.97	12.18	9.25	1.07	11.65	8.93	1.17	11.07	8.58	1.26
31.4	11	20	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38	10.95	10.95	0.96	10.37	10.37	1.06	9.79	9.79	1.16	9.28	9.28	1.25
44.9	13		10.28	9.35	0.41	10.28	9.35	0.42	10.28	9.35	0.43	10.28	9.35	0.45	10.28	9.35	0.45	10.28	9.35	0.44	10.28	9.35	0.44	10.28	9.35	0.44	12.72	10.64	0.97	12.18	10.33	1.07	11.65	10.00	1.17	11.07	9.65	1.26
52	14		11.30	9.26	0.45	11.30	9.26	0.47	11.30	9.26	0.48	11.30	9.26	0.49	11.30	9.26	0.49	11.30	9.26	0.48	11.30	9.26	0.47	11.30	9.26	0.47	13.75	10.53	0.97	13.40	10.36	1.07	13.04	10.19	1.17	12.68	9.90	1.27
22.9	11	22	8.24	8.24	0.32	8.24	8.24	0.33	8.24	8.24	0.34	8.24	8.24	0.35	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.37	8.24	8.24	0.38	10.95	10.95	0.96	10.37	10.37	1.06	9.79	9.79	1.16	9.28	9.28	1.25
34.8	13		10.28	10.28	0.41	10.28	10.28	0.42	10.28	10.28	0.43	10.28	10.28	0.45	10.28	10.28	0.45	10.28	10.28	0.44	10.28	10.28	0.44	10.28	10.28	0.44	12.72	12.72	0.97	12.18	12.18	1.07	11.65	11.65	1.17	11.07	11.07	1.26
47.6	15		12.32	10.10	0.50	12.32	10.10	0.51	12.32	10.10	0.52	12.32	10.10	0.54	12.32	10.10	0.53	12.32	10.10	0.51	12.32	10.10	0.50	12.32	10.10	0.50	14.77	11.47	0.98	14.26	11.18	1.08	13.76	10.88	1.18	13.25	10.57	1.27
54.3	16		13.33	9.73	0.54	13.33	9.73	0.56	13.33	9.73	0.57	13.33	9.73	0.58	13.33	9.73	0.57	13.33	9.73	0.55	13.33	9.73	0.53	13.33	9.73	0.54	15.50	10.47	0.98	14.93	10.25	1.08	14.44	10.03	1.18	13.86	9.69	1.28
21.2	12	24	9.26	9.26	0.37	9.26	9.26	0.38	9.26	9.26	0.39	9.26	9.26	0.40	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	9.26	9.26	0.41	11.83	11.83	0.97	11.28	11.28	1.07	10.72	10.72	1.17	10.17	10.17	1.25
32.1	14		11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	13.75	13.75	0.97	13.40	13.40	1.07	13.04	13.04	1.17	12.68	12.68	1.27
43.8	16		13.33	11.20	0.54	13.33	11.20	0.56	13.33	11.20	0.57	13.33	11.20	0.58	13.33	11.20	0.57	13.33	11.20	0.55	13.33	11.20	0.53	13.33	11.20	0.54	15.50	12.14	0.98	14.93	11.86	1.08	14.44	11.62	1.18	13.86	11.30	1.28
50	17		13.72	10.15	0.56	13.72	10.15	0.57	13.72	10.15	0.58	13.72	10.15	0.59	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	13.72	10.15	0.58	16.23	11.78	0.98	15.53	11.43	1.08	14.83	11.06	1.18	14.14	10.63	1.29
21.5	14	27	11.30	11.30	0.45	11.30	11.30	0.47	11.30	11.30	0.48	11.30	11.30	0.49	11.30	11.30	0.49	11.30	11.30	0.48	11.30	11.30	0.47	11.30	11.30	0.47	13.75	13.75	0.97	13.40	13.40	1.07	13.04	13.04	1.17	12.68	12.68	1.27
26.3	15		12.32	12.32	0.50	12.32	12.32	0.51	12.32	12.32	0.52	12.32	12.32	0.54	12.32	12.32	0.53	12.32	12.32	0.51	12.32	12.32	0.50	12.32	12.32	0.50	14.77	14.77	0.98	14.26	14.26	1.08	13.76	13.76	1.18	13.25	13.25	1.27
31.3	16		13.33	13.33	0.54	13.33	13.33	0.56	13.33	13.33	0.57	13.33	13.33	0.58	13.33	13.33	0.57	13.33	13.33	0.55	13.33	13.33	0.53	13.33	13.33	0.54	15.50	15.50	0.98	14.93	14.93	1.08	14.44	14.44	1.18	13.86	13.86	1.28

3D098209A

PAIR	FHQ140C	FBQ140D	FVQ140C	FCQHG140F	FCQG140F
Cooling	4.05	4.00	4.17	4.00	4.17

TWIN	FAQ71C x 2	FHQ71C x 2	FBQ71D x 2	FUQ71C x 2	FCQHG71F x 2	FCQG71F x 2
Cooling	3.81	3.59	3.75	3.35	3.94	4.11

TRIPLE	FHQ50C x 3	FBQ50D x 3	FDXS50F9 x 3	FFQ50C x 3	FCQG50F x 3
Cooling	4.25	3.75	4.26	4.15	4.12

DOUBLE TWIN	FHQ35C x 4	FBQ35D x 4	FDXS35F x 4	FFQ35C x 4	FCQG35F x 4
Cooling	4.23	3.75	5.38	3.83	4.18

Notes

1. The ratings shown are net capacities and include a deduction for indoor fan motor heat.
2. The capacities are based on the following conditions:
   - Outdoor air: 85% RH
   - Corresponding refrigerant piping length: 5.0 m
   - Level difference: 0m
3. CPI is a percentage value compared to the rated value of 1.00
4. For infrastructure cooling applications, it is recommended to use remote controller setting 16(26)-2-03
5. The error rate for this value is less than 5% and depends on the indoor unit type
6. The rated power inputs (PI) for each model are listed in the table above

Seasonal Smart

Pair, Twin, Triple, double twin

Industry leading technology for commercial applications and even for technical rooms

- Energy labels up to A++ in both cooling and heating
- Compressor that offers substantial efficiency improvements
- Control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active)
- Heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load)
- Improved nominal performances
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days

Variable Refrigerant Temperature

- Suits high sensible, infrastructure cooling applications
- Re-use of existing R-22 or R-407C technology

- Extended operation range down to -20°C in heating and down to -15°C in cooling
- With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature

RZQG140L9V1//(L8)Y1

- Maximum piping length up to 75m, minimum piping length is 5m.
- Outdoor units for pair, twin, triple, double twin application
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Compatibility with D-BACS
- Units optimised for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season

RELIABLE, CONTINUOUS OPERATION 24/7 365

Twin, triple and double twin application

		FCQHG-F	FCQG-F				FFQ-C			FDXS-F (9)			FBQ-D				FHQ-C				FAQ-C	FUQ-C	FNQ-A		
capacity class		71	35	50	60	71	35	50	60	35	50	60	35	50	60	71	35	50	60	71	71	71	35	50	60
RZQG71L9V1	RZQG71L8Y1		2				2			2			2				2						2		
RZQG100L9V1	RZQG100L8Y1		3	2			3	2		3	2		3	2			3	2					3	2	
RZQG125L9V1	RZQG125L8Y1		4	3	2		4	3	2	4	3	2	4	3	2		4	3	2				4	3	2
RZQG140L9V1	RZQG140LY1	2	4	3		2	4	3		4	3		4	3		2	4	3		2	2	2	4	3	

Outdoor Units			RZQG71L9V1	RZQG100L9V1	RZQG125L9V1	RZQG140L9V1	RZQG71L8Y1	RZQG100L8Y1	RZQG125L8Y1	RZQG140LY1
Dimensions	Height x Width x Depth	mm	990 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320	990 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320	1430 x 940 x 320
Weight		kg	69	95	95	95	80	101	101	101
Electrical Details	Power Supply		1ph				3ph			
	Running Current	A	8.26	10.18	15.29	17.04	3.11	3.83	5.75	6.41
	Starting Current	A	4	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	16	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5			
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)			
Pipework	Maximum Length	m	50	75	75	75	50	75	75	75
	Maximum Vertical Rise	m	30	30	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual			
	Holding Charge	kg	2.9	4.0	4.0	4.0	2.9	4.0	4.0	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	48 / 43	50 / 45	51 / 45	52 / 45	48 / 43	50 / 45	51 / 45	52 / 45
Sound Power		dBA	64	66	67	69	64	66	67	69
Air Flow Rate (Cooling)	Nominal	m^3/sec	0.983	1.166	1.166	1.400	0.983	1.166	1.166	1.400
ECA Eligible			•				•			

RZQG-L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQG71L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	17,2	20	–	15,6	0,094	0,4	2x0.034	2x0.3
2xFNQ50A2VEB	RZQG100L9V1B				28,9	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ35A2VEB	RZQG100L9V1B				28,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.034	3x0.3
2xFNQ60A2VEB	RZQG125L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ50A2VEB	RZQG125L9V1B				29,5	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG125L9V1B				29,2	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3
3xFNQ50A2VEB	RZQG140L9V1B				29,5	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQG71-125L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQG71L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	16,4	20	51	15,6	0,094	0,4	0,07	0,5
2xFBQ35D2VEB	RZQG71L9V1B				17,1	20	–	15,6	0,094	0,4	2x0.089	2x0.6
FBQ100D2VEB	RZQG100L9V1B				28,9	32	49	24,2	0.094 + 0.094	0.4 + 0.4	0,127	1,0
2xFBQ50D2VEB	RZQG100L9V1B				29,1	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.089	2x0.6
3xFBQ35D2VEB	RZQG100L9V1B				29,7	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
FBQ125D2VEB	RZQG125L9V1B				29,5	32	64	24,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ60D2VEB	RZQG125L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.070	2x0.5
3xFBQ50D2VEB	RZQG125L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQG125-140L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
4xFBQ35D2VEB	RZQG125L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
FBQ140D2VEB	RZQG140L9V1B				29,5	32	68	24,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ71D2VEB	RZQG140L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG140L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG140L9V1B				30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQG125-140L9V1

Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB	x2	RZQG125L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum 264 V	28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG125L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG125L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG125L9V1B			28,6	–	32	–	24,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG125L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG125L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG125L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG125L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG125L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG125L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG125L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG125L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG125L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG125L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG125L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG125L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG125L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG125L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x3	0,5 x3
FCQHG71FVEB	x2	RZQG140L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum 264 V	28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG140L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG140L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG140L9V1B			28,6	–	32	–	24,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG140L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG140L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG140L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG140L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG140L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG140L9V1B			28,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG140L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG140L9V1B			30,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG140L9V1B			29,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG140L9V1B			29,8	–	32	–	24,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG140L9V1B			28,5	–	32	–	24,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG140L9V1B			29,3	–	32	–	24,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG140L9V1B			29,0	–	32	–	24,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG140L9V1B			29,4	–	32	–	24,2	0.094+0.094	0.4+0.4	0,060 x3	0,5 x3

Symbols
MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes
1. The RLA is based on the following conditions.
Cooling
Indoor temperature 27.0°C DB / 19.0°C WB
Outdoor temperature 35.0°C DB
Heating
Indoor temperature 20.0°C DB
Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
The capacity of the MFA must be greater than that of the MCA.
Select the MFA according to the table.

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RZQG125-140L9V1

Indoor		Outdoor	Hz~	Voltage	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG125FVEB		RZQG125L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG60FVEB	×2				28.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×2	0.3×2
FCQG125FVEB					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×4	0.4×4
FFQ50B9V1B	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×3	0.4×3
FFQ60B9V1B	×2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×2	0.6×2
FDXS35F2VEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	x3				29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.06×3	0.5×3
FDXS60F2VEB	×2				28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060×2	0.5×2
FBQ35C8VEB	×4				33.5	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ60C8VEB	×2				30.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ125C8VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FHQ35BWV1B	×4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.062×4	0.6×4
FHQ50BWV1B	×3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.062×3	0.6×3
FHQ60BWV1B	×2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.062×2	0.6×2
FHQG125CVEB					29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.6
FUQ125BWV1B					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.289	1.0
FDQ125C7VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FVQ125CVEB					29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.238	1.2
FHQ35CAVEB	x4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 4	0,6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ60CAVEB	x2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0,091 x 2	0,6 x 2
FHQ125CAVEB					29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.5
FUQ125CVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.106	1.4
FCQHG71FVEB	×2	RZQG140L9V1	50Hz 220-240V	Min. 198V Max. 264V	28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG71FVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.054×2	0.4×2
FCQG140FVEB					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×4	0.4×4
FFQ50C2VEB	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×3	0.4×3
FDXS35F2VEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	x3				29.4	—	33	—	25.2	0.094+0.094	0.4+0.4	0.06×3	0.5×3
FBQ35C8VEB	×4				33.5	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ71C8VEB	×2				30.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ140C8VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FAQ71CVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FVQ140CVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.276	1.4
FHQ35CAVEB	x4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 4	0,6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ71CAVEB	x2				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0,091 x 2	0,8 x 2
FHQ140CAVEB					29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.8
FUQ71CVEB	x2				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0,046 x 2	0,9 x 2

SYMBOLS

: Min. Circuit Amps. (A)
: Total Over-Current Amps. (A)
: Max. Fuse Amps. (See note 7) (A)
: Max. current during the starting compressor. (A)
: Rated Load Amps. (A)
: Outdoor Fan Motor. (A)
: Indoor Fan Motor.
: Full Load Amps.
: Fan Motor Rated Output. (kW)

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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RZQG140L9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
4xFNQ35A2VEB	RZQG140L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	29,2	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQG71-100L8Y1

Indoor		Outdoor	Phase – Hz Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQG71EVEB		RZQG71L8Y1B	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	11,5	–	16	–	9,6	0,094	0,4	0,048	0,4
FCQHG71FVEB					11,6	–	16	–	9,6	0,094	0,4	0,091	0,5
FCQG35FVEB	×2				11,8	–	16	–	9,6	0,094	0,4	0.044×2	0.3×2
FCQG71FVEB					11,5	–	16	–	9,6	0,094	0,4	0,054	0,4
FFQ35C2VEB	×2				12,0	–	16	–	9,6	0,094	0,4	0.05×2	0.4×2
FDXS35F2VEB	×2				11,8	–	16	–	9,6	0,094	0,4	0.034×2	0.3×2
FBQ35C8VEB	×2				14,0	–	16	–	9,6	0,094	0,4	0.140×2	1.2×2
FBQ71C8VEB					12,4	–	16	–	9,6	0,094	0,4	0,350	1,1
FAQ71CVEB					11,5	–	16	–	9,6	0,094	0,4	0,048	0,4
FVQ71CVEB					11,8	–	16	–	9,6	0,094	0,4	0,117	0,6
FHQ35CAVEB	x2				12,5	–	16	–	9,6	0,094	0,4	0.060x2	0.6 x 2
FHQ71CAVEB					12,0	–	16	–	9,6	0,094	0,4	0,091	0,8
FUQ71CVEB					12,1	–	16	–	9,6	0,094	0,4	0,046	0,9
FCQG100EVEB		RZQG100L8Y1B	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,106	1,0
FCQHG100FVEB					18,1	–	20	–	14,2	0.094+0.094	0.4+0.4	0,221	1,3
FCQG35FVEB	×3				17,6	–	20	–	14,2	0.094+0.094	0.4+0.4	0.044×3	0.3×3
FCQG50FVEB	×2				17,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0.039×2	0.3×2
FCQG100FVEB					17,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,117	0,7
FFQ35C2VEB	×3				18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FFQ50C2VEB	×2				17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0.05×2	0.4×2
FDXS35F2VEB	×3				17,6	–	20	–	14,2	0.094+0.094	0.4+0.4	0.034×3	0.3×3
FDXS50F2VEB9	x2				17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0.06x2	0.5x2
FBQ35C8VEB	×3				21,0	–	25	–	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ50C8VEB	×2				19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0.140×2	1.2×2
FBQ100C8VEB					18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,350	1,6
FAQ100CVEB					17,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,064	0,4
FVQ100CVEB					18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,238	1,2
FHQ35CAVEB	x3				18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x 3	0.6 x 3
FHQ50CAVEB	x2				18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x 2	0.6 x 2
FHQ100CAVEB					18,1	–	20	–	14,2	0.094+0.094	0.4+0.4	0,150	1,3
FUQ100CVEB					18,1	–	20	–	14,2	0.094+0.094	0.4+0.4	0,106	1,3

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output (kW)

NOTES

1 RLA is based on the following conditions:
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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RZQG71-100L8Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
FBQ71D2VEB	RZQG71L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	11.8	16	–	9,6	0,094	0,4	0,07	0,5
2xFBQ35D2VEB	RZQG71L8Y1B				12	16	–	9,6	0,094	0,4	2x0.089	2x0.6
FBQ100D2VEB	RZQG100L8Y1B				17.9	20	–	14,2	0.094 + 0.094	0.4 + 0.4	0,127	1,0
2xFBQ50D2VEB	RZQG100L8Y1B				18.1	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.089	2x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQG71-100L8Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFNQ35A2VEB	RZQG71L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	11,9	16	–	9,6	0,094	0,4	2x0.034	2x0.3
2xFNQ50A2VEB	RZQG100L8Y1B				17,9	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQG71-100L8Y1

Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG100FVEB		RZQG71L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	12,6	–	16	–	9,6	0,094	0,4	0,221	1,3
FCQG35FVEB	x3	RZQG71L8Y1B			12,1	–	16	–	9,6	0,094	0,4	0,044 x3	0,3 x3
FCQG50FVEB	x2	RZQG71L8Y1B			11,8	–	16	–	9,6	0,094	0,4	0,039 x2	0,3 x2
FCQG100FVEB		RZQG71L8Y1B			11,9	–	16	–	9,6	0,094	0,4	0,117	0,7
FFQ35C2VEB	x3	RZQG71L8Y1B			12,5	–	16	–	9,6	0,094	0,4	0,050 x3	0,4 x3
FFQ50C2VEB	x2	RZQG71L8Y1B			12,0	–	16	–	9,6	0,094	0,4	0,050 x2	0,4 x2
FBQ35D2VEB	x3	RZQG71L8Y1B			13,3	–	16	–	9,6	0,094	0,4	0,089 x3	0,6 x3
FBQ50D2VEB	x2	RZQG71L8Y1B			12,5	–	16	–	9,6	0,094	0,4	0,089 x2	0,6 x2
FBQ100D2VEB		RZQG71L8Y1B			12,3	–	16	–	9,6	0,094	0,4	0,127	1,0
FHQ35CAVEB	x3	RZQG71L8Y1B			13,3	–	16	–	9,6	0,094	0,4	0,060 x3	0,6 x3
FHQ50CAVEB	x2	RZQG71L8Y1B			12,5	–	16	–	9,6	0,094	0,4	0,060 x2	0,6 x2
FHQ100CAVEB		RZQG71L8Y1B			12,6	–	16	–	9,6	0,094	0,4	0,150	1,3
FUQ100CVEB		RZQG71L8Y1B			12,6	–	16	–	9,6	0,094	0,4	0,106	1,3
FAQ100CVEB		RZQG71L8Y1B			11,5	–	16	–	9,6	0,094	0,4	0,064	0,4
FVQ100CVEB		RZQG71L8Y1B			12,5	–	16	–	9,6	0,094	0,4	0,238	1,2
FDXS35F2VEB	x3	RZQG71L8Y1B			12,1	–	16	–	9,6	0,094	0,4	0,034 x3	0,3 x3
FDXS50F2VEB9	x2	RZQG71L8Y1B			12,3	–	16	–	9,6	0,094	0,4	0,060 x2	0,5 x2
FCQHG71FVEB	x2	RZQG100L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG100L8Y1B			18,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG100L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG100L8Y1B			17,6	–	20	–	14,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG100L8Y1B			17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG100L8Y1B			17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG100L8Y1B			18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG100L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG100L8Y1B			19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG100L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG100L8Y1B			17,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG100L8Y1B			18,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG100L8Y1B			19,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG100L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG100L8Y1B			18,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG100L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG100L8Y1B			18,8	–	20	–	14,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG100L8Y1B			17,5	–	20	–	14,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG100L8Y1B			18,3	–	20	–	14,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG100L8Y1B			18,0	–	20	–	14,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG100L8Y1B			18,4	–	20	–	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,5 x3

Symbols
MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes
1. The RLA is based on the following conditions.
Cooling
Indoor temperature 27.0°C DB / 19.0°C WB
Outdoor temperature 35.0°C DB
Heating
Indoor temperature 20.0°C DB
Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
The capacity of the MFA must be greater than that of the MCA.
Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
Earth leakage circuit breaker

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Indoor		Outdoor	Hz~	Voltage	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB		RZQG71L9V1	50Hz 220-240V	Min. 198V Max. 264V	18.2	—	20	—	15.6	0.094	0.4	0.091	0.5
FCQG35FVEB	×2				18.4	—	20	—	15.6	0.094	0.4	0.044×2	0.3×2
FCQG71FVEB					18.1	—	20	—	15.6	0.094	0.4	0.054	0.4
FFQ35C2VEB	×2				18.6	—	20	—	15.6	0.094	0.4	0.050×2	0.4×2
FDXS35F2VEB	×2				18.4	—	20	—	15.6	0.094	0.4	0.034×2	0.3×2
FBQ35C8VEB	×2				20.6	—	25	—	15.6	0.094	0.4	0.140×2	1.2×2
FBQ71C8VEB					19.0	—	20	—	15.6	0.094	0.4	0.350	1.1
FAQ71CVEB					18.1	—	20	—	15.6	0.094	0.4	0.048	0.4
FVQ71CVEB					18.4	—	20	—	15.6	0.094	0.4	0.117	0.6
FHQ35CAVEB	x2				19.1	—	20	—	15.6	0.094	0.4	0,060 x 2	0,6 x 2
FHQ71CAVEB					18.6	—	20	—	15.6	0.094	0.4	0.091	0.8
FUQ71CVEB					18.7	—	20	—	15.6	0.094	0.4	0.046	0.9
FCQHG100FVEB		RZQG100L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.221	1.3
FCQG35FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×3	0.3×3
FCQG50FVEB	×2				28.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×2	0.3×2
FCQG100FVEB					28.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.117	0.7
FFQ35C2VEB	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×3	0.4×3
FFQ50C2VEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.050×2	0.4×2
FDXS35F2VEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×3	0.3×3
FDXS50F2VEB9	x2				28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.06x2	0.5x2
FBQ35C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ50C8VEB	×2				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.140×2	1.2×2
FBQ100C8VEB					29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	1.6
FAQ100CVEB					28.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.064	0.4
FVQ100CVEB					29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.238	1.2
FHQ35CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.060 x 3	0,6 x 3
FHQ50CAVEB	x2				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 2	0,6 x 2
FHQ100CAVEB					29.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.150	1.3
FUQ100CVEB					29.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.106	1.3

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output. (kW)

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG100FVEB		RZQG71L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum 264 V	19,2	—	20	—	15,6	0,094	0,4	0,221	1,3
FCQG35FVEB	x3	RZQG71L9V1B			18,7	—	20	—	15,6	0,094	0,4	0,044 x3	0,3 x3
FCQG50FVEB	x2	RZQG71L9V1B			18,4	—	20	—	15,6	0,094	0,4	0,039 x2	0,3 x2
FCQG100FVEB		RZQG71L9V1B			18,5	—	20	—	15,6	0,094	0,4	0,117	0,7
FFQ35C2VEB	x3	RZQG71L9V1B			19,1	—	20	—	15,6	0,094	0,4	0,050 x3	0,4 x3
FFQ50C2VEB	x2	RZQG71L9V1B			18,6	—	20	—	15,6	0,094	0,4	0,050 x2	0,4 x2
FBQ35D2VEB	x3	RZQG71L9V1B			19,9	—	25	—	15,6	0,094	0,4	0,089 x3	0,6 x3
FBQ50D2VEB	x2	RZQG71L9V1B			19,1	—	20	—	15,6	0,094	0,4	0,089 x2	0,6 x2
FBQ100D2VEB		RZQG71L9V1B			18,9	—	20	—	15,6	0,094	0,4	0,127	1,0
FHQ35CAVEB	x3	RZQG71L9V1B			19,9	—	25	—	15,6	0,094	0,4	0,060 x3	0,6 x3
FHQ50CAVEB	x2	RZQG71L9V1B			19,1	—	20	—	15,6	0,094	0,4	0,060 x2	0,6 x2
FHQ100CAVEB		RZQG71L9V1B			19,2	—	20	—	15,6	0,094	0,4	0,150	1,3
FUQ100CVEB		RZQG71L9V1B			19,2	—	20	—	15,6	0,094	0,4	0,106	1,3
FAQ100CVEB		RZQG71L9V1B			18,1	—	20	—	15,6	0,094	0,4	0,064	0,4
FVQ100CVEB		RZQG71L9V1B			19,1	—	20	—	15,6	0,094	0,4	0,238	1,2
FDXS35F2VEB	x3	RZQG71L9V1B			18,7	—	20	—	15,6	0,094	0,4	0,034 x3	0,3 x3
FDXS50F2VEB9	x2	RZQG71L9V1B			18,9	—	20	—	15,6	0,094	0,4	0,060 x2	0,5 x2
FCQHG71FVEB	x2	RZQG100L9V1B	1~ 50Hz 220-240V	Minimum: 198 V Maximum 264 V	28,8	—	32	—	24,2	0,094+0,094	0,4+0,4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG100L9V1B			29,3	—	32	—	24,2	0,094+0,094	0,4+0,4	0,244	1,4
FCQG35FVEB	x4	RZQG100L9V1B			29,0	—	32	—	24,2	0,094+0,094	0,4+0,4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG100L9V1B			28,6	—	32	—	24,2	0,094+0,094	0,4+0,4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG100L9V1B			28,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG100L9V1B			28,8	—	32	—	24,2	0,094+0,094	0,4+0,4	0,168	1,0
FFQ35C2VEB	x4	RZQG100L9V1B			29,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG100L9V1B			29,0	—	32	—	24,2	0,094+0,094	0,4+0,4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG100L9V1B			30,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG100L9V1B			29,8	—	32	—	24,2	0,094+0,094	0,4+0,4	0,089 x3	0,6 x3
FHQ71D2VEB	x2	RZQG100L9V1B			28,8	—	32	—	24,2	0,094+0,094	0,4+0,4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG100L9V1B			29,4	—	32	—	24,2	0,094+0,094	0,4+0,4	0,187	1,5
FHQ35CAVEB	x4	RZQG100L9V1B			30,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG100L9V1B			29,8	—	32	—	24,2	0,094+0,094	0,4+0,4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG100L9V1B			29,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG100L9V1B			29,8	—	32	—	24,2	0,094+0,094	0,4+0,4	0,150	1,8
FUQ71CVEB	x2	RZQG100L9V1B			29,8	—	32	—	24,2	0,094+0,094	0,4+0,4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG100L9V1B			28,5	—	32	—	24,2	0,094+0,094	0,4+0,4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG100L9V1B			29,3	—	32	—	24,2	0,094+0,094	0,4+0,4	0,276	1,4
FDXS35F2VEB	x4	RZQG100L9V1B			29,0	—	32	—	24,2	0,094+0,094	0,4+0,4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG100L9V1B			29,4	—	32	—	24,2	0,094+0,094	0,4+0,4	0,060 x3	0,5 x3

Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
Cooling
Indoor temperature 27.0°C DB / 19.0°C WB
Outdoor temperature 35.0°C DB
Heating
Indoor temperature 20.0°C DB
Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
The capacity of the MFA must be greater than that of the MCA.
Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
Earth leakage circuit breaker

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RZQG100-125L8Y1

Unit combination			Minimum Ssc value [kVA]
FFQ35B9V1B	x3	RZQG100L8Y1B	936
FFQ50B9V1B	x2		951
FHQ35BWV1B	x3		977
FHQ50BWV1B	x2		936
FBQ35C8VEB	x3		1092
FBQ50C8VEB	x2		1014
FCQG35FVEB	x3		915
FCQG50FVEB	x2		899
FBQ100C8VEB	x1		962
FCQG100FVEB	x1		905
FCQHG100FVEB	x1		941
FAQ100CVEB	x1		884
FVQ100CVEB	x1		936
FHQG100CVEB	x1		936
FUQ100BWV1B	x1		925
FFQ35B9V1B	x4	RZQG125L8Y1B	962
FFQ50B9V1B	x3		993
FFQ60B9V1B	x2		951
FHQ35BWV1B	x4		1014
FHQ50BWV1B	x3		977
FHQ60BWV1B	x2		936
FBQ35C8VEB	x4		1170
FBQ50C8VEB	x3		1092
FBQ60C8VEB	x2		1003
FCQG35FVEB	x4		936
FCQG50FVEB	x3		915
FCQG60FVEB	x2		899
FBQ125C8VEB	x1		993
FCQG125FVEB	x1		925
FCQHG125FVEB	x1		951
FVQ125CVEB	x1		936
FHQG125CVEB	x1		962
FUQ125BWV1B	x1		925
FDQ125C7VEB	x1		993

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NOTES

- In accordance with EN/IEC 61000-3-12[(1)], it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc[(2)] ≧ minimum Ssc value.

- [(1)] European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≦ 75A per phase.
[(2)] Short-circuit power

RZQG100-140L(8)Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFBQ35D2VEB	RZQG100L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	18,7	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
FBQ125D2VEB	RZQG125L8Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ60D2VEB	RZQG125L8Y1B				18	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG125L8Y1B				18,8	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG125L8Y1B				19,4	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6
FBQ140D2VEB	RZQG140L7Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	0,187	1,5
2xFBQ71D2VEB	RZQG140L7Y1B				18	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQG140L7Y1B				18,8	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQG140L7Y1B				19,4	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

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RZQG100-140L(8)Y1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFNQ35A2VEB	RZQG100L8Y1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	17,8	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.034	3x0.3
2xFNQ60A2VEB	RZQG125L8Y1B				18	20	–	14,2	0.094 + 0.094	0.4 + 0.4	2x0.06	2x0.5
3xFNQ50A2VEB	RZQG125L8Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG125L8Y1B				18,2	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3
3xFNQ50A2VEB	RZQG140L7Y1B				18,5	20	–	14,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4xFNQ35A2VEB	RZQG140L7Y1B				18,2	20	–	14,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

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RZQG125-140L(8)Y1

Indoor		Outdoor	Phase – Hz Power Supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQG125EVEB		RZQG125L8Y1B	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1
FCQHG125FVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG60FVEB	×2				17,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×2	0.3×2
FCQG125FVEB					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	×4				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×4	0.4×4
FFQ50C2VEB	×3				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FFQ60C2VEB	×2				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×2	0.6×2
FDXS35F2VEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	×3				18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0.06x3	0.5x3
FDXS60F2VEB	×2				17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060×2	0.5×2
FBQ35C8VEB	×4				22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ60C8VEB	×2				19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ125C8VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1
FDQ125C7VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1
FVQ125CVEB					18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,238	1,2
FHQ35CAVEB	x4				19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060 x 4	0,6 x 4
FHQ50CAVEB	x3				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.060 x 3	0,6 x 3
FHQ60CAVEB	x2				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091 x 2	0,6 x 2
FHQ125CAVEB					18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,5
FUQ125CVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,4
FCQG71EVEB	×2	RZQG140L7Y1B	3N ~ 50Hz 380-415V	Min. 342V Max. 456V	17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FCQG140EVEB					17,9	—	20	—	14,2	0.094+0.094	0.4+0.4	0,106	1,1
FCQHG71FVEB	×2				17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB					18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG71FVEB	×2				17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.054×2	0.4×2
FCQG140FVEB					17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	×4				18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×4	0.4×4
FFQ50C2VEB	×3				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FDXS35F2VEB	×4				18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	×4				18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0.06x3	0.5x3
FBQ35C8VEB	×4				22,5	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				21,0	—	25	—	14,2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ71C8VEB	×2				19,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ140C8VEB					19,1	—	20	—	14,2	0.094+0.094	0.4+0.4	0,350	2,1
FHQ140CAVEB					18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2				18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0.046 x 2	0,9 x 2

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output (kW)

NOTES

1 RLA is based on the following conditions:
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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RZQG125-140L(8)Y1

Infrastructure Cooling

Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	Compressor MSC	Compressor RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB	x2	RZQG125L8Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG125L8Y1B			18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG125L8Y1B			18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG125L8Y1B			17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG125L8Y1B			17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG125L8Y1B			17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG125L8Y1B			18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG125L8Y1B			18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG125L8Y1B			19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG125L8Y1B			18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG125L8Y1B			17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG125L8Y1B			18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG125L8Y1B			19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG125L8Y1B			18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG125L8Y1B			18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG125L8Y1B			18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG125L8Y1B			18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG125L8Y1B			17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG125L8Y1B			18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG125L8Y1B			18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG125L8Y1B			18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,5 x3
FCQHG71FVEB	x2	RZQG140L7Y1B	3N~ 50Hz 380-415V	Minimum: 342 V Maximum 456 V	17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,5 x2
FCQHG140FVEB		RZQG140L7Y1B			18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,244	1,4
FCQG35FVEB	x4	RZQG140L7Y1B			18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,044 x4	0,3 x4
FCQG50FVEB	x3	RZQG140L7Y1B			17,6	—	20	—	14,2	0.094+0.094	0.4+0.4	0,039 x3	0,3 x3
FCQG71FVEB	x2	RZQG140L7Y1B			17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,054 x2	0,4 x2
FCQG140FVEB		RZQG140L7Y1B			17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,168	1,0
FFQ35C2VEB	x4	RZQG140L7Y1B			18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,050 x4	0,4 x4
FFQ50C2VEB	x3	RZQG140L7Y1B			18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,050 x3	0,4 x3
FBQ35D2VEB	x4	RZQG140L7Y1B			19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,089 x4	0,6 x4
FBQ50D2VEB	x3	RZQG140L7Y1B			18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,089 x3	0,6 x3
FBQ71D2VEB	x2	RZQG140L7Y1B			17,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,070 x2	0,5 x2
FBQ140D2VEB		RZQG140L7Y1B			18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,187	1,5
FHQ35CAVEB	x4	RZQG140L7Y1B			19,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x4	0,6 x4
FHQ50CAVEB	x3	RZQG140L7Y1B			18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,6 x3
FHQ71CAVEB	x2	RZQG140L7Y1B			18,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,091 x2	0,8 x2
FHQ140CAVEB		RZQG140L7Y1B			18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,150	1,8
FUQ71CVEB	x2	RZQG140L7Y1B			18,8	—	20	—	14,2	0.094+0.094	0.4+0.4	0,046 x2	0,9 x2
FAQ71CVEB	x2	RZQG140L7Y1B			17,5	—	20	—	14,2	0.094+0.094	0.4+0.4	0,048 x2	0,4 x2
FVQ140CVEB		RZQG140L7Y1B			18,3	—	20	—	14,2	0.094+0.094	0.4+0.4	0,276	1,4
FDXS35F2VEB	x4	RZQG140L7Y1B			18,0	—	20	—	14,2	0.094+0.094	0.4+0.4	0,034 x4	0,3 x4
FDXS50F2VEB9	x3	RZQG140L7Y1B			18,4	—	20	—	14,2	0.094+0.094	0.4+0.4	0,060 x3	0,5 x3

Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes

1. The RLA is based on the following conditions.
   Cooling
   Indoor temperature 27.0°C DB / 19.0°C WB
   Outdoor temperature 35.0°C DB
   Heating
   Indoor temperature 20.0°C DB
   Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
   The capacity of the MFA must be greater than that of the MCA.
   Select the MFA according to the table.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker

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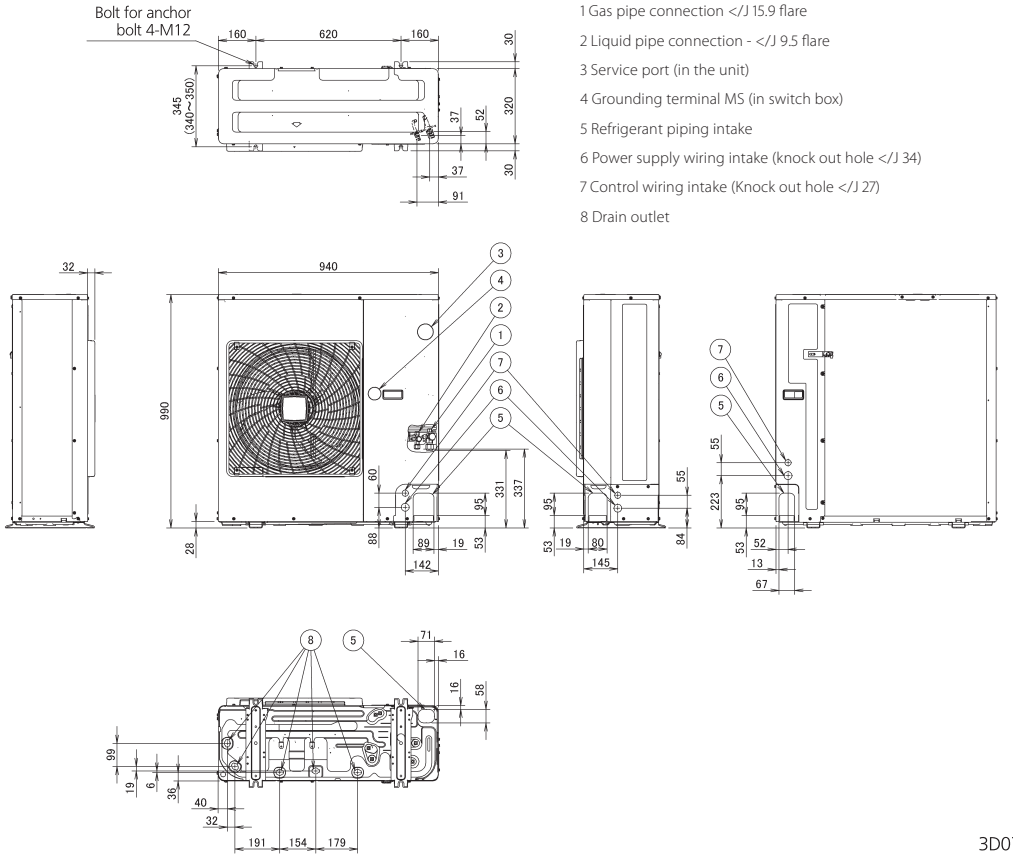
RZAG-LV1

RZQG-L9V1/L8Y1



1 Gas pipe connection </J 15.9 flare
2 Liquid pipe connection - </J 9.5 flare
3 Service port (in the unit)
4 Grounding terminal MS (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole </J 34)
7 Control wiring intake (Knock out hole </J 27)
8 Drain outlet

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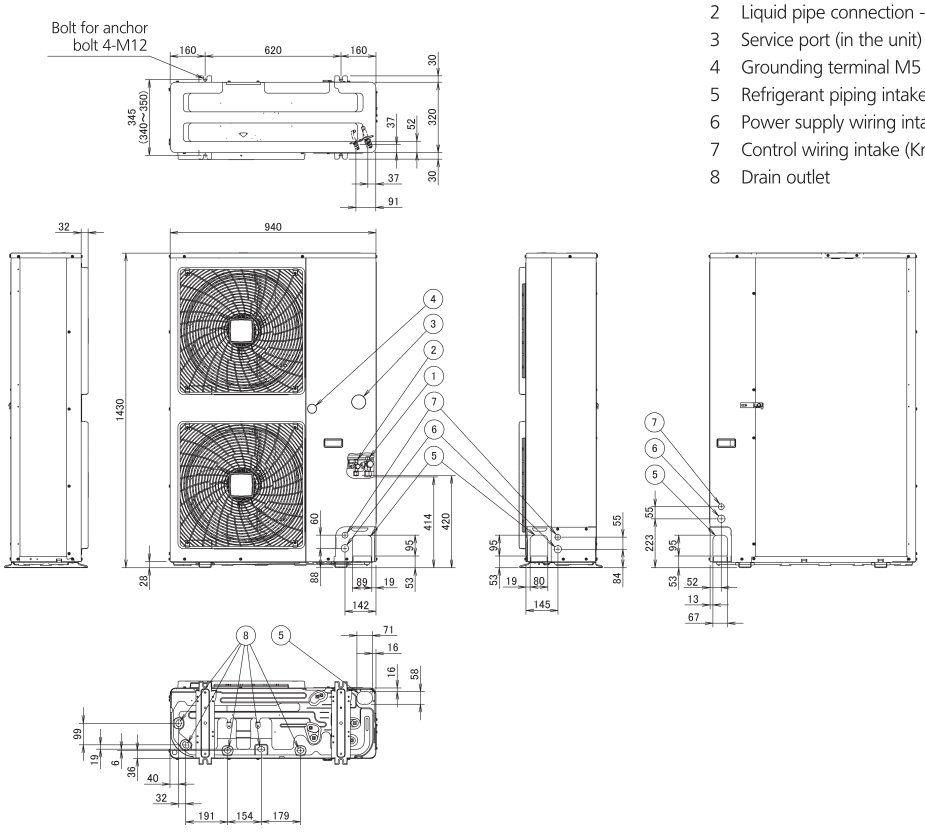
RZQG100-140L9V1/L8Y1



1 Gas pipe connection ϕ 15.9 flare
2 Liquid pipe connection - ϕ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ 34)
7 Control wiring intake (Knock out hole ϕ 27)
8 Drain outlet

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RZQG-L9V1/L8Y1

RZQG-L9V1

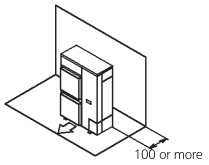
Installation service space

The measure of these values is "mm".

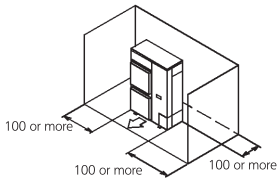
(A) When there are obstacles on suction sides.

- **No obstacle above**

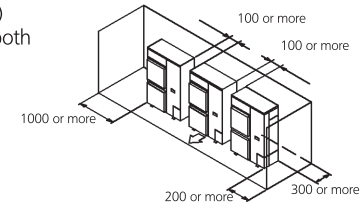
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

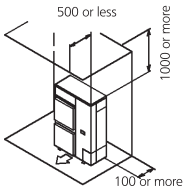


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

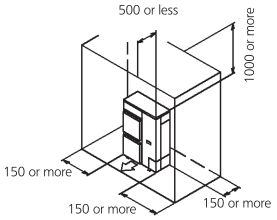


- **Obstacle above, too.**

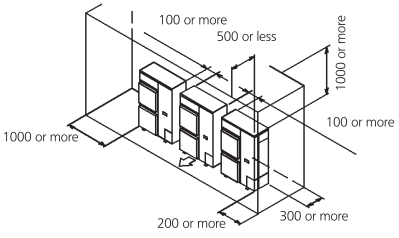
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



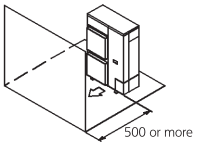
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



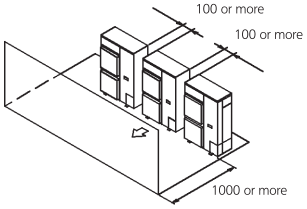
(B) When there are obstacles on discharge sides.

- **No obstacle above**

① Stand-alone installation
- Obstacle on the discharge side only

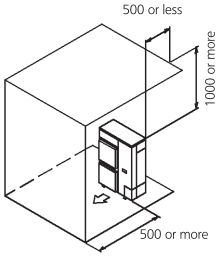


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

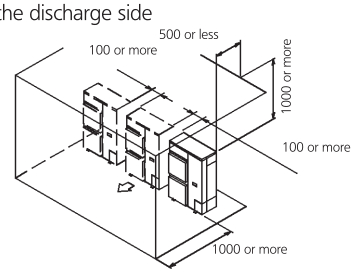


- **Obstacle above, too**

① Stand-alone installation
- Obstacle on the discharge side only, too



② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side



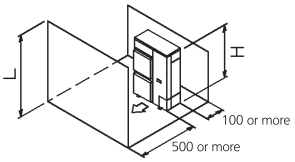
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

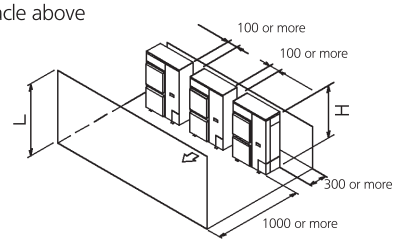
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

① Stand-alone installation
- No obstacle above



② Series installation (2 or more) (Note 1)
- No obstacle above



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RZQG-L9V1/L8Y1

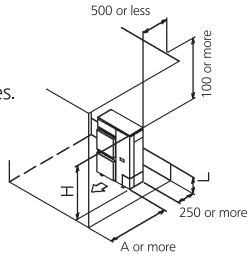
● Obstacle above, too

① Stand-alone installation (Note 2)

● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	750 or more
	1/2 H < L ≦ H	1000 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	



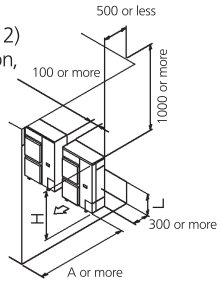
② Series installation (2 or more) (Note 1, 2)

● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	1000 or more
	1/2 H < L ≦ H	1250 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.



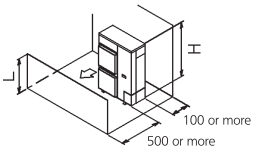
Pattern 2

When the obstacle on the discharge side is lower than the unit (L ≦ H)
(There is no limit for the height of obstructions on the suction side.)

● No obstacle above

① Stand-alone installation

● No obstacle above

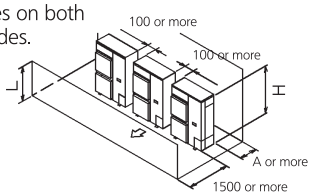


② Series installation (2 or more) (Note 1, 2)

● When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

L	A
L ≦ 1/2 H	250 or more
1/2 H < L ≦ H	300 or more



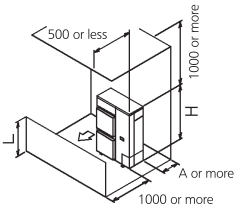
● obstacle above

① Stand-alone installation (Note 2)

● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	100 or more
	1/2 H < L ≦ H	200 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	



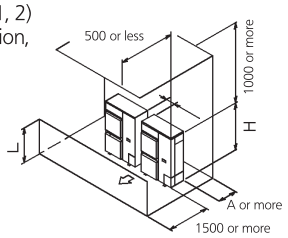
② Series installation (2 or more) (Note 1, 2)

● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

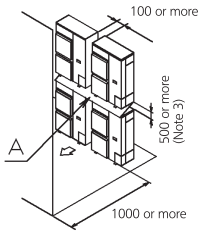
Limit of series installation is 2 units.



(D) Double-decker installation

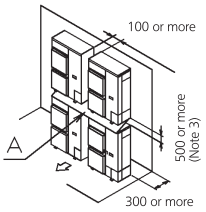
① Obstacle on the discharge side. (1)

● Do not exceed two levels for stacked installation.
● Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
● Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



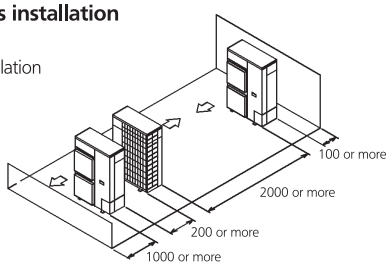
② Obstacle on the suction side. (1)

● Do not exceed two levels for stacked installation.
● Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
● Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



(E) Multiple rows of series installation (on the rooftop, etc.)

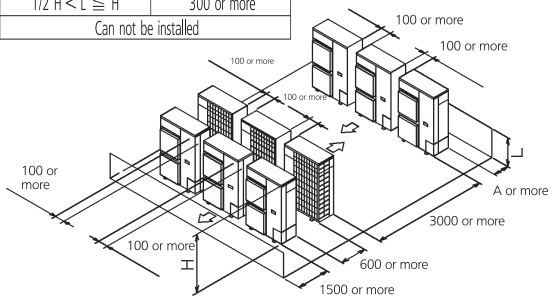
① One row of stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Can not be installed	



NOTES

1 In case of the sideway's piping, make a 100mm gap between the unit above.
2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between the upper and lower outdoor units should be at least 100mm. Close off the gap between the upper and lower units so there is no reintake of discharged air.

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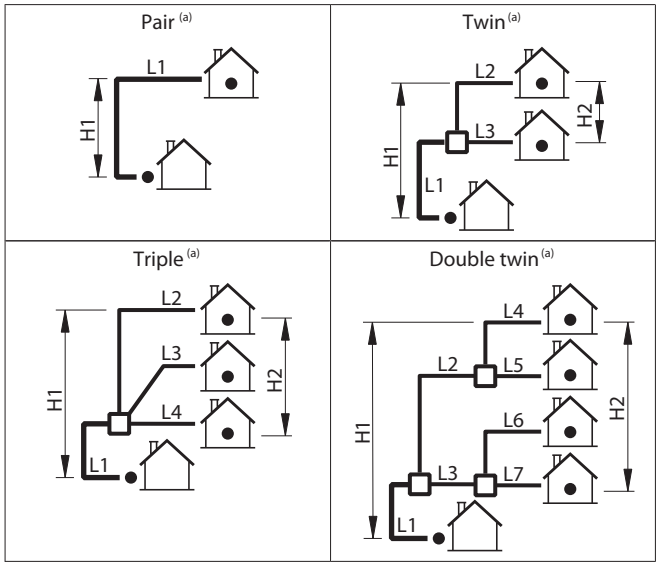
3.4 Charging refrigerant

3.4.1 Definitions: L1~L7, H1, H2



(a) Assume that the longest line in the illustration corresponds with the actual longest pipe, and the highest unit in the illustration corresponds with the actual highest unit.

L1 Main piping

L2~L7 Branch piping

H1 Height difference between the highest indoor unit and the outdoor unit

H2 Height difference between the highest and the lowest indoor unit

□ Refrigerant branch kit

3.4.2 To determine the additional refrigerant amount

To determine if adding additional refrigerant is necessary

If	Then
(L1+L2+L3+L4+L5+L6+L7)≤ chargeless length Chargeless length= ▪ 10 m (size-down) ▪ 30 m (standard) ▪ 15 m (size-up)	You do not have to add additional refrigerant.
(L1+L2+L3+L4+L5+L6+L7)> chargeless length	You must add additional refrigerant. For future servicing, encircle the selected amount in the tables below.

INFORMATION

Piping length is the largest one way length of liquid piping.

To determine the additional refrigerant amount (R in kg) (in case of pair)

	L1 (m)			
L1 (standard):	30~40 m	40~50 m	50~60 m (a)	60~75 m (a)
L1 (size-up):	15~20 m	20~25 m	25~30 m (a)	30~35 m (a)
R:	0.5 kg	1.0 kg	1.5 kg	2.0 kg

(a) Only for RZQG100~140.

To determine the additional refrigerant amount (R in kg) (in case of twin, triple and double twin)

1 Determine G1 and G2.

G1 (m)	Total length of <x> liquid piping x=Ø9.5 mm (standard) x=Ø12.7 mm (size-up)
G2 (m)	Total length of Ø6.4 mm liquid piping

2 Determine R1 and R2.

If	Then
G1>30 m (a)	Use the table below to determine R1 (length= G1−30 m)(a) and R2 (length=G2).
G1≤30 m (a) (and G1+G2>30 m) (a)	R1=0.0 kg. Use the table below to determine R2 (length= G1+G2−30 m)(a).

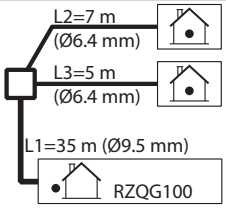
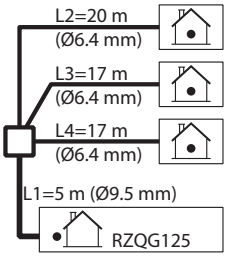
(a) In case of size-up: Replace 30 m by 15 m.

In case of standard liquid pipe size:					
		Length			
		0~10 m	10~20 m	20~30 m (a)	30~45 m (a)
	R1:	0.5 kg	1.0 kg	1.5 kg	2.0 kg
	R2:	0.3 kg	0.6 kg	0.9 kg	1.2 kg
In case of size-up liquid pipe size:					
		Length			
		0~5 m	5~10 m	10~15 m (a)	15~20 m (a)
	R1, R2:	0.5 kg	1.0 kg	1.5 kg	2.0 kg

(a) Only for RZQG100~140.

3 Determine the additional refrigerant amount: R=R1+R2.

Examples

Layout	Additional refrigerant amount (R)		
	Case: Twin, standard liquid pipe size		
	1	G1	Total Ø9.5 => G1=35 m
		G2	Total Ø6.4 => G2=7+5=12 m
	2	Case: G1>30 m	
		R1	Length=G1−30 m=5 m => R1=0.5 kg
		R2	Length=G2=12 m => R2=0.6 kg
	3	R	R=R1+R2=0.5+0.6=1.1 kg
	Case: Triple, standard liquid pipe size		
	1	G1	Total Ø9.5 => G1=5 m
		G2	Total Ø6.4 => G2=20+17+17=54 m
	2	Case: G1≤30 m (and G1+G2>30 m)	
		R1	R1=0.0 kg
		R2	Length=G1+G2−30 m=5+54−30=29 m => R2=0.9 kg
	3	R	R=R1+R2=0.0+0.9=0.9 kg

Seasonal Classic

Pair, Twin, Triple, double twin

RZQSG100-125L3/9V1/L(8)Y1

Technology and comfort combined for commercial applications

- Energy labels up to A++ (cooling) /A+ (heating) for RZQG71/100L9V1 + FCQG71/100F
- Compressor that offers substantial efficiency improvements
- Control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active)
- Heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load)
- Improved nominal performances
- Re-use of existing R-22 or R-407C technology

- Guarantees operation in both heating and cooling mode down to -15°C
- With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
- Maximum piping length up to 50m, minimum piping length is 5m.
- Outdoor units for pair, twin, triple, double twin application
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Compatibility with D-BACS
- Units optimised for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season

Twin, triple and double twin application

		FCQHG-F	FCQG-F				FFQ-C			FDXS-F(9)			FBQ-D				FHQ-C				FAQ-C	FNQ-A		
capacity class		71	35	50	60	71	35	50	60	35	50	60	35	50	60	71	35	50	60	71	71	35	50	60
RZQSG71L3V1			2				2			2			2				2					2		
RZQSG100L9V1	RZQSG100L8Y1		3	2			3	2		3	2		3	2			3	2				3	2	
RZQSG125L9V1	RZQSG125L8Y1		4	3	2		4	3	2	4	3	2	4	3	2		4	3	2			4	3	2
RZQSG140L9V1	RZQSG140LY1	2	4	3		2	4	3		4	3		4	3		2	4	3		2	2	4	3	

Outdoor Units			RZQSG71L3V1	RZQSG100L9V1	RZQSG125L9V1	RZQSG140L9V1	RZQSG100L8Y1	RZQSG125L8Y1	RZQSG140LY1
Dimensions	Height x Width x Depth	mm	770 x 900 x 320	990 x 940 x 320		1430 x 940 x 320	990 x 940 x 320		1430 x 940 x 320
Weight		kg	72	74		104	82		101
Electrical Details	Power Supply		1ph				3ph		
	Running Current	A	8.66	12.10	17.45	18.19	4.55	6.56	6.84
	Starting Current	A	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)		
Pipework	Maximum Length	m	50	50	50	50	50	50	50
	Maximum Vertical Rise	m	15	30	30	30	30	30	30
	Precharged to	m	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual		
	Holding Charge	kg	2.75	2.9	2.9	4.0	2.9	2.9	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	49 / 49	53 / 49	54 / 49	53 / 49	53 / 49	54 / 49	53 / 49
Sound Power		dBA	65	70	70	69	70	70	69
Air Flow Rate (Cooling)	High	m^3/sec	0.833	1.266	1.283	1.383	1.266	1.283	1.383

RZQSG-L3_9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2×FNQ35A2VEB	RZQSG71L3V1B	3N~ 50Hz	380–415V	MAX. 50Hz 456V MIN. 50Hz 342V	19	20	–	16,2	0.07	0.3	2x0.034	2x0.3
2×FNQ50A2VEB	RZQSG100L9V1B				28,9	32	–	24,4	0,2	0,6	2x0.06	2x0.5
3×FNQ35A2VEB	RZQSG100L9V1B				28,8	32	–	24,4	0,2	0,6	3x0.034	3x0.3
2×FNQ60A2VEB	RZQSG125L9V1B				29	32	–	24,4	0,2	0,6	2x0.06	2x0.5
3×FNQ50A2VEB	RZQSG125L9V1B				29,5	32	–	24,4	0,2	0,6	3x0.06	3x0.5
4×FNQ35A2VEB	RZQSG125L9V1B				29,2	32	–	24,4	0,2	0,6	4x0.034	4x0.3
3×FNQ50A2VEB	RZQSG140L9V1B				29,5	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.06	3x0.5
4×FNQ35A2VEB	RZQSG140L9V1B				29,2	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.034	4x0.3

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]
OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQSG71-100L3_9V1

Indoor		Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG125FVEB		RZQSG125L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.3	—	32	—	24.4	0.2	0.6	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.4	0.2	0.6	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.4	0.2	0.6	0.039×3	0.3×3
FCQG60FVEB	×2				28.3	—	32	—	24.4	0.2	0.6	0.044×2	0.3×2
FCQG125FVEB					28.8	—	32	—	24.4	0.2	0.6	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.4	0.2	0.6	0.05×4	0.4×4
FFQ50C2VEB	×3				29.0	—	32	—	24.4	0.2	0.6	0.05×3	0.4×3
FFQ60C2VEB	×2				29.0	—	32	—	24.4	0.2	0.6	0.05×2	0.6×2
FDXS35F2VEB	×4				29.0	—	32	—	24.4	0.2	0.6	0.034×4	0.3×4
FDXS50F2VEB9	×3				29.4	—	32	—	24.4	0.2	0.6	0.06x3	0.5x3
FDXS60F2VEB	×2				28.8	—	32	—	24.4	0.2	0.6	0.060×2	0.5×2
FBQ35C8VEB	×4				33.5	—	40	—	24.4	0.2	0.6	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.4	0.2	0.6	0.140×3	1.2×3
FBQ60C8VEB	×2				30.3	—	32	—	24.4	0.2	0.6	0.350×2	1.1×2
FBQ125C8VEB					30.1	—	32	—	24.4	0.2	0.6	0.350	2.1
FDQ125C7VEB					30.1	—	32	—	24.4	0.2	0.6	0.350	2.1
FVQ125CVEB					29.0	—	32	—	24.4	0.2	0.6	0.238	1.2
FHQ35CAVEB	x4				30.5	—	32	—	24.4	0.2	0.6	0,060x4	0,6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.4	0.2	0.6	0,060x3	0,6 x 3
FHQ60CAVEB	x2				29.0	—	32	—	24.4	0.2	0.6	0,091x2	0,6 x 2
FHQ125CAVEB					29.4	—	32	—	24.4	0.2	0.6	0.150	1.5
FCQHG71FVEB	×2	RZQSG140L9V1	50Hz 220-240V	Min. 198V Max. 264V	28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.091×2	0.5×2
FCQHG140FVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.244	1.4
FCQG35FVEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.044×4	0.3×4
FCQG50FVEB	×3				28.6	—	32	—	24.2	0.094+0.094	0.4+0.4	0.039×3	0.3×3
FCQG71FVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.054×2	0.4×2
FCQG140FVEB					28.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.168	1.0
FFQ35C2VEB	×4				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.05×4	0.4×4
FFQ50C2VEB	×3				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.05×3	0.4×3
FDXS35F2VEB	×4				29.0	—	32	—	24.2	0.094+0.094	0.4+0.4	0.034×4	0.3×4
FDXS50F2VEB9	×3				29.4	—	32	—	24.2	0.094+0.094	0.4+0.4	0.06x3	0.5x3
FBQ35C8VEB	×4				33.5	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×4	1.2×4
FBQ50C8VEB	×3				32.0	—	40	—	24.2	0.094+0.094	0.4+0.4	0.140×3	1.2×3
FBQ71C8VEB	×2				30.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350×2	1.1×2
FBQ140C8VEB					30.1	—	32	—	24.2	0.094+0.094	0.4+0.4	0.350	2.1
FAQ71CVEB	×2				28.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0.048×2	0.4×2
FVQ140CVEB					29.3	—	32	—	24.2	0.094+0.094	0.4+0.4	0.276	1.4
FHQ35CAVEB	x4				30.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 4	0,6 x 4
FHQ50CAVEB	x3				29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0,060 x 3	0,6 x 3
FHQ71CAVEB	x2				29.5	—	32	—	24.2	0.094+0.094	0.4+0.4	0,091 x 2	0,8 x 2
FHQ140CAVEB					29.8	—	32	—	24.2	0.094+0.094	0.4+0.4	0.15	1.8

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output. (kW)

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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RZQSG71-100L3_9V1

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFBQ60D2VEB	RZQSG125L9V1B	50	220–240V	MAX. 50Hz 264V MIN. 50Hz 198V	29	32	–	24,4	0,2	0,6	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG125L9V1B				29,8	32	–	24,4	0,2	0,6	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG125L9V1B				30,4	32	–	24,4	0,2	0,6	4x0.089	4x0.6
FBQ140D2VEB	RZQSG140L9V1B				29,5	32	74	24,2	0.094 + 0.094	0.4 + 0.4	0.187	1.5
2xFBQ71D2VEB	RZQSG140L9V1B				29	32	–	24,2	0.094 + 0.094	0.4 + 0.4	2x0.07	2x0.5
3xFBQ50D2VEB	RZQSG140L9V1B				29,8	32	–	24,2	0.094 + 0.094	0.4 + 0.4	3x0.089	3x0.6
4xFBQ35D2VEB	RZQSG140L9V1B				30,4	32	–	24,2	0.094 + 0.094	0.4 + 0.4	4x0.089	4x0.6

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQSG71-100L3_9V1

Indoor		Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB		RZQSG71L3V1	50Hz 220-240V	Min. 198V Max. 264V	18.8	—	20	—	16.2	0.07	0.3	0.091	0.5
FCQG35FVEB	×2				18.9	—	20	—	16.2	0.07	0.3	0.044×2	0.3×2
FCQG71FVEB					18.7	—	20	—	16.2	0.07	0.3	0.054	0.4
FFQ35C2VEB	×2				19.2	—	20	—	16.2	0.07	0.3	0.050×2	0.4×2
FDXS35F2VEB	×2				18.9	—	20	—	16.2	0.07	0.3	0.034×2	0.3×2
FBQ35C8VEB	×2				21.2	—	25	—	16.2	0.07	0.3	0.140×2	1.2×2
FBQ71C8VEB					19.5	—	20	—	16.2	0.07	0.3	0.350	1.1
FAQ71CVEB					18.7	—	20	—	16.2	0.07	0.3	0.048	0.4
FVQ71CVEB					18.9	—	20	—	16.2	0.07	0.3	0.117	0.6
FHQ35CAVEB	x2				19.1	—	20	—	15.7	0.07	0.3	0,060 x 2	0,6 x 2
FHQ71CAVEB					18.6	—	20	—	15.7	0.07	0.3	0.091	0.8
FCQHG100FVEB		RZQSG100L9V1	50Hz 220-240V	Min. 198V Max. 264V	29.1	—	32	—	24.4	0.2	0.6	0.221	1.3
FCQG35FVEB	×3				28.6	—	32	—	24.4	0.2	0.6	0.044×3	0.3×3
FCQG50FVEB	×2				28.3	—	32	—	24.4	0.2	0.6	0.039×2	0.3×2
FCQG100FVEB					28.4	—	32	—	24.4	0.2	0.6	0.117	0.7
FFQ35C2VEB	×3				29.0	—	32	—	24.4	0.2	0.6	0.05×3	0.4×3
FFQ50C2VEB	×2				28.5	—	32	—	24.4	0.2	0.6	0.05×2	0.4×2
FDXS35F2VEB	×3				28.6	—	32	—	24.4	0.2	0.6	0.034×3	0.3×3
FDXS50F2VEB9	×2				28.8	—	32	—	24.4	0.2	0.6	0.06x2	0.5x2
FBQ35C8VEB	×3				32.0	—	40	—	24.4	0.2	0.6	0.140×3	1.2×3
FBQ50C8VEB	×2				30.5	—	32	—	24.4	0.2	0.6	0.140×2	1.2×2
FBQ100C8VEB					29.5	—	32	—	24.4	0.2	0.6	0.350	1.6
FAQ100CVEB					28.0	—	32	—	24.4	0.2	0.6	0.064	0.4
FVQ100CVEB					29.0	—	32	—	24.4	0.2	0.6	0.238	1.2
FHQ35CAVEB	x3				29.8	—	32	—	24.4	0.2	0.6	0,060 x 3	0,6 x 3
FHQ50CAVEB	x2				29.0	—	32	—	24.4	0.2	0.6	0,060 x 2	0,6 x 2
FHQ100CAVEB					29.1	—	32	—	24.4	0.2	0.6	0.150	1.3

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output. (kW)

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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RZQSG71L3V1

Indoor		Outdoor	Hz-Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM kW	OFM FLA	IFM kW	IFM FLA
FCQHG71FVEB		RZQSG71L3V1	50Hz 220-240V	Min. 198V Max. 264V	18.8	—	20	—	16.2	0.07	0.3	0.091	0.5
FCQG35FVEB	×2				18.9	—	20	—	16.2	0.07	0.3	0.044×2	0.3×2
FCQG71FVEB					18.7	—	20	—	16.2	0.07	0.3	0.054	0.4
FFQ35B9V1B	×2				19.2	—	20	—	16.2	0.07	0.3	0.055×2	0.4×2
FFQ35C2VEB	x2				18.9	—	20	—	16.2	0.07	0.3	0.050x2	0.3x2
FBQ35C8VEB	×2				21.2	—	25	—	16.2	0.07	0.3	0.140×2	1.2×2
FBQ71C8VEB					19.5	—	20	—	16.2	0.07	0.3	0.350	1.1
FHQ35BW1B	×2				19.7	—	20	—	16.2	0.07	0.3	0.062×2	0.6×2
FHQG71CVEB					19.2	—	20	—	16.2	0.07	0.3	0.091	0.8
FAQ71CVEB					18.7	—	20	—	16.2	0.07	0.3	0.048	0.4
FVQ71CVEB					18.9	—	20	—	16.2	0.07	0.3	0.117	0.6
FFQ35C2VEB	x2				19.2	—	20	—	16.2	0.07	0.3	0.050x2	0.4x2
FDXS35F2VEB	x2				18.9	—	20	—	16.2	0.07	0.3	0.034x2	0.3x2

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps. (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output. (kW)

NOTES

1 RLA is based on the following conditions:
Power supply: 50Hz 230V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB

2 TOCA means the total value of each OC set.

3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below orabove listed range limits.

4 Maximum allowable voltage variation between phases is 2%.

5 MCA represents maximum input current. MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)

6 Select wire size based on the larger value of MCA or TOCA.

7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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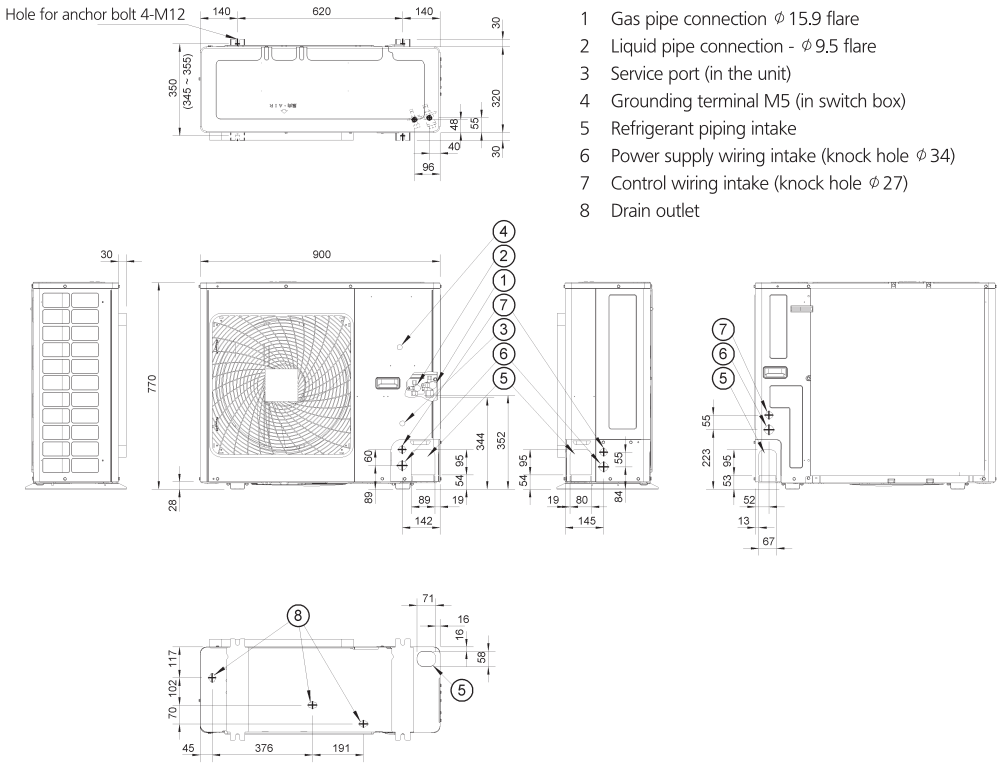
RZQSG71L3V1



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock hole ϕ34)
7 Control wiring intake (knock hole ϕ27)
8 Drain outlet

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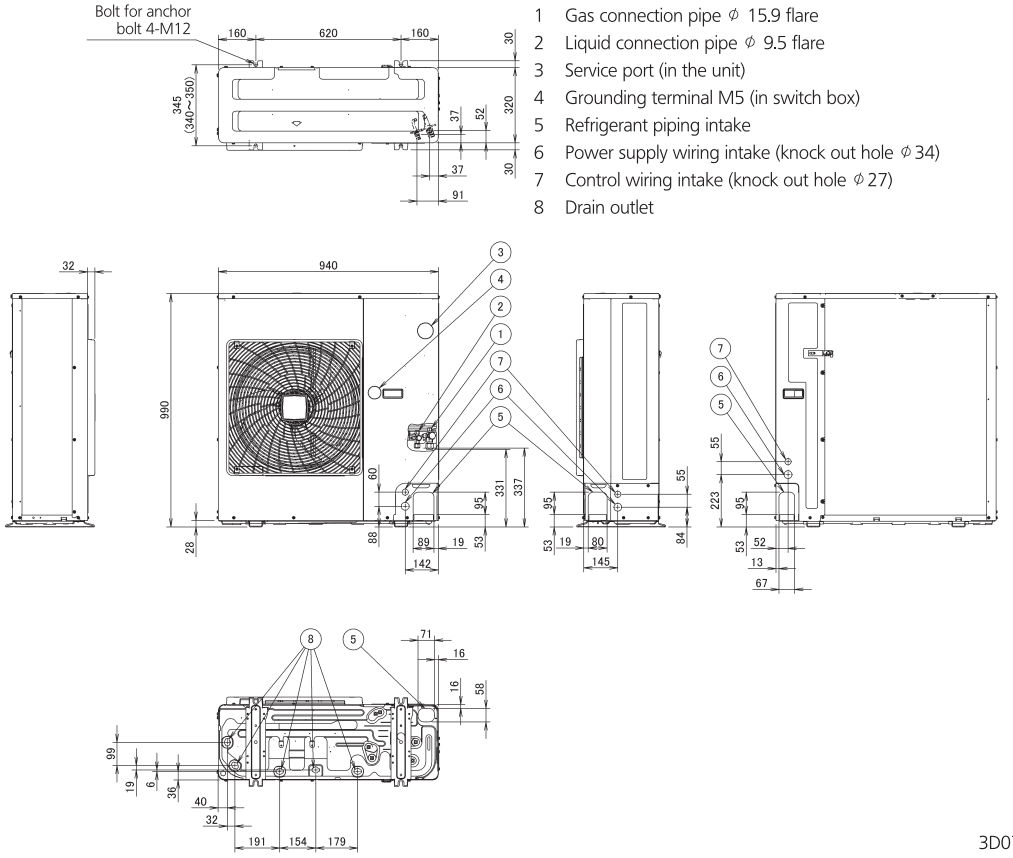
RZQSG100-125L9V1/L8Y1

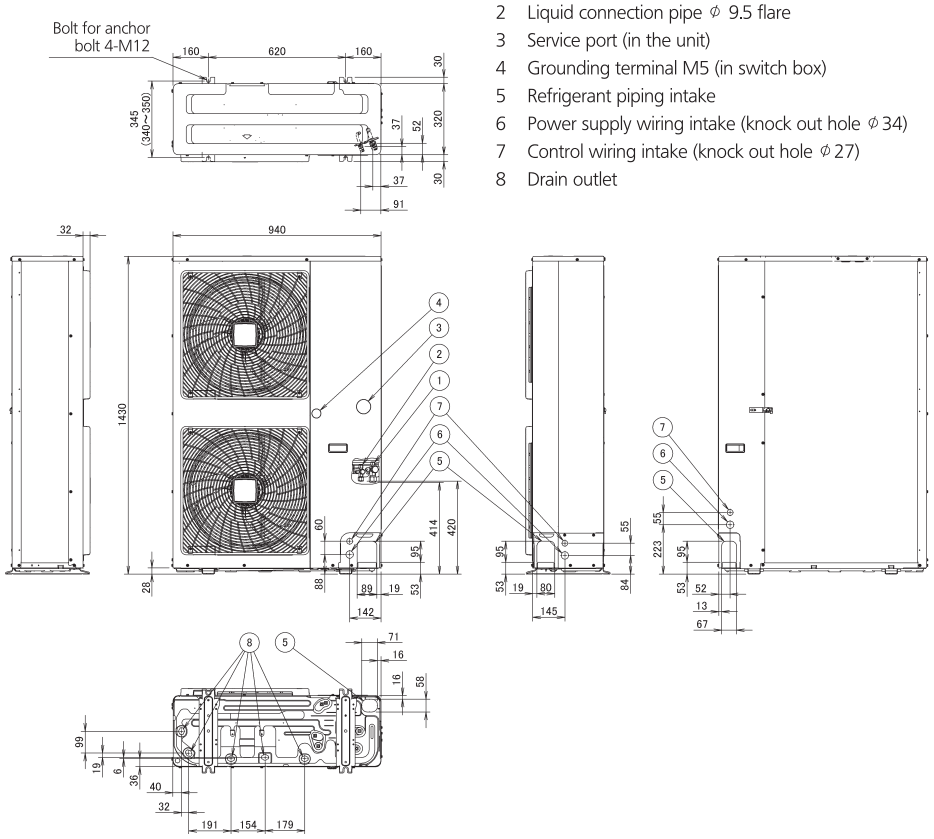


1 Gas connection pipe ϕ 15.9 flare
2 Liquid connection pipe ϕ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (knock out hole ϕ27)
8 Drain outlet

3D076345

RZQSQ140LY1

1 Gas connection pipe ϕ 15.9 flare
2 Liquid connection pipe ϕ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (knock out hole ϕ27)
8 Drain outlet



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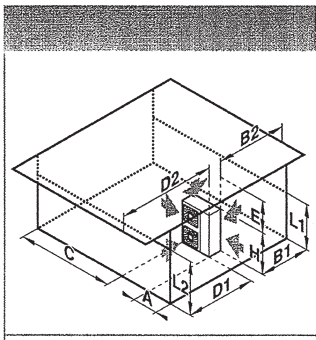
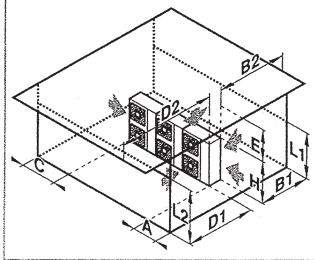
RZQSG71L3V1

A. Non stacked installation





								A	B1	B2	C	D1	D2	E	L1/L2	
✓									≥50(100)							
✓		✓	✓					≥100	≥100		≥100					
✓				✓					≥100				≤500	≥1000		
✓		✓	✓	✓				≥150	≥150		≥150		≤500	≥1000		
	✓											≥500				
	✓			✓						≤500		≥500		≥1000		
✓	✓				L1<L2				≥50(100)			≥500				
					L2<L1				≥50(100)			≥500				
✓	✓			✓	L1<L2	L1≤H			≥150(250)	≤500		≥750		≥1000	0<L1≤1/2H	1
												≥1000			0<L1≤1/2H	
						H<L1			L1≤H							
					L2<L1	L2≤H			≥50(100)			≥500 (1000)	≥500	≥1000	0<L2≤1/2H	
									≥100(200)						1/2H<L2≤H	
						H<L2			L2≤H							
✓		✓	✓					≥200	≥200(300)		≥1000					
✓		✓	✓	✓				≥200	≥200(300)		≥1000		≤500	≥1000		
	✓											≥1000				
	✓			✓						≤500		≥1000		≥1000		
✓	✓				L1<L2				≥200(300)			≥1000				
					L2<L1				≥150(250)			≥1000 (1500)			0<L2≤1/2H	
									≥200(300)						1/2H<L2≤H	
✓	✓			✓	L1<L2	L1≤H			≥200(300)	≤500		≥1000		≥1000	0<L1≤1/2H	1
												≥1250			1/2H<L1≤H	
						H<L1			L1≤H							
					L2<L1	L2≤H			≥150(250)			≥1000 (1500)	≤500	≥1000	0<L2≤1/2H	2
									≥200(300)						1/2H<L2≤H	
						H<L2			L2≤H							

Legend Unit: mm

- Suction side obstacle
- Discharge side obstacle
- Left side obstacle
- Right side obstacle
- Top side obstacle
- ✓ Obstacle is present

1 In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

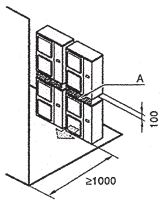
2 In these cases, only 2 units can be installed.

This situation is not allowed.

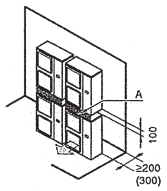
Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



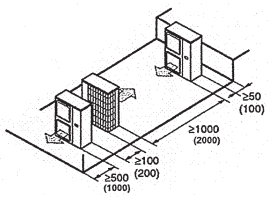
2. Obstacles exist in front of the air inlet



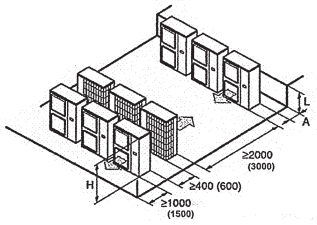
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

C. Multiple-row installation

1. Installation of one unit per row



2. Installing multiple units (2 units or more) in lateral connection per row



Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

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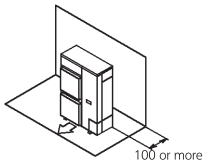
Installation service space

The measure of these values is "mm".

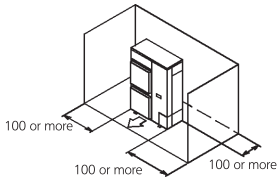
(A) When there are obstacles on suction sides.

- **No obstacle above**

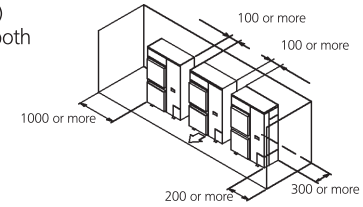
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

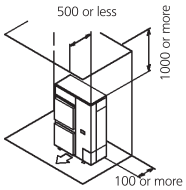


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

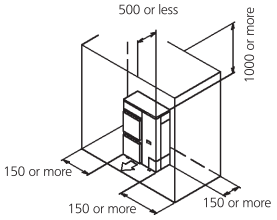


- **Obstacle above, too.**

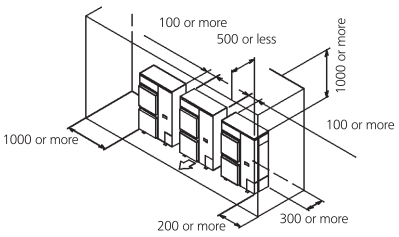
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



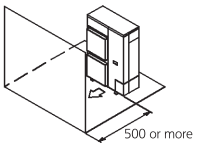
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



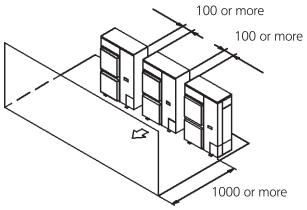
(B) When there are obstacles on discharge sides.

- **No obstacle above**

① Stand-alone installation
- Obstacle on the discharge side only

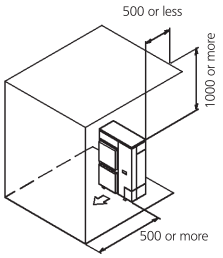


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

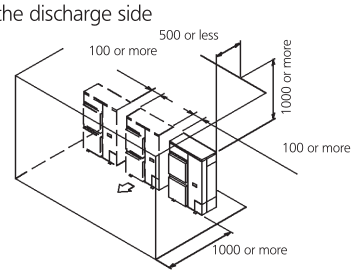


- **Obstacle above, too**

① Stand-alone installation
- Obstacle on the discharge side only, too



② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side



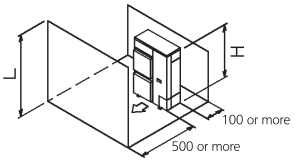
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

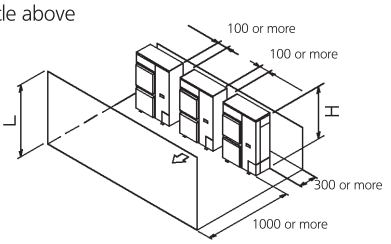
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

① Stand-alone installation
- No obstacle above



② Series installation (2 or more) (Note 1)
- No obstacle above



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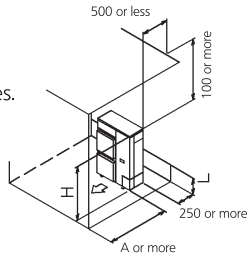
● Obstacle above, too

① Stand-alone installation (Note 2)

● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	750 or more
	1/2 H < L ≦ H	1000 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	



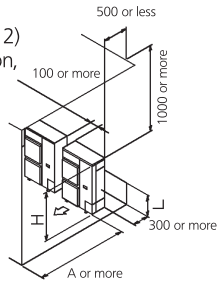
② Series installation (2 or more) (Note 1, 2)

● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	1000 or more
	1/2 H < L ≦ H	1250 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.



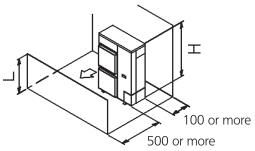
Pattern 2

When the obstacle on the discharge side is lower than the unit (L ≦ H)
(There is no limit for the height of obstructions on the suction side.)

● No obstacle above

① Stand-alone installation

● No obstacle above

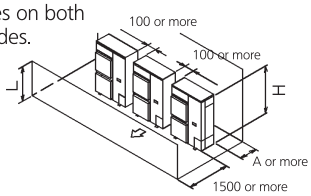


② Series installation (2 or more) (Note 1, 2)

● When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

L	A
L ≦ 1/2 H	250 or more
1/2 H < L ≦ H	300 or more



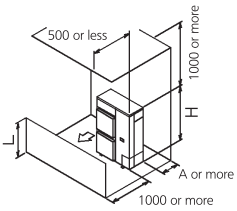
● Obstacle above, too

① Stand-alone installation (Note 2)

● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	100 or more
	1/2 H < L ≦ H	200 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	



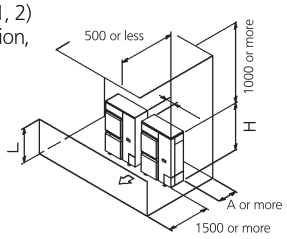
② Series installation (2 or more) (Note 1, 2)

● When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

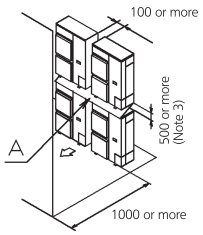
Limit of series installation is 2 units.



(D) Double-decker installation

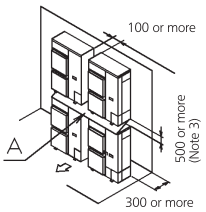
① Obstacle on the discharge side. (Note 1)

- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



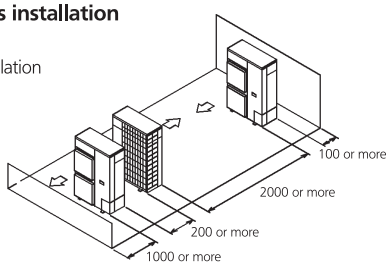
② Obstacle on the suction side. (Note 1)

- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



(E) Multiple rows of series installation (on the rooftop, etc.)

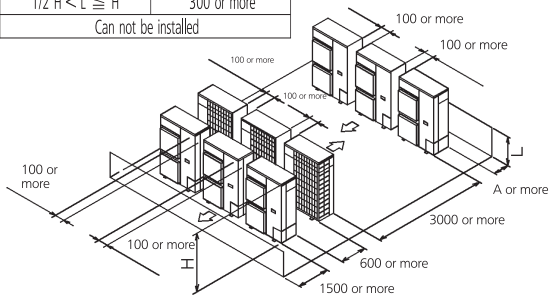
① One row of stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Can not be installed	



NOTES

1 In case of the sideway's piping, make a 100mm gap between the unit above.
2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing.
In this case, the space between the upper and lower outdoor units should be at least 100mm.
Close off the gap between the upper and lower units so there is no reintake of discharged air.

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Pair, Twin, Triple, double twin

Packaged system for commercial applications

› Available as 20 and 25kW
› Re-use of existing R-22 or R-407C technology

› Guarantees operation in heating mode down to -15°C
› Standard night quiet mode
› Maximum piping length up to 100m
› Maximum installation height difference up to 30m
› Wide range of connectable indoor units

RZQ200-250C

Twin, triple and double twin application

	FCQG-F					FFQ-C		FDXS-F(9)		FBQ-D					FHQ-C					FUQ-C			FAQ-C		FDQ-C	FNQ-A	
capacity class	50	60	71	100	125	50	60	50	60	50	60	71	100	125	50	60	71	100	125	71	100	125	71	100	125	50	60
RZQ200C	4	3	3	2		4	3	4	3	4	3	3	2		4	3	3	2		3	2		3	2		4	3
RZQ250C		4			2		4		4		4			4		2			2			2			2		4

Outdoor Units			Super Inverter	
			RZQ200C	RZQ250C
Dimensions	Height	mm	1680	1680
	Width	mm	930	930
	Depth	mm	765	765
Weight		kg	183	184
Electrical Details	Power Supply		3ph	
	Running Current	A	data book	
	Starting Current	A	4	4
	Max Fuse Size	A	25	25
Interconnection Wiring	Core / Cable size		3+E / 1.5	
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 7/8 (22.2)	1/2 (12.7) / 7/8 (22.2)
Pipework	Maximum Length	m	100	100
	Maximum Vertical Rise	m	30	30
	Precharged to	m	30	30
	Additional Charge	g/m	Refer to Installation Manual	
	Holding Charge	kg	8.3	9.3
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	57 / -	57 / -
Sound Power			78	78
Air Flow Rate (Cooling)	High / Nom*	m^3/sec	2.85*	2.85*

RZQ-C

Unit combination		Power supply					Comp.	OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCQ50B8V1 ×4	RZQ200C7Y1B	50 - 400		17.8	-	20	-	14.7	0.75	0.7	0.045×4	0.6×4
FCQ60B8V1 ×3	RZQ200C7Y1B	50 - 400		17.2	-	20	-	14.7	0.75	0.7	0.045×3	0.6×3
FCQ71B8V3B ×3	RZQ200C7Y1B	50 - 400		17.2	-	20	-	14.7	0.75	0.7	0.045×3	0.6×3
FCQ100B8V3B ×2	RZQ200C7Y1B	50 - 400		17.4	-	20	-	14.7	0.75	0.7	0.090×2	1.0×2
FCQ50C7VEB ×4	RZQ200C7Y1B	50 - 400		15.2	-	20	-	13.3	0.75	0.7	0.056×4	0.3×4
FCQ60C7VEB ×3	RZQ200C7Y1B	50 - 400		15.2	-	20	-	13.3	0.75	0.7	0.056×3	0.4×3
FCQ71C7VEB ×3	RZQ200C7Y1B	50 - 400		15.5	-	20	-	13.3	0.75	0.7	0.056×3	0.5×3
FCQ100C7VEB ×2	RZQ200C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.120×2	0.7×2
FFQ50BV1B ×4	RZQ200C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.055×4	0.7×4
FFQ60BV1B ×3	RZQ200C7Y1B	50 - 400		16.1	-	20	-	13.3	0.75	0.7	0.055×3	0.7×3
FBQ50B7V1 ×4	RZQ200C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.085×4	0.7×4
FBQ60B7V1 ×3	RZQ200C7Y1B	50 - 400		16.7	-	25	-	13.3	0.75	0.7	0.125×3	0.9×3
FBQ71B7V3B ×3	RZQ200C7Y1B	50 - 400		16.7	-	25	-	13.3	0.75	0.7	0.125×3	0.9×3
FBQ100B7V3B ×2	RZQ200C7Y1B	50 - 400		16.0	-	20	-	13.3	0.75	0.7	0.135×2	1.0×2
FHQ50BUV1B ×4	RZQ200C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.062×4	0.6×4
FHQ60BUV1B ×3	RZQ200C7Y1B	50 - 400		15.8	-	20	-	13.3	0.75	0.7	0.062×3	0.6×3
FHQ71BUV1B ×3	RZQ200C7Y1B	50 - 400		15.8	-	20	-	13.3	0.75	0.7	0.062×3	0.6×3
FHQ100BUV1B ×2	RZQ200C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.130×2	0.7×2
FUQ71BUV1B ×3	RZQ200C7Y1B	50 - 400		16.1	-	20	-	13.3	0.75	0.7	0.045×3	0.7×3
FUQ100BUV1B ×2	RZQ200C7Y1B	50 - 400		16.2	-	20	-	13.3	0.75	0.7	0.050×2	1.1×2
FAQ71BUV1B ×3	RZQ200C7Y1B	50 - 400		14.9	-	20	-	13.3	0.75	0.7	0.043×3	0.3×3
FAQ100BUV1B ×2	RZQ200C7Y1B	50 - 400		14.8	-	20	-	13.3	0.75	0.7	0.049×2	0.4×2
FDQ200B7V3B	RZQ200C7Y1B	50 - 400		14.0	-	20	-	13.3	0.75	0.7	0.650	6.8
FCQ60B8V1 ×4	RZQ250C7Y1B	50 - 400		17.8	-	20	-	14.7	0.75	0.7	0.045×4	0.6×4
FCQ125B8V3B ×2	RZQ250C7Y1B	50 - 400		17.4	-	20	-	14.7	0.75	0.7	0.090×2	1.0×2
FCQ60C7VEB ×4	RZQ250C7Y1B	50 - 400		15.6	-	20	-	13.3	0.75	0.7	0.056×4	0.4×4
FCQ125C7VEB ×2	RZQ250C7Y1B	50 - 400		16.0	-	20	-	13.3	0.75	0.7	0.120×2	1.0×2
FFQ60BV1B ×4	RZQ250C7Y1B	50 - 400	Max. 50Hz 415V Min. 50Hz 380V	16.8	-	25	-	13.3	0.75	0.7	0.055×4	0.7×4
FBQ60B7V1 ×4	RZQ250C7Y1B	50 - 400		17.6	-	25	-	13.3	0.75	0.7	0.125×4	0.9×4
FBQ125B7V3B ×2	RZQ250C7Y1B	50 - 400		16.8	-	25	-	13.3	0.75	0.7	0.225×2	1.4×2
FHQ60BUV1B ×4	RZQ250C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.062×4	0.6×4
FHQ125BUV1B ×2	RZQ250C7Y1B	50 - 400		15.4	-	20	-	13.3	0.75	0.7	0.130×2	0.7×2
FUQ125BUV1B ×2	RZQ250C7Y1B	50 - 400		16.2	-	20	-	13.3	0.75	0.7	0.050×2	1.1×2
FUQ125B7V3B ×2	RZQ250C7Y1B	50 - 400		14.0	-	20	-	13.3	0.75	0.7	0.500×2	4.2×2
FDQ250B7V3B	RZQ250C7Y1B	50 - 400		14.0	-	20	-	13.3	0.75	0.7	1.000	7.6
FCQHG71FVEB ×3	RZQ200C7Y1B	50 - 400		17.3	-	20	-	13.3	0.75	0.7	0.051×3	0.5×3
FCQHG100FVEB ×2	RZQ200C7Y1B	50 - 400		18.7	-	20	-	13.3	0.75	0.7	0.221×2	1.3×2
FCQG50FVEB ×4	RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.039×4	0.3×4
FCQG60FVEB ×3	RZQ200C7Y1B	50 - 400		16.5	-	20	-	13.3	0.75	0.7	0.044×3	0.3×3
FCQG71FVEB ×3	RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.048×3	0.4×3
FCQG100FVEB ×2	RZQ200C7Y1B	50 - 400		17.2	-	20	-	13.3	0.75	0.7	0.117×2	0.7×2
FHQ50CAVEB ×4	RZQ200C7Y1B	50 - 400		17.9	-	20	-	13.3	0.75	0.7	0.060×4	0.5×4
FHQ60CAVEB ×3	RZQ200C7Y1B	50 - 400		17.3	-	20	-	13.3	0.75	0.7	0.051×3	0.5×3
FHQ71CAVEB ×3	RZQ200C7Y1B	50 - 400		18.4	-	20	-	13.3	0.75	0.7	0.051×3	0.8×3
FHQ100CAVEB ×2	RZQ200C7Y1B	50 - 400		18.4	-	20	-	13.3	0.75	0.7	0.150×2	1.2×2
FUQ71CVEB ×3	RZQ200C7Y1B	50 - 400		18.0	-	20	-	13.3	0.75	0.7	0.045×3	0.7×3
FUQ100CVEB ×2	RZQ200C7Y1B	50 - 400		17.9	-	20	-	13.3	0.75	0.7	0.105×2	1.0×2
FAQ71CVEB ×3	RZQ200C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.048×3	0.4×3
FAQ100CVEB ×2	RZQ200C7Y1B	50 - 400		16.4	-	20	-	13.3	0.75	0.7	0.064×2	0.4×2
FCQHG125FVEB ×2	RZQ250C7Y1B	50 - 400		18.9	-	20	-	13.3	0.75	0.7	0.224×2	1.4×2
FCQG50FVEB ×4	RZQ250C7Y1B	50 - 400		16.9	-	20	-	13.3	0.75	0.7	0.044×4	0.3×4
FCQG125FVEB ×2	RZQ250C7Y1B	50 - 400		18.2	-	20	-	13.3	0.75	0.7	0.105×2	1.1×2
FHQ60CAVEB ×4	RZQ250C7Y1B	50 - 400		17.9	-	20	-	13.3	0.75	0.7	0.051×4	0.5×4
FHQ125CAVEB ×2	RZQ250C7Y1B	50 - 400		19.4	-	20	-	13.3	0.75	0.7	0.150×2	1.6×2
FUQ125CVEB ×2	RZQ250C7Y1B	50 - 400		18.2	-	20	-	13.3	0.75	0.7	0.105×2	1.1×2

SYMBOLS

MCA : Min. Circuit Amps. (A)
TOCA : Total Over-Current Amps. (A)
MFA : Max. Fuse Amps (See note 7) (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
IFM : Indoor Fan Motor.
FLA : Full Load Amps.
kW : Fan Motor Rated Output (kW)

NOTES

1 RLA is based on the following indoor conditions:
Power supply: 50Hz 400V
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB/6.0°CWB
2 TOCA means the total value of each OC set.
3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
4 Maximum allowable voltage variation between phases is 2%.
5 MCA represents maximum input current., MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
6 Select wire size based on the larger value of MCA or TOCA.
7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

3D056844E

RZQ-C

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFBQ60D2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	15,5	20	-	13,3	0,75	0,7	3x0.07	3x0.5
4xFBQ50D2VEB	RZQ200C7Y1B				16,4	20	-	13,3	0,75	0,7	4x0.089	4x0.6
2xFBQ125D2VEB	RZQ250C7Y1B				17	20	-	13,3	0,75	0,7	2x0.187	2x1.5
4xFBQ60D2VEB	RZQ250C7Y1B				16	20	-	13,3	0,75	0,7	4x0.07	4x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQ-C

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
3xFNQ60A2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	15,5	16	–	13,3	0,75	0,7	3x0.06	3x0.5
4xFNQ50A2VEB	RZQ200C7Y1B				16	20	–	13,3	0,75	0,7	4x0.06	4x0.5
4xFNQ60A2VEB	RZQ250C7Y1B				16	20	–	13,3	0,75	0,7	4x0.06	4x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D096315C

RZQ200C

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Indoor	Outdoor	①	②	③	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
2xFBQ100D2VEB	RZQ200C7Y1B	3N~ 50Hz	400V	MAX. 50Hz 415V MIN. 50Hz 380V	16	20	–	13,3	0,75	0,7	2x0.127	2x1
3xFBQ71D2VEB	RZQ200C7Y1B				15,5	20	–	13,3	0,75	0,7	3x0.07	3x0.5

Notes

1 The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
2 Select the wire size according to the MCA.
3 The maximum allowable voltage that is unbalanced between phases is 2%.
4 Use a circuit breaker instead of a fuse.

Symbols
① Hz
② Voltage
③ Voltage range
MCA Minimum Circuit Ampere (A)
MFA Maximum Fuse Ampere (A)
RLA Rated load amps [A]

OFM Outdoor fan motor
IFM Indoor fan motor
FLA Full Load Ampere (A)
kW Fan motor rated output [kW]
RHz Rated operating frequency [Hz]
COMP Compressor

3D094863B

RZQ200-250C

Unit combination			Minimum Ssc value [KVA]
FCQ50C7VEB	x4	RZQ200C7Y1B	-
FCQ60C7VEB	x3	RZQ200C7Y1B	-
FCQ71C7VEB	x3	RZQ200C7Y1B	-
FCQ100C7VEB	x2	RZQ200C7Y1B	-
FFQ50BV1B	x4	RZQ200C7Y1B	1025
FFQ60BV1B	x3	RZQ200C7Y1B	1025
FBQ50B7V1	x4	RZQ200C7Y1B	1025
FBQ60B7V1	x3	RZQ200C7Y1B	1025
FBQ71B7V3B	x3	RZQ200C7Y1B	1025
FBQ100B7V3B	x2	RZQ200C7Y1B	-
FHQ50BUV1B	x4	RZQ200C7Y1B	1025
FHQ60BUV1B	x3	RZQ200C7Y1B	-
FHQ71BUV1B	x3	RZQ200C7Y1B	-
FHQ100BUV1B	x2	RZQ200C7Y1B	-
FUQ71BUV1B	x3	RZQ200C7Y1B	1025
FUQ100BUV1B	x2	RZQ200C7Y1B	1025
FAQ71BUV1B	x3	RZQ200C7Y1B	-
FAQ100BUV1B	x2	RZQ200C7Y1B	-
FDQ200B7V3B	x1	RZQ200C7Y1B	-
FCQ60C7VEB	x4	RZQ250C7Y1B	-
FCQ125C7VEB	x2	RZQ250C7Y1B	-
FFQ60BV1B	x4	RZQ250C7Y1B	1025
FBQ60B7V1	x4	RZQ250C7Y1B	1025
FBQ125B7V3B	x2	RZQ250C7Y1B	1025
FHQ60BUV1B	x4	RZQ250C7Y1B	1025
FHQ125BUV1B	x2	RZQ250C7Y1B	-
FUQ125BUV1B	x2	RZQ250C7Y1B	1025
FDQ125B7V3B	x2	RZQ250C7Y1B	-
FDQ250B7V3B	x1	RZQ250C7Y1B	-

NOTES

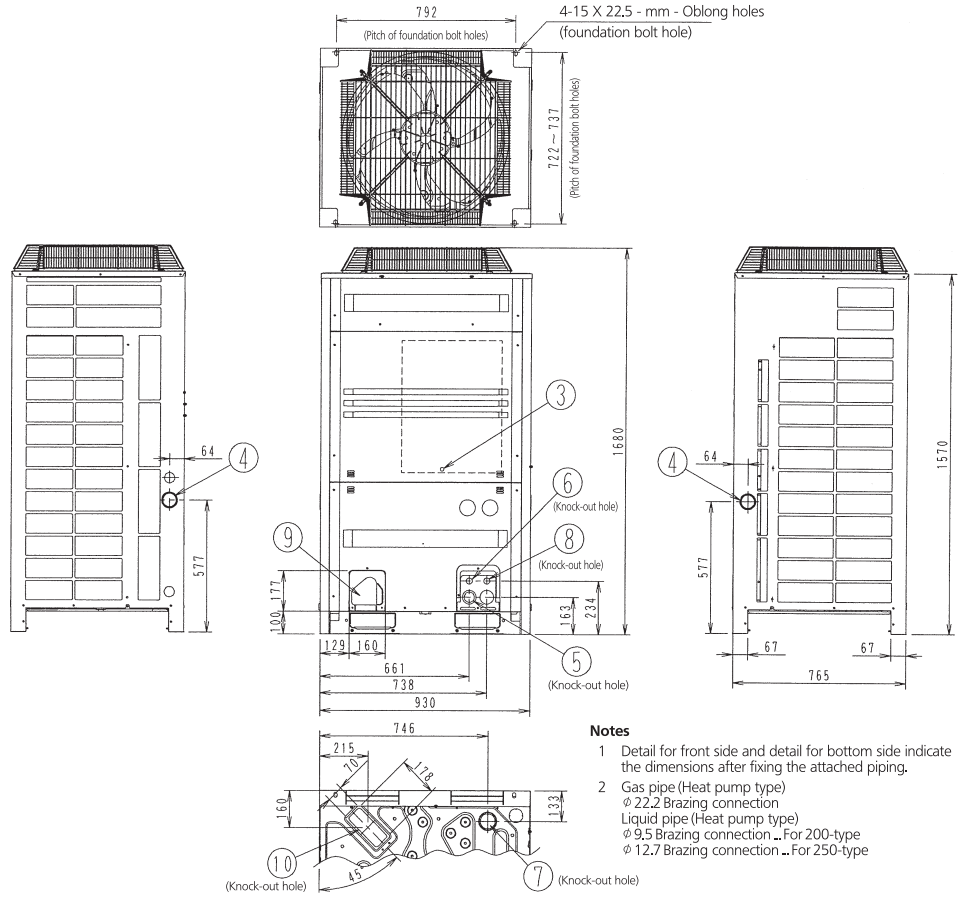
-In accordance with EN/IEC 61000-3-12*, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc** ≧ minimum Ssc value.

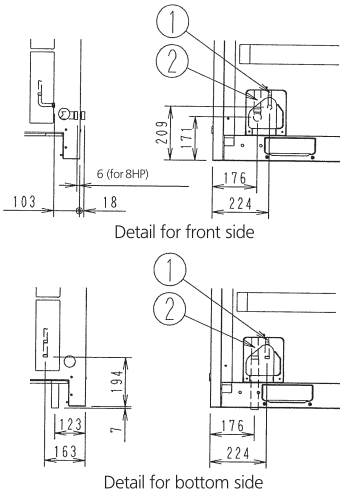
- (*) European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≦ 75A per phase.

- (**) Short-circuit power

4TW29041-2

RZQ200-250C





Notes

1 Detail for front side and detail for bottom side indicate the dimensions after fixing the attached piping.

2 Gas pipe (Heat pump type)
Φ 22.2 Brazing connection
Liquid pipe (Heat pump type)
Φ 9.5 Brazing connection ... For 200-type
Φ 12.7 Brazing connection ... For 250-type

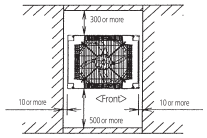
1 Liquid pipe connection port see note 2.
2 Gas pipe connection port see note 2.
3 Grounding terminal inside of switch box (M8)
4 Power cord routing hole (side) Φ 62
5 Power cord routing hole (front) Φ 45
6 Power cord routing hole (front) Φ 27
7 Power cord routing hole (bottom) Φ 65.5
8 Wire routing hole (front) Φ 27
9 Pipe routing hole (front)
10 Pipe routing hole (bottom)

3TW29044-1

RZQ200-250C

For single unit installation

<Pattern 1>



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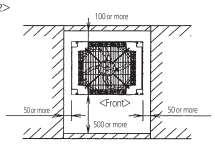

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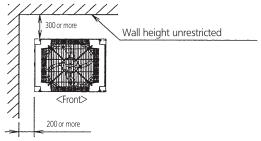
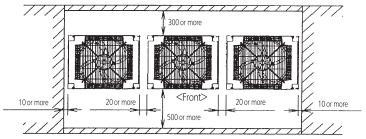


For installation in rows

<Pattern 1>



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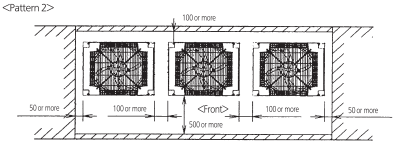

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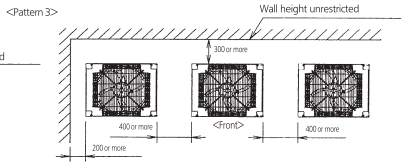
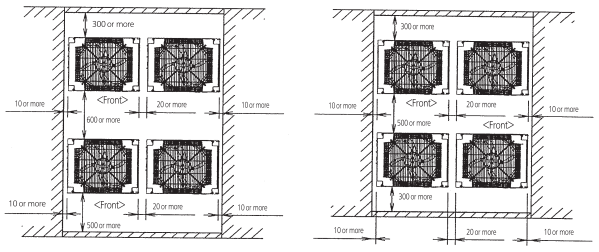


For centralized group layout

<Pattern 1>



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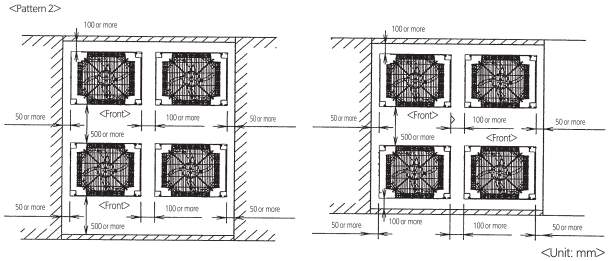


<Unit: mm>

Notes:

1 Heights of walls in case of Patterns 1 and 2:
Front: 1500 mm
suction side: 500 mm
Side: Height unrestricted.
Installation space to be shown in this drawing is based on the cooling operation at 35 degrees outdoor air temperature.
When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability because of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space to be shown in this drawing.

2 If the above wall heights are exceeded then h1/2 and h2/2 should be added to the front and suction side service spaces respectively as shown in the figure on the right.

3 When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough space for a person to pass between units and wall and for the air to circulate freely.
(If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)

4 The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

3TW29049-3

INVERTER

Pair application

Ideal solution for busy environments and small shops

- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- With a gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature
- Outdoor units are fitted with either a swing or scroll compressor, renowned for low noise and high energy efficiency
- Exclusively offered for pair applications (capacity from 71 up to 140)
- Units optimised for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season

AZQS100-125B8V1/BY1

Outdoor Units			AZQS71BV1	AZQS100B8V1	AZQS125B8V1	AZQS140B8V1	AZQS100BY1	AZQS125BY1	AZQS140BY1
Dimensions	Height x Width x Depth	mm	770 x 900 x 320	990 x 940 x 320		1430 x 940 x 320	990 x 940 x 320		1430 x 940 x 320
Weight		kg	72	75		95	82		101
Electrical Details	Power Supply		1ph				3ph		
	Running Current	A	8.66	11.77	15.29	18.19	4.40	5.72	6.80
	Starting Current	A	4	4	4	4	4	4	4
	Max Fuse Size	A	20	32	32	32	20	20	20
Interconnection Wiring	Core / Cable size		3+E / 1.5				3+E / 1.5		
Piping Connections	Liquid / Gas	inches (mm)	3/8 (9.5) / 5/8 (15.9)				3/8 (9.5) / 5/8 (15.9)		
Pipework	Maximum Length	m	30	30	30	30	30	30	30
	Maximum Vertical Rise	m	15	15	15	15	15	15	15
	Precharged to	m	30	30	30	30	30	30	30
	Additional Charge	g/m	Refer to Installation Manual				Refer to Installation Manual		
	Holding Charge	kg	2.75	2.9	2.9	4.0	2.9	2.9	4.0
Sound Pressure (Cooling)	Nom / Night Quiet	dBA	49 / 43	53 / 49	54 / 49	53 / 49	53 / 49	54 / 49	53 / 49
Sound Power		dBA	65	70	70	69	70	70	69
Air Flow Rate (Cooling)	Nominal	m^3/sec	0.866	1.266	1.283	1.383	1.266	1.283	1.383

AZQS-B(8)V1

Indoor	Outdoor	Hz ~ Power supply	Voltage range	MCA	TOCA	MFA	Comp MSC	Comp RLA	OFM KW	OFM FLA	IFM kW	IFM FLA
ACQ71DV1	AZQS71B2V1B	50Hz ~220-240V	Min. 198V Max. 264V	18.8	—	20	—	16.2	0.07	0.3	0.067	0.52
ABQ71CV1	AZQS71B2V1B			19.5	—	20	—	16.2	0.07	0.3	0.128	1.05
AHQ71CV1	AZQS71B2V1B			19.2	—	20	—	16.2	0.07	0.3	0.106	0.8
ACQ100DV1	AZQS100B8V1B			28.5	—	32	—	24.4	0.2	0.6	0.094	0.77
ABQ100CV1	AZQS100B8V1B			28.6	—	32	—	24.4	0.2	0.6	0.109	0.9
AHQ100CV1	AZQS100B8V1B			28.9	—	32	—	24.4	0.2	0.6	0.149	1.12
ACQ125DV1	AZQS125B8V1B			28.9	—	32	—	24.4	0.2	0.6	0.137	1.12
ABQ125CV1	AZQS125B8V1B			31.5	—	32	—	24.4	0.2	0.6	0.413	3.16
AHQ125CV1	AZQS125B8V1B			28.9	—	32	—	24.4	0.2	0.6	0.240	1.1
ABQ140CV1	AZQS140B8V1B			32.8	—	40	—	24.2	0.094+0.094	0.4+0.4	0.546	4.23
AHQ140CV1	AZQS140B8V1B			30.7	—	32	—	24.2	0.094+0.094	0.4+0.4	0.316	2.52
ACQ140DV1	AZQS140B8V1B			28.9	—	32	—	24.2	0.094+0.094	0.4+0.4	0.137	1.12
ACQ100DV1	AZQS100B7Y1B	3N~50Hz 380-415V	Min. 342V Max. 456V	14.2	—	16	—	11.4	0.2	0.6	0.094	0.77
ABQ100CV1	AZQS100B7Y1B			14.3	—	16	—	11.4	0.2	0.6	0.109	0.9
AHQ100CV1	AZQS100B7Y1B			14.6	—	16	—	11.4	0.2	0.6	0.149	1.12
ACQ125DV1	AZQS125B7Y1B			14.6	—	16	—	11.4	0.2	0.6	0.137	1.12
ABQ125CV1	AZQS125B7Y1B			17.2	—	20	—	11.4	0.2	0.6	0.413	3.16
AHQ125CV1	AZQS125B7Y1B			14.6	—	16	—	11.4	0.2	0.6	0.240	1.10
ABQ140CV1	AZQS140B7Y1B			21.8	—	25	—	14.2	0.094+0.094	0.4+0.4	0.546	4.23
AHQ140CV1	AZQS140B7Y1B			19.7	—	20	—	14.2	0.094+0.094	0.4+0.4	0.316	2.52
ACQ140DV1	AZQS140B7Y1B			17.9	—	20	—	14.2	0.094+0.094	0.4+0.4	0.137	1.12

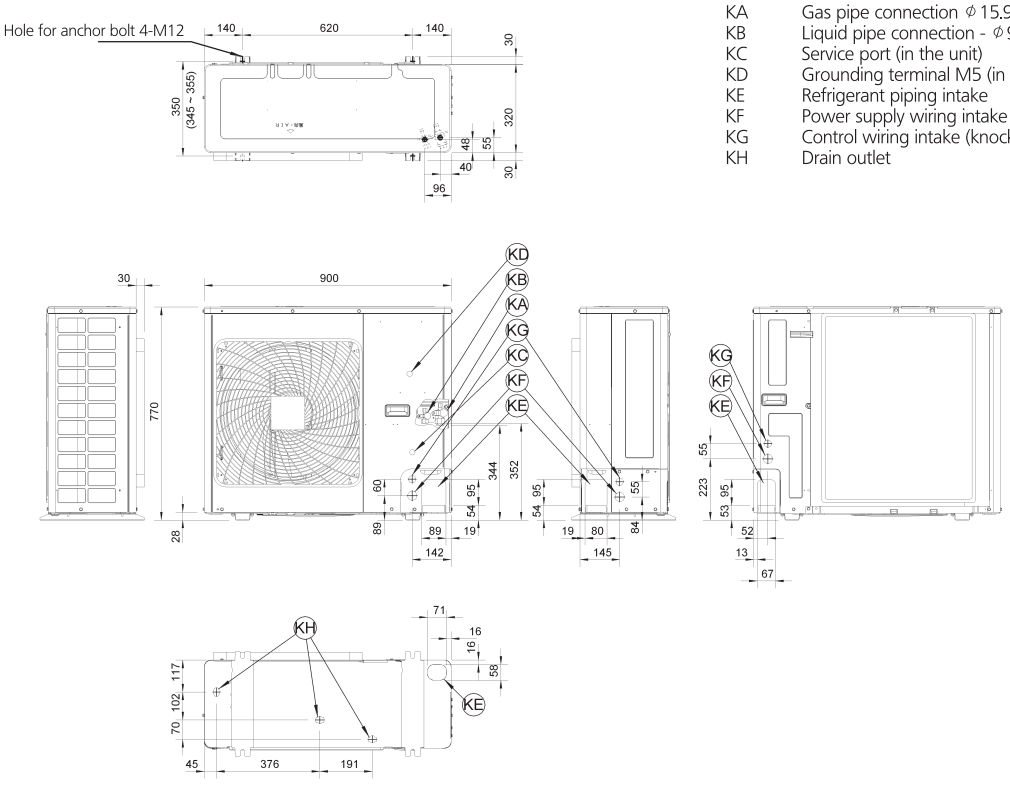
Symbols
- MCA: Minimum Circuit Ampere (A)
- TOCA: Total overcurrent amps [A]
- MFA: Maximum Fuse Ampere (A)
- MSC: Maximum current of the starting compressor [A]
- RLA: Rated load amps [A]
- OFM: Outdoor fan motor
- IFM: Indoor fan motor
- FLA: Full load amps
- KW: Fan motor rated output [kW]

Notes
1. The RLA is based on the following conditions.
   Cooling
   Indoor temperature 27.0°C DB / 19.0°C WB
   Outdoor temperature 35.0°C DB
   Heating
   Indoor temperature 20.0°C DB
   Outdoor temperature 7.0°C DB / 6.0°C WB
2. TOCA is the total value of each overcurrent set.
3. Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
4. The maximum allowable voltage that is unbalanced between phases is 2%.
5. MCA is the maximum input current.
   The capacity of the MFA must be greater than that of the MCA.
   Select the MFA according to the table.
   The next lower standard fuse rating is minimum 15 ampere.
6. Select the wire size according to the MCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interruptor.
   Earth leakage circuit breaker

3D090681B

AZQS71B2V1

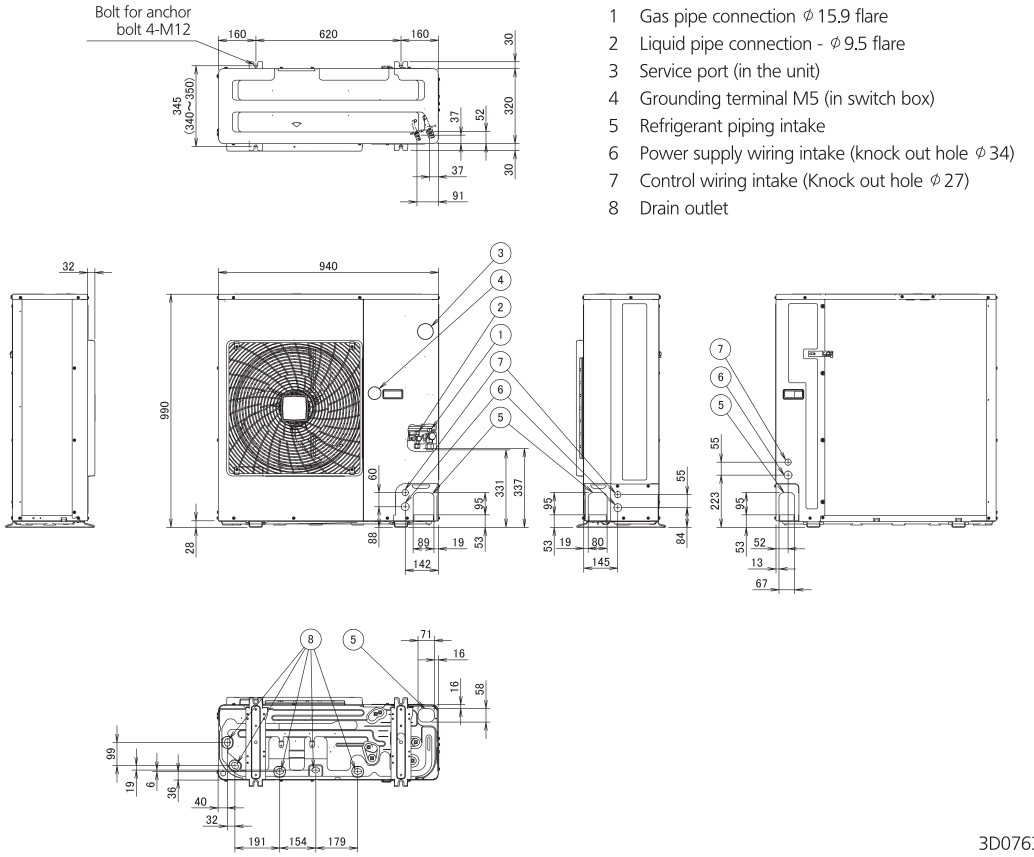
unit (mm)



KA	Gas pipe connection ϕ15.9 flare
KB	Liquid pipe connection - ϕ9.5 flare
KC	Service port (in the unit)
KD	Grounding terminal M5 (in switch box)
KE	Refrigerant piping intake
KF	Power supply wiring intake (knock hole ϕ34)
KG	Control wiring intake (knock hole ϕ27)
KH	Drain outlet

3D081307

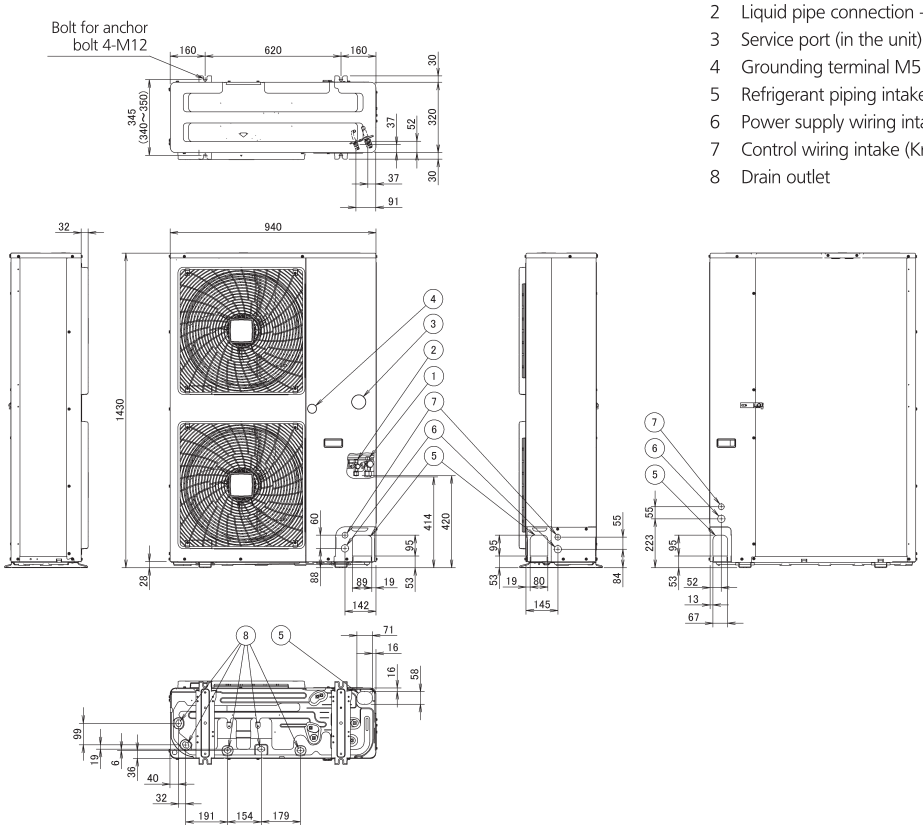
AZQS100-125B8V1/BY1



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3D076345

AZQS140B8V1/BY1



1 Gas pipe connection ϕ15.9 flare
2 Liquid pipe connection - ϕ9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ34)
7 Control wiring intake (Knock out hole ϕ27)
8 Drain outlet

3D076346

AZQS-B8V1/BY1

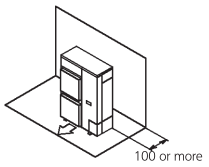
Installation service space

The measure of these values is "mm".

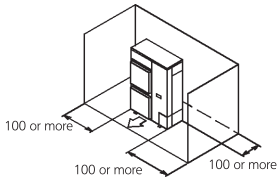
(A) When there are obstacles on suction sides.

- **No obstacle above**

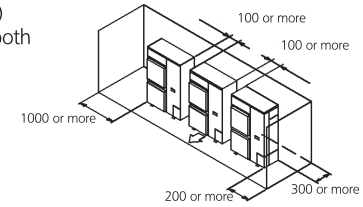
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

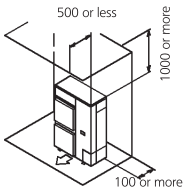


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

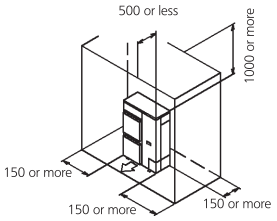


- **Obstacle above, too.**

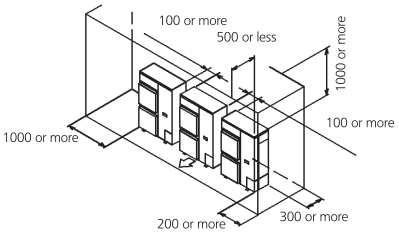
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



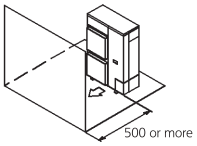
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



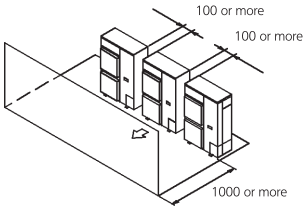
(B) When there are obstacles on discharge sides.

- **No obstacle above**

① Stand-alone installation
- Obstacle on the discharge side only

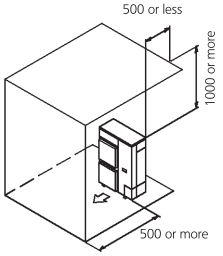


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

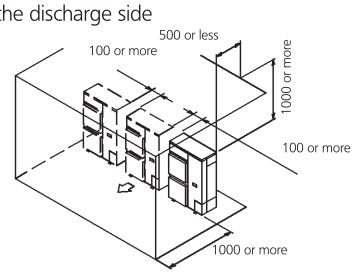


- **Obstacle above, too**

① Stand-alone installation
- Obstacle on the discharge side only, too



② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side



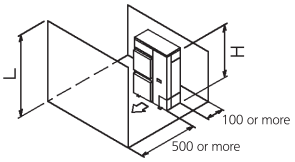
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

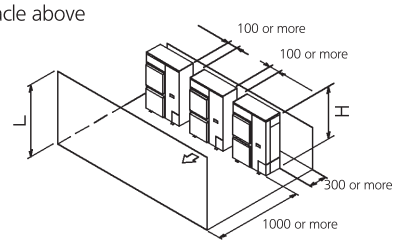
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

① Stand-alone installation
- No obstacle above



② Series installation (2 or more) (Note 1)
- No obstacle above



3D069554

AZQS-B8V1/BY1

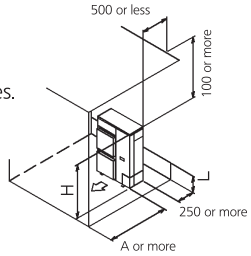
● Obstacle above, too

① Stand-alone installation (Note 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	750 or more
	1/2 H < L ≦ H	1000 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	



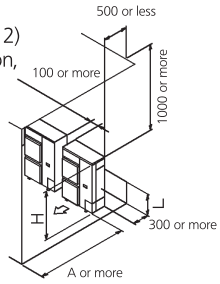
② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	1000 or more
	1/2 H < L ≦ H	1250 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.



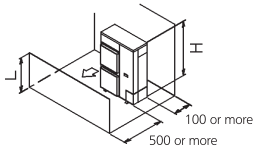
Pattern 2

When the obstacle on the discharge side is lower than the unit (L ≦ H)
(There is no limit for the height of obstructions on the suction side.)

● No obstacle above

① Stand-alone installation

- No obstacle above

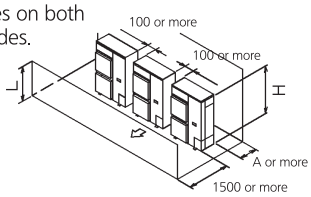


② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

L	A
L ≦ 1/2 H	250 or more
1/2 H < L ≦ H	300 or more



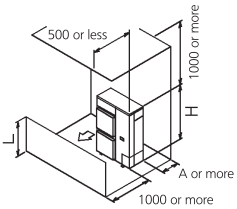
● obstacle above

① Stand-alone installation (Note 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	100 or more
	1/2 H < L ≦ H	200 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	



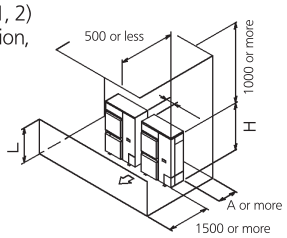
② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

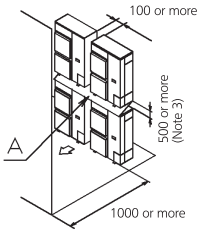
Limit of series installation is 2 units.



(D) Double-decker installation

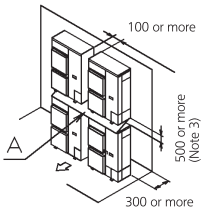
① Obstacle on the discharge side. (1)

- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



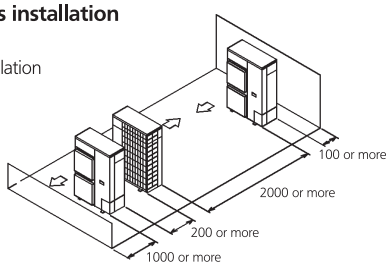
② Obstacle on the suction side. (1)

- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



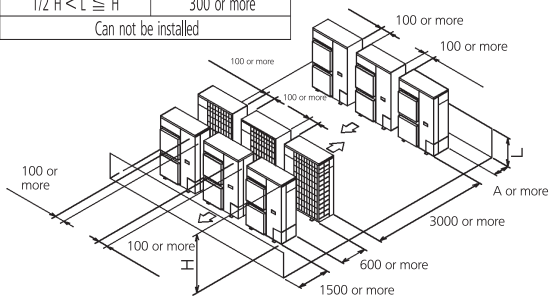
(E) Multiple rows of series installation (on the rooftop, etc.)

① One row of stand-alone installation



② Rows of series installation (2 or more)
The relations between H, A and L are as follows.

	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Can not be installed	



NOTES

1 In case of the sideway's piping, make a 100mm gap between the unit above.
2 Close the bottom of the installation frame to prevent the discharged air from being bypassed.
3 It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between the upper and lower outdoor units should be at least 100mm. Close off the gap between the upper and lower units so there is no reintake of discharged air.

Make all applications possible

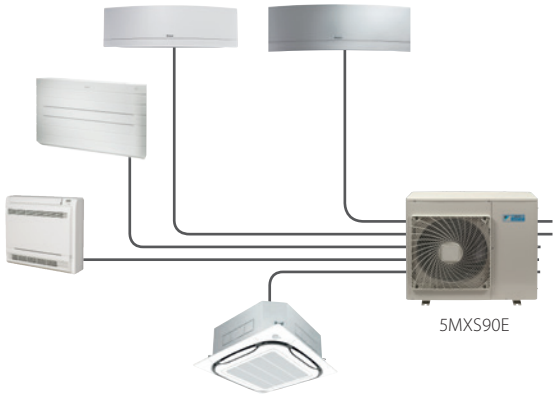
Multi model applications

- All indoor units can be individually controlled and do not need to be installed in the same room
- Combine different types of indoor units: wall mounted, floor standing, ceiling suspended, round flow cassette, concealed ceiling
- Phased installation possible

MXS

Installation flexibility

› A very wide range is available, from 2-port to 5-port units, making all applications possible
› Up to 5 indoor units can be connected to 1 multi outdoor unit
› Outdoor multi split units are fitted with the Daikin swing compressor, renowned for its low noise and high energy efficiency
› The outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall



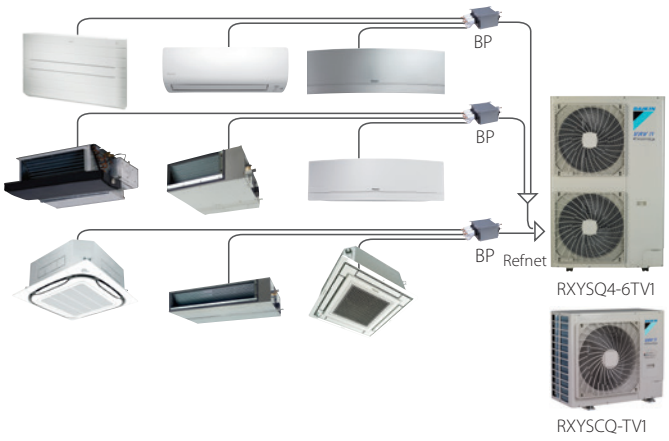
RXYSCQ

Installation flexibility

› Up to 9 indoor units can be connected to 1 VRV outdoor unit
› Maximum total piping length of 145m offers much more flexibility in the choice of installation position

VRV IV S-series

Variable Refrigerant Temperature



Multi model application

- Outdoor units for multi model application
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Up to 5 indoor units can be connected to 1 multi outdoor unit; all indoor units are individually controllable and do not need to be installed in the same room or at the same time; they operate simultaneously within the same cooling or heating mode
- Different types of indoor units can be connected: e.g. wall mounted, ceiling mounted cassette corner, concealed ceiling unit

3MXS52E/4MXS68E

5MXS90E

2MXS40-50H

CONNECTABLE INDOOR UNITS	Wall mounted																			Floor standing					Flexi type				Round flow cassette			Fully flat cassette				Concealed ceiling								Ceiling suspended			Concealed floor standing			
	FTXG-L				CTXS-K		FTXS-K						FTXS-G		FTX-J3			FTX-KV			FVXG-K			FVXS-F			FLXS-B(9)				FCQG-F			FFQ-C				FDXS-F(9)				FDBQ-B/ FBQ-D				FHQ-C			FNQ-A			
	20	25	35	50	15	35	20	25	35	42	50	60	71	20	25	35	20	25	35	25	35	50	25	35	50	25	35	50	60	35	50	60	25	35	50	60	25	35	50	60	25	35	50	60	35	50	60	25	35	50	60
2MXS40H	●	●	●		●	●	●	●	●					●	●	●	●	●	●	●	●	●	●	●		●	●										●	●														
2MXS50H	●	●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●									●	●	●													
3MXS40K	●	●	●		●	●	●	●	●											●	●		●	●		●	●			●			●	●			●	●							●			●	●		
3MXS52E	●	●	●	●	●	●	●	●	●	●	●									●	●	●	●	●	●	●	●	●			●	●		●	●	●		●	●	●					●	●	●	●	●	●	
3MXS68G	●	●	●	●	●	●	●	●	●	●	●	●								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4MXS68F	●	●	●	●	●	●	●	●	●	●	●	●								●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
4MXS80E	●	●	●	●	●	●	●	●	●	●	●	●	●							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
5MXS90E	●	●	●	●	●	●	●	●	●	●	●	●	●							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Note : blue cells contain preliminary data

Outdoor Units			2MXS40H	2MXS50H	3MXS40K	3MXS52E	3MXS68G	4MXS68F	4MXS80E	5MXS90E
Capacity	Nominal Cooling	kW	4.00	5.00	4.00	5.20	6.80	6.80	8.00	9.00
	Nominal Heating	kW	4.40	5.70	4.60	6.80	8.60	8.60	9.60	10.40
Dimensions	Height	mm	550	550	735	735	735	735	770	770
	Width	mm	765	765	936	936	936	936	900	900
	Depth	mm	285	285	300	300	300	300	320	320
Weight		kg	38	42	49	49	58	58	72	73
Electrical Details	Power Supply	Phase	1ph							
		Hz	50							
		V	230							
	Running Current	amps	Refer to Multi Combination Tables							
	Starting Current	amps	4	4	4	4	4	4	4	4
	Fuse Rating	amps	16	16	16	20	20	20	20	20
Refrigerant Circuit	Refrigerant Type		R410A							
	Refrigerant Charge	kg	1.2	1.6	2.0	2.0	2.6	2.6	3.0	3.0
Sound Pressure	Nom	dBA	47	48	46	46	48	48	48	52
Sound Power			62	63	59	59	61	61	62	66
Piping Limits	Maximum Length	m	30	30	50	50	60	60	70	75
	Maximum Vertical Rise	m	15	15	15	15	15	15	15	15
Piping Connections	Liquid	inches (mm)	2x 1/4 (6.4)	2x 1/4 (6.4)	3x 1/4 (6.4)	3x 1/4 (6.4)	3x 1/4 (6.4)	4x 1/4 (6.4)	4x 1/4 (6.4)	5x 1/4 (6.4)
	Gas	inches (mm)	2x 3/8 (9.5)	3/8 (9.5) 1/2 (12.7)	2x 3/8 (9.5) 1/2 (12.7)	2x 3/8 (9.5) 1/2 (12.7)	3/8 (9.5) 2x 1/2 (12.7)	2x 3/8 (9.5) 2x 1/2 (12.7)	3/8 (9.5) 1/2 (12.7) 2x 5/8 (15.9)	2x3/8 (9.5) 1/2 (12.7) 2x 5/8 (15.9)
Number of Connected Indoor Units			2	2	3	3	3	4	4	5
Air Flow Rate (Cooling)	Nom	m^3/sec	0.55	0.567	0.75	0.75	0.823	0.823	0.908	0.908

2MXS40H

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
2MXS40H	H/P	50	220	198	242	9.7	16	4.6	4.20	40	0.17
			230	207	253			4.6	4.20		
			240	216	264			4.6	4.22		

3D063342A

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

2MXS50H

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
2MXS50H	H/P	50	220	198	242	10.9	16	6.3	5.84	42	0.18
			230	207	253			6.3	5.85		
			240	216	264			6.3	5.86		

3D063343A

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

3MXS40K

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
3MXS40K	H/P	50	220	198	242	13.4	16	4.2	3.3	44	0.30
			230	207	253			4.0	3.1		
			240	216	264			3.8	2.9		

3D074910A

SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note6) (A)
MSC : Max. current during the starting compressor (A)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor (A)
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits.
3. Maximum allowable voltage unbalance between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the larger value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

3MXS52E

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
3MXS52E	H/P	50	220	198	242	18.5	20	6.2	5.6	44	0.30
			230	207	253			6.2	5.6		
			240	216	264			6.2	5.6		

3D052807B

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

3MXS68G

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
3MXS68G	H/P	50	230	207	253	18.1	20	9.1	8.37	43	0.33

3D080106

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

3MXS68G2V1B

Units						Power supply		Comp.		OFM	
Model	Hz	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA		
3MXS68G2V1B	H/P	50	230	207	253	17.5	20	9.1	8.37	43	0.33

SYMBOLS

MCA: Min. circuit Amps. (A)
MFA: Max. fuse Amps (A) (see note 6). (A)
MSC: Max. current during the starting compressor. (A)
RLA: Rated load Amps. (A)
DFM: Outdoor fan motor (A)
FLA: Full load Amps. (A)
w: Fan motor rated output (W.)

NOTES

1 RLA is based on the following conditions.
Cooling:
Indoor temp. 27°CDB / 19.0°CWB
Outdoor temp. 35°CDB

2 Voltage range.
Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

3 Maximum allowable voltage variation between phases is 2%.

4 MCA represents maximum input current. MFA represents capacity which may accept MCA.

5 Select wire size based on the value of MCA.

6 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

3D064284

4MXS68F

4MXS68F

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
4MXS68F	H/P	50	230	207	253	18.3	20	8.3	7.31	43	0.33

3D080107

SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter. (Earth leakage circuit breaker).

4MXS68F2V1B

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/D	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
4MXS68F2V1B	H/P	50	230	207	253	17.5	20	8.3	7.31	43	0.33

3D056163

SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 6). (A)
MSC : MSC means the max. current during the starting of compressor. (A)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
3. Maximum allowable voltage variation between phases is 2%
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA
5. Select wire size based on the larger value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)
7. For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

4MXS68F2V1B

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/D	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
4MXS68F2V1B	H/P	50	230	207	253	17.5	20	8.3	7.31	43	0.33

3D056163

SYMBOLS

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 6). (A)
MSC : MSC means the max. current during the starting of compressor. (A)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)

NOTES

1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Voltage range
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
3. Maximum allowable voltage variation between phases is 2%
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA
5. Select wire size based on the larger value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker)
7. For more details concerning conditional connections, see http://extranet.daikineurope.com, select "E-Data Books". Finally, click on the document title of your choice.

4MXS80E_5MXS90E

Model		Units				Power supply		Comp.		OFM	
Outdoor	H/P C/O	Hz	Volts	Min.	Max.	MCA	MFA	MSC	RLA	W	FLA
5MXS90E	H/P	50	230	207	253	18.5	20	11.8	9.94	95	1.02
4MXS80E	H/P	50	230	207	253	18.5	20	9.7	8.1	86	0.97

3D052365A

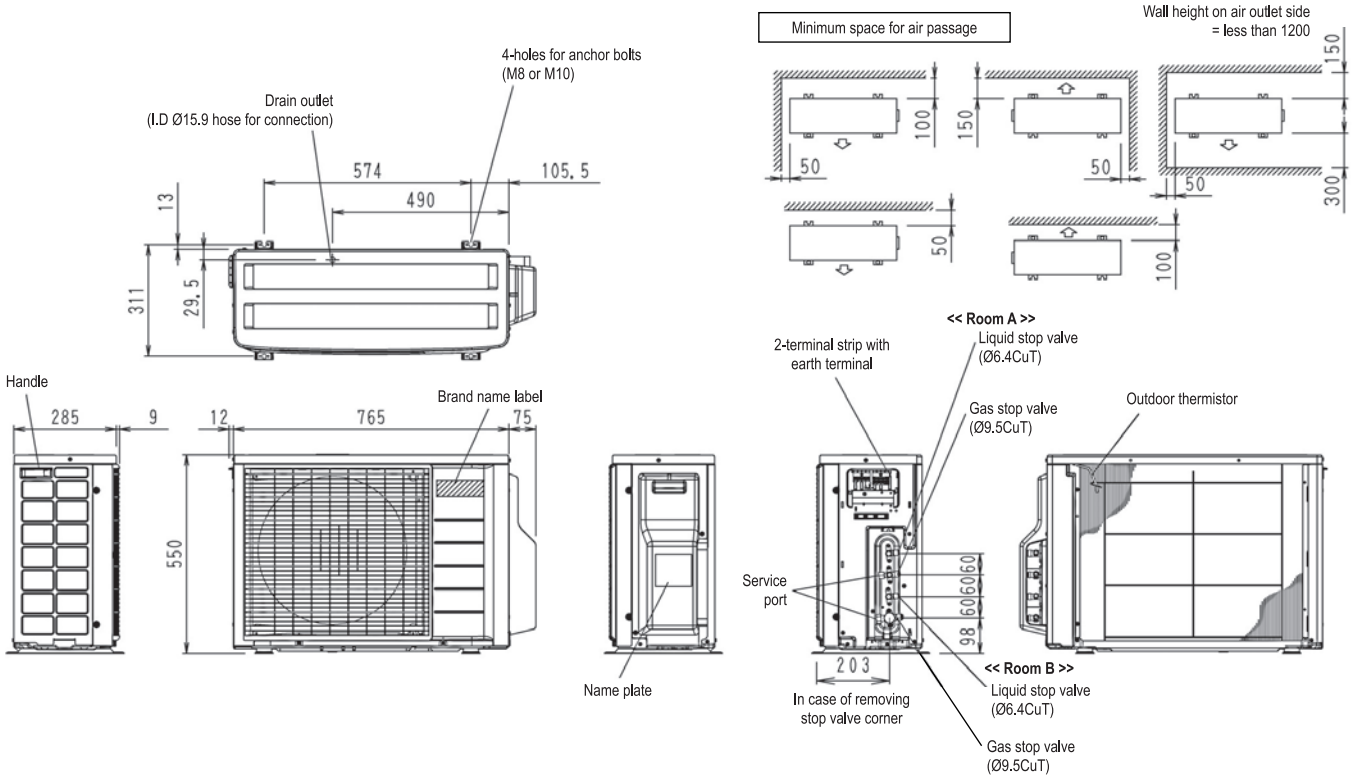
SYMBOLS

MCA : Min. Circuit Amps. (A)
MFA : Max. Fuse Amps (see note 6). (A)
MSC : Max. current during the starting compressor. (A)
RLA : Rated Load Amps. (A)
OFM : Outdoor Fan Motor. (A)
FLA : Full Load Amps. (A)
W : Fan Motor Rated Output (W)

NOTES

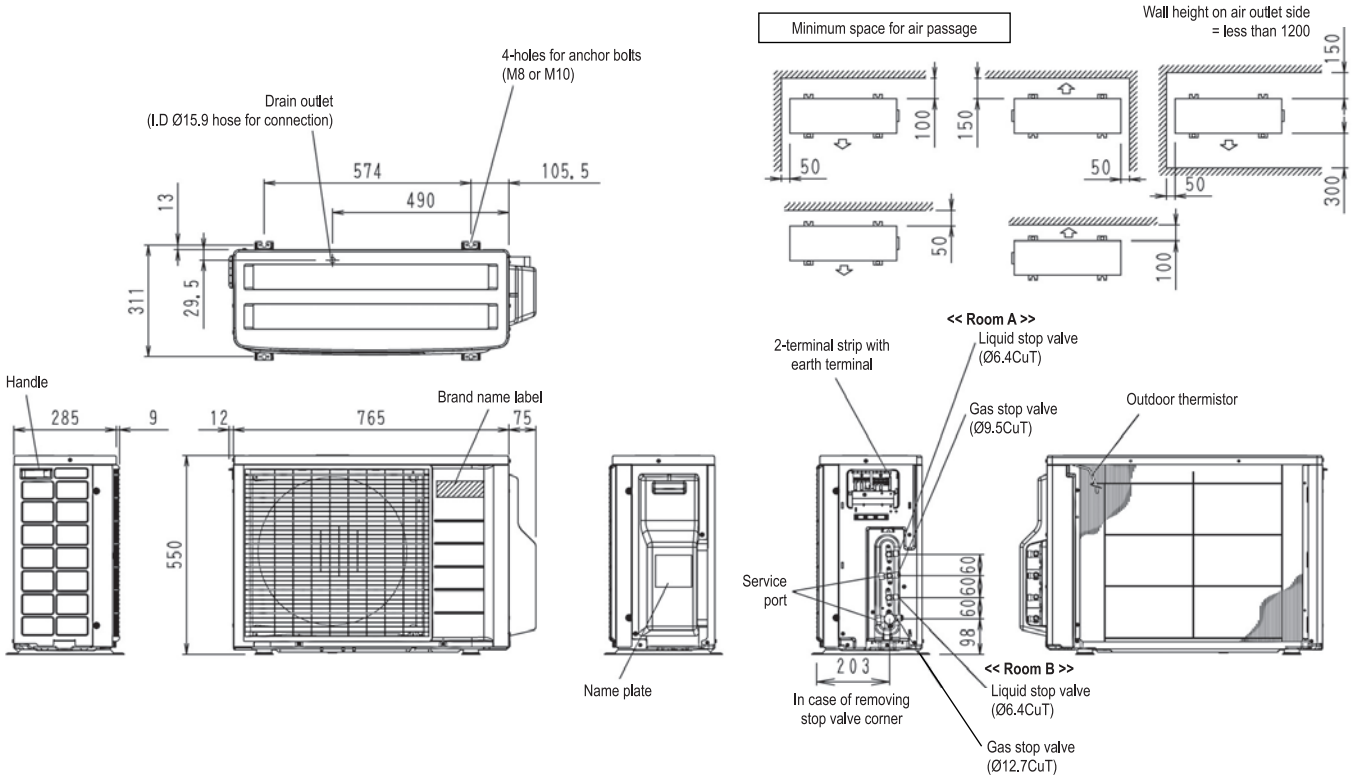
1. RLA is based on the following conditions:
   Cooling
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp.: 35°CDB
2. Voltage range.
   Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
3. Maximum allowable voltage variation between phases is 2%.
4. MCA represents maximum input current.
   MFA represents capacity which may accept MCA.
5. Select wire size based on the value of MCA.
6. MFA is used to select the circuit breaker and the ground fault circuit interrupter.
   (Earth leakage circuit breaker).

2MXS40H



3D058712C

2MXS50H



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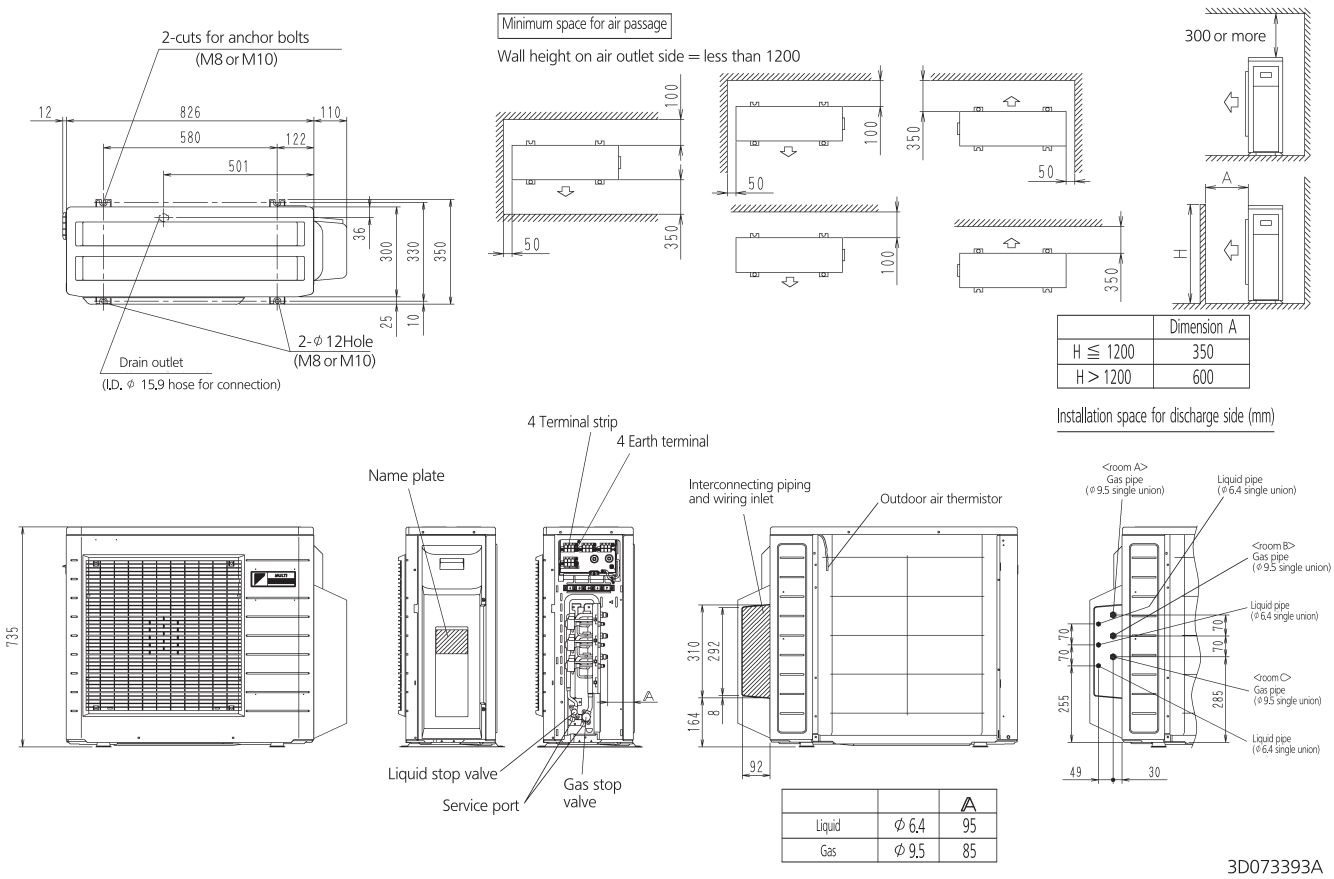
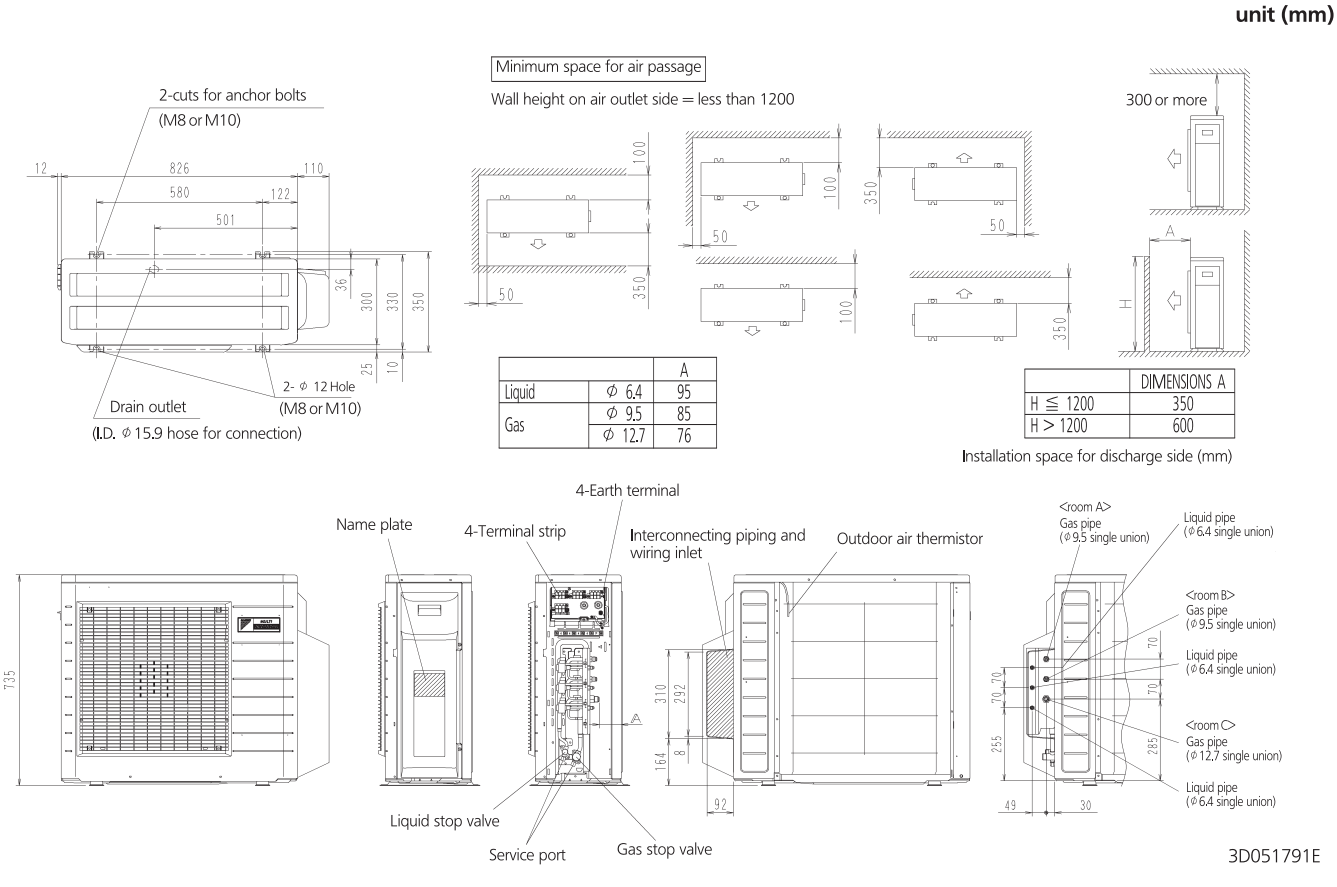
3MXS40K

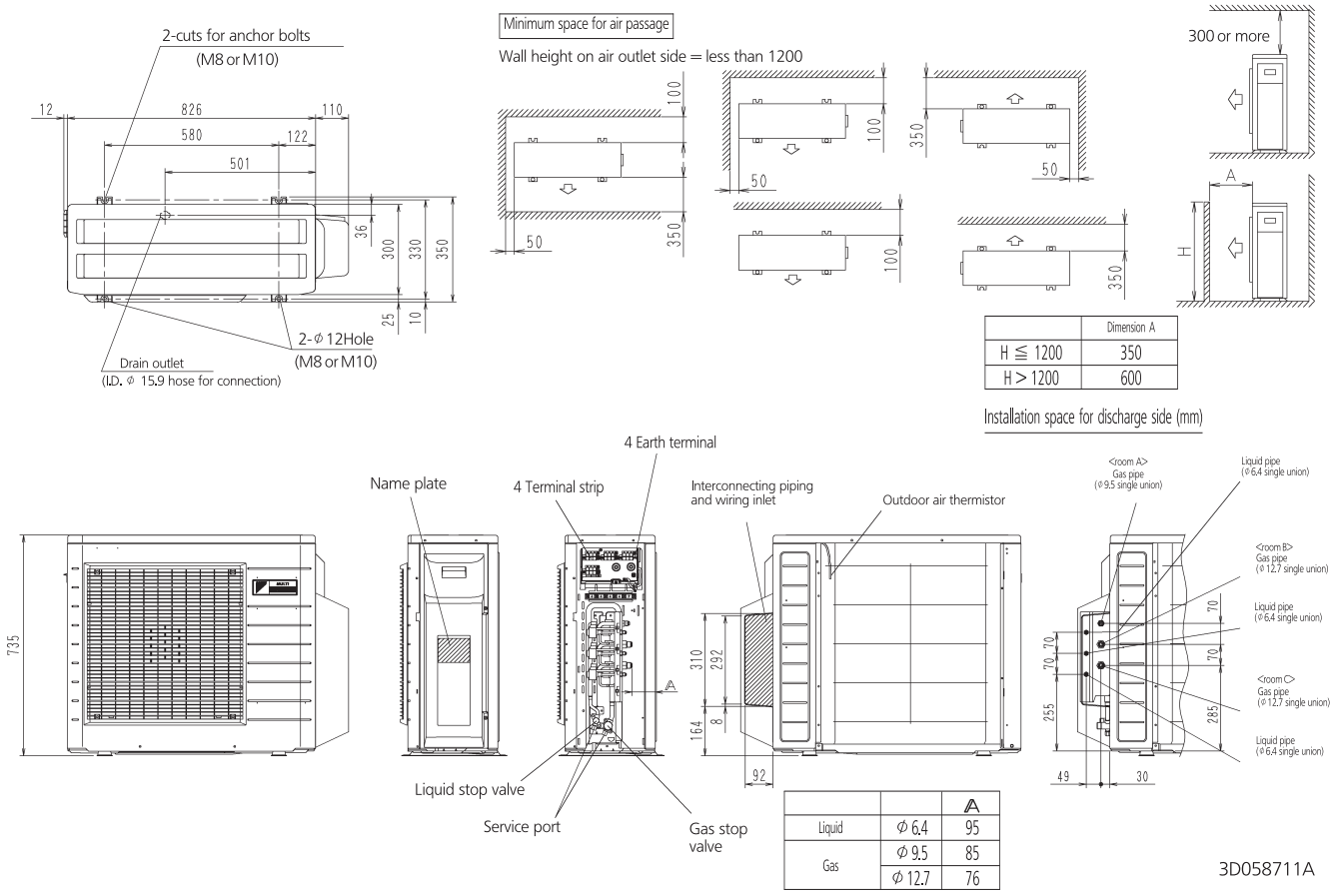


3MXS52E

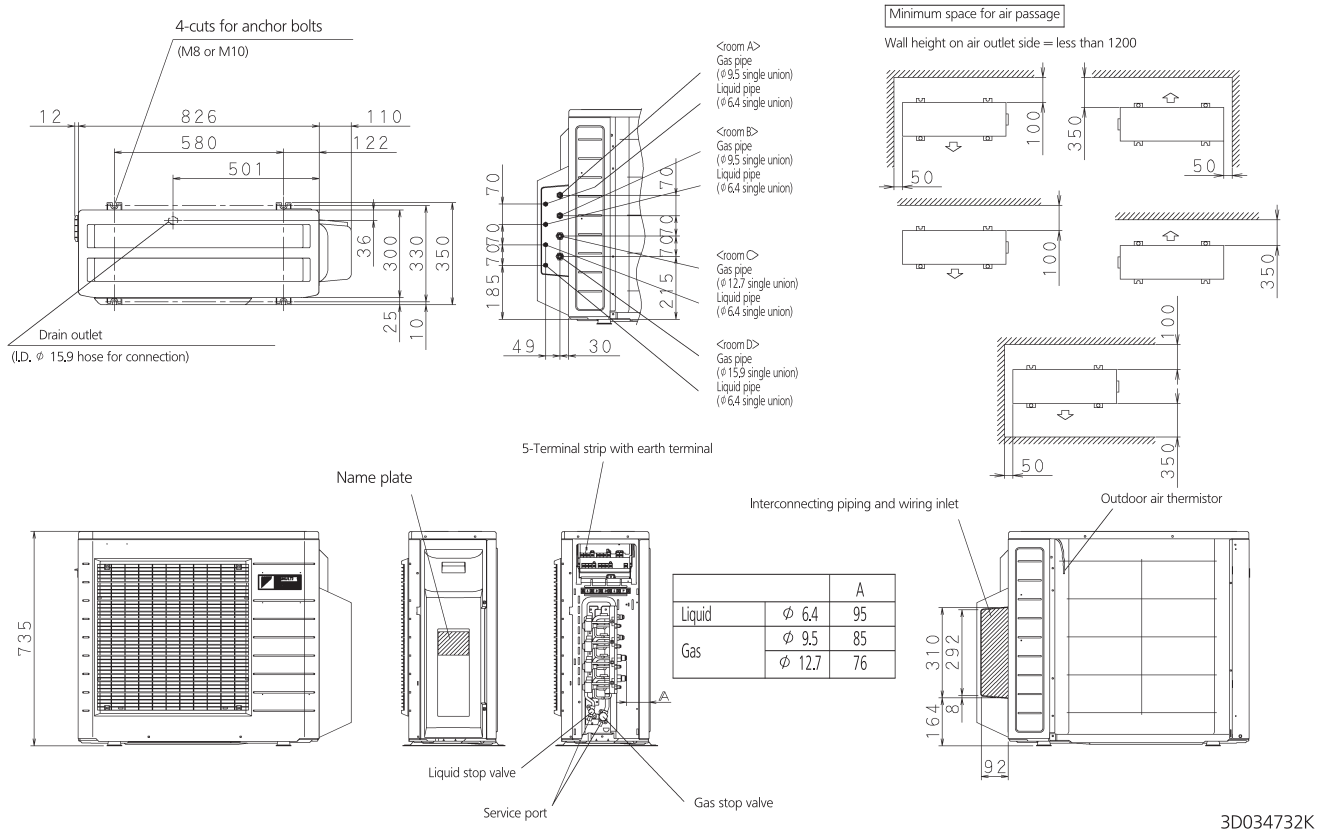
unit (mm)



3MXS68G

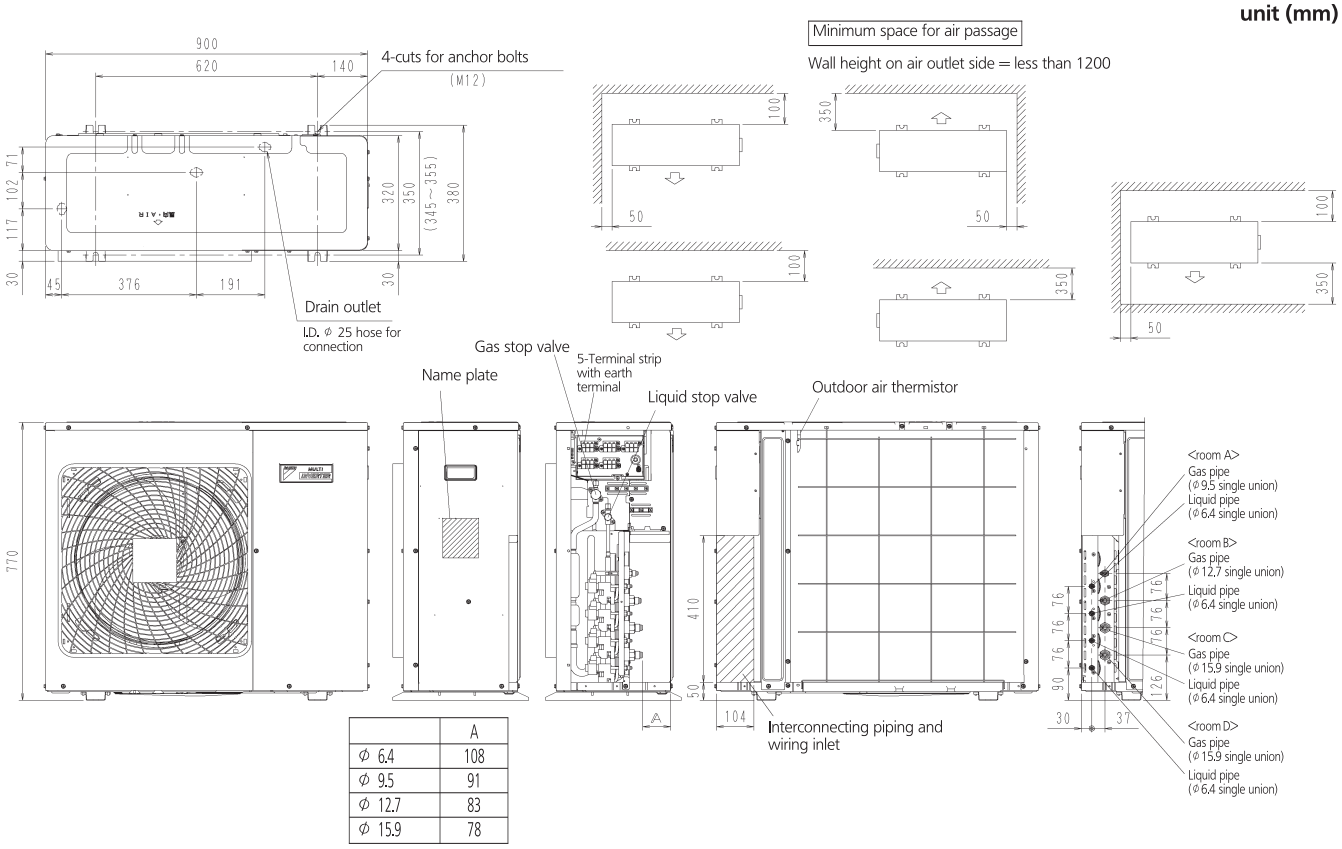


4MXS68F



4MXS80E

unit (mm)

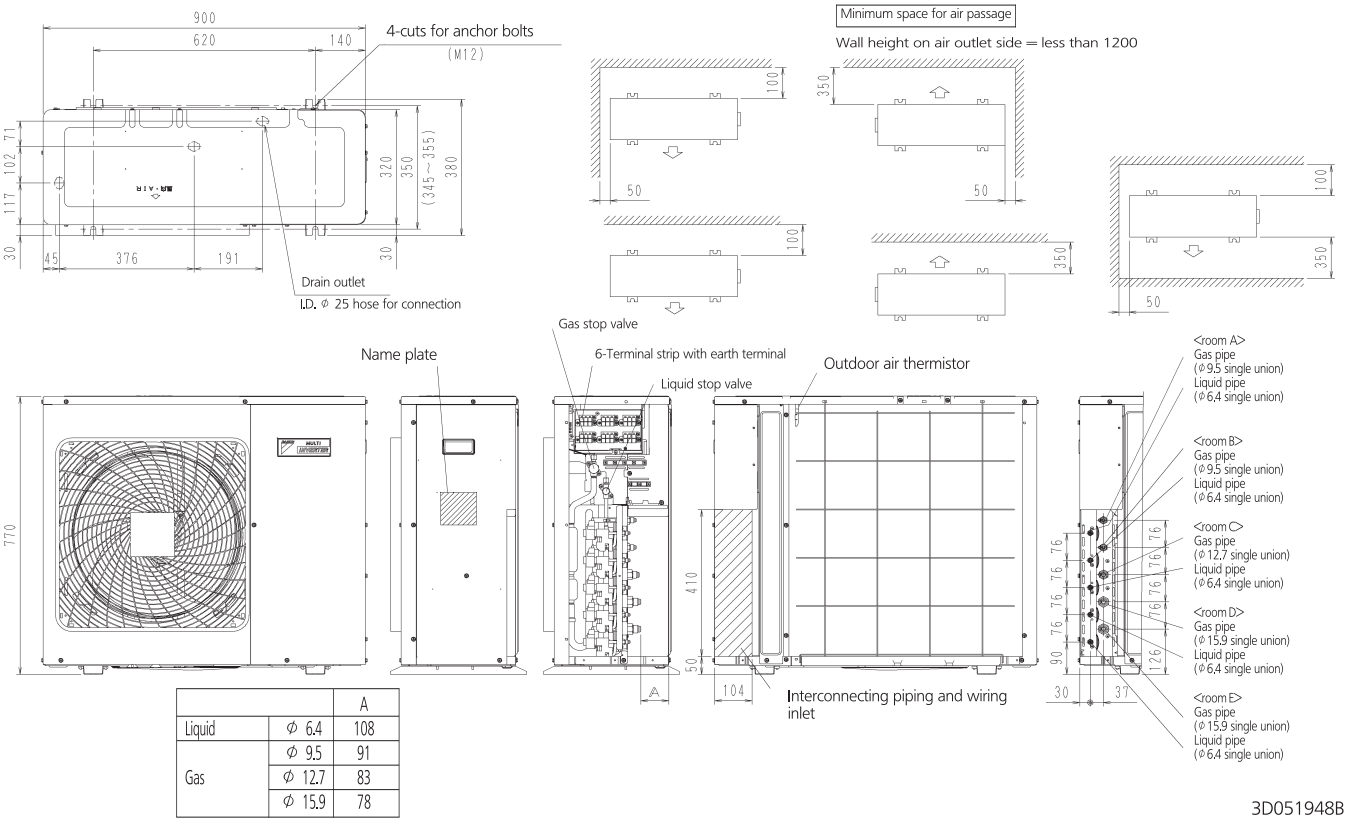


	A
φ 6.4	108
φ 9.5	91
φ 12.7	83
φ 15.9	78

3D051950B

5MXS90E

unit (mm)



		A
Liquid	φ 6.4	108
Gas	φ 9.5	91
	φ 12.7	83
	φ 15.9	78

3D051948B

VRV IV S-series compact heat pump

The most compact VRV

- Compact & lightweight single fan design makes the unit almost unnoticeable
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- 3 steps in night quiet mode: step 1: 47 dBA, step 2: 44 dBA, step 3: 41 dBA
- Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- Contains all standard VRV features

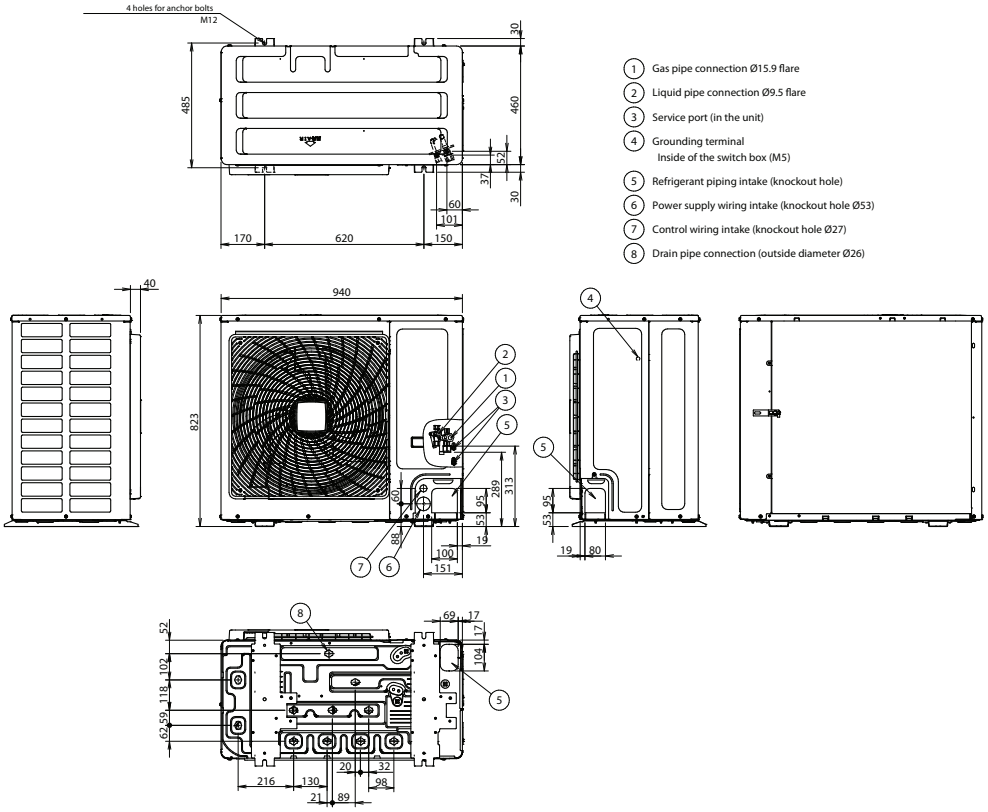
RXYSCQ-TV1

CONNECTABLE INDOOR UNITS	Wall mounted													Floor standing						Flexi type				Round flow cassette			Fully flat cassette				Concealed ceiling								Ceiling suspended		
	FTXG-L				CTXS-K		FTXS-K						FTXS-G	FVXG-K			FVXS-F			FLXS-B(9)				FCQG-F			FFQ-C				FDXS-F(9)				FDBQ-B /FBQ-D				FHQ-C		
	20	25	35	50	15	35	20	25	35	42	50	60	71	25	35	50	25	35	50	25	35	50	60	35	50	60	25	35	50	60	25	35	50	60	25	35	50	60	35	50	60
RXYSCQ-TV1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Outdoor Units			RXYSCQ4TV1	RXYSCQ5TV1
Capacity	Nominal Cooling	kW	12.1	14
	Nominal Heating	kW	12.1	14
Power Input 50Hz	Cooling	kW	3.43	4.26
	Heating	kW	3.18	3.91
EER			3.53	3.29
COP			3.81	3.58
Dimensions	Height x Width x Depth	mm	823 x 940 x 460	
Weight		kg	94	94
Refrigerant Circuit	Refrigerant Type		R410A	
Sound Pressure (Nom)	Cooling	dBA	51	52
Sound Power (Nom)	Cooling	dBA	68	69
Maximum No of Connectable Units			8	10
Electrical Details	Power Supply	Phase / Hz / V	1 / 50 / 230	
	Running Current	amps	19.0	
	Starting Current	amps	4	
	Fuse Rating	amps	32	
Piping Limits	Total Piping length	m	300	
	Maximum Length	m	70 (90 equivalent)	
	Maximum Vertical Rise	m	30	
Piping Connections	Liquid	inch (mm)	3/8 (9.5)	3/8 (9.5)
	Gas	inch (mm)	5/8 (15.9)	5/8 (15.9)
Capacity Index Limit			50~130	62.5~162.5

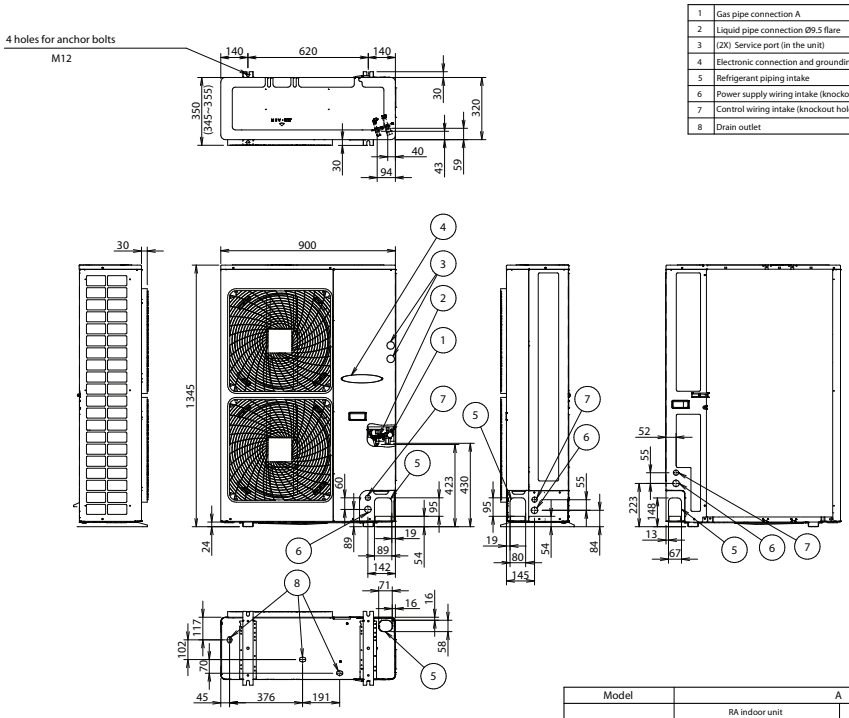
Branch provider			BPMKS967B2	BPMKS967B3
Connectable indoor units			1~2	1~3
Max. indoor unit connectable capacity			14.2	20.8
Max. connectable combination			71+71	60+71+71
Dimensions	Height x Width x Depth	mm	180x294x350	
Weight		kg	7	8

RXYCSQ-TV1



3D098107

RXYSQ-TV1



Model	A
RMXS112E8V1B	Ø19.1 brazed connection
RMXS140E8V1B	Ø19.1 brazed connection
RMXS160E8V1B	Ø19.1 brazed connection
RXYSQ4PA7V1B	Ø15.9 flared connection
RXYSQ5PA7V1B	Ø15.9 flared connection
RXYSQ6PA7V1B	Ø19.1 brazed connection
ERX100A9V1B	Ø15.9 flared connection
ERX125A9V1B	Ø15.9 flared connection
ERX140A9V1B	Ø19.1 brazed connection
GCA100BD4	Ø15.9 flared connection
GCA125BD4	Ø15.9 flared connection
GCA140BD4	Ø19.1 brazed connection
RXYSQ4PA7Y1B	Ø15.9 flared connection
RXYSQ5PA7Y1B	Ø15.9 flared connection
RXYSQ6PA7Y1B	Ø19.1 brazed connection

Model	A	
	RA indoor unit	VRV indoor unit
RXYSQ4(P8/T7)V1B	Ø19.1 brazed connection	Ø15.9 flared connection
RXYSQ5(P8/T7)V1B	Ø19.1 brazed connection	Ø15.9 flared connection
RXYSQ6(P8/T7)V1B	Ø19.1 brazed connection	
RXYSQ4(P8/T7)Y1B	Ø19.1 brazed connection	Ø15.9 flared connection
RXYSQ5(P8/T7)Y1B	Ø19.1 brazed connection	Ø15.9 flared connection
RXYSQ6(P8/T7)Y1B	Ø19.1 brazed connection	

3TW30374-1D

RXYSCQ-TV1

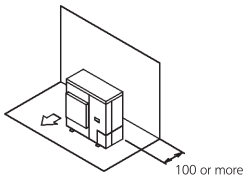
Required installation space

The unit of the values is mm.

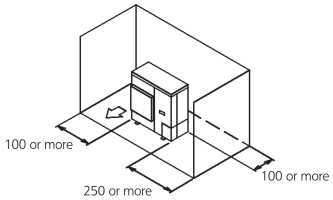
(A) When there are obstacles on suction sides.

● No obstacle above

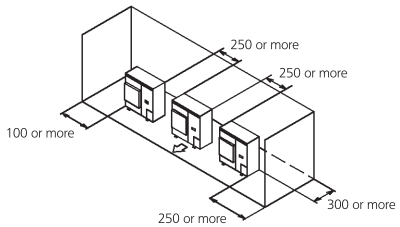
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides

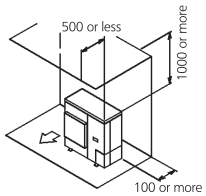


②Series installation (2 or more)
- Obstacle on both sides

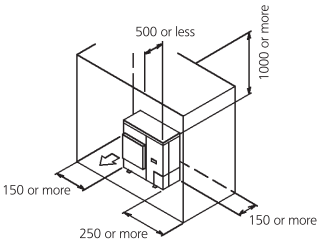


● Obstacle above, too.

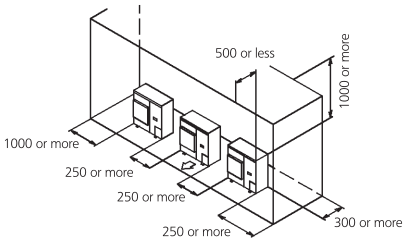
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on the suction side and both sides



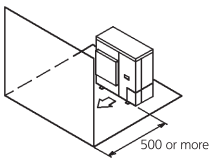
② Series installation (2 or more)
- Obstacle on the suction side and both sides



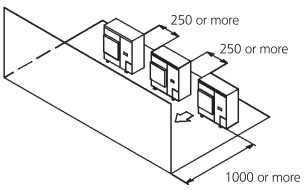
(B) When there are obstacles on discharge sides.

● No obstacle above

① Stand-alone installation

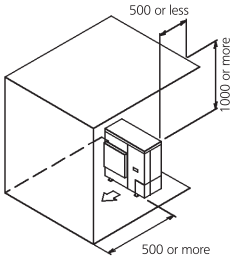


② Series installation (2 or more)

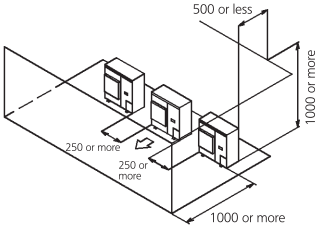


● Obstacle above, too

① Stand-alone installation



② Series installation (2 or more)



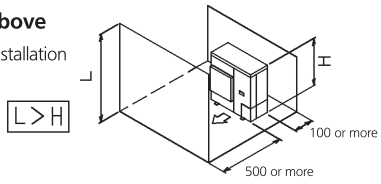
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

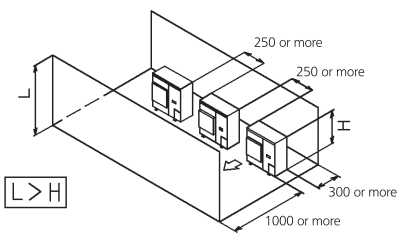
When the obstacles on the discharge side is higher than the unit.
(There is no height limit for obstructions on the intake side.)

● No obstacle above

① Stand-alone installation



② Series installation (2 or more)



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RXYSCQ-TV1

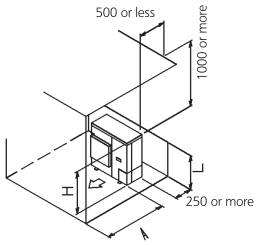
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	750
	1/2 H < L ≦ H	1000
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

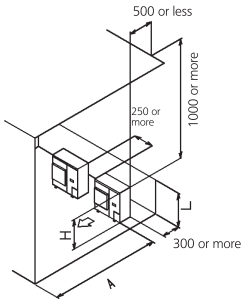


② Series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	1000
	1/2 H < L ≦ H	1250
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.

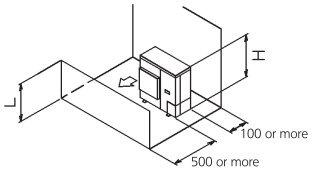


Pattern 2

When the obstacle on the discharge side is lower than the unit:
(There is no height limit for obstructions on the intake side.)

● No obstacle above

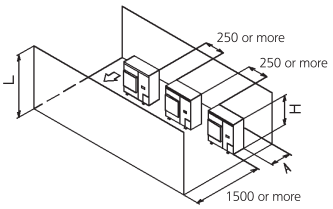
① Stand-alone installation
L > H



② Series installation (2 or more)

The relations between H, A and L are as follows.

L	A
0 < L ≦ 1/2 H	250
1/2 H < L ≦ H	300



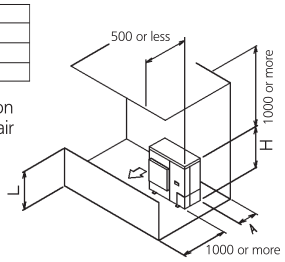
● Obstacle above, too

① Stand-alone installation

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	100
	1/2 H < L ≦ H	200
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

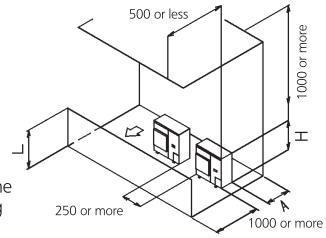


② Series installation

The relations between H, A and L are as follows.

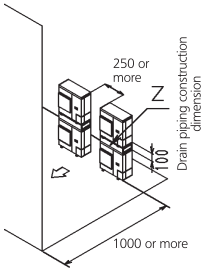
	L	A
L ≦ H	0 < L ≦ 1/2 H	250
	1/2 H < L ≦ H	300
H < L	Set the stand as : L ≦ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.

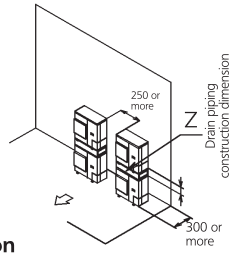


(D) Double-decker installation

① Obstacle on the discharge side.
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.

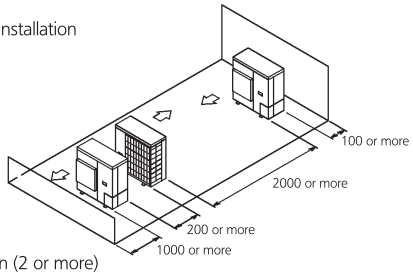


② Obstacle on the suction side.
Close the gap Z (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.



(E) Multiple rows of series installation (on the rooftop, etc.)

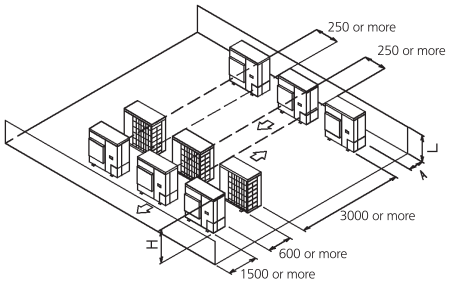
① One row of stand-alone installation



② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
L ≦ H	0 < L ≦ 1/2 H	250
	1/2 H < L ≦ H	300
H < L	Can not be installed	



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Ventilation and Biddle air curtains

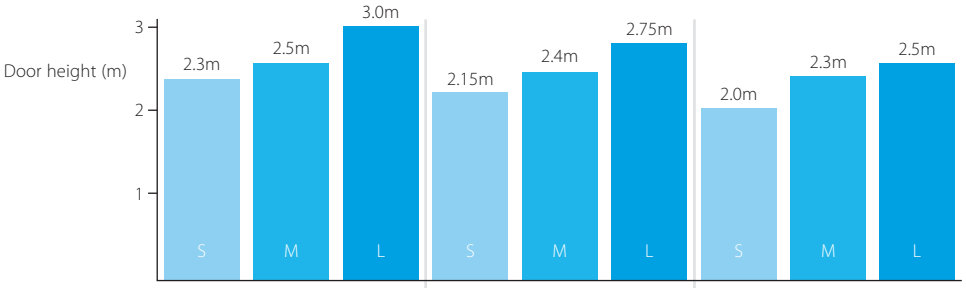
Commercial spaces need ventilation and air curtains to optimise efficiency and comfortable environment

Outdoor units portfolio for connection to Biddle air curtains and air handling units

System	Type	Product name	Condensing units		71	100	125	140	200	250
Air cooled	Heat pump	ERQ-AV1 [1] Condensing Units	› High efficiency › High comfort levels › Easy design and installation › Maximise installation flexibility by offering 4 types of control systems			●	●	●		
		ERQ-AW1 [1] Condensing Units					●		●	●

1) Only use these condensing units in combinations with an air handling unit.

Biddle air curtain portfolio

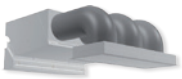


Installation condition

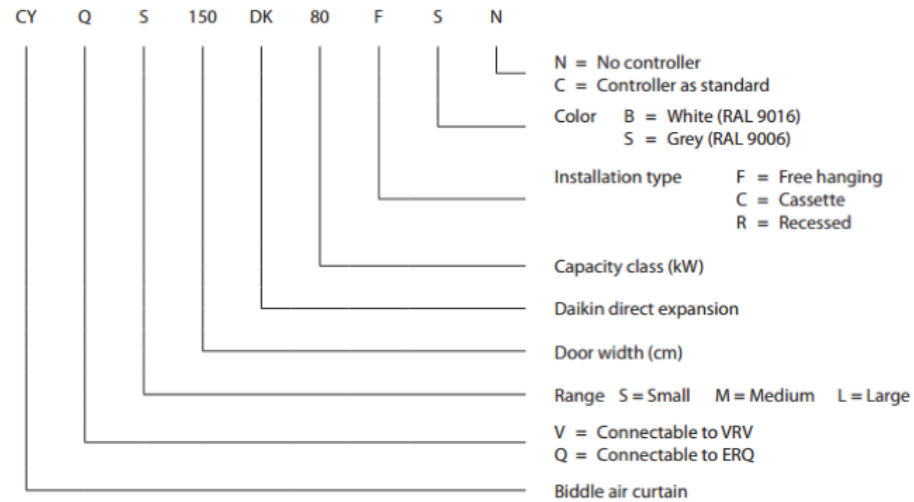
Favourable
ex: covered shopping mall or revolving door entrance

Normal
ex: little direct wind, no opposite open doors, building with ground floor only

Unfavourable
ex: location at a corner or square, multiple floors and / or open stairwell

Type	Product name	Features	
Biddle standard air curtain free hanging	CYQ S/M/L-DK-F	› CYQ - Biddle air curtain for connection to ERQ › Connectable to ERQ heat pump › Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible › Free-hanging model (F): easy wall mounted installation › Recessed model (R): neatly concealed in the ceiling › A payback period of less than 1.5 years compared to installing an electric air curtain › Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required	
Biddle standard air curtain cassette	CYQ S/M/L-DK-C		
Biddle standard air curtain recessed	CYQ S/M/L-DK-R		

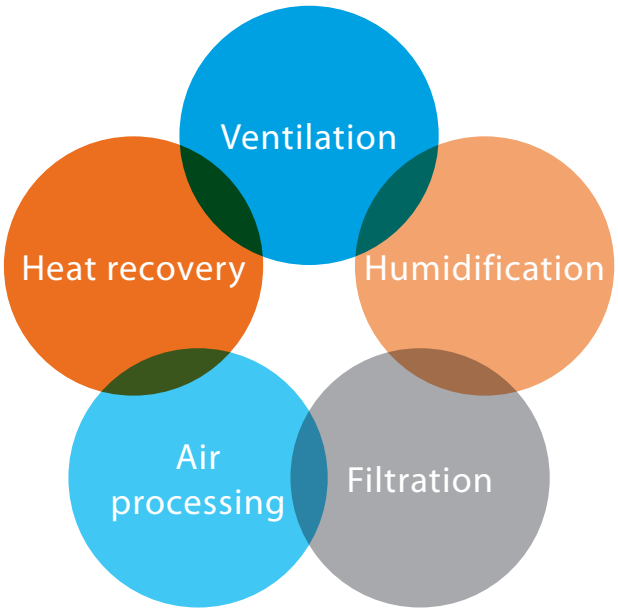
Biddle air curtain nomenclature



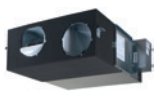
Ventilation portfolio

Five components of indoor air quality

- **Ventilation:** ensures the provision of fresh air
- **Heat recovery:** recovers heat and moisture from the outgoing air to maximise comfort and efficiency
- **Air processing:** heats or cools incoming fresh air maximising comfort and minimising the load on the air conditioning installation
- **Humidification:** optimises the balance between indoor and outdoor humidity
- **Filtration:** removes dust, pollution and odours from the air



Air flow rate (m³/h)

Type	Product name	Model	0 200 400 600 800 1,000 2,000 4,000 10,000 25,000 140,000	Components of indoor air quality
Heat reclaim ventilation	VAM-FC 	Ventilation with heat recovery as standard › Energy saving ventilation › Maximise floor space for furniture, decoration and fittings › Free cooling › Reduced energy consumption thanks to DC inverter fan motor › Optional CO_2 sensor saves energy while improving indoor air quality		› Ventilation › Energy recovery 
Air Handling Unit (application)	DX total fresh air package 	Fully customised solution for ventilation and air handling › Inverter technology › Heat pump and heat recovery › Provides virtually free heating › Room temperature via Daikin control › Large range of expansion valve kits	(1)	› Ventilation › Energy recovery › Air processing › Humidification › Filtration 

Biddle air curtain for ERQ

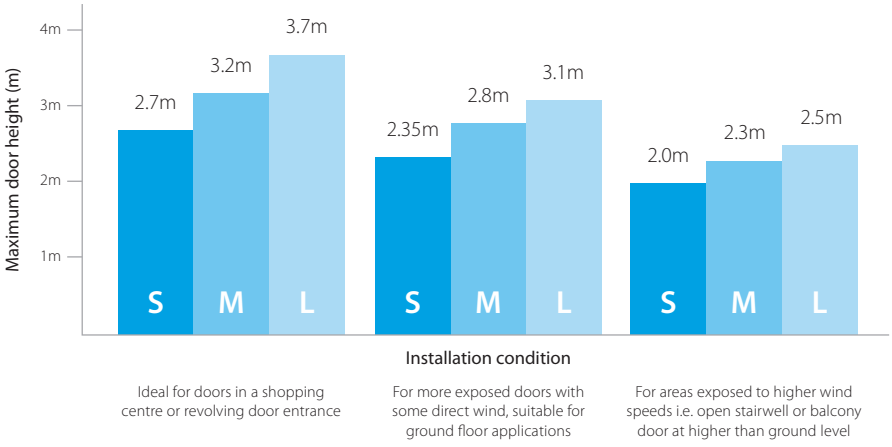
- Connectable to ERQ heat pump
- ERQ is among the first DX systems suitable for connection to air curtains
- Free-hanging model (F): easy wall mounted installation
- Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible
- Recessed model (R): neatly concealed in the ceiling
- A payback period of less then 1.5 years compared with installing an electric air curtain
- Easy and quick to install at reduced costs since no additional water systems, boilers and gas connections are required
- Maximum energy efficiency stemming from almost zero down flow turbulence, optimised air flow and the application of advanced discharge rectifier technology
- Around 85% air separation efficiency, greatly reducing both heat loss and required indoor unit heating capacity

CYQM150DK80FSN

CYQM150DK80CSN

CYQM150DK80RSN

Biddle Comfort air curtain range



Selection

1) Use the Door Height graph to determine the Air Curtain size relevant to your application
2) When you know the size (S/M/L), refer to specific tables to select the model for your required door width
3) Select outdoor unit to pair door curtain, based on efficiency and power source

S Biddle Standard Air Curtain (Small) – Door height 2m to 2.7m

Maximum Door Width			m	1.50			2.00			2.50		
Mounting Height *2 Max / Min			m	2.7 / 2.0			2.7 / 2.0			2.7 / 2.0		
Model Name				CYQS150DK80*BN			CYQS200DK100*BN			CYQS250DK140*BN		
Type				* = F	* = C	* = R	* = F	* = C	* = R	* = F	* = C	* = R
Heating Capacity		speed 3	kW	9.00			11.60			16.20		
Delta T	Inlet = room temperature	speed 3	°K	15			15			16		
Power Input (50Hz)	Fan only / Heating		kW	0.35 / 0.35			0.46 / 0.46			0.58 / 0.58		
Dimensions	Height		mm	270	270	270	270	270	270	270	270	270
	Width		mm	1,500	1,500	1,548	2,000	2,000	2,048	2,500	2,500	2,548
	Depth		mm	590	821	561	590	821	561	590	821	561
Weight			kg	66	83	88	83	102	108	107	129	137
Casing	Colour			white RAL9010			white RAL9010			white RAL9010		
Minimum requiring ceiling void			mm	420			420			420		
Fan - Air Flow Rate	Heating	speed 3	m^3/sec	0.485			0.647			0.808		
Sound Pressure	Heating	speed 3	dBA	49			50			51		
Refrigerant	Type			R-410A			R-410A			R-410A		
Piping Connections	Liquid (OD) / Gas		inch (mm)	3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 3/4 (19)		
Power Supply			Phase / Hz / V	1 / 50 / 230			1 / 50 / 230			1 / 50 / 230		

* 2: Mounting Height at base of Door Curtain Air Outlet. F = Free Hanging / C = Cassette / R = Recessed

Condensing Unit Selection for Small Door Curtain			
Standard Efficiency	ERQ100AV1	ERQ100 AV1	ERQ125AV1 / AW1
Improved Efficiency			ERQ140AV1
High Efficiency		ERQ125AV1 / AW1	ERQ200AV1

R-410A

M Biddle Standard Air Curtain (Medium) – Door height 2.3m to 3.2m

Maximum Door Width			m	1.00			1.50			2.00			2.5		
Mounting Height *2 Max / Min			m	3.2 / 2.3			3.2 / 2.3			3.2 / 2.3			3.2 / 2.3		
Model Name				CYQM100DK80*BN			CYQM150DK80*BN			CYQM200DK100*BN			CYQM250DK140*BN		
Type				*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R
Heating Capacity		speed 3	kW	9.20			11.00			13.40			19.90		
Delta T	Inlet = room temperature	speed 3	°K	17			14			13			15		
Power Input (50Hz)	Fan only / Heating		kW	0.37 / 0.37			0.56 / 0.56			0.75 / 0.75			0.94 / 0.94		
Dimensions	Height		mm	270	270	270	270	270	270	270	270	270	270	270	270
	Width		mm	1,000	1,000	1,048	1,500	1,500	1,548	2,000	2,000	2,048	2,500	2,500	2,548
	Depth		mm	590	821	561	590	821	561	590	821	561	590	821	561
Weight			kg	57	68	66	73	88	93	94	111	117	108	136	144
Casing	Colour			white RAL9010			white RAL9010			white RAL9010			white RAL9010		
Minimum requiring ceiling void			mm	420			420			420			420		
Fan - Air Flow Rate	Heating	speed 3	m^3/sec	0.446			0.669			0.892			1.115		
Sound Pressure	Heating	speed 3	dBA	50			51			53			54		
Refrigerant	Type			R-410A			R-410A			R-410A			R-410A		
Piping Connections	Liquid (OD) / Gas		inch (mm)	3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 3/4 (19)		
Power Supply			Phase / Hz / V	1 / 50 / 230			1 / 50 / 230			1 / 50 / 230			1 / 50 / 230		

* 2: Mounting Height at base of Door Curtain Air Outlet. F = Free Hanging / C = Cassette / R = Recessed

Condensing Unit Selection form Medium Door Curtain			
Standard Efficiency	ERQ100AV1	ERQ100AV1	ERQ100AV1 / ERQ200AW1
Improved Efficiency			ERQ125AV1 / AW1 / ERQ250AW1
High Efficiency		ERQ125AV1 / AW1	ERQ140AV1

L Biddle Standard Air Curtain (Large) – Door height 2.5m to 3.7m

Maximum Door Width			m	1.00			1.50			2.00			2.5		
Mounting Height *2 Max / Min			m	3.7 / 2.5			3.7 / 2.5			3.7 / 2.5			3.7 / 2.5		
Model Name				CYQL100DK125*BN			CYQL150DK200*BN			CYQL200DK250*BN			CYQL250DK250*BN		
Type				*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R	*=F	*=C	*=R
Heating Capacity		speed 3	kW	15.60			23.30			29.40			31.10		
Delta T	Inlet = room temperature	speed 3	°K	15			15			14			12		
Power Input (50Hz)	Fan only / Heating		kW	0.75 / 0.75			1.13 / 1.13			1.50 / 1.50			1.88 / 1.88		
Dimensions	Height		mm	370	370	370	370	370	370	370	370	370	370	370	370
	Width		mm	1,000	1,000	1,048	1,500	1,500	1,548	2,000	2,000	2,048	2,500	2,500	2,548
	Depth		mm	774	1105	745	774	1105	745	774	1105	745	774	1105	745
Weight			kg	76	81	83	100	118	141	126	151	155	157	190	196
Casing	Colour			white RAL9010			white RAL9010			white RAL9010			white RAL9010		
Minimum requiring ceiling void			mm	520			520			520			520		
Fan - Air Flow Rate	Heating	speed 3	m^3/sec	0.861			1.292			1.722			2.153		
Sound Pressure	Heating	speed 3	dBA	53			54			56			57		
Refrigerant	Type			R-410A			R-410A			R-410A			R-410A		
Piping Connections	Liquid (OD) / Gas		inch (mm)	3/8 (9.5) / 5/8 (15.9)			3/8 (9.5) / 3/4 (19)			3/8 (9.5) / 7/8 (22.2)			3/8 (9.5) / 7/8 (22.2)		
Power Supply			Phase / Hz / V	1 / 50 / 230			1 / 50 / 230			1 / 50 / 230			1 / 50 / 230		

* 2: Mounting Height at base of Door Curtain Air Outlet. F = Free Hanging / C = Cassette / R = Recessed

Condensing Unit Selection for Large Door Curtain				
Standard Efficiency	ERQ125AV1 / AW1	ERQ200AW1	ERQ250AW1	ERQ250AW1
Improved Efficiency	ERQ140AV1	ERQ250AW1		
High Efficiency	ERQ200AW1			

ERQ Condensing Units

			Single Phase			3 Phase		
			ERQ100AV1	ERQ125AV1	ERQ140AV1	ERQ125AW1	ERQ200AW1	ERQ250AW1
Dimensions	Height	mm	1345	1345	1345	1680	1680	1680
	Width	mm	900	900	900	635	930	930
	Depth	mm	320	320	320	765	765	765
Weight		kg	120	120	120	159	187	240
Pipe Run		m	55	55	55	55	55	55
Airflow Direction			Side blow	Side blow	Side blow	Top blow	Top blow	Top blow

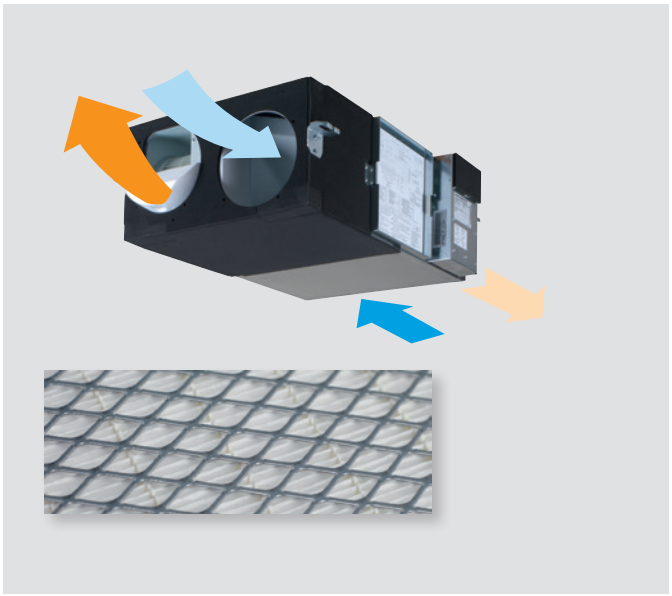
Accessories for all Door Curtains

Accessory Ref	Description
BRC1E52A	Premium wired remote controller with full text menu, Energy features and 7 Day Time Clock
KRCS01-1	Remote room mounted temperature sensor
RTD-20/UK.FB2	Energy control PCB for Sky Air and VRV

Heat reclaim ventilation

Ventilation with heat recovery as standard

- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Ideal solution for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- Reduced energy consumption thanks to specially developed DC fan motor
- Prevent energy losses from over-ventilation while maintaining indoor air quality with optional CO_2 sensor
- Can be used as stand alone unit or integrated in the VRV system
- Wide range of units: air flow rate from 150 up to 2,000 m^3/h
- High efficiency filters available in M6 ,F7, F8 grades
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation
- Specially developed heat exchange element with High Efficiency Paper (HEP)
- No drain piping needed



- Can operate in over- and under pressure
- Total solution for fresh air with Daikin supply of both VAM and electrical heaters

			VAM150FC	VAM250FC	VAM350FC	VAM500FC	VAM650FC	VAM800FC	VAM1000FC	VAM1500FC	VAM2000FC
Dimensions	Height	mm	285		301		364			726	
	Width	mm	776		828		1004			1514	
	Depth	mm	525		816		868		1160	868	1156
Weight		kg	24		33		51	54	63	128	145
Duct Connection Diameter		mm	100	150	150	200	200	250	250	350	350
Air Flow Rate	Ultra-High	m^3/hr	150	250	350	500	650	800	1000	1500	2000
	High	m^3/hr	140	230	320	410	545	725	950	1350	1880
	Low	m^3/hr	105	155	210	310	450	665	820	1230	1500
	Ultra-High	m^3/sec	0.042	0.069	0.097	0.139	0.181	0.222	0.278	0.417	0.556
	High	m^3/sec	0.039	0.064	0.089	0.114	0.151	0.201	0.264	0.375	0.522
	Low	m^3/sec	0.029	0.043	0.058	0.086	0.125	0.185	0.228	0.342	0.417
External Static Pressure	Ultra-High	Pa	90	70	103	83	100	109	147	116	132
	High	Pa	87	63	93	57	73	94	135	97	118
	Low	Pa	40	25	51	35	49	78	100	80	77
Sound Pressure Level (Heat Exchange Mode)	Ultra-High	dBA	27	28.0	32.0	33.0	34.5	36.0	36.0	39.5	40.0
	High	dBA	26	26.0	31.5	31.5	33.0	34.5	35.0	38.0	38.0
	Low	dBA	20.5	21.0	23.5	24.5	27.0	31.0	31.0	34.0	35.0
Electrical Details	Power Supply	V / Hz / Phase	230 / 50 / 1								
	Running Current	A	0.9	0.9	0.9	1.3	1.6	2.5	3.0	5.0	5.0
	Max Fuse Size	A	15	15	15	15	15	15	15	15	15

* For full details of specifications relating to EN308 please see the technical data book

Preheater for VAM

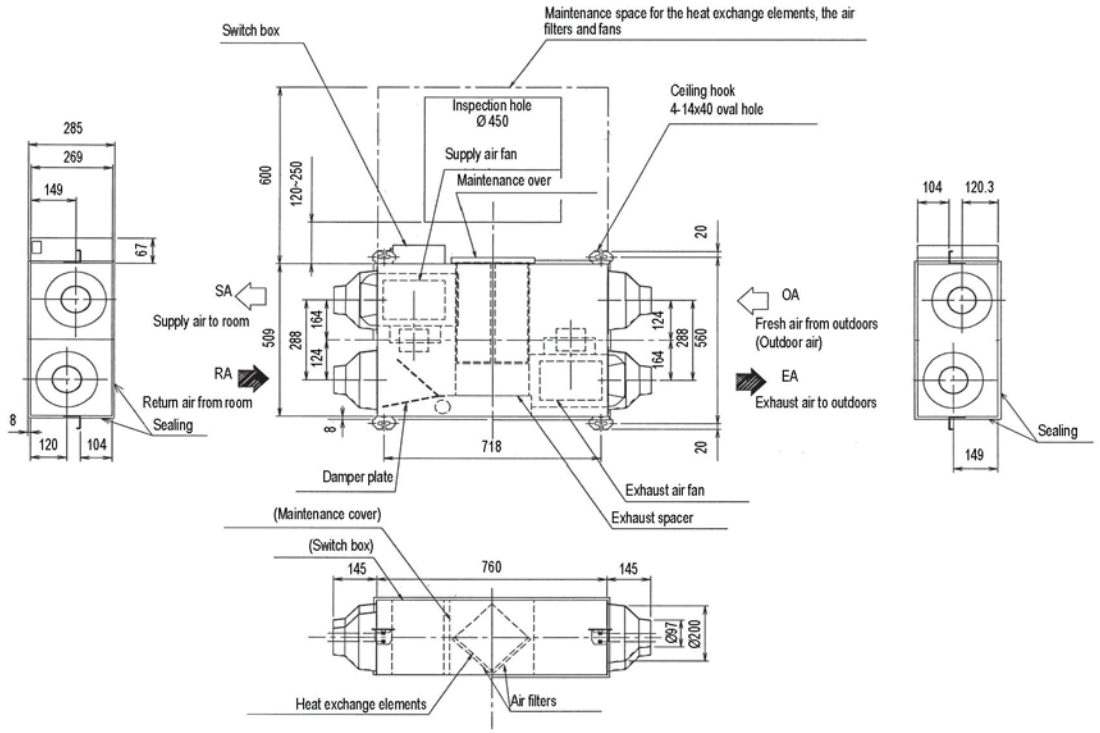
- Total solution for fresh air with Daikin supply of both VAM and preheaters
- Increased comfort in low outdoor temperature thanks to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- Standard dual flow and temperature sensor
- Flexible setting with adjustable setpoint
- Increased safety with 2 cut-outs: manual & automatic
- BMS integration thanks to:
  - Volt free relay for error indication
  - 0-10VDC input for setpoint control

PREHEATER FOR VAM	VH	(VH)
Supply voltage		220/250V ac 50/60 Hz. +/-10%
Output current (maximum)		19A at 40°C (ambient)
Temperature sensor		5k ohms at 25°C (table 502 1T)
Temperature control range		0 to 40°C / (0-10V 0-100%)
Control fuse		20 x 5mm 250mA
LED indicators		Power ON - Yellow Heater ON - Red (solid or flashing, indicating pulsed control) Airflow fault - Red
Mounting holes		98mm x 181mm centres 5 mm ø holes
Maximum ambient adjacent to terminal box		35°C (during operation)
Auto high temp. cutout		100°C Pre-set
Man. reset high temp. cutout		125°C Pre-set
Run relay		1A 120V AC or 1A 24V DC
BMS setpoint input		0-10VDC

	VH	1B	2B	3B	4B	4/AB	5B
Capacity	kW	1	1	1	1.5	2.5	2.5
Duct diameter	mm	100	150	200	250	250	300
Connectable VAM		VAM150FC	VAM250FC	VAM500FC	VAM800FC	VAM800FC	VAM1500FC
		-	VAM350FC	VAM650FC	VAM1000FC	VAM1000FC	VAM2000FC

For the selection of the appropriate capacity, please refer to the VAM selection software.

VAM150FC

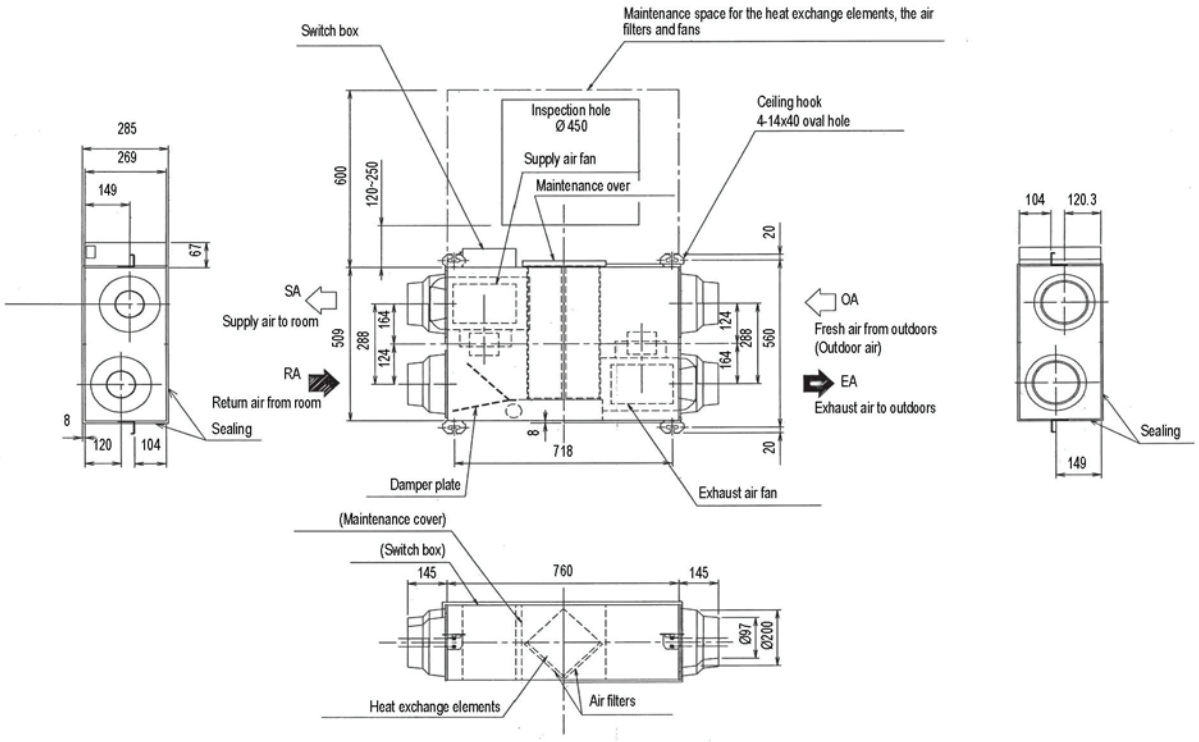


NOTE

1 Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27874-1

VAM250FC

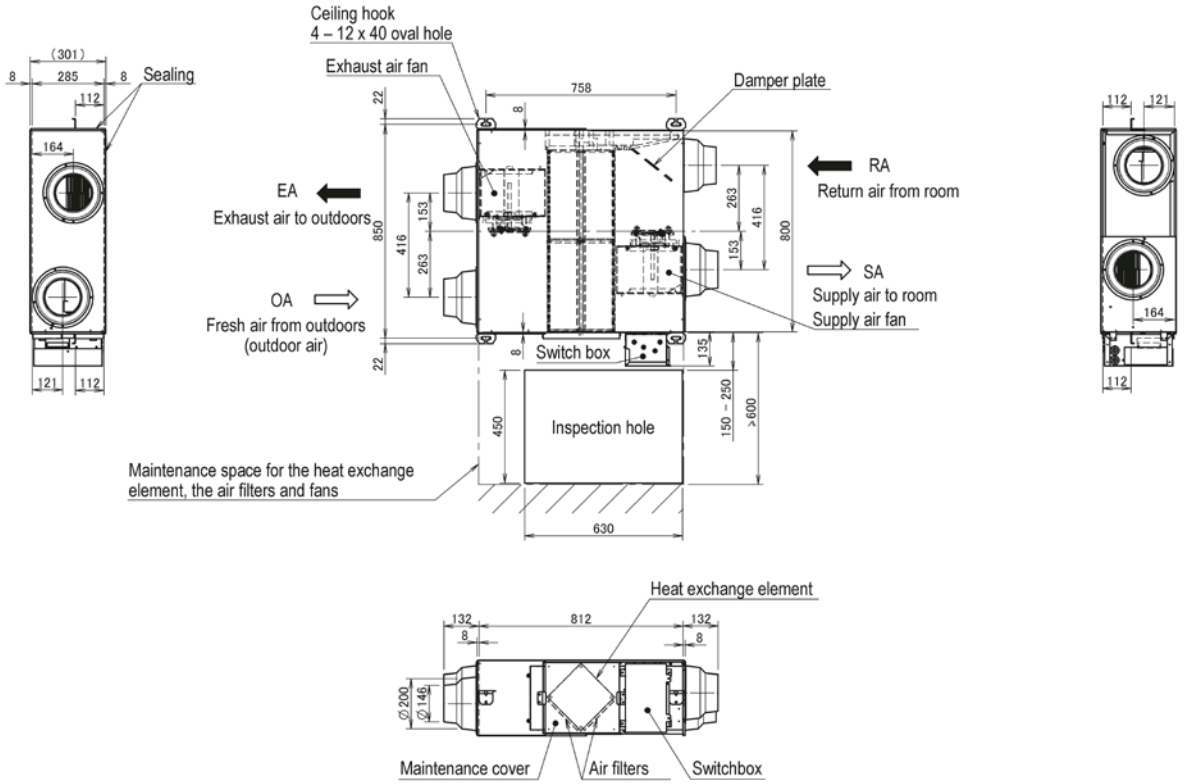


NOTE

1 Be sure to provide the inspection hole (450x450 mm) to inspect the air filters, the exchange elements and fans.

3TW27884-1

VAM350FC

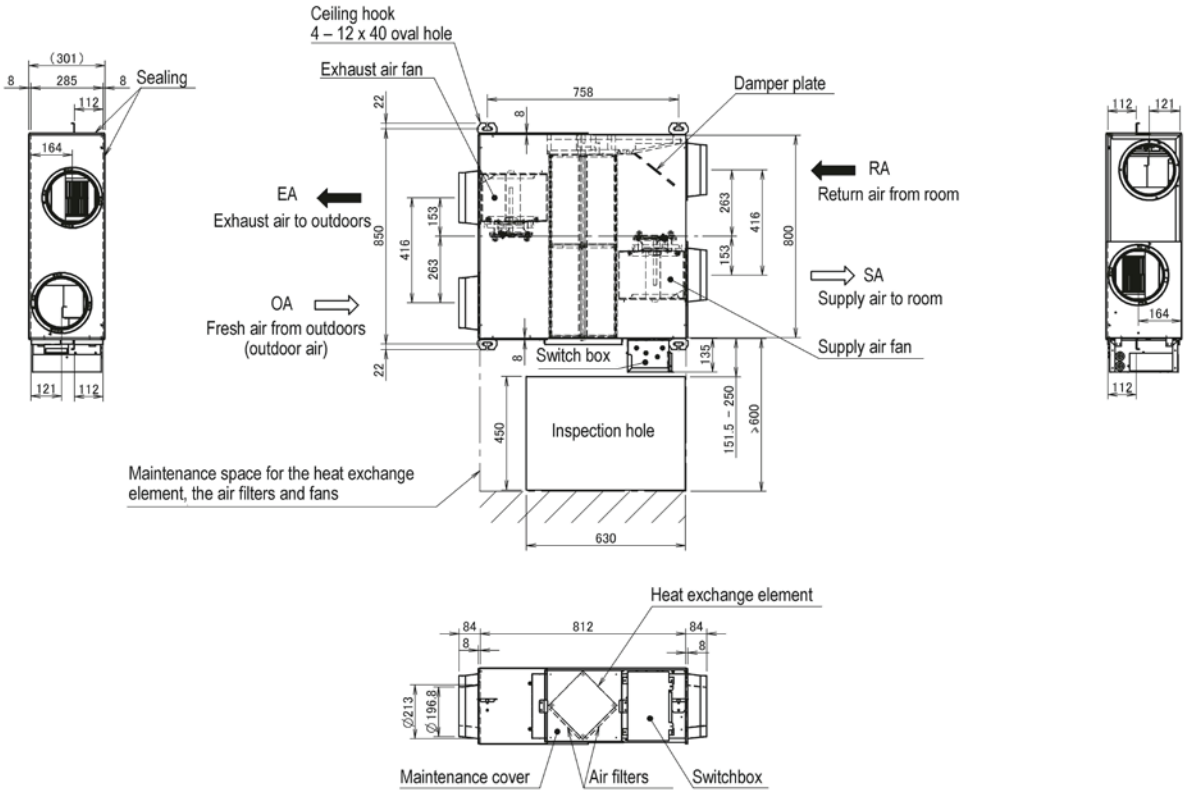


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081162

VAM500FC

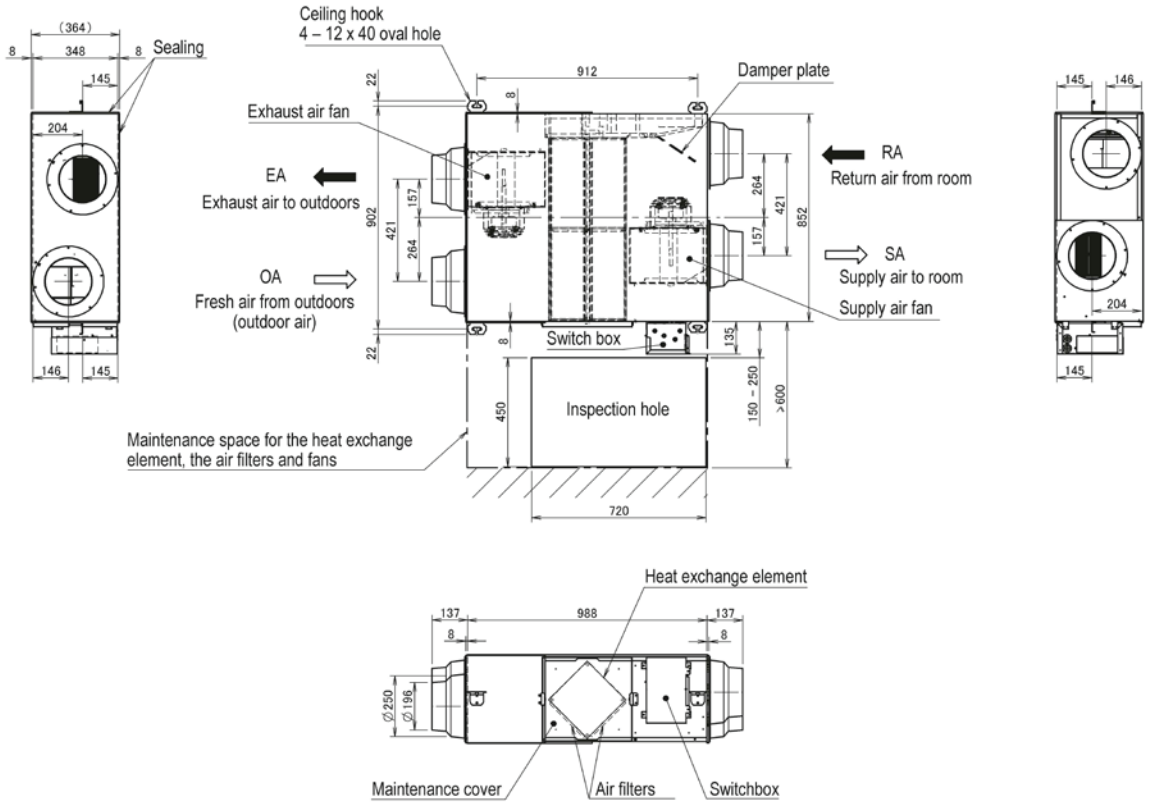


NOTES

1. Be sure to provide the inspection hole to inspectthe air filters, the exchange elements and fans.

3D081163

VAM650FC

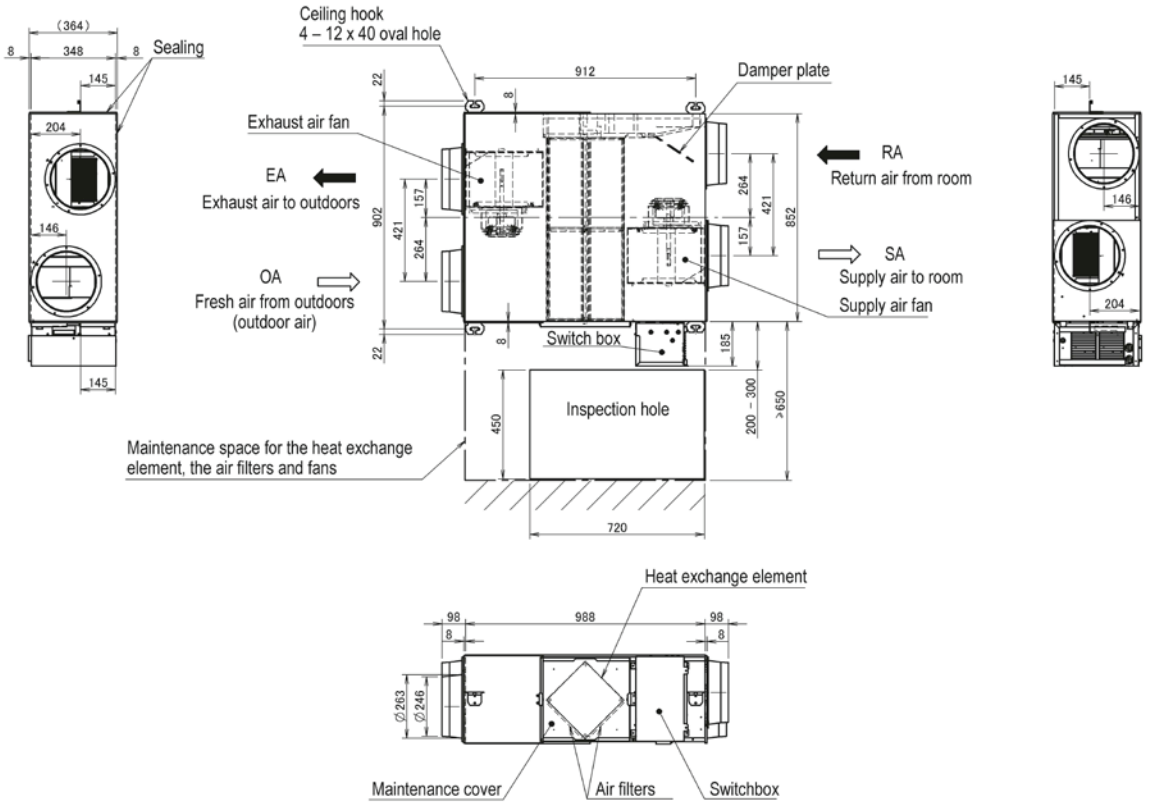


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081164

VAM800FC

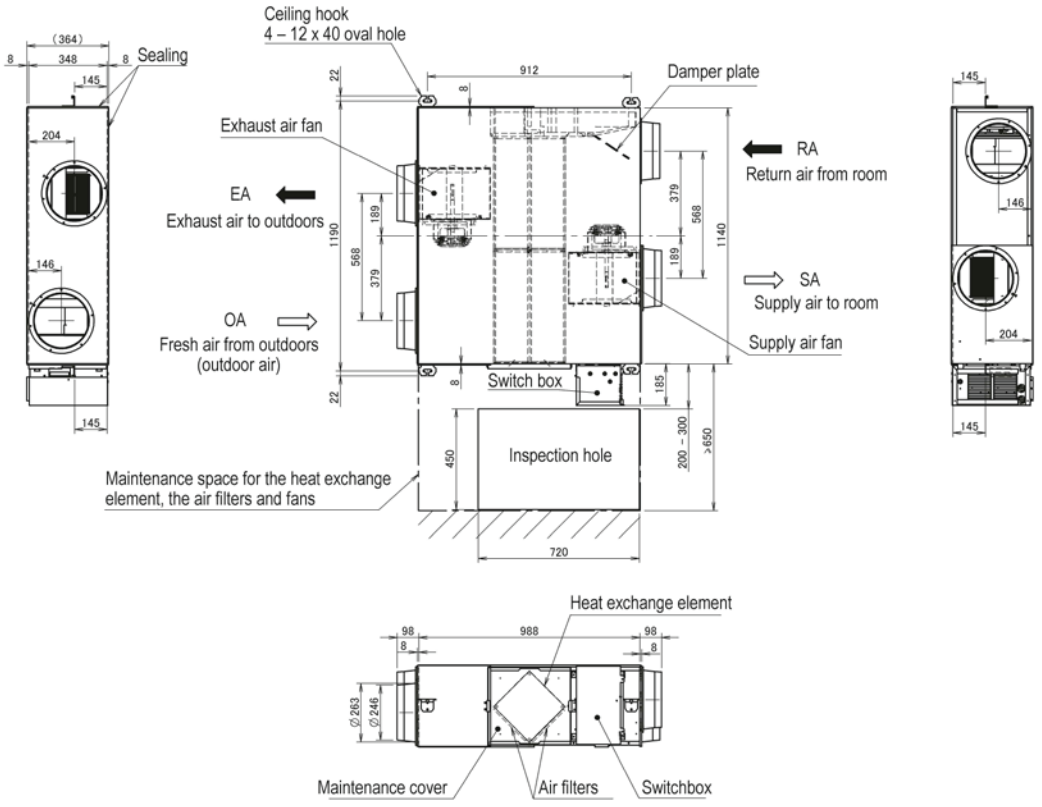


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081165

VAM1000FC

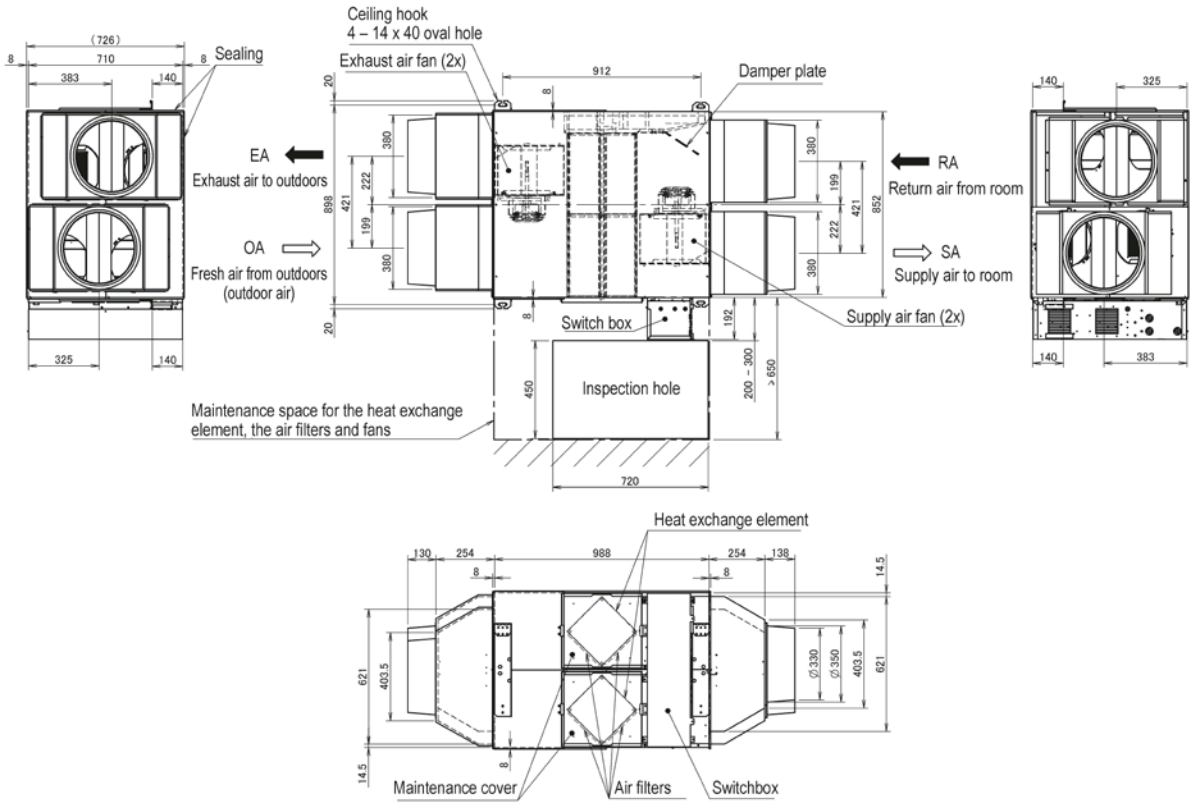


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081166

VAM1500FC

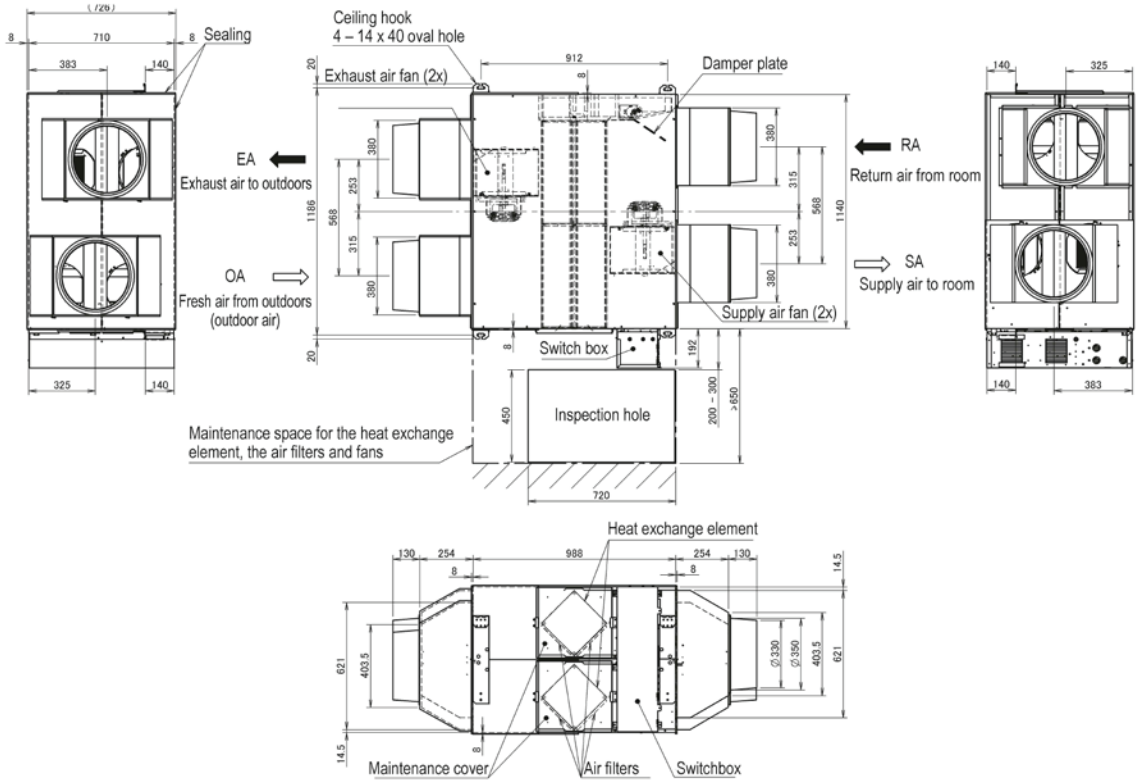


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081167

VAM2000FC

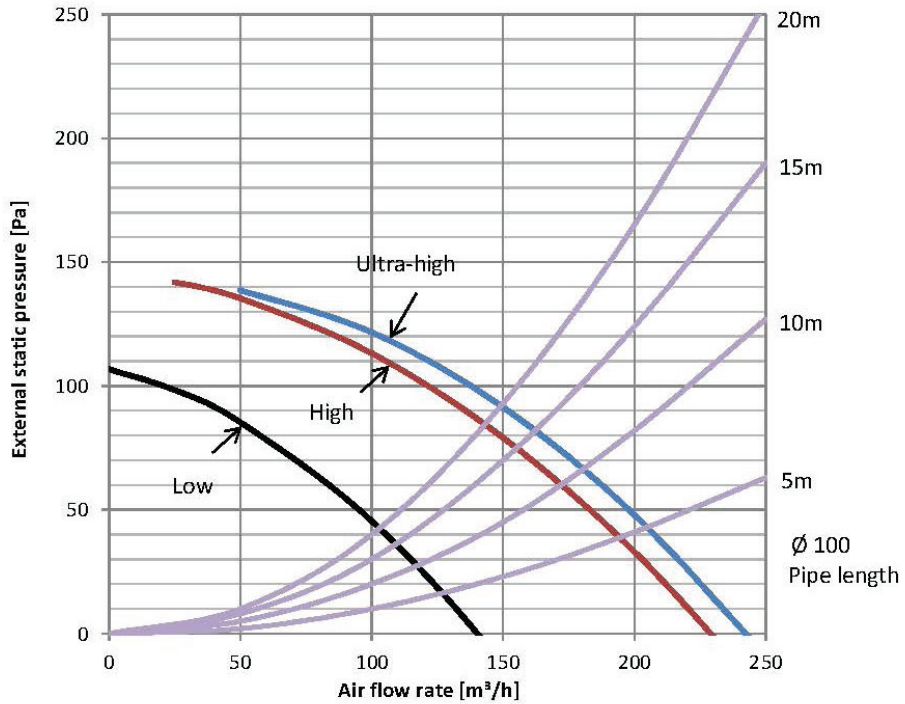


NOTES

1. Be sure to provide the inspection hole to inspect the air filters, the exchange elements and fans.

3D081168

VAM150FC

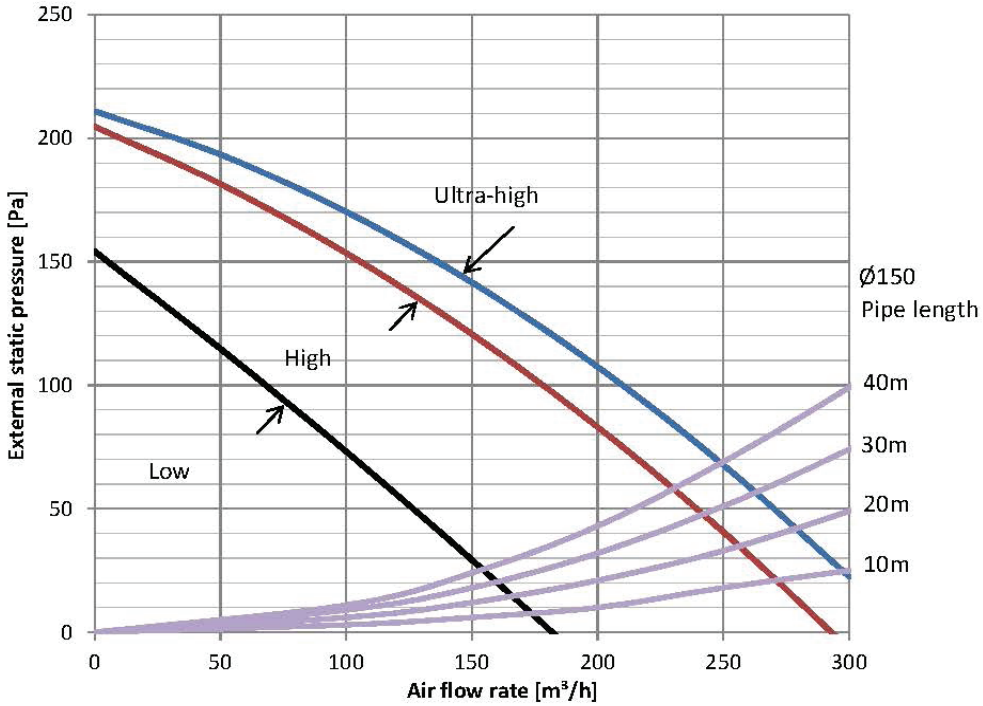


Notes

1. The fan speeds are valid for ·230·V, ·50·Hz power supply.

4D100379

VAM250FC

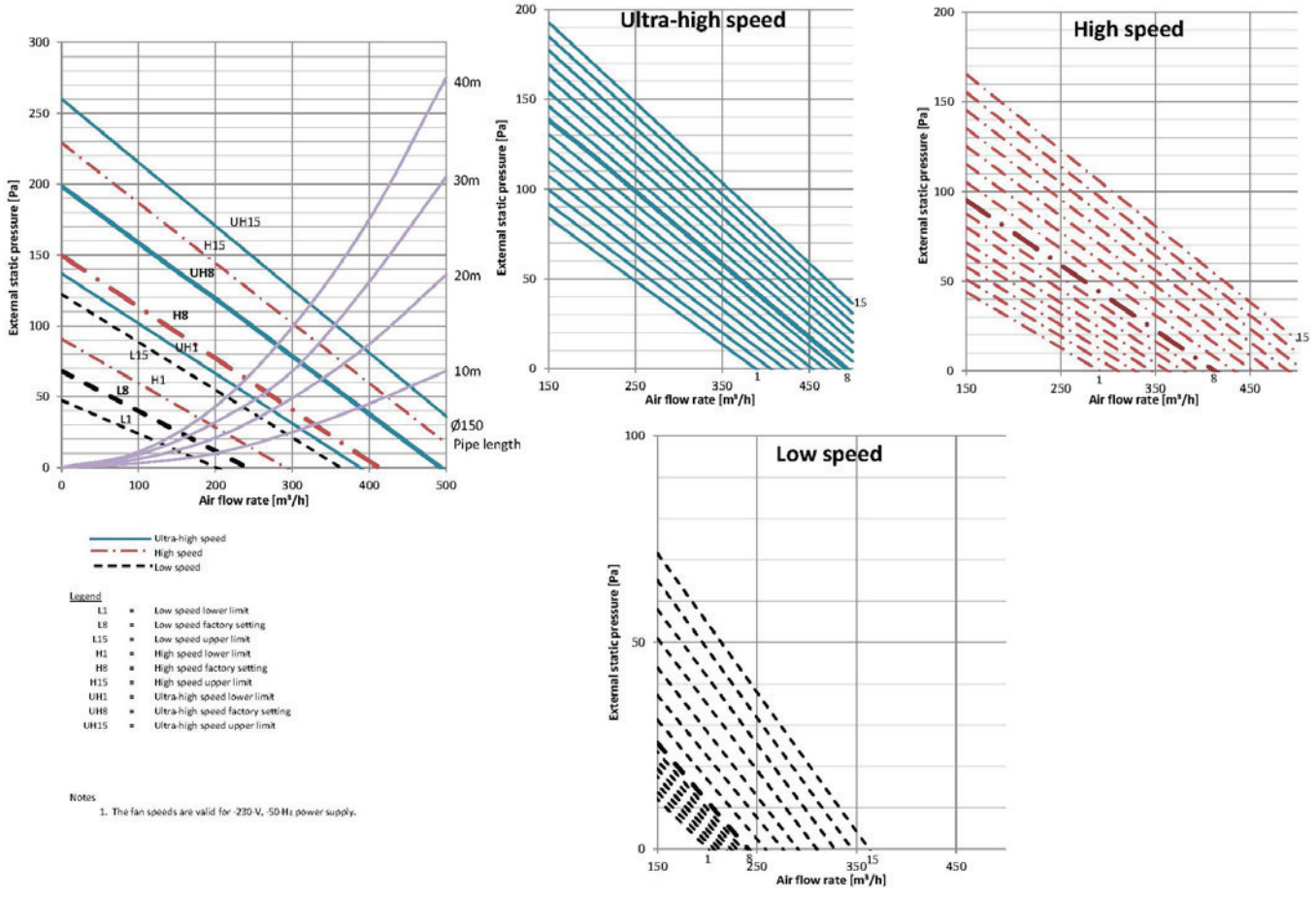


Notes

1. The fan speeds are valid for ·230·V, ·50·Hz power supply.

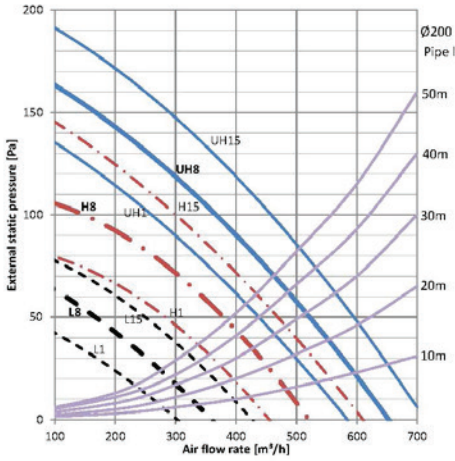
4D100380

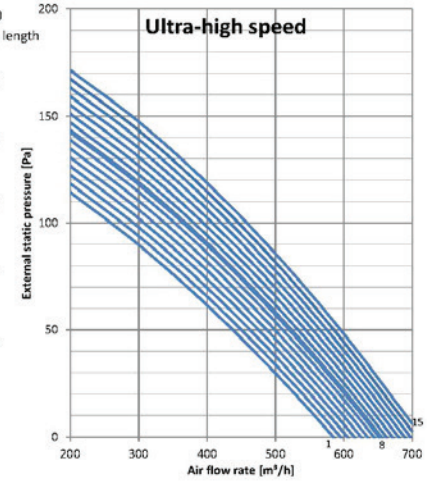
VAM350FC

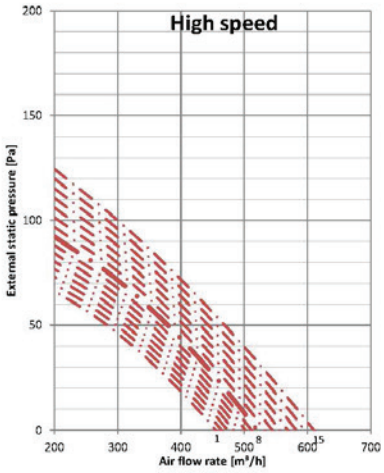


3D100381

VAM500FC







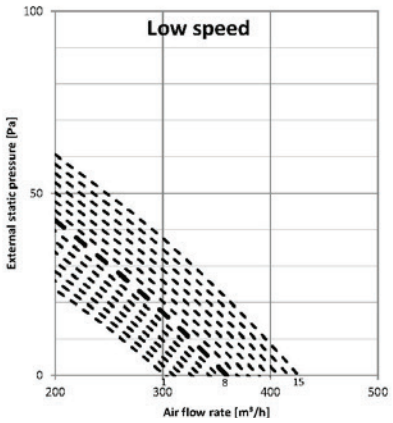
Ultra-high speed
High speed
Low speed

Legend

L1	=	Low speed lower limit
L8	=	Low speed factory setting
L15	=	Low speed upper limit
H1	=	High speed lower limit
H8	=	High speed factory setting
H15	=	High speed upper limit
UH1	=	Ultra-high speed lower limit
UH8	=	Ultra-high speed factory setting
UH15	=	Ultra-high speed upper limit

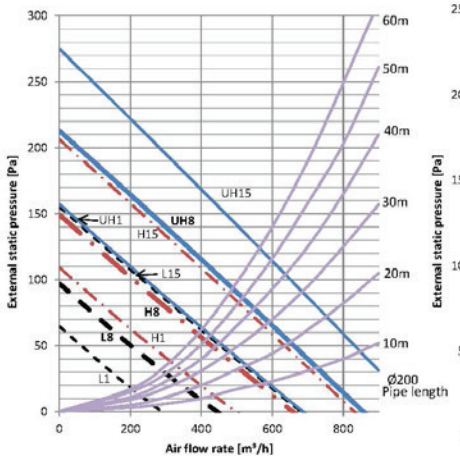
Notes

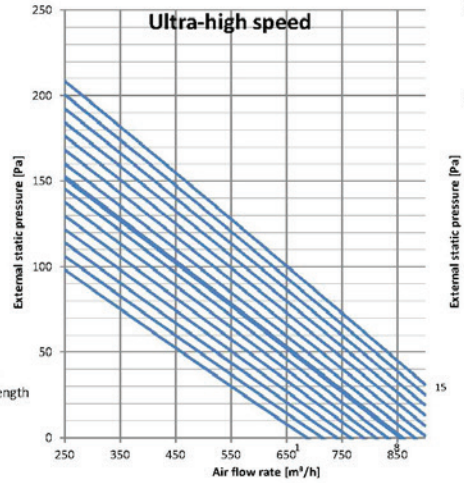
1. The fan speeds are valid for 230 V, 50 Hz power supply.

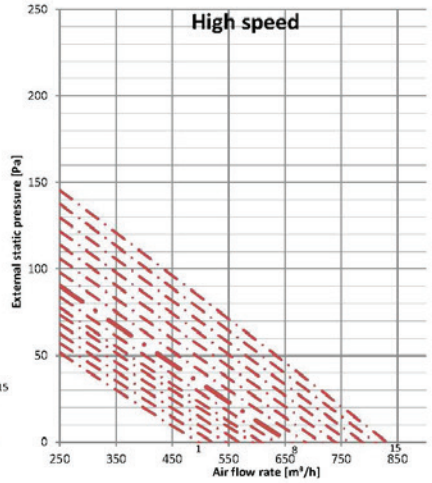


3D100382

VAM650FC







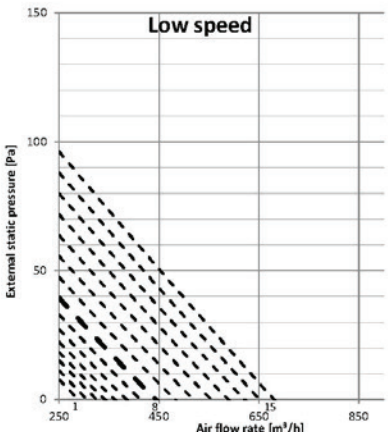
Ultra-high speed
High speed
Low speed

Legend

L1	=	Low speed lower limit
L8	=	Low speed factory setting
L15	=	Low speed upper limit
H1	=	High speed lower limit
H8	=	High speed factory setting
H15	=	High speed upper limit
UH1	=	Ultra-high speed lower limit
UH8	=	Ultra-high speed factory setting
UH15	=	Ultra-high speed upper limit

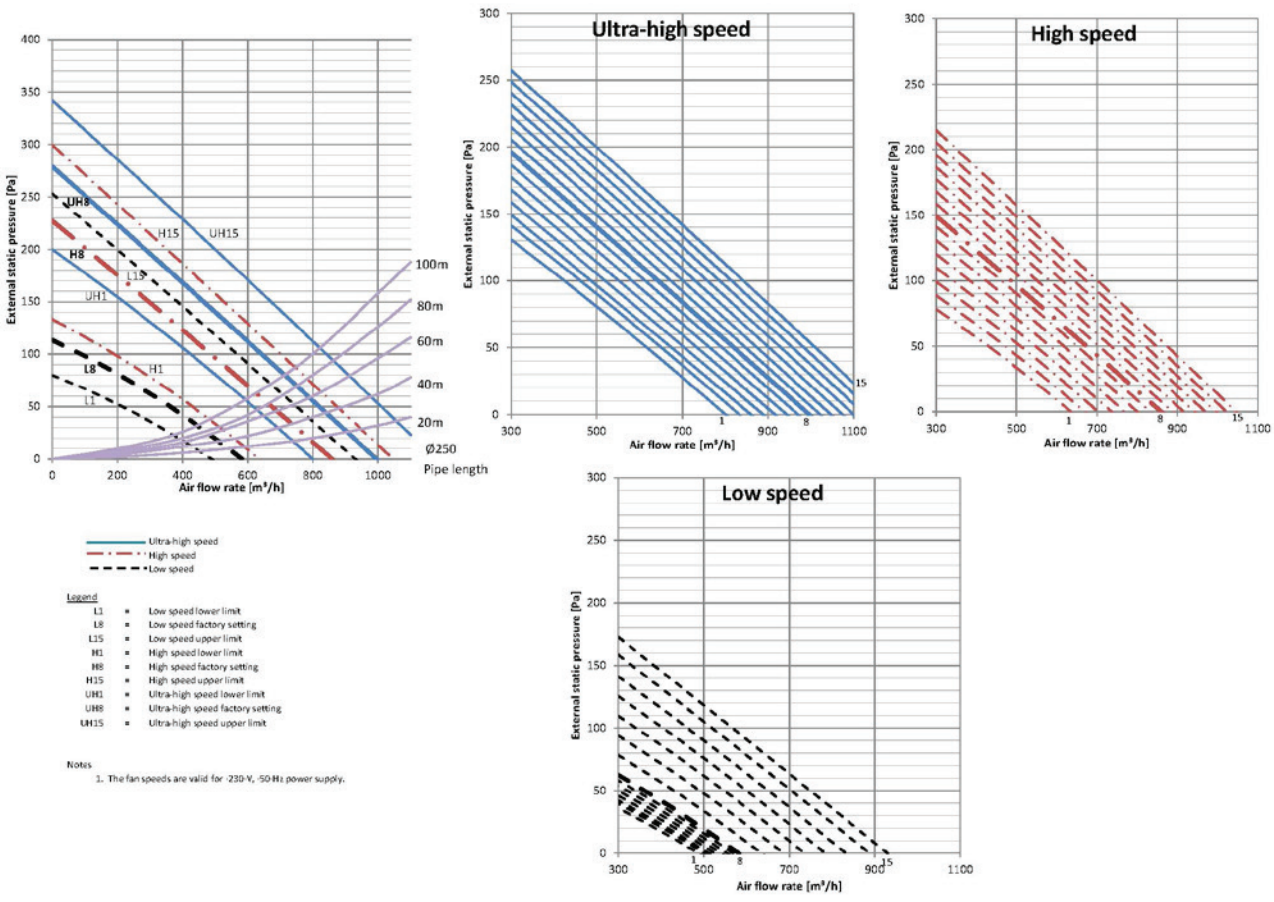
Notes

1. The fan speeds are valid for 230 V, 50 Hz power supply.

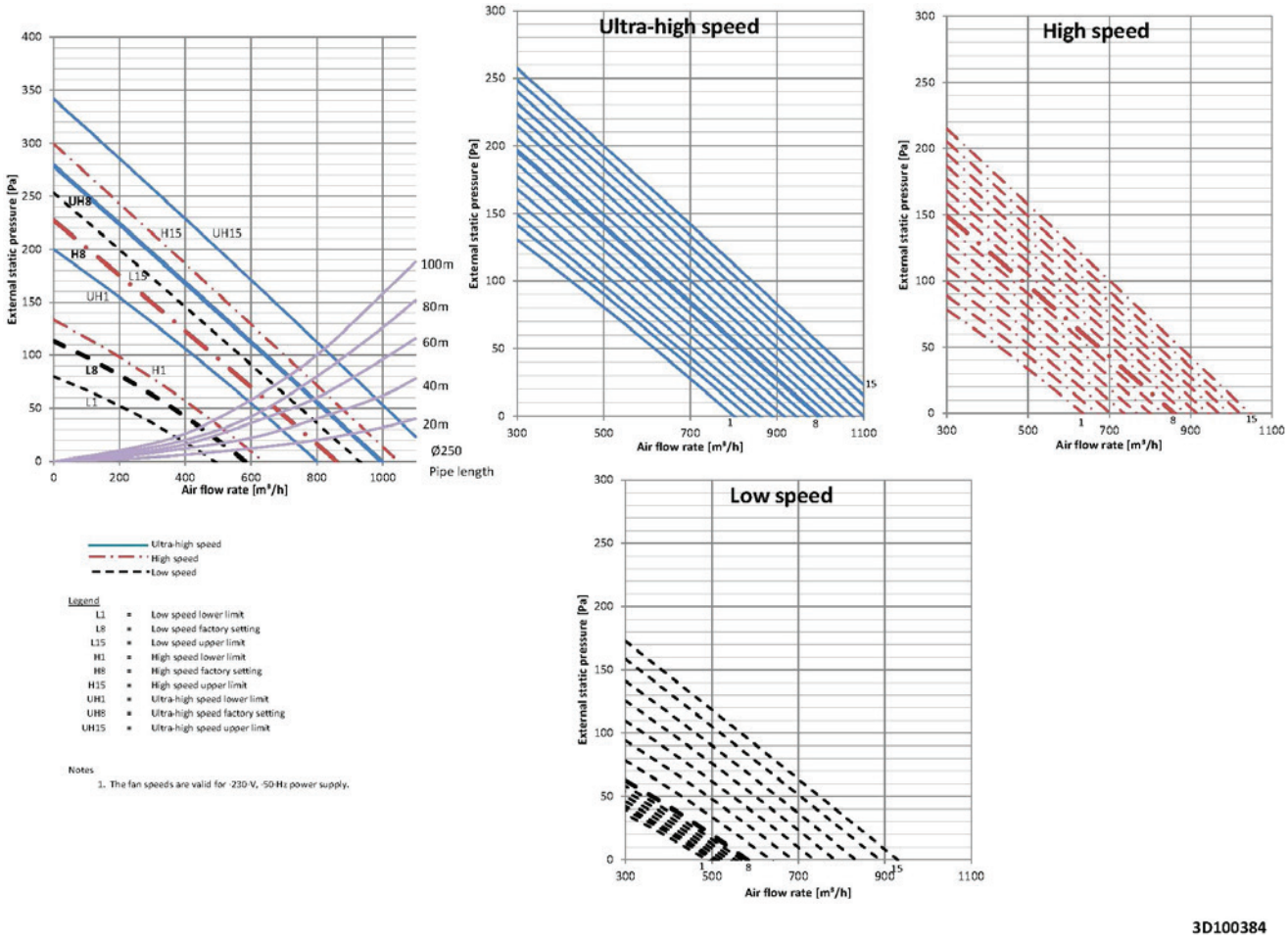


3D100383

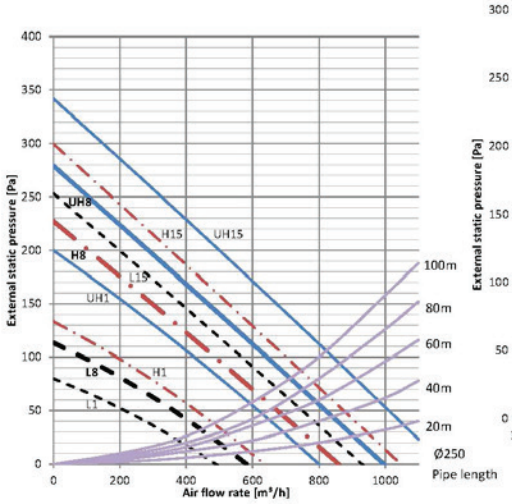
VAM800FC

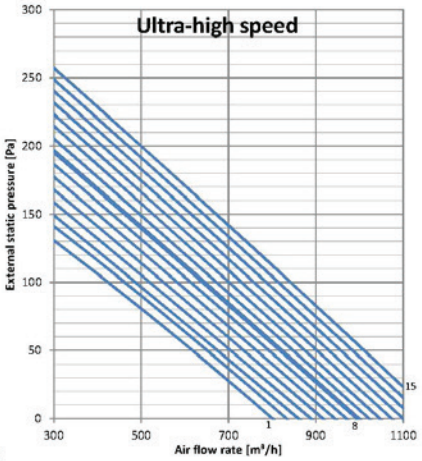


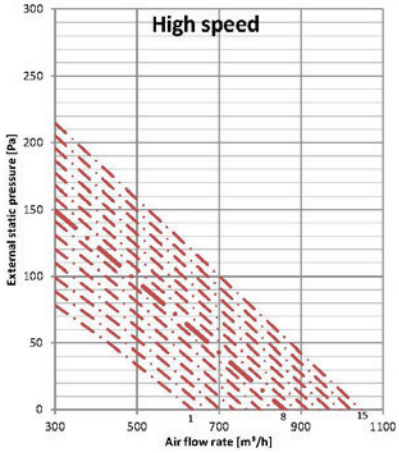
VAM1000FC

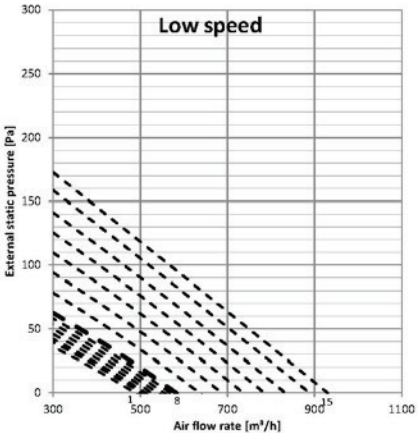


VAM1500FC









Ultra-high speed
High speed
Low speed

Legend

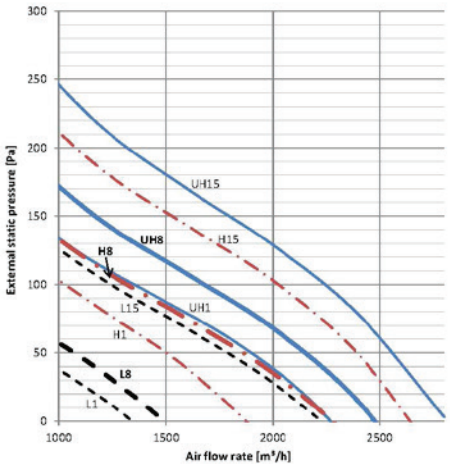
L1	=	Low speed lower limit
L8	=	Low speed factory setting
L15	=	Low speed upper limit
H1	=	High speed lower limit
H8	=	High speed factory setting
H15	=	High speed upper limit
UH1	=	Ultra-high speed lower limit
UH8	=	Ultra-high speed factory setting
UH15	=	Ultra-high speed upper limit

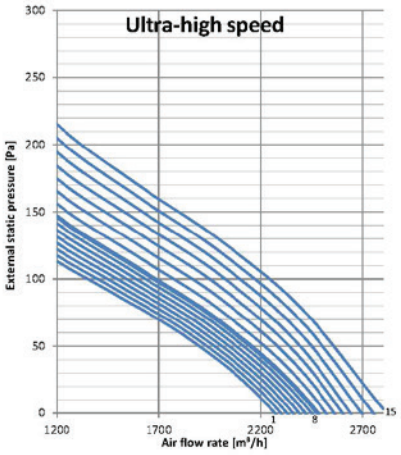
Notes

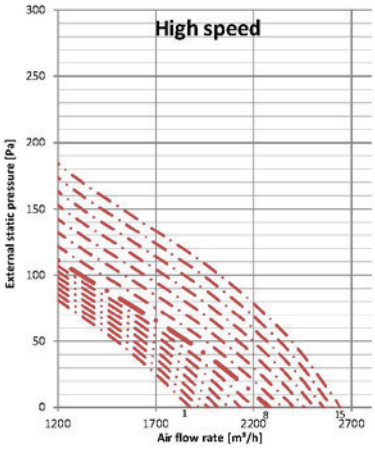
1. The fan speeds are valid for 230 V, 50 Hz power supply.

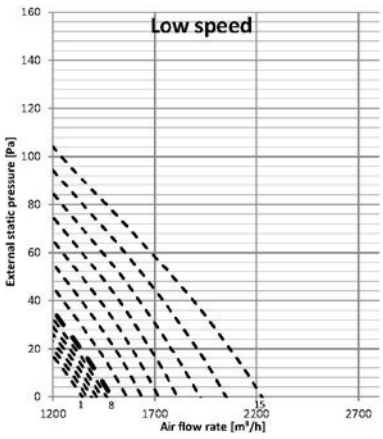
3D100384

VAM2000FC









Ultra-high speed
High speed
Low speed

Legend

L1	=	Low speed lower limit
L8	=	Low speed factory setting
L15	=	Low speed upper limit
H1	=	High speed lower limit
H8	=	High speed factory setting
H15	=	High speed upper limit
UH1	=	Ultra-high speed lower limit
UH8	=	Ultra-high speed factory setting
UH15	=	Ultra-high speed upper limit

Notes

1. The fan speeds are valid for 230 V, 50 Hz power supply.

3D100387

Air handling unit applications

Wide range of air flows

For applications that require big volumes of treated fresh air (large atriums, banquet halls, etc) air handling units represent the ideal solution. Daikin's wide range of air handling units treat air volumes from 500 m^3/h up to 144,000 m^3/h. The air handling unit can be designed to deliver whatever air flow you require, via the specific dimensions of flow section available at the installation.

Professional

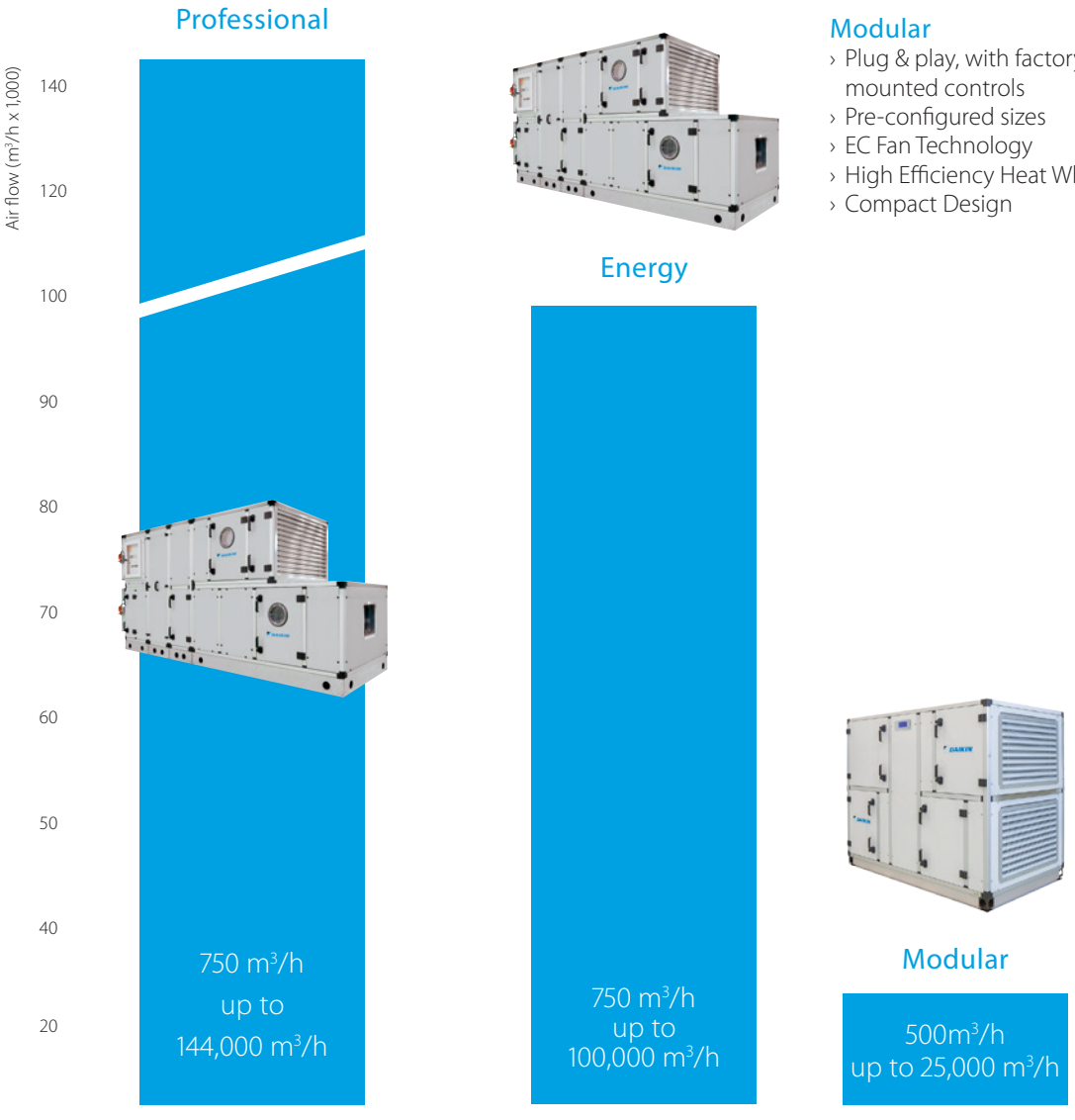
- Pre-configured sizes
- Tailored to the individual customer
- Modular construction

Energy

- High-end solution for optimised energy consumption
- High efficiency components
- Strong Return on Investment

Modular

- Plug & play, with factory mounted controls
- Pre-configured sizes
- EC Fan Technology
- High Efficiency Heat Wheel
- Compact Design



Daikin fresh air package - plug & play

The D-AHU Modular series provides a complete solution with unit control (EKEXV, EKEQ, DDC controller). It is factory mounted and configured and easy to plug & play with our VRV and ERQ condensing units. The simplest solution as you save time and only have one point of contact!

Return on investment

The air handling unit (AHU) is critical to an effective climate control system and the savings generated by our advanced designs and operating efficiencies guarantee a rapid return on the investment made. Our AHU Energy series has been designed to deliver exceptional performance thus driving down the energy consumed and so lowering energy bills. Taken over the expected 15-year life-span of the equipment, this will result in a substantial saving, especially in a time of ever increasing energy prices.

Pre-defined sizes

27 fixed sizes are available, optimised to reach the optimum combination between value for money and manufacturing standardisation. Daikin's section by section design means that units can be sized by 1cm increments and assembled on site, without welding, to suit the space constraints of the installation.

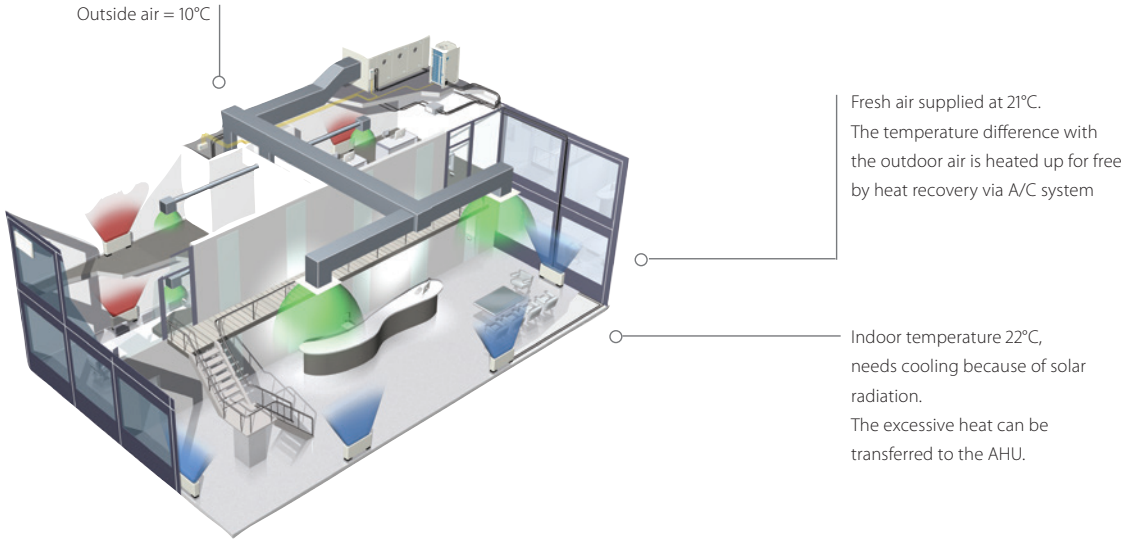
High efficiency components

All Daikin air handling units have been designed for optimum energy efficiency. Polyurethane or mineral wool panels guarantee excellent thermal insulation performance. And the widest range of filters are provided to meet even the most strict demands.

Why use VRV and ERQ condensing units for connection to air handling units?

High Efficiency

Daikin heat pumps are renowned for their high energy efficiency. Integrating the AHU with a heat recovery system is even more effective since an office system can frequently be in cooling mode while the outdoor air is too cold to be brought inside in an unconditioned state. In this case heat from the offices is merely transferred to heat up the cold incoming fresh air.



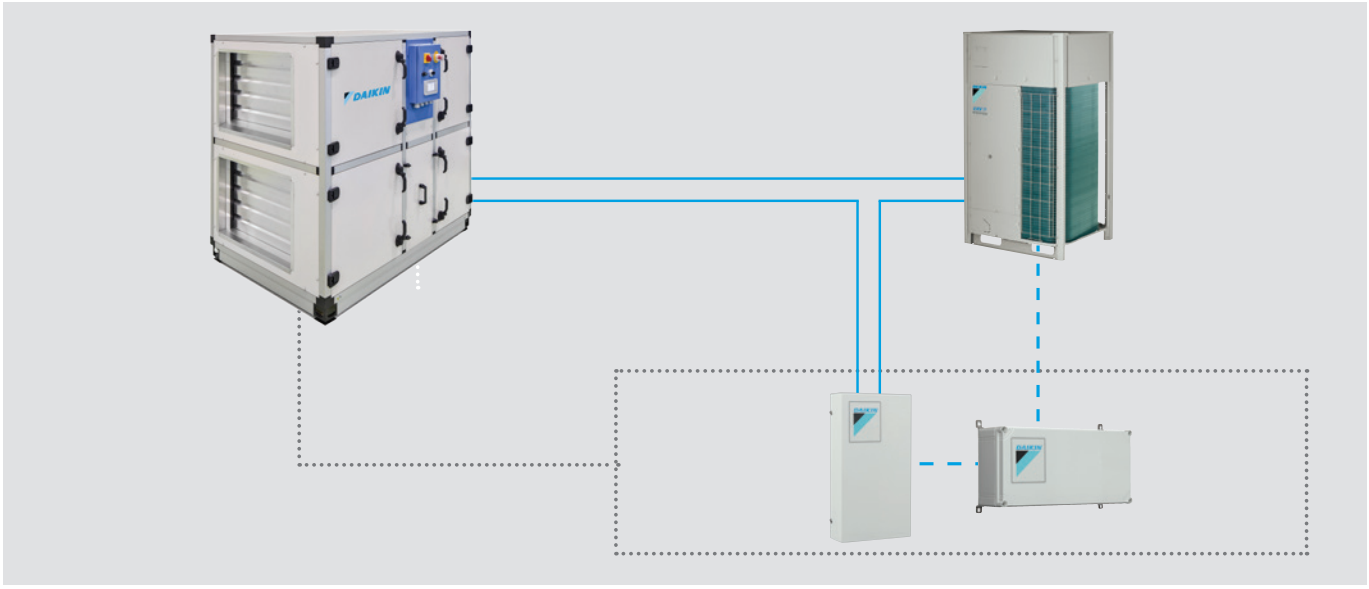
Fast response to changing loads resulting in high comfort levels

Daikin ERQ and VRV units respond rapidly to fluctuations in supply air temperature, resulting in a steady indoor temperature and resultant high comfort levels for the end user. The ultimate is the VRV range which improves comfort even more by offering continuous heating, also during defrost.

Easy Design and Installation

The system is easy to design and install since no additional water systems such as boilers, tanks and gas connections etc. are required. This also reduces both the total system investment and running cost.

Daikin Fresh air package



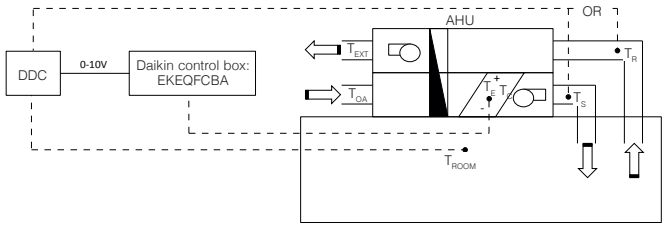
In order to maximise installation flexibility, 4 types of control systems are offered

W control: Off the shelf control of air temperature (supply air temperature, return air temperature, room temperature) via any DDC controller, easy to setup
X control: Precise control of air temperature (supply air temperature, return air temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)
Z control: Control of air temperature (return air temperature, room temperature) via Daikin control (no DDC controller needed)
Y control: Control of refrigerant (Te/Tc) temperature via Daikin control (no DDC controller needed)

1. W control (T_S/T_R/T_{ROOM} control):

Air temperature control via DDC controller

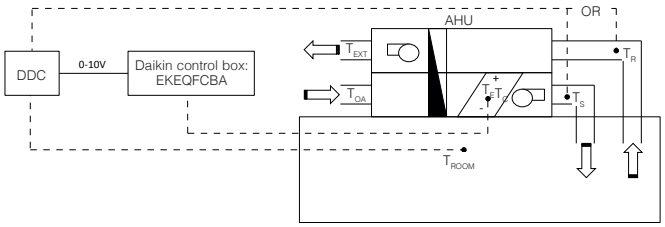
Room temperature is controlled as a function of the air handling unit return air or supply air (customer selection). The DDC controller is translating the temperature difference between set point and return air temperature (or supply air temperature or room temperature) into a proportional 0-10V signal which is transferred to the Daikin control box (EKEQFCBA). This voltage modulates the capacity requirements of the outdoor unit.



2. X control (T_S/T_R/T_{ROOM} control):

Precise air temperature control via DDC controller

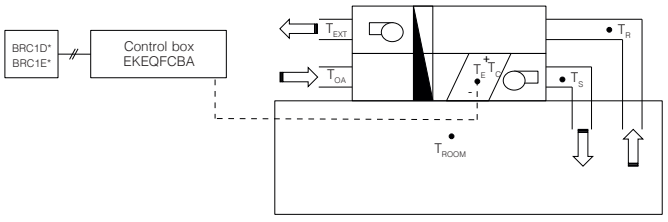
Room temperature is controlled as a function of the air handling unit return air or supply air (customer selection). The DDC controller is translating the temperature difference between set point and return air temperature (or supply air temperature or room temperature) into a reference voltage (0-10V) which is transferred to the Daikin control box (EKEQFCBA). This reference voltage will be used as the main input value for the compressor frequency control.



3. Y control (T_E/T_C control):

By fixed evaporating /condensing temperature

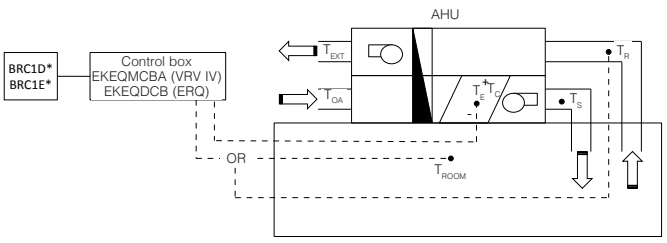
A fixed target evaporating or condensing temperature can be set by the customer. In this case, room temperature is only indirectly controlled. A Daikin wired remote control (BRC1D52 or BRC1E53A/B/C - optional) have to be connected for initial set-up but not required for operation.



4. Z control (T_R/T_{ROOM} control):

Control your AHU just like a VRV indoor unit with 100% fresh air

Allows the possibility to control the AHU just like a VRV indoor unit. Meaning temperature control will be focused on return air temperature from the room into the AHU. Requires BRC1D52 or BRC1E53A/B/C for operation. This the only control that allows the combination of other indoor units to the AHU at the same time.



T_S = Supply air temperature
T_R = Return air temperature
T_{OA} = Outdoor air temperature
T_{ROOM} = Room air temperature
T_{EXT} = Extraction air temperature
T_E = Evaporating temperature
T_C = Condensing temperature

	Option kit	Features
Possibility W	EKEQFCBA	Off-the-shelf DDC controller that requires no pre-configuration
Possibility X		Pre-configured DDC controller required
Possibility Y		Using fixed evaporating temperature, no set point can be set using remote control
Possibility Z	EKEQDCB EKFQMCBA*	Using Daikin infrared remote control BRC1D52 or BRC1E52A/B Temperature control using return air temperature or room temperature (via remote sensor)

* EKEQMCB (for 'multi' application)

ERQ - for smaller capacities (from 100 to 250 class)

ERQ-AW1

A basic fresh air solution for pair application

› Inverter controlled units
› Heat pump
› R-410A
› Wide range of expansion valve kits available
› Perfect for the Daikin Modular air handling unit

The "Daikin Fresh Air Package" provides a complete Plug & Play Solution including AHU, ERQ or VRV Condensing Unit and all unit control (EKEQ, EKEX, DDC controller) factory mounted and configured. The easiest solution with only one point of contact.

Ventilation			ERQ	100AV1	125AV1	140AV1
Capacity range			HP	4	5	6
Cooling capacity	Nom.		kW	11.2	14.0	15.5
Heating capacity	Nom.		kW	12.5	16.0	18.0
Power input	Cooling	Nom.	kW	2.81	3.51	4.53
	Heating	Nom.	kW	2.74	3.86	4.57
EER				3.99		3.42
COP				4.56	4.15	3.94
Dimensions	Unit		mm	1,345x900x320		
Weight	Unit		kg	120		
Fan-Air flow rate	Cooling	Nom.	m^3/min	106		
	Heating	Nom.	m^3/min	102	105	
Sound power level	Cooling	Nom.	dBA	66	67	69
Sound pressure level	Cooling	Nom.	dBA	50	51	53
	Heating	Nom.	dBA	52	53	55
Operation range	Cooling	Min./Max.	°CDB	-5/46		
	Heating	Min./Max.	°CWB	-20/15.5		
	On coil	Heating Min.	°CDB	10		
	temperature	Cooling Max.	°CDB	35		
Refrigerant	Type / GWP			R-410A / 2.087,5		
	Charge		kg/ TCO_2Eq	4.0/8.4		
Piping connections	Liquid	OD	mm	9.52		
	Gas	OD	mm	15.9		19.1
	Drain	OD	mm	26x3		
Power supply	Phase/Frequency/Voltage		Hz/V	1N~/50/220-240		
Current	Maximum fuse amps (MFA)		A	32.0		

Ventilation			ERQ	125AW1	200AW1	250AW1
Capacity range			HP	5	8	10
Cooling capacity	Nom.		kW	14.0	22.4	28.0
Heating capacity	Nom.		kW	16.0	25.0	31.5
Power input	Cooling	Nom.	kW	3.52	5.22	7.42
	Heating	Nom.	kW	4.00	5.56	7.70
EER				3.98	4.29	3.77
COP				4.00	4.50	4.09
Dimensions	Unit		mm	1,680x635x765	1,680x930x765	
Weight	Unit		kg	159	187	240
Fan-Air flow rate	Cooling	Nom.	m^3/min	95	171	185
	Heating	Nom.	m^3/min	95	171	185
Sound power level	Nom.		dBA	72	78	
Sound pressure level	Nom.		dBA	54	57	58
Operation range	Cooling	Min./Max.	°CDB	-5/43		
	Heating	Min./Max.	°CWB	-20/15		
	On coil	Heating Min.	°CDB	10		
	temperature	Cooling Max.	°CDB	35		
Refrigerant	Type / GWP			R-410A / 2.087,5		
	Charge		kg/ TCO_2Eq	6.2/12.9	7.7/16.1	8.4/17.5
Piping connections	Liquid	OD	mm	9.52		
	Gas	OD	mm	15.9	19.1	22.2
Power supply	Phase/Frequency/Voltage		Hz/V	3N~/50/400		
Current	Maximum fuse amps (MFA)		A	16	25	

Integration of ERQ and VRV in third party air handling units

a wide range of expansion valve kits and control boxes

Combination table

		Control box			Expansion valve kit										Mixed connection with VRV indoor units
		EKEQDCB	EKEQFCBA	EKEQMCBA	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	EKEXV400	EKEXV500	
		Z control	W,X,Y control	Z control	-	-	-	-	-	-	-	-	-	-	
1-phase	ERQ100	P	P	-	-	P	P	P	P	-	-	-	-	-	Not possible
	ERQ125	P	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ140	P	P	-	-	-	P	P	P	P	-	-	-	-	
3-phase	ERQ125	P	P	-	-	P	P	P	P	P	-	-	-	-	
	ERQ200	P	P	-	-	-	-	P	P	P	P	P	-	-	
	ERQ250	P	P	-	-	-	-	-	P	P	P	P	-	-	
VRV III		-	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	Mandatory
VRV IV H/P / VRV IV W-series VRV IV S-series		-	P (1 -> 3)	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	Possible (not mandatory)
VRV IV H/R VRV IV i-series		-	-	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	Mandatory

- P (pair application): combination depends on the capacity of the air handling unit
- n1 (multi application) - Combination of AHUs and VRV DX indoors (mandatory). To determine the exact quantity please refer to the engineering data book.
- n2 (multi application) - Combination of AHUs and VRV DX indoors (not mandatory). To determine the exact quantity please refer to the engineering data book.data book
- Control box EKEQFA can be connected to some types of VRV IV outdoor units (with a maximum of 3 boxes per unit). Do not combine EKEQFA control boxes with VRV DX indoor units, RA indoor units or hydroboxes

Capacity table

Cooling

EKEXV Class	Allowed heat exchanger capacity (kW)		
	Minimum	Standard	Maximum
50	5.0	5.6	6.2
63	6.3	7.1	7.8
80	7.9	9.0	9.9
100	10.0	11.2	12.3
125	12.4	14.0	15.4
140	15.5	16.0	17.6
200	17.7	22.4	24.6
250	24.7	28.0	30.8
400	35.4	45.0	49.5
500	49.6	56.0	61.6

Saturated evaporating temperature: 6°C, SH: 5K
Air temperature: 27°C DB / 19°C WB

Heating

EKEXV Class	Allowed heat exchanger capacity (kW)		
	Minimum	Standard	Maximum
50	5.6	6.3	7.0
63	7.1	8.0	8.8
80	8.9	10.0	11.1
100	11.2	12.5	13.8
125	13.9	16.0	17.3
140	17.4	18.0	19.8
200	19.9	25.0	27.7
250	27.8	31.5	34.7
400	39.8	50.0	55.0
500	55.1	63.0	69.3

Saturated condensing temperature: 46°C, SC: 3K
Air temperature: 20°C DB

EKEXV - Expansion valve kit for air handling applications

Ventilation			EKEXV	50	63	80	100	125	140	200	250	400	500
Dimensions	Unit		mm	401x215x78									
Weight	Unit		kg	2.9									
Sound pressure level	Nom.		dBA	45									
Operation range	On coil temperature	Heating Min.	°CDB	10 (1)									
		Cooling Max.	°CDB	35 (2)									
Refrigerant	Type / GWP			R-410A / 2.087,5									
Piping connections	Liquid	OD	mm	6.35	9.52							12.7	15.9

(1) The temperature of the air entering the coil in heating mode can be reduced to -5°CDB. Contact your local dealer for more information. (2) 45% Relative humidity.

EKEQ - Control box for air handling applications

Ventilation		EKEQ	FCBA	DCB	MCBA
Application			See note	Pair	Multi
Outdoor unit			ERQ / VRV	ERQ	VRV
Dimensions	Unit	mm	132x400x200		
Weight	Unit	kg	3.9	3.6	
Power supply	Phase/Frequency/Voltage	Hz/V	1~/50/230		

The combination of EKEQFCBA and ERQ is in pair application. The EKEQFCBA can be connected to some type of VRV IV outdoor units with a maximum of 3 control boxes. The combination with DX indoor units, hydroboxes, RA outdoor units, ... is not allowed. Refer to the combination table drawing of the outdoor unit for details.

ONLINE CONTROLLER

WIRED REMOTE CONTROL
BRC1E52A

INTELLIGENT TOUCH MANAGER
DCM601A51

INFRARED REMOTE CONTROLLER

Control systems

Control Systems

Options & Accessories 213

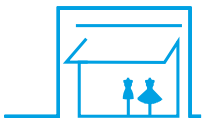
Find out more about our control systems online:
www.daikin.co.uk/commercial/needs/controls

Requirement tables per application

Daikin offers various control solution adapted to the requirements of even the most demanding commercial application.

› Basic control solutions for those customers with few requirements and limited budget
› Integrated control solutions for those customers that would like to integrate Daikin units into their existing BMS system
› Advanced control solutions for those customers who expect Daikin to deliver a mini BMS solution, including advance energy management

Shop



NEW

	Unit control		Integrating control			Advanced control	
	BRC1E52A/B BRC1E53A/B/C	RTD-20	RTD-Net	KLIC-DI	EKMBDXA	DCC601A51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 unit for 32 indoor unit(s)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	●	●	●
Limited control possibilities for shop staff	●	●	●	●	●	●	●
Create zones within the shop		●				●	●
Interlock with eg. Alarm, PIR sensor		●				●	●
Integrate Daikin units into existing BMS via Modbus			●		●		
Integrate Daikin units into existing BMS via KNX				●			
Integrate Daikin units into existing BMS via HTTP							●
Monitor energy consumption						● (2)	●
Advanced energy management						● (2)	●
Allows free cooling						●	●
Integrate Daikin products cross pillars into Daikin BMS							●
Integrate third party products into Daikin BMS						●	●
Online control						● (2)	●
Manage multiple sites						● (2)	

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via cloud control

Hotel

	Unit control	Integrating control		Advanced control	
	BRC2/3E52C	RTD-Net	KLIC-DI	DCS601C51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 iTC for 64 indoor unit(s) (groups)	1 iTM for 64 indoor unit(s) (groups) (1)
Hotel guest can control & monitor basic functionalities from his room	●	●	●	●	●
Limited control possibilities for hotel guests	●	●	●	●	●
Interlock with window contact	● (2)				●
Interlock with key-card	● (2)				●
Integrate Daikin units into existing BMS via Modbus		●			
Integrate Daikin units into existing BMS via KNX			●		
Integrate Daikin units into existing BMS via HTTP				●	●
Monitor energy consumption					●
Advanced energy management					●
Integrate Daikin products cross pillars into Daikin BMS					●
Integrate third party products into Daikin BMS					●
Online control					●

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Via BRP7A51 adapter

Office

	Unit control	Integrating control			Advanced control		
	BRC1E52A/B **BRC1E53A/B/C**	EKMBDXA	DMS504B51	DMS502A51 / DAM412B51	DCS302C51 / DST301B51	DCS601C51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 gateway for 64 indoor unit(s) (groups)	1 gateway for 128 indoor unit(s) (groups), 20 outdoors (2)	1 R/C for max. 64 groups, 128 indoor units, 10 outdoors	1 iTC for 64 indoor unit(s) (groups)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●	●	● (3)	●	●
Centralised control for management		●	●	●	●	●	●
Local control for office workers	●	●	●	●	●	●	●
Limited control possibilities for office workers	●				●	●	●
Integrate Daikin units into existing BMS via Modbus		●					
Integrate Daikin units into existing BMS via HTTP						●	●
Integrate Daikin units into existing BMS via LonTalk			●				
Integrate Daikin units into existing BMS via BACnet				●			
Energy consumption read out	●						
Monitor energy consumption				●			●
Advanced energy management							●
Integrate Daikin products cross pillars into Daikin BMS							●
Integrate third party products into Daikin BMS							●
Online control							●

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems)
(2) : extension needed to go to 256 indoor unit(s) (groups), 40 outdoors
(3) : ON/OFF only

Infrastructure cooling

NEW
launch Spring 2016

	Unit	Integrating	Advanced
	BRC1E53A/B/C	RTD-10	DCM601A51
	1 remote controller for 1 indoor unit (group) (2)	1 gateway for 1 indoor unit (group) Up to 8 gateways can be linked together	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●
Back-up operation	●	●	●
Duty rotation	●	●	●
Limited control possibilities in the infrastructure cooling room	●	●	●
If room temperature above max., then show alarm & start standby unit.	●	●	●
If an error occurs, an alarm will be shown.	●	●	●

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems) (2) Infrastructure cooling functions only compatible with indoor units connected to Seasonal Smart outdoor units.

Market leading

controls for 2016

- ☑ Intuitive & user-friendly interface
- ☑ Integration across Daikin product categories
- ☑ Cloud control
- ☑ Smart energy management
- ☑ Integration of Daikin and third party products

touch intelligent Manager

Mini BMS for medium to large commercial buildings

› Price competitive mini BMS
› Integration across Daikin product categories
› Integration of third party equipment via WAGO or BACnet/IP
› Connect up to 512 indoor units groups

→ more information on page 207

DCC601A51

Advanced centralised controller with Cloud connection

› Simply control your entire building centrally
› Total solution concept (integration of Split, Sky Air, VRV, ventilation, air curtains and hot water)
› Stylish optional screen fits any interior
› Cloud connection offers additional services such as online control, energy monitoring, comparison of energy consumption of multiple sites
› Connect up to 32 indoor units

→ more information on 'Advanced centralised controller with Cloud connection' on page 205

Find out more on www.daikin.co.uk

BRC1E52A/B

User friendly remote control with contemporary design

Graphical display of indicative electricity consumption (Function available in combination with FBQ-D, FCQG and FCGHQ)

A series of energy saving functions that can be individually selected

› Temperature range limit
› Setback function
› Presence & floor sensor connection (available on round flow and fully flat cassette)
› kWh indication
› Set temperature auto reset
› Off timer

Temperature range limit avoids excessive heating or cooling

Save energy by constraining the lower temperature limit in cooling and upper temperature limit in heating mode.

note : Also available in auto cooling/heating change over mode.

kWh indication keeps track of your consumption

The kWh indication shows an indicative electricity consumption of the last day/month/year. [1]

1 for Sky Air FBQ-D, FCQG and FCQHG pair combinations only

Other functions

› Up to 3 independent schedules can be set, so the user can easily change the schedule himself throughout the year (e.g. Summer, winter, mid-season)
› Possibility to individually restrict menu functions Easy to use: all main functions directly accessible
› Easy setup: clear graphical user interface for advanced menu settings
› Real time clock with auto update to daylight saving time
› Permanent storage of settings and backup power for clock for at least 48 hours
› Supports multiple languages:
English, German, Dutch, Spanish, Italian, Portuguese, French, Greek, Russian, Turkish, Polish (BRC1E52A)
English, German, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian and Albanian (BRC1E52B)

BRC1E53A/B/C **COMING SPRING 2016**

User friendly remote control incl. infrastructure cooling functions

› Replaces BRC1E52A/B in Spring 2016 and includes following additional functionalities:
  • Duty rotation and back-up for infrastructure cooling
  • Remote control save mode : screen turns off when no person is changing mode or adjusting settings
  • Demand control: decreases the power consumption to 70 or 40 % when other large appliances need to be switched on
  • Selection of quiet mode function for the outdoor unit
› Choice between symbol or text display
› Supports multiple languages:
BRC1E53A: English, German, French, Dutch, Spanish, Italian, Portuguese
BRC1E53B: English, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian
BRC1E53C: English, Greek, Russian, Turkish, Hungarian, Slovak, Albanian

BRC2E52A / BRC3E52A

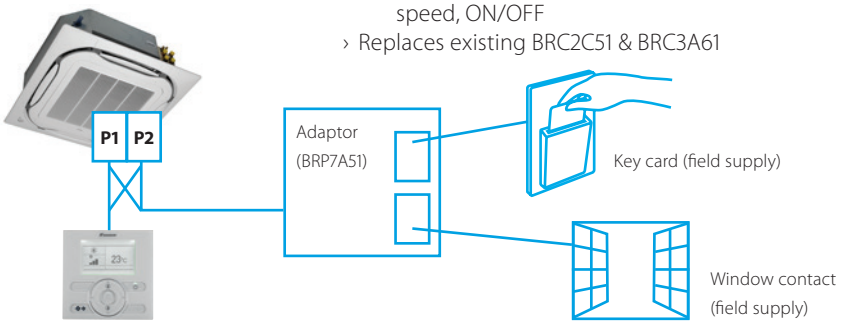
Simplified wired remote control developed for hotel applications

BRC2E52A
Heat recovery type

BRC3E52A
Heat pump type

› Symbol driven interface for intuitive control
› Functions restricted to basic customer needs
› Contemporary design
› Energy saving thanks key card, window contact integration and set point limitation (BRP7A51)
› Flexible setback function ensures room temperature remains within comfortable limits to ensure guest comfort
› Flat backpanel for easy installation
› Easy commissioning: intuitive interface for advanced menu settings
› 2 versions available:
  • Heat pump type: temperature, fan speed, ON/OFF
  • Heat recovery type: temperature, mode, fan speed, ON/OFF
› Replaces existing BRC2C51 & BRC3A61

Key card and window contact integration



BRC1D52

Wired remote control

BRC1D52

› Schedule timer:
Five day actions can be set as follows:
  - set point: unit is switched ON and normal operation is maintained
  - OFF: unit is switched OFF1
  - limits: unit is switched ON and min./max. control (cf. limit operation for more details)
› Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF
› User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
› Immediate display of fault location and condition
› Reduction of maintenance time and costs

Display

› Operating mode
› Heat Recovery Ventilation (HRV) in operation
› Cool / heat changeover control
› Centralised control indication
› Group control indication
› Set temperature
› Air flow direction
› Programmed time
› Inspection test / operation
› Fan speed
› Clean air filter
› Defrost / hot start
› Malfunction

ARC4*/BRC4*/BRC7*

Infrared remote control

ARC466A1

BRC4*/BRC7*

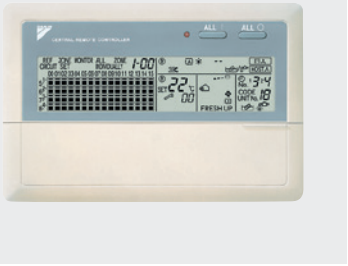
Operation buttons: ON / OFF, timer mode start / stop, timer mode on / off, programme time, temperature setting, air flow direction (1), operating mode, fan speed control, filter sign reset (2), inspection (2)/ test indication (2)
Display: Operating mode, battery change, set temperature, air flow direction (1), programmed time, fan speed, inspection / test operation (2)

1. Not applicable for FXDQ, FXSQ, FXNQ, FBDQ, FDXS, FBQ
2. For FX** units only
3. For all features of the remote control, refer to the operation manual

Centralised control of the Sky Air and VRV system can be achieved via 3 user friendly compact remote controllers. These controls may be used independently or in combination with 1 group = several (up to 16) indoor units in combination and 1 zone = several groups in combination.
A centralised remote control is ideal for use in tenanted commercial buildings subject to random occupation, enabling indoor units to be classified in groups per tenant (zoning).
The schedule timer programmes the schedule and operation conditions for each tenant and the control can easily be reset according to varying requirements.

DCS302C51

Centralised remote control



Providing individual control of 64 groups (zones) of indoor units.

› a maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled
› a maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations
› zone control
› group control
› malfunction code display
› maximum wiring length of 1,000m (total: 2,000m)
› air flow direction and air flow rate of HRV can be controlled
› expanded timer function

DST301B51

Schedule timer

Enabling 64 groups to be programmed.

› a maximum of 128 indoor units can be controlled
› 8 types of weekly schedule
› a maximum of 48 hours back up power supply
› a maximum wiring length of 1,000m (total: 2,000m)

DCS301B51

Unified ON/OFF control

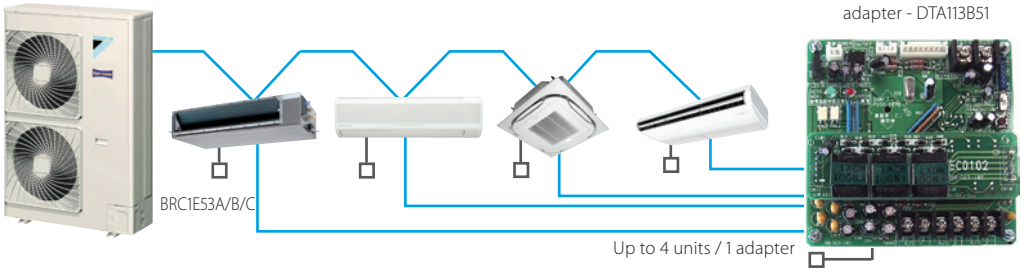
Providing simultaneous and individual control of 16 groups of indoor units.

› a maximum of 16 groups (128 indoor units) can be controlled
› 2 remote controls in separate locations can be used
› operating status indication (normal operation, alarm)
› centralised control indication
› maximum wiring length of 1,000m (total: 2,000m)

DTA113B51

Basic solution for control of Sky Air and VRV

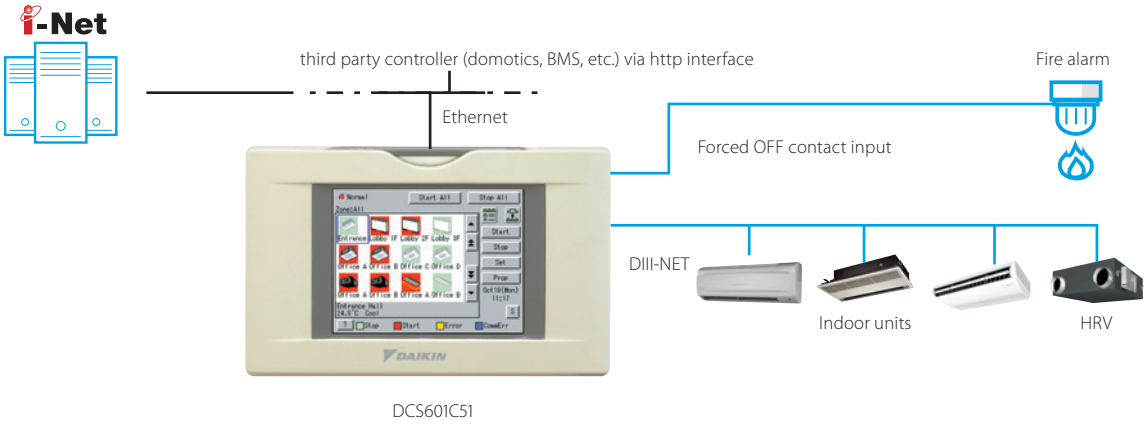
› Rotation function
› Backup operation function.



touch intelligent Controller

DCS601C51

Detailed & easy monitoring and operation of VRV systems (max. 64 indoor units groups).



Languages
› English
› French
› German
› Italian
› Spanish
› Dutch
› Portuguese

System layout
› Up to 64 indoor units can be controlled
› Touch panel (full colour LCD via icon display)

Control
› Individual control (set point, start/stop, fan speed) (max. 64 groups/indoor units)
› Set back schedule
› Enhanced scheduling function (8 schedules, 17 patterns)
› Flexible grouping in zones
› Yearly schedule
› Fire emergency stop control
› Interlocking control
› Increased HRV monitoring and control function
› Automatic cooling / heating change-over
› Heating optimization
› Temperature limit
› Password security: 3 levels (general, administration & service)
› Quick selection and full control
› Simple navigation

Monitoring
› Visualisation via Graphical User Interface (GUI)
› Icon colour display change function
› Indoor units operation mode
› Indication filter replacement
› Multi PC

Cost performance
› Free cooling function
› Labour saving
› Easy installation
› Compact design: limited installation space
› Overall energy saving

Open interface
› Communication to any third party controller (domotics, BMS, etc.) is possible via open interface (http option DCS007A51)

Connectable to
› VRV
› HRV
› Sky Air
› Split (via interface adapter)

intelligent Tablet Controller

DCC601A51

Advanced centralised controller with Cloud connection

- Intuitive and user-friendly interface
- Flexible concept for stand alone and multi site applications
- Total solution thanks to integration of 3rd party equipment
- Monitor & control your small commercial building, no matter where you are

2 solutions:

Local solution
› Offline centralised control via stylish optional screen
› Stylish interface fits any interior

Cloud solution
› Flexible online control from any device (Laptop, tablet etc.)
› Monitor & control one or multiple sites
› Benchmark the energy consumption of different installations
› Energy consumption follow-up to comply with local regulations

System layout

Local solution

Daikin supplied screen (optional) (for local control) Z380C-1A023A

Local network

Daikin supplied router (optional) 4G-N12

Alarm

Window contact

Pulse input or Digital input

intelligent Tablet Controller DCC601A51

WAGO power supply

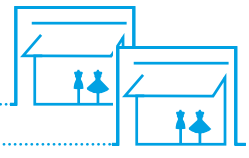
CPU module

I/O module

Split, Sky Air, VRV, VAM, ventilation, air curtains

Online control from any device

DAIKIN CLOUD SERVICE



…

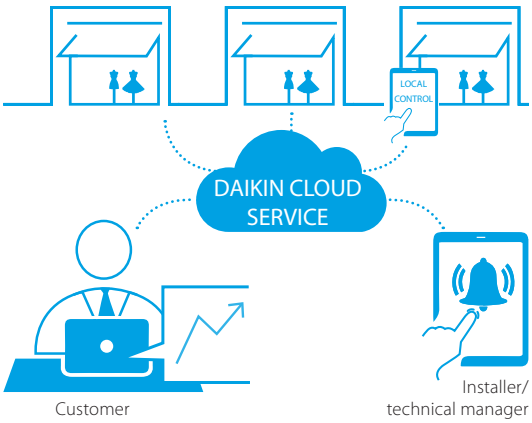
Total solution

› Total solution thanks to a large integration of Daikin products and 3rd party equipment
› Connect a wide range of Daikin units (Split, Sky Air, VRV, Ventilation, air curtains)
› Simply control your entire building centrally
› Increased customer shopping experience by better management of your shop comfort level

Daikin Cloud Services

› Control your building no matter where you are
› Monitor and control multiple sites
› Installer or technical manager can remotely login to the site in case of malfunctions for first troubleshooting
› Benchmark the energy consumption of different installations
› Manage & track your energy use
› Monitor the long time operating units to keep the consumption under control

From one to ∞ sites

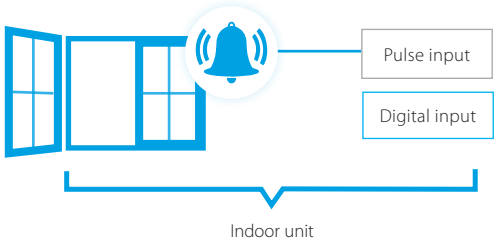


User friendly touch control

› Stylish Daikin supplied optional screen for local control fits any interior
› Intuitive and user-friendly interface
› Full solution with simple control
› Easy commissioning

Flexible

› Inputs via digital and pulse input for 3rd party equipment such as kWh meters, emergency input, window contacts etc
› Modular concept allows your cloud to grow with your business
› Control up to 32 indoor unit groups, with a maximum of 32 indoor units



Functions overview

		Local solution	Cloud solution
Languages	EN, FR, DE, IT, ES, NL, PT	●	●
System layout	N° of connectable indoor units	32	32
	Multiple sites control		●
Monitoring & control	Basic control functions (ON/OFF, mode, filter sign, setpoint, fan speed, ventilation mode, room temperature, …)	●	●
	Remote control prohibition	●	●
	All devices ON/OFF	●	●
	Group control	●	●
	Weekly schedule	●	●
	Interlock control	●	●
	Set point limitation	●	●
	Visualisation of energy use per operation mode		●
	Error e-mail		●
Connectable to	DX split, Sky Air, VRV	●	●
	VAM, VKM ventilation	●	●
	Air curtains	●	●

touch intelligent Manager

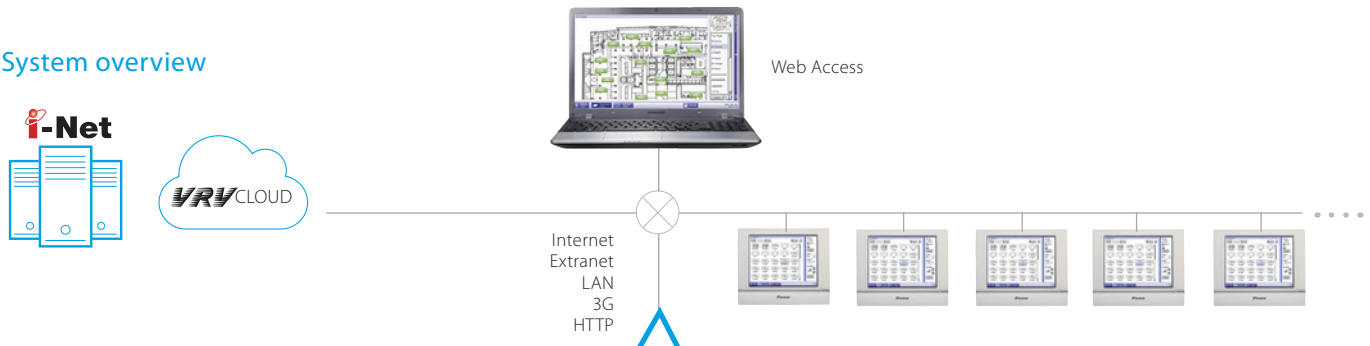
DCM601A51

Mini BMS

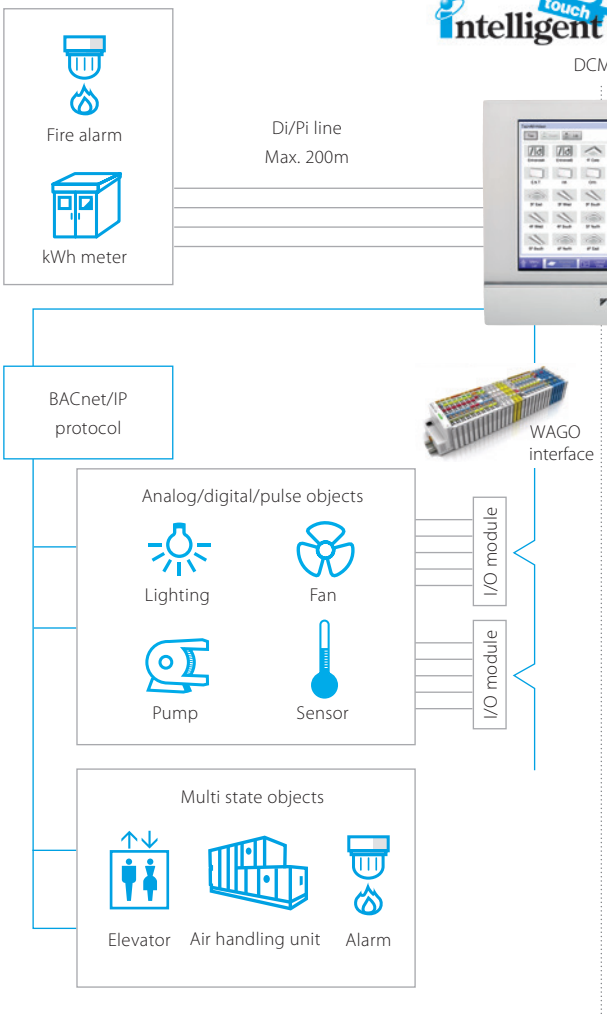
with full integration across all product pillars

- Price competitive mini BMS
- Cross-pillar integration of Daikin products
- Integration of third party equipment

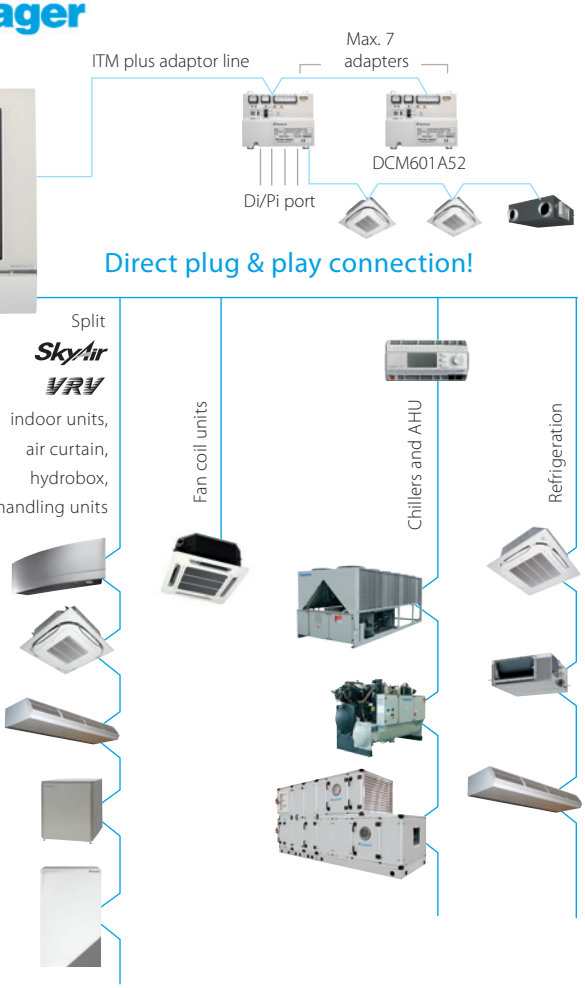
System overview



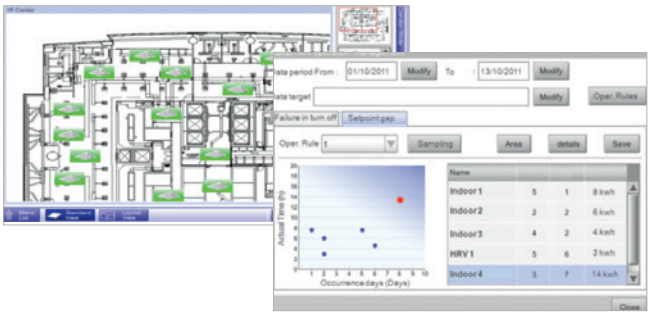
Integration of third party equipment



Full control of Daikin HVAC-R portfolio



touch Intelligent Manager



User friendliness

› Intuitive user interface
› Visual layout view and direct access to indoor unit main functions
› All functions direct accessible via touch screen or via web interface

Smart energy management

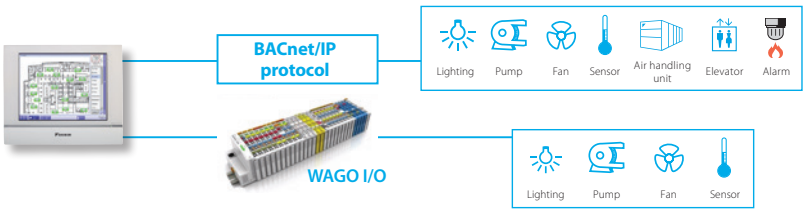
› Monitoring if energy use is according to plan
› Helps to detect origins of energy waste
› Powerful schedules guarantee correct operation throughout the year
› Save energy by interlocking A/C operation with other equipment such as heating

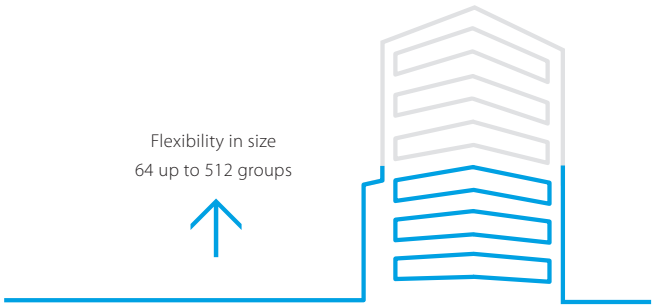
Flexibility

› Integration of heating, air conditioning, applied systems, refrigeration, air handling units
› BACnet protocol for 3rd party products integration
› I/O for integration of equipment such as lights, pumps etc. on WAGO modules
› Modular concept for small to large applications
› Control up to 512 indoor unit groups via one ITM and combine multiple ITM via web interface

Easy servicing and commissioning

› Remote refrigerant containment check reducing on site visit
› Simplified troubleshooting
› Save time on commissioning thanks to the pre-commissioning tool
› Auto registration of indoor units





Functions overview

Languages
› English
› French
› German
› Italian
› Spanish
› Dutch
› Portuguese

System layout
› Up to 512 unit groups can be controlled (ITM plus Integrator + 7 iTM Plus adapters)

Management
› Web access
› Power Proportional Distribution (option)
› Operational history (malfunctions, …)
› Smart energy management
- monitor if energy use is according to plan
- detect origins of energy waste
› Setback function
› Sliding temperature

Control
› Individual control (512 groups)
› Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
› Interlock control
› Setpoint limitation
› Temperature limit

WAGO Interface
› Modular integration of 3rd party equipment
- WAGO coupler (interface between WAGO and iTM)
- Di module
- Do module
- Ai module
- Ao module
- Thermistor module
- Pi module

Open interface
› Communication to any third party controller (domotics, BMS, etc.) is possible via http open interface (http option DCM007A51)

Connectable to
- DX Split, Sky Air, VRV
- Chillers (via POL638.70 controller)
- Daikin AHU
- Fan coils
- Daikin Altherma Flex type
- LT and HT hydroboxes
- Biddle Air curtains
- WAGO I/O
- BACnet/IP protocol

RTD

RTD-20 Retail Economiser Control Zones in Shop Applications

RTD-NET
› Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM

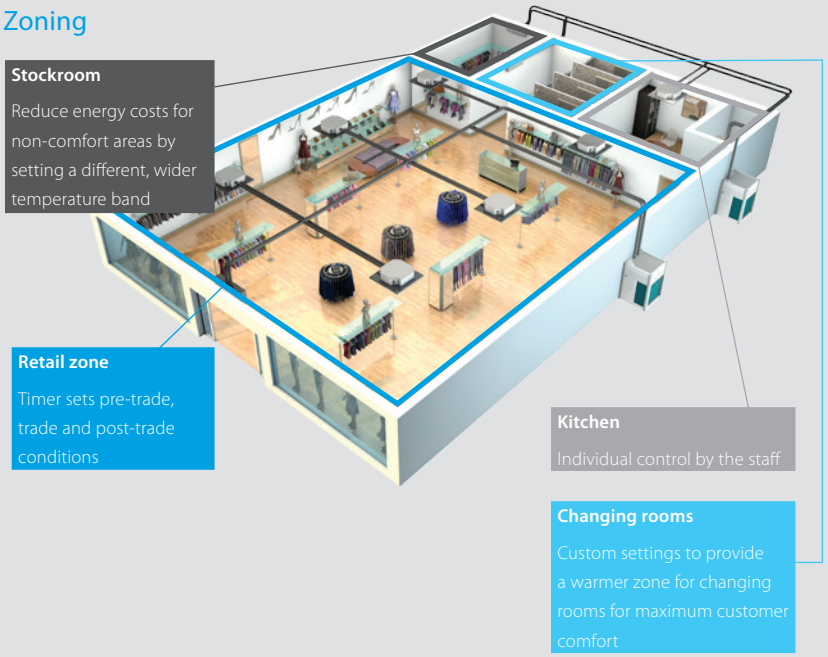
RTD-10
› Advanced integration into BMS of Sky Air, VRV, VAM and VKM through either:
- Modbus
- Voltage (0-10V)
- Resistance

› Duty/standby function for server rooms

RTD-20
› Retail economiser
› Advanced control of Sky Air, VRV, VAM/VKM and air curtains
› Clone or independent zone control
› Increased comfort with integration of CO_2 sensor for fresh air volume control
› Save on running costs via
- pre/post and trade mode
- set point limitation
- overall shut down
- PIR sensor for adaptive deadband

RTD-HO
› Modbus interface for monitoring and control of Sky Air, VRV, VAM and VKM
› Intelligent hotel room controller

Zoning



Control options benefits
Optimise the operation of the air conditioning without compromising occupant comfort

Without RTD-20
› Pre-trade:
- AC either on (timer) or off
- whole store heated or cooled

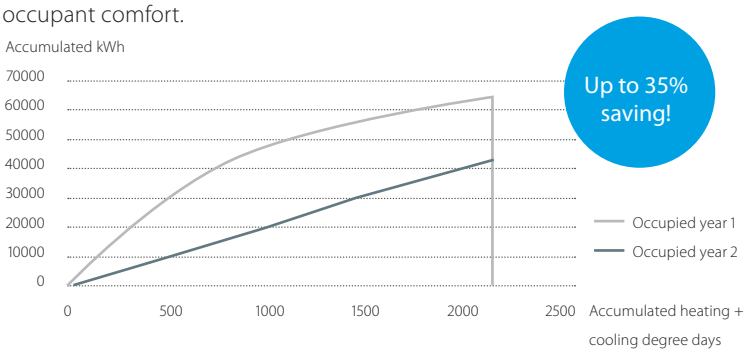
› Trading:
- achieving set-point
- staff could access controllers
- heat cool clash can occur
- door curtain not interlocked
- always trying to achieve set-point

› Post-Trade:
- either on or off

With RTD-20
› Pre-trade:
- De-stratification on start-up
- Heat/Cool protection enabled
- AC only comes on if internal temp above 26°C or below 19°C
- achieving midpoint of 19-23°C
- controllers locked
- heat cool clash prevented
- door curtain interlocked
- learns store patterns & heats/cools "enough" to reach set-point

› Post-Trade:
- Heat/cool protection enabled
- Trade extension function

Integrate all essential store operations in one control
Optimise the operation of the air conditioning without compromising occupant comfort.



Overview functions




Main functions	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions H x W x D mm	100 x100 x 22			
Key card + window contact				✓
Set back function				✓
Prohibit or restrict remote control functions (setpoint limitation, ...)	✓	✓	✓**	✓
Modbus (RS485)	✓	✓	✓	✓
Group control	✓	✓	✓	✓
0 - 10 V control		✓	✓	
Resistance control		✓	✓	
IT application		✓		
Heating interlock		✓	✓	
Output signal (on/defrost, error)		✓	✓****	✓
Retail application			✓	
Partitioned room control			✓	
Air curtain	✓***	✓***	✓	

(1): By combining RTD-RA devices

Control functions	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M,V,R	M	M*
Set point	M	M,V,R	M	M*
Mode	M	M,V,R	M	M*
fan	M	M,V,R	M	M*
Louver	M	M,V,R	M	M*
HRV Damper control	M	M,V,R	M	
Prohibit/Restrict functions	M	M,V,R	M	M*
Forced thermo off				

Monitoring functions	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	M
Set point	M	M	M	M
Mode	M	M	M	M
fan	M	M	M	M
Louver	M	M	M	M
RC temperature	M	M	M	M
RC mode	M	M	M	M
nbr units	M	M	M	M
Fault	M	M	M	M
Fault code	M	M	M	M
Return air temperature (Average /Min/Max)	M	M	M	M
Filter alarm	M	M	M	M
Termo on	M	M	M	M
Defrost	M	M	M	M
Coil In/Out temperature	M	M	M	M

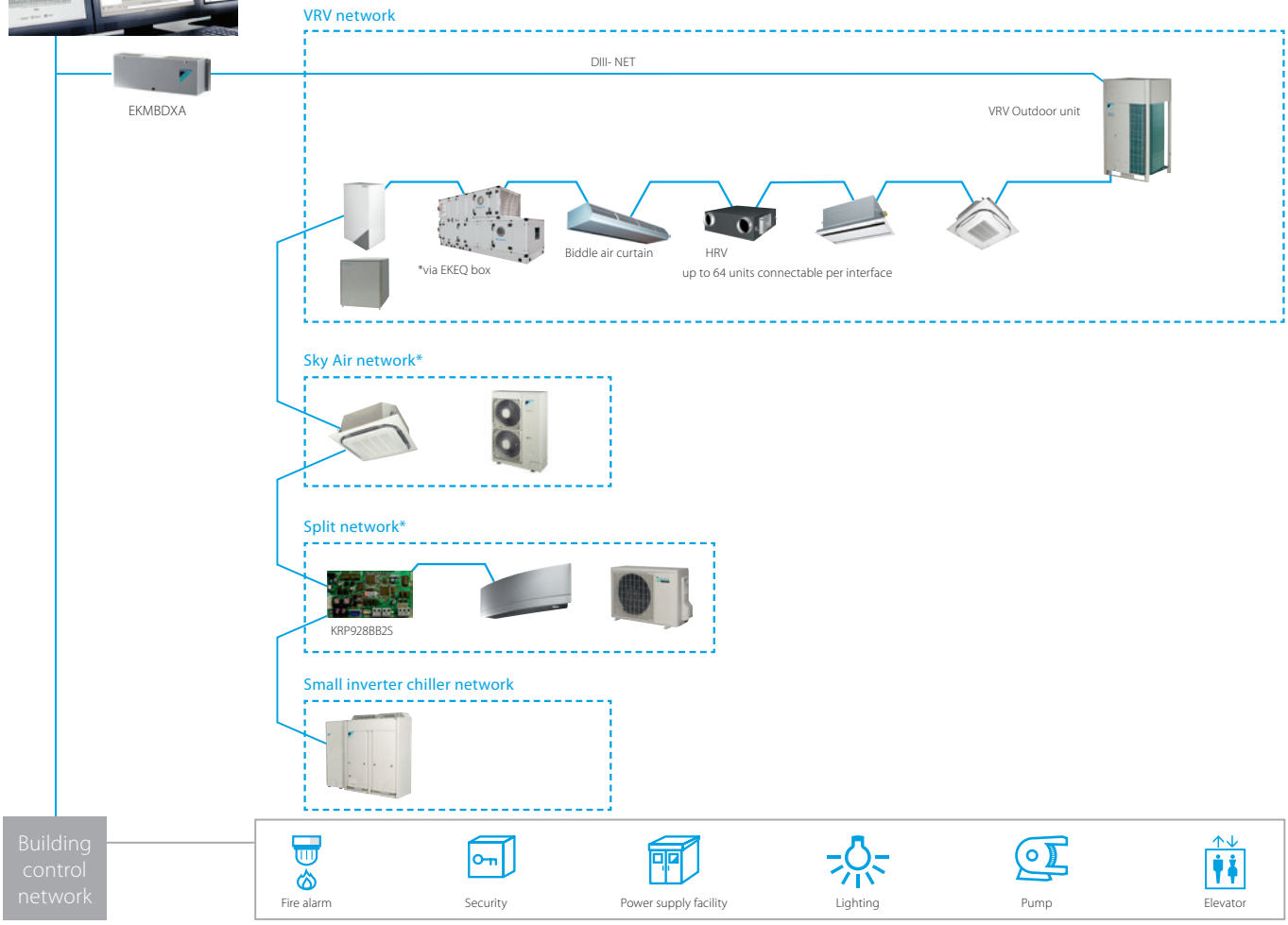
M : Modbus / R : Resistance / V : Voltage / C: control
* : only when room is occupied / ** : setpoint limitation / (*) if available
*** : no fan speed control on the CYV air curtain / **** : run & fault

DIII-net Modbus interface

EKMBDXA

Integrated control system for seamless connection between Split, Sky Air, VRV and small inverter chillers and BMS systems

› Communication via Modbus RS485 protocol
› Detailed monitoring and control of the VRV total solution
› Easy and fast installation via DIII-net protocol
› As the Daikin DIII-net protocol is being used, only one modbus interface is needed for a group of Daikin systems (up to 10 outdoor unit systems)



* Additional centralised controller might be required. For more information contact your local dealer.

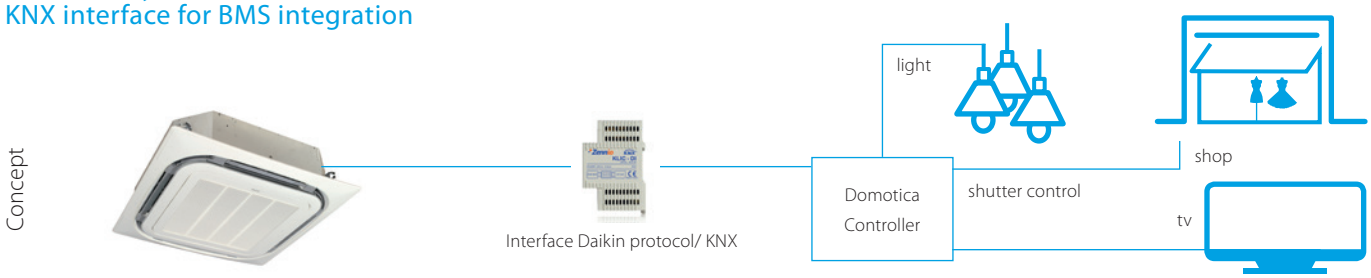
			EKMBDXA7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	HeightxWidthxDepth	mm	124x379x87
Weight		kg	2.1
Ambient temperature - operation	Max.	°C	60
	Min.	°C	0
Installation			Indoor installation
Power supply	Frequency	Hz	50
	Voltage	V	220-240

KNX interface

KLIC-DI

Integration of Sky Air and VRV in HA/BMS systems

Connect Sky Air / VRV indoor units to KNX interface for BMS integration



KNX interface line-up

The integration of Daikin indoor units through the KNX interface allows monitoring and control of several devices, such as lights and shutters, from one central controller. One particularly important feature is the ability to programme a 'scenario' - such as "Home leave" - in which the end-user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in "Home leave", the air conditioner is off, the lights are turned off, the shutters are closed and the alarm is on.

KNX interface for

	KLIC-DI Size 90x60x35mm	
	Sky Air	**VRV**
Basic control		
On/Off	●	●
Mode	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool
Temperature	●	●
Fan speed levels	2 or 3	2 or 3
Swing	Stop or movement	Swing or fixed positions (5)
Advanced functionalities		
Error management	Communication errors, Daikin unit errors	
Scenes	●	●
Auto switch off	●	●
Temperature limitation	●	●
Initial configuration	●	●
Master and slave configuration	●	●

Wireless room temperature sensor

K.RSS

Flexible and easy installation

- Accurate temperature measurement thanks to flexible placement of the sensor
- No need for wiring
- No need to drill holes
- Ideal for refurbishment

Connection diagram Daikin indoor unit PCB (FXSQ example)

Specifications

			Wireless room temperature sensor kit (K.RSS)	
			Wireless room temperature receiver	Wireless room temperature sensor
Dimensions		mm	50 x 50	ø 75
Weight		g	40	60
Power supply			16VDC, max. 20 mA	N/A
Battery life			N/A	+/- 3 years
Battery type			N/A	3 Volt Lithium battery
Maximum range		m	10	
Operation range		°C	0~50	
Communication	Type		RF	
	Frequency	MHz	868.3	

- Room temperature is sent to the indoor unit every 90 seconds or if the temperature difference is 0.2°C or larger.

Wired room temperature sensor

KRCS01-1B
KRCS01-4B

- Accurate temperature measurement, thanks to flexible placement of the sensor

Specifications

Dimensions (HxW)	mm	60 x 50
Weight	g	300
Length of branch wiring	m	12

Adapter PCBs

Simple solutions for unique requirements
Concept and benefits

› Low cost option to satisfy simple control requirements
› Deployed on single or multiple units

			Connectable to:		
			Split	Sky Air	VRV
	**(E)KRP1B*** adapter for wiring	• Facilitates integration of auxiliary heating apparatus, humidifiers, fans, damper • Powered by and installed at the indoor unit		●	●
	**KRP2A*/KRP4A*** Wiring adapter for electrical appendices	• Remotely start and stop up to 16 indoor units (1 group) (KRP2A* via P1 P2) • Remotely start and stop up to 128 indoor units (64 groups) (KRP4A* via F1 F2) • Alarm indication/ fire shut down • Remote temperature setpoint adjustment • Cannot be used in combination with a central controller		●	●
	**KRP58M3**	• Low noise and demand control option for RZQ200/250C		●	
	**SB.KRP58M51**	• Low noise and demand control option for RZQG and RZQSG single phase • Includes mounting plate EKMKSA1		●	
	**KRP58M51**	• Low noise and demand control option for RZQG1 and RZQSG 3 phase		●	

Some adapters require an installation box, refer to the option lists for more information

Accessories

EKRORO		• External ON/OFF or forced off • Example: door or window contact
EKRORO 3		• External ON/OFF or forced off • F1/F2 contact • Example: door or window contact
KRC19-26A		• Mechanical cool/heat selector • Allows switching over an entire system between cooling/heating/fan only • Connects to the A/B/C terminals of the unit
BRP2A81		• Cool/heat selector PCB • Required to connect KRC19-26A to a VRV IV outdoor unit

Options and accessories

Split and Sky Air

Options – Split

		Indoor units					
		FTXZ-N	FTXJ-MW/S	FTXG-LW/S	FTXM-M	CTXS15-35K FTXS20-25K	FTXS35-50K
Daikin Indoor Units	Wired remote control	BRC073 (3)	BRC073 (3)	BRC073 (3)	BRC073 (3)	BRC073 (3)	BRC073 (3)
	BRC1E52A	-	-	-	-	-	-
	BRC1E52B (4)	BRC073 (3)	BRC073 (3)	BRC073 (3)	-	-	-
	Cord for wired remote control – 3m	BRCW901A03	BRCW901A03	BRCW901A03	BRCW901A03	BRCW901A03	BRCW901A03
	Cord for wired remote control – 8m	BRCW901A08	BRCW901A08	BRCW901A08	BRCW901A08	BRCW901A08	BRCW901A08
	Wireless remote control	-	-	-	-	-	-
	Simplified remote control with mode button	-	-	-	-	-	-
	Simplified remote control without mode button	-	-	-	-	-	-
	Adapter PCB for interlock (key card …)	-	-	-	-	-	-
	Wiring adapter normal open contact / normal open pulse contact	KRP413A1S (1)	KRP413A1S (1)	KRP413A1S (1)	KRP413A1S (1)	KRP413A1S (1) (5)	KRP413A1S (1)
	Centralised control board – up to 5 rooms	KRC72 (2)	KRC72 (2)	KRC72 (2)	KRC72 (2)	KRC72 (2)	KRC72 (2)
	Anti-theft protection for remote control		KKF910A4	KKF910A4	-	KKF910A4	KKF910A4
	Interface adapter for wired remote control	-	-	-	-	KRP980A1	-
	Wiring adapter for electrical appendices	-	-	-	-	-	-
	Remote sensor	-	-	-	-	-	-
	Installation box for adapter PCB	-	-	-	-	-	-
	Electric box with earth terminal 3 blocks	-	-	-	-	-	-
	Electric box with earth terminal 2 blocks	-	-	-	-	-	-
	Interface adapter for DIII-net	KRP928A2S	KRP928A2S	KRP928A2S	KRP928A2S	KRP928A2S (5)	KRP928A2S
	Online controller	BRP069A42	(8)	BRP069A41	BRP069A41	BRP069A43	BRP069A42
	Modbus gateway	RTD-RA	-	RTD-RA	-	RTD-RA (5)	RTD-RA
	KNX gateway	KLIC-DD	-	KLIC-DD	-	KLIC-DD (5)	KLIC-DD
	Installation leg	-	-	-	-	-	-

		Outdoor units									
		RXZ-N	RXJ-M	RXG-L	RXM-M	RXS-L(3)		RXS-F8	RX-K	RX-GV(B)	RXK-A
Others	Air direction adjustment grille	–	–	KPW945A4 (50 class)	–	–	–	–	–	KPW945A4	–
	Humidifying hose L joint (10 pcs.)	KPMJ983A4L	–	–	–	–	–	–	–	–	–
	L-shape cuffs for humidification (10 pcs.)	KPMH950A4L	–	–	–	–	–	–	–	–	–
	Humidifying hose extension set 2m	KPMH974A402	–	–	–	–	–	–	–	–	–
	Hose for humidification (10m)	KPMH974A42	–	–	–	–	–	–	–	–	–

Notes: (1) Wiring adapter supplied by Daikin. Time clock and other devices: to be purchased locally; (2) Wiring adapter is also required for each indoor unit; (3) Cord for wired remote control BRCW901A03 or BRCW901A08 required; (4) Standard there is no remote control delivered with this indoor unit. Wired or wireless control to be ordered separately; (5) Interface adapter KRP980A1, KRP067A41 or KRP980B2 required; (6) Installation box for adapter PCB required; (7) only in combination with simplified remote control BRC2E52C or BRC3E52C; (8) No option needed, functionality is included with the product.

Indoor units							
FTXS-G	**FTX-GV**	**FTX-KV**	**FTXK-AW/S**	**FTXB-C**	**FVXG-K**	**FVXS-F**	**FDXS-F(9)**
BRC073 (3)	BRC073 (3)	BRC073 (3)			BRC073 (3)	BRC073 (3)	BRC1D52
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
BRCW901A03	BRCW901A03	BRCW901A03	-	-	BRCW901A03	BRCW901A03	-
BRCW901A08	BRCW901A08	BRCW901A08	-	-	BRCW901A08	BRCW901A08	-
-	-	-	-	-	-	-	BRC4C65 (4)
-	-	-	-	-	-	-	BRC2E52C
-	-	-	-	-	-	-	BRC3E52C
-	-	-	-	-	-	-	BRP7A54 (6) (7)
KRP413A1S (1)	KRP413A1S (1)	-	-	-	KRP413A1S (1)	KRP413A1S (1)	-
KRC72 (2)	KRC72 (2)	-	-	-	KRC72 (2)	KRC72 (2)	-
KKF910A4	KKF917AA4	-	-	-	KKF910A4	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	KRP4A54
-	-	-	-	-	-	-	KRCS01-4
-	-	-	-	-	-	-	KRP1BA101
-	-	-	-	-	-	-	KJB311A
-	-	-	-	-	-	-	KJB212A
KRP928A2S	KRP928A2S	KRP928A2S	-	-	KRP928A2S	KRP928A2S	-
BRP069A42	BRP069A42	BRP069A45	-	-	BRP069A42	BRP069A42	-
RTD-RA	RTD-RA	RTD-RA	-	-	RTD-RA	RTD-RA	RTD-NET
KLIC-DD	KLIC-DD	KLIC-DD	-	-	KLIC-DD	KLIC-DD	KLIC-DI
-	-	-	-	-	BKS028	-	-

Outdoor units												
RXB-C	**RXLG-M**	**RXLS-M**	**RXL-M3**	**ARXL-M**	**ARXM-M**	**ARX-K**	**ARXN-NB9**	**ARXB-C**	**MXM-M**	**MXS-E/F/ G/H/K**	**AMXM-M**	**AMX-E/G**
–	–	–	–	–	–	–	–	–	–	KPW945A4	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–	–

	INDOOR UNITS					
Description	**FCAHG-F**	**FCQHG-F**	**FCQG-F**	**FFQ-C**	**FDXS-F9**	**FDBQ-B**
DCC601A51 Centralised controller with cloud connection	✓	✓	✓	✓	✓	
Wired remote control	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C		BRC1D52 BRC1E52A (3)(6) BRC1E52B (4)(6) BRC1E53A/B/C	BRC1D528 BRC1E52A (3)(6) BRC1E52B (4)(6) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C
BRC2E52C Simplified remote control (with operation mode selector button) (12)	✓	✓	✓	✓	✓	✓
BRC3E52C Simplified remote control (without operation mode selector button) (12)	✓	✓	✓	✓	✓	✓
DCM601A5A Intelligent touch manager	✓	✓	✓	✓	✓	✓
Infrared remote control (heat pump)	BRC7FA532F (5)(10)		BRC7FA532F (5)(10)	BRC7EB530W (8) (9)(10) BRC7F530W (8) (9)(10) BRC7F530S (8)(9)(10)	BRC4C65	-
DCS302C51 Centralised remote control (11)	✓	✓	✓	✓	✓	-
DCS301B51 Unified ON/OFF control (11)	✓	✓	✓	✓	✓	-
DST301B51 Schedule timer	✓	✓	✓	✓	✓	-
Adapter for wiring	-	-	-	-	-	-
Adapter for wiring (interlock for fresh air intake fan)	-	-	-	-	-	-
Adapter for external ON/OFF and monitoring/for electrical appendices (1)	KRP1B57 (5) KRP4A53 (5)		KRP1B57 KRP4A53 (5)	KRP1B57 KRP4A53 (5)	KRP4A54	-
Adapter for wiring (hour meter) (1)(7)(14)	EKRP1C11 (5)		EKRP1C11 (5)	EKRP1B2 (13)	-	EKRP1B2 (13)
DTA112B51 Interface adapter for Sky Air	-	-	-	-	-	✓
Installation box for adapter PCB	KRP1H98 (5)(6)		KRP1H98 (5)(6)	KRP1B101 KRP1BA101	KRP1BA101	-
NIM03 - R04084124324 Option PCB for group control	-	-	-	-	-	-
Digital input adapter (1)(13)(14)	BRP7A53		BRP7A53	BRP7A53	-	BRP7A54
EKRP1B2A Options PCB for external electrical heater, humidifier and/or hour meter (7)	-	-	-	-	-	-
Mounting plate for adapter PCB	-	-	-	-	-	-
KRCS01-4 Remote sensor	✓	✓	✓	✓	✓	-
Remote ON/OFF, forced OFF kit	-	-	-	-	-	-
KJB311A Electrical box with earth terminal (3 blocks)	✓	✓	✓	-	✓	-
KJB212A Electrical box with earth terminal (2 blocks)	✓	✓	✓	-	✓	-
KJB411A Electrical box with earth terminal	-	-	-	-	-	-

Notes:
1) Installation box for adapter PCB is necessary;
2) Interface adapter for Sky Air series (DTA112B51) is necessary;
3) Including following languages: English, German, French, Italian, Spanish, Dutch, Greek, Russian, Turkish, Portuguese, Polish;
4) Including following languages: English, German, Czech, Croatian, Hungarian, Romanian, Slovenian, Bulgarian, Slovak, Serbian, Albanian;
5) Option not available in combination with BYCQ140*G;
6) Independently controllable flaps function not available in combination with RR and RQ models.;
7) Electrical heater, humidifier and hour meter are field supply. These parts should not be installed inside the equipment;
8) Sensing function is not available;
9) Independently controllable flaps function is not available;
10) With the infrared remote control, the individual flap control and automatic air volume control cannot be controlled;
11) Including following languages: pack 1: English, German, French, Dutch, Spanish, Italian, Portuguese with PC cable EKPCCAB3 in combination with the Updater PC software, you can additionally change the language to : language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian and Slovenian. Language pack 3: English, Greek, Polish, Russian, Serbian, Slovak and Turkish.;
12) Only possible in combination with simplified remote control BRC2/3E52C;
13) These options require mounting plate KRP4A96, maximally 2 optional PCBs can be mounted.
14) When installing electrical heaters, an optional PCB for external electric heaters EKRP1B2A is required for each indoor unit.
15) This option needs to be installed together with installation box KRP1B101/KRP1BA101.

INDOOR UNITS							
FBQ-D	**FDQ-C**	**FDQ-B**	**FAQ-C9**	**FHQ-CB**	**FUQ-C**	**FNQ-A**	**FVQ-C**
✓	✓	✓	✓	✓	✓	✓	✓
BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C	BRC1D52 BRC1E52A (3) BRC1E52B (4) BRC1E53A/B/C
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
BRC4C65	BRC4C65	BRC4C65	BRC7EB518	BRC7G53	BRC7C58 (10)	BRC4C65	-
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓	✓	✓
-	-	-	-	-	-	KRP1B56	-
KRP1BA59	KRP1C64 (15)	KRP1B54	-	-	-	-	-
KRP4A52 (14) KRP2A51 (14)	KRP4A51 (15)	KRP4A51 (15)	KRP4A51 (15)	KRP1B54 KRP4A52 (1)	KRP4A53	KRP4A54	KRP1B57 KRP4A52 (6)(14)
-	-	-	-	-	-	-	-
✓	-	✓	-	-	-	-	-
KRP1B101 KRP1BA101	-	-	KRP4A93 (6)	KRP1D93A	KRP1B97	KRP1BA101	KRP4AA95
-	-	-	-	-	-	-	-
BRP7A51 (13)	BRP7A54	BRP7A54	BRP7A51 (12)	BRP7A52	BRP7A53	BRP7A51 (12)	BRP7A52
✓	✓	✓	-	-	-	-	-
-	KRP4A96	KRP4A96	-	KKSAP50A56 (35-50)	-	-	-
✓	✓	✓	✓	✓	✓	✓	-
-	EKRORO3	EKRORO	-	EKRORO4	EKRORO5	-	-
-	-	-	✓	✓	✓	✓	-
-	-	-	✓	✓	✓	✓	-
✓	-	-	-	-	-	-	

	INDOOR UNITS				
Description	**FCQHG-F**	**FCQG-F**	**FFQ-C**	**FDBQ-B**	**FBQ-D**
Replacement long-life filter	KAFP551K160	KAFP551K160	KAFQ441BA60	-	-
Drain pump kit	Standard	Standard	Standard	-	Standard
L-type piping kit (upward direction)	-	-	-	-	-
Sealing member of air discharge outlet	KDBHQ55B140 (5)	KDBHQ55B140 (5)	BDBHQ44C60	-	-
Decoration panel for air discharge	-	-	-	-	-
Decoration panel	BYCQ140D BYCQ140DW BYCQ140DG BYCQ140DGF (3)	BYCQ140D BYCQ140DW BYCQ140DG BYCQ140DGF (3)	BYFQ60B3 BYFQ60C2W1W BYFQ60C2W1S	-	-
Fresh air intake kit (direct installation type)	KDDQ55B140-1 (1)(2) + KDDQ55B140-2 (1)(2)	KDDQ55B140-1 (1)(2) + KDDQ55B140-2 (1)(2)	KDDQ44XA60	-	-
Air discharge adapter for round duct	-	-	-	-	KDAP25A56A (35-50 class) KDAP25A71A (60-71 class) KDAP25A140A (100-140 class)
Panel spacer	-	-	KDBQ44B60	-	-
Sensor kit (4)	BRYQ140A	BRYQ140A	BRYQ60A2W (3) BRYQ60A2S (3)	-	-
Noise filter	-	-	-	-	-

- The BYCQ140DW has white insulations. Be informed that dirt is more visible on white insulation and that it is consequently not advised to install the BYCQ140DW decoration panel in environments
- To be able to control BYCQ140D/W/DG(F), the controller BRC1E is needed and cannot be combined with mini-VRV, multi and split non-inverter outdoor units.

Notes:
1) Option not available in combination with BYCQ140D*G*;
2) Both parts of the fresh air intake are needed for each unit;
3) This option is intended exlusively for usage in fine dust environments (clothing shops). Do not use this option in high humidity and/or greasy environments.;
4) Sensor kit not available with RR & RQ units;
5) For directly mounting the decoration panel on the unit, decoration panel option EKBYBSD is required.

		OUTDOOR UNITS					
Description		**RZQG-L9V1**	**RZQG-L8Y1**	**RZQSG-L3/9V1**	**RZQSG-L(8)Y1**	**RZQ-C**	**AZQS-B8V1/BY1**
Central drain plug		-	-	-	-	KWC26B280	-
Refrigerant branch piping	For twin	KHRQ22M20TA (2)	KHRQ22M20TA (KHRQ58T) (2)	KHRQ22M20TA (2)	KHRQ22M20TA (KHRQ58T) (2)	KHRQ22M20TA	-
	For triple	KHRQ127H (2)	KHRQ127H (KHRQ58H) (2)	KHRQ127H(2)	KHRQ127H (KHRQ58H) (2)	KHRQ250H7	-
	For double twin	KHRQ22M20TA (3x) (2)	KHRQ22M20TA (3x) (KHRQ58T) (2)	KHRQ22M20TA (3x) (2)	KHRQ22M20TA (3x) (KHRQ58T) (2)	KHRQ22M20TA (x3)	-
Demand adapter kit		SB.KRP58M51	KRP58M51	KRP58M51 (71 class), SB.KRP58M51 (100-125-140)	SB.KRP58M51 (class 125-140)	KRP58M51	KRP58M51MK (V1)
Bottom plate heater (1)		EKBPH140L7	EKBPH140L7	-	-	-	-

Notes:
1) Bottom plate heater is only available for RZQG* models;
2) For combination of RZQ(S)G71-140 in combination with FCQG35-71F or FCQHG71F use the refrigerant branch piping mentioned between brackets

INDOOR UNITS						
FDQ-C	**FDQ-B**	**FAQ-C9**	**FHQ-CB**	**FUQ-C**	**FNQ-A**	**FVQ-C**
-	-	-	KAFP501A56 (35-50 class) KAFP501A80 (60-71 class) KAFP501A160 (100-125 class)	KAFP551K160	-	KAFJ95L160
Standard	-	K-KDU572EVE	KDU50P60 (35-60 class) KDU50P140 (71-125 class)	-	-	-
-	-	-	KHFP5M35 (35 class) KHFP5N63 (50-60 class) KHFP5N160 (71-125 class)	-	-	-
-	-	-	-	KDBHP49B140	-	-
-	-	-	-	KDBTP49B140	-	-
-	-	-	-	-	-	-
-	-	-	KDDQ50A140	-	-	-
KDAJ25K140A	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	KEK26-1A	-	-	KEK26-1A	-

Options & accessories – Ventilation

		VAM 150FC	VAM 250FC	VAM 350FC	VAM 500FC	VAM 650FC	VAM 800FC	VAM 1000FC	VAM 1500FC	VAM 2000FC
Dust filters	EN779 Medium M6	-	-	EKAFV50F6	EKAFV50F6	EKAFV80F6	EKAFV80F6	EKAFV100F6	EKAFV100F6 x2	EKAFV100F6 x2
	EN779 Fine F7	-	-	EKAFV50F7	EKAFV50F7	EKAFV80F7	EKAFV80F7	EKAFV100F7	EKAFV100F7 x2	EKAFV100F7 x2
	EN779 Fine F8	-	-	EKAFV50F8	EKAFV50F8	EKAFV80F8	EKAFV80F8	EKAFV100F8	EKAFV100F8 x2	EKAFV100F8 x2
Silencer	Model name	-	-	-	KDDM24B50	KDDM24B100	KDDM24B100	KDDM24B100	KDDM24B100 x2	KDDM24B100 x2
	Nominal pipe Diameter (mm)	-	-	-	200	200	250	250	250	250
CO_2 sensor		-	-	BRYMA65	BRYMA65	BRYMA65	BRYMA100	BRYMA100	BRYMA200	BRYMA200
VH electrical heater for VAM		VH1B	VH2B	VH2B	VH3B	VH3B	VH4B / VH4/AB	VH4B / VH4/AB	VH5B	VH5B

Individual control systems	VAM-FC	EKEQFCBA [2]	EKEQDCB [2]	EKEQMCBA [2]
Wired remote control	BRC1E52A/B / BRC1D52	BRC1E52A/B / BRC1D52	BRC1E52A/B / BRC1D52 1	BRC1E52A/B / BRC1D52 1
VAM wired remote control	BRC301B61	-	-	-

Centralised control systems	VAM-FC	EKEQFCBA [2]	EKEQDCB [2]	EKEQMCBA [2]
Centralised remote control	DCS302C51	-	-	-
Unified ON/OFF control	DCS301B51	-	-	-
Schedule timer	DST301B51	-	-	-
DCC601A51	DCC601A51	-	-	-
Intelligent Touch Manager	DCM601A51	DCM601A51	DCM601A51	DCM601A51
Modbus DIII adapter	EKMBDXA7V1	EKMBDXA7V1	EKMBDXA7V1	EKMBDXA7V1
BACnet interface	DMS502A51	-	-	-
LonWorks interface	DMS504B51	-	-	-

Others	VAM150-250FC	VAM350-2000FC	EKEQFCBA [2]	EKEQDCB [2]	EKEQMCBA [2]
Wiring adapter for electrical appendices (note 7)	KRP2A51	KRP2A51 (note 3)	-	-	-
Adapter PCB for humidifier	KRP50-2	KRP1C4 (note 4/6)	-	-	-
Adapter PCB for 3rd party heater	BRP4A50	BRP4A50A (note 4/5)	-	-	-
Remote sensor	-	-	-	KRCS01-1	-

Notes
(1) Cool/heat selector required for operation
(2) Unless otherwise specified DIII-net devices cannot be connected to the system
(3) Installation box KRP1BA101 needed.
(4) Fixing plate EKMPVAM additionally needed for VAM1500-2000FB.
(5) 3rd party heater and 3rd party humidifier cannot be combined
(6) Installation box KRP50-2A90 needed.
(7) For external control and monitoring (ON/OFF control, operation signal, error indication)

	VH electrical heater for VAM
Supply voltage	220/250V ac 50/60 Hz. +/-10%
Output current (maximum)	19A at 40°C (ambient)
Temperature sensor	5k ohms at 25°C (table 502 1T)
Temperature control range	0 to 40°C / (0-10V 0-100%)
Run on timer	Adjustable from 1 to 2 minutes (factory set at 1.5 minutes)
Control fuse	20 X5 mm 250 m A
LED indicators	Power ON - Yellow Heater ON - Red (solid or flashing, indicating pulsed control) Airflow fault - Red
Mounting holes	98mm X 181mm centres 5 mm ø holes
Maximum ambient adjacent to terminal box	35°C (during operation)
Auto high temp. cutout	100°C Pre-set
Man. reset high temp. cutout	125°C Pre-set
Run relay	1A 120V AC or 1A 24V DC
BMS setpoint input	0-10VDC

Vh electrical heater for vam		vH1B	VH2B	VH3B	VH4B	VH4/AB	VH5B
Capacity	kW	1	1	1	1.5	2.5	2.5
Duct diameter	mm	100	150	200	250	250	350
Connectable VAM		VAM150FC	VAM250FC	VAM500FC	VAM800FC	VAM800FC	VAM1500FC
		-	VAM350FC	VAM650FC	VAM1000FC	VAM1000FC	VAM2000FC

D-AHU Professional

Construction type		SP 65	SP 45	FP 50	FP 25
Profile	Aluminium	standard	standard	standard	standard
	Anodized aluminium	option	option	option	option
	Aluminium with thermal break	option	option	option	option
	Anodized aluminium with thermal break	option	option	option	option
Corner	Glass fibre reinforced nylon	standard	standard	standard	standard
Panel insulation	Polyurethane foam density 45 kg/m³ thermal conductivity 0.020 W/m*K fire reaction class 1	standard	standard	standard	standard
	Mineral wool density 90 kg/m³ thermal conductivity 0.037 W/m*K (referred to 20°C) fire reaction class 0	option	option	option	option
External sheet material	Grey Plastisol covered galvanized steel	standard	standard	standard	standard
	Pre-coated galvanized steel	option	option	option	option
	Galvanized steel	option	option	option	option
	Aluminium	option	option	option	option
	AISI 304 stainless steel	option	option	option	option
Internal sheet material	Galvanized steel	standard	standard	standard	standard
	Pre-coated galvanized steel	option	option	option	option
	Grey Plastisol covered galvanized steel	option	option	option	option
	Aluminium	option	option	option	option
	AISI 304 stainless steel	option	option	option	option
Base frame	Aluminium	standard (from size 1 to size 17)	standard (from size 1 to size 17)	standard (from size 1 to size 17)	standard (from size 1 to size 17)
	Galvanized steel	standard (from size 18 to size 27)	standard (from size 18 to size 27)	standard (from size 18 to size 27)	standard (from size 18 to size 27)
Handle	Glass fibre reinforced nylon	standard	standard	standard	standard
Type	Compression type	standard	standard	standard	standard
	Hinge function type (possibility to remove door)	option	option	option	option

D-AHU Easy

Construction type		DS 50	DS 25
Profile	Aluminium	Standard	Standard
Corner	Glass fibre reinforced nylon	Standard	Standard
Panel insulation	Polyurethane foam thermal conductivity 0.024 W/m*K	Standard (density 45 kg/m³)	standard (density 47 kg/m³)
External sheet material	Pre-coated galvanized steel (RAL 9002)	Standard	Standard
Internal sheet material	Galvanized steel	Standard	Standard
Base frame	Aluminium	Standard	Standard
Handle	Glass fibre reinforced nylon	Standard	Standard
Type	Compression type	Standard	Standard

Power supply

T1 = 3~, 220V, 50Hz
V1 = 1~, 220-240V, 50Hz
VE = 1~, 220-240V/220V, 50Hz/60Hz*
V3 = 1~, 230V, 50Hz
VM = 1~, 220~240V/220~230V, 50Hz/60Hz
W1 = 3N~, 400V, 50Hz
Y1 = 3~, 400V, 50Hz

* For VE power supply only 1~, 220-240V, 50Hz data is displayed in this catalogue.

Conversion table refrigerant piping

inch	mm
1/4″	6.4 mm
3/8″	9.5 mm
1/2″	12.7 mm
5/8″	15.9 mm
3/4″	19.1 mm
7/8″	22.2 mm
1 1/8″	28.5 mm
1 3/8″	34.9 mm
1 5/8″	41.3 mm
1 3/4″	44.5 mm
2″	50.8 mm
2 1/8″	54 mm
2 5/8″	66.7 mm

F-gas regulation

For fully/partially charged equipment: contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.

For non pre-charged equipment (Chillers: split chiller (SEHVX/SERHQ), condensing units and condenserless chillers + refrigeration (LCBKQ-AV1, JEHCCU/JEHSCU and ICU): Its functioning relies on fluorinated greenhouse gases.

Measuring conditions

Air conditioning

1) Nominal cooling capacities are based on:	
Indoor temperature	27°CDB/19°CWB
Outdoor temperature	35°CDB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m
2) Nominal heating capacities are based on:	
Indoor temperature	20°CDB
Outdoor temperature	7°CDB/6°CWB
Refrigerant piping length	7.5m - 8/5m VRV
Level difference	0m

Applied systems

Air cooled	Cooling only	Evaporator: 12°C/7°C	Ambient: 35°CDB
	Heat pump	Evaporator: 12°C/7°C	Ambient: 35°C
		Condenser: 40°C/45°C	Ambient: 7°CDB/6°CWB
Water cooled	Cooling only	Evaporator: 12°C/7°C	
		Condenser: 30°C/35°C	
	Heating only	Evaporator: 12°C/7°C	
		Condenser: 40°C/45°C	
Condenserless chiller		Evaporator: 12°C/7°C	
		Condensing temperature: 45°C / liquid temperature: 40°C	
Fan coil units	Cooling	Room temperature: 27°CDB /19°CWB	
		Water inlet/outlet temperature: 7°C/12°C	
	Heating	Room temperature: 20°C 2 pipe: Water inlet temperature: 50°C (same water flow as in cooling mode) 4 pipe: Water inlet/outlet temperature: 70°C/60°C	

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks).
The sound power level is an absolute value indicating the "power" which a sound source generates.
For more detailed information please consult our technical databooks.

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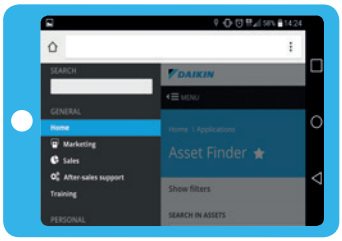

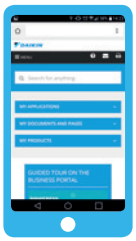

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With this software tool you can simulate the seasonal efficiency, the annual power consumption and CO_2 emission for a given climate, load profile (cooling, heating, heat recovery, covalent, bivalent...) and combination of systems. With its intuitive and appealing graphical interface, a simulation, comparison and ROI calculation can be made in a matter of minutes.

Ventilation Xpress

Selection tool for ventilation devices (VAM, VKM). The selection is based on given supply/extract airflows (including fresh up), and given ESP of the supply/extract ducting:

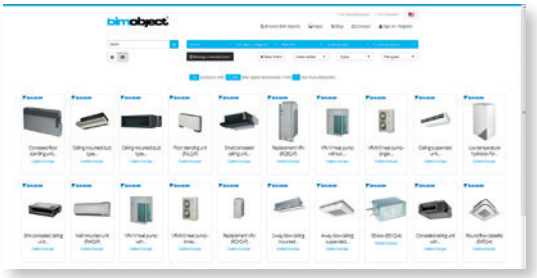
- Determines size of electrical heaters
- Visualisation of psychrometric chart
- Visualisation of selected configuration
- Required field settings mentioned in the report

Supporting tools

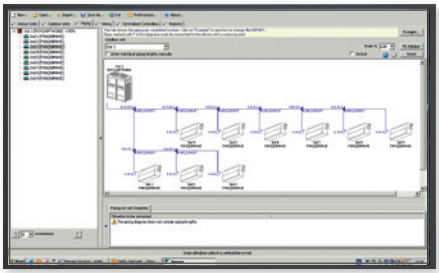
Building Information Modelling (BIM) support

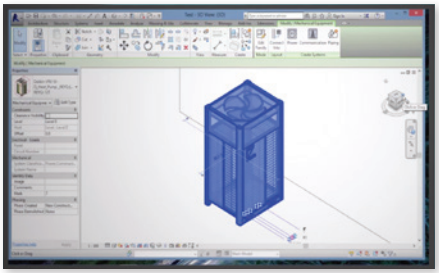
EXPECTED JUNE 2016 FOR SKY AIR

- BIM is improving efficiency in the design and build phase
- Daikin is among the first to supply a full library of BIM objects for its VRV products



http://bimobject.com/en/product/?freetext=daikin





Other interesting apps

Some of our most used apps:

- **Error code app:** quickly know the meaning of fault codes for each product family
- **Load calculation tool:** helps you to calculate the heat and cool load of your building
- **Astra:** AHU design software

There's an app for that

DAIKIN

Join the mission!

Lead the way to new efficiencies

Future proof your customers – and your business

Make it your mission to reduce your customers' environmental impact, with the Bluevolution range of light commercial systems.

Bluevolution introduces R32 - a lower CO_2e refrigerant that delivers ultra-high seasonal efficiency.

With less refrigerant charge and lower flammability class, R32 is the refrigerant of the future: quicker to install and easier to maintain. Yet it's available already in Daikin's industry-leading Split and Multi-Split ranges.

And now the Bluevolution mission has expanded to include the Seasonal Smart High COP Roundflow Cassette with new iTab Controller. Offering unrivalled comfort and control, it delivers the highest cooling and heating efficiency in the industry.

Join the mission today. For training and advice on launching into R32, visit www.daikin.co.uk

BLUEVOLUTION

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

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Daikin Airconditioning UK Limited The Heights Brooklands Weybridge Surrey KT13 0NY Tel 0845 6419000 Fax 0845 6419009 daikin.co.uk

Scottish Region	Northern Region	Midlands Region	Western Region	North London	South London
0845 641 9330	0845 641 9340	0845 641 9370	0845 641 9320	0845 641 9360	0845 641 9355