DAIKIN

Sky Air

Sky Air

Product catalogue for installers 2015

Your business is our concern

Round flow cassette

Ceiling suspended unit

Wall mounted unit

Concealed ceiling unit

Outdoor unit

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Sky Air

The perfect working environment for light commercial businesses

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 we continuously innovate to **reduce the environmental** impact of HVAC-R (Heating, Ventilation, air conditioning, refrigeration) solutions further.

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

We promise to continue our **forward-thinking** ethos, treating challenges as opportunities to produce ever-better solutions.

We will drive **innovation** and go the extra distance for your customers and for our company.

We will be smart and ready to do things **differently**.

We will deliver on these **core values of our brand** and enjoy sustainable success with continued growth.

Sky Air

The solution for the light commercial sector

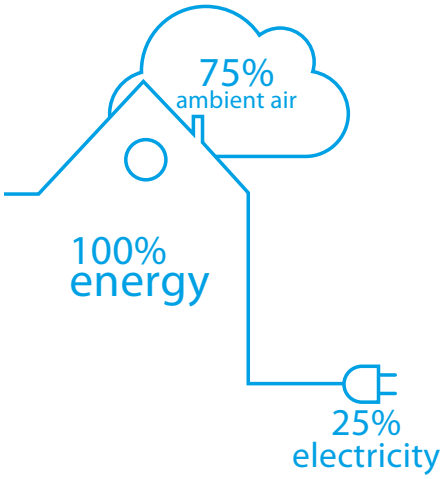
Offering Comfort – Energy efficiency – Reliable systems

Why choose Sky Air

- Industry-leading product range for small offices, shops, retail stores, restaurants, banks or data centers.
- From reliable and high quality comfort air conditioning, to customised applications with a smart use of energy and flexible installation and operation.
- Extensive range which meets even the most stringent building specifications.
- Ensures total control over your customers' space heating and cooling, ventilation and doorway climate separation requirements.

Heating and cooling

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



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.
› One outdoor unit can power several indoor units.
  - 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.
  - Air conditioning is available in every room: a **multi system** allows **up to nine different indoor** units to operate from **a single outdoor unit**. All the indoor units can be individually controlled and do not need to be installed at the same time.

Replacement

All common split and Sky Air outdoor and indoor units can be used to replace R-22 and R-407C systems.

› Reuse existing piping and wiring
› Lower running cost
› Upgrade indoor units to newer, more stylish models

Flexible Installation

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

Ventilation

Daikin's ventilation option provides a supply of fresh air to help create a **healthy and high quality indoor environment**:
› **Heat is reclaimed** between outdoor and indoor air.
› The **fresh air** from the ventilation provides **additional cooling** at virtually no cost.
› Optimum **humidity** control.

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**.
› Wired remote controllers give **full access to the unit's functions and energy saving features**, including flexible scheduling for different seasons and the ability to show kWh use (round flow cassette).
› 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**.

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.

Heating and cooling

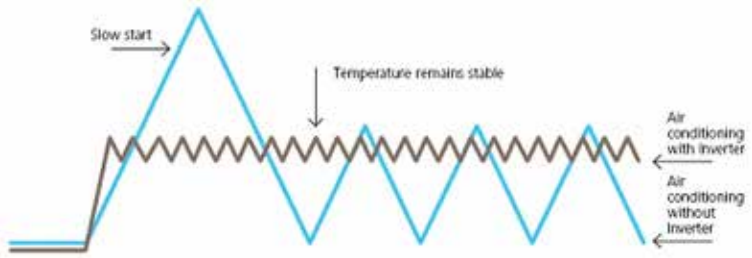
at the lowest running cost

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.



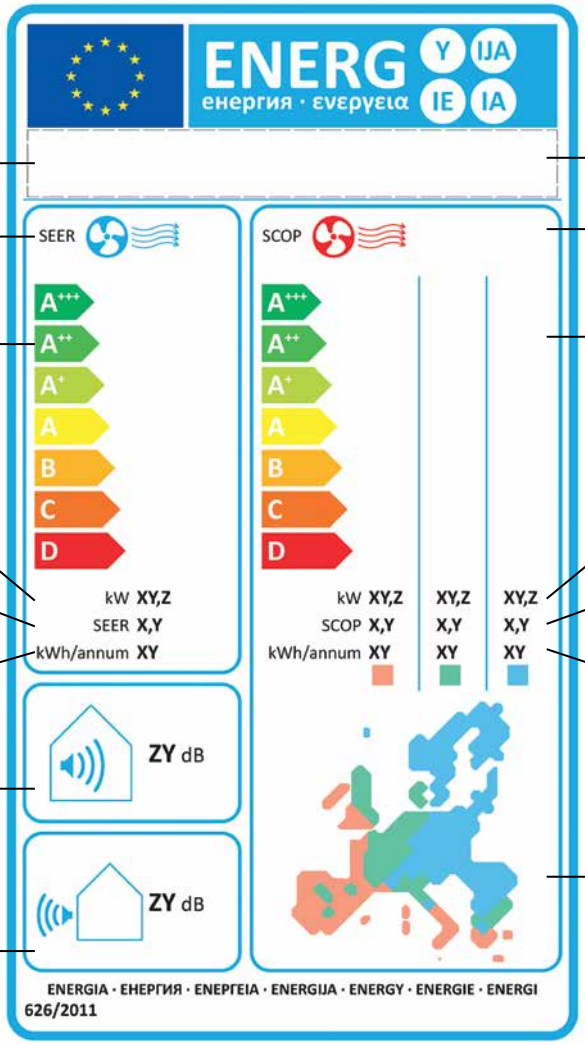
Europe's New Energy Label

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 more in 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)

Sky Air applications

Retail and shop

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

Our **round flow cassettes** is one of the possible solutions to blend with your customers' décor as they are **integrated in the ceiling** with only the standard panel visible. This standard panel is the secret to **increasing comfort levels** and providing the **perfect climate conditions** for your customers, as the various flaps can be individually opened and closed to ensure that the heating and cooling are directed to where they are needed.

The panel is also the secret to reducing maintenance as it can conceal the **auto cleaning function** that traps dust with a special filter that cleans itself once a day, while the collected dust can be easily removed with a vacuum cleaner. Up to 50% energy can be saved!

Managing this system could not be easier as our intelligent touch manager enables the user to **monitor and control** the system directly or via the Internet. It can also be set to provide easy management of their electricity consumption and can even control the lighting, while enhanced scheduling will make their lives easier.

Offices and banks

› Design and genius in one.
› Unique design for this market: integrates into the ceiling, fully flat.
› Optional presence and floor sensors improve comfort and efficiency.
› Ideal for new build and renovation projects.

The **fully flat cassette** is unique to this market thanks to its remarkable blend of iconic **design and engineering excellence**.

Blending seamlessly with the décor of a modern office and meeting the demanding criteria of architects, the fully flat cassette totally integrates within a standard European ceiling panel, enabling lights, speakers and sprinklers to be installed in the adjoining ceiling tiles.

These units are ideal for heating or cooling smaller areas such as meeting rooms, together with our **round flow cassettes**. Both can be combined with presence and floor sensors and even with our ventilation option, to optimise the energy efficiency and provide perfect comfort.

The **presence sensor** adjusts the setpoint or switches the unit off when there is nobody in the room, but when someone is there, the air flow is directed away from that person to avoid draught. This combined process has been found to reduce energy use.

The **floor sensor** detects the average temperature near the floor and ensures an even temperature distribution between ceiling and floor. Cold feet become history!

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

Using the KNX interface to connect the Sky Air system to the **building management** system allows central monitoring and control of several devices, including lights, shutters, and climate control systems so as to maximise energy efficiency.

Sky Air applications

Data centers

› Continuous cooling operation.
  • Operation possible down to -15°C ambient temperature
  • Automatic duty rotation and stand-by between active units.
› Dedicated technical cooling settings
  • Indoor operation range down to 11°CWB
  • Prevent defrost cycles and reduce down-time
› Unique selection method with capacity tables down to -15°C outdoor temperature
› Enhanced reliability thanks to assymetric 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.

Multiple indoor units can be combined in an automatic rotation cycle where in addition each individual unit is serving as a back up for the other, this enhances the total system reliability. Back-up units allow easy maintenance on the active units.

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).

Restaurants

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

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.

Residential applications

› Customised solution
› Comfortable environment

Sky Air systems ensure a **comfortable environment** in the home all year round. Users can control each room individually to ensure optimum comfort for everyone. There is a wide range of units which are ideal for installation in new builds or renovation projects.

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

Sky Air
product range

Benefits for the installer

› Modular designs and factory fitted extras make installation easier for you.

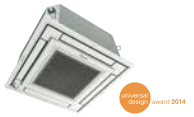
Benefits for the consultant

› The confidence of knowing that you can recommend the right climate control systems to meet tomorrow's legislation.
› Systems that are designed to blend into any décor and provide optimum performance with top seasonal efficiencies.
› 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 customers' climate control systems will meet legal requirements well beyond the current legislation.
› Your customers will obtain optimum seasonal performance thus saving energy and reducing costs.
› The climate control system will add value to their building, thus protecting their investment.
› Your customers will save on installation and running costs, obtain rapid return on investment and contribute to their ecological protection objectives.

Products overview Sky Air

Type	Model		Product name	
Ceiling mounted cassette	High COP, round flow cassette	- 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 maximize comfort	FCQHG-F	
	Round flow cassette	- 360° air discharge for optimum efficiency and comfort - Lowest installation height in the market! 35 to 71 class has a height of only 204mm - Auto cleaning function ensures high efficiency - Intelligent sensors save energy and maximize comfort	FCQG-F[1]	
	Fully flat cassette	- 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 maximize comfort - Flexibility to suit every room layout without changing the location of the unit!	FFQ-C	
	Siesta, 4-way blow ceiling mounted unit	- Solution addressing the primary needs of small shops - Improved energy efficiency: up to A+ energy labels - Control several indoor units at the same time - Exclusively offered for pair applications	ACQ-D	
Concealed ceiling	Small concealed ceiling unit	- 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 - Discretely concealed in the ceiling: only the grilles are visible - Flexible installation as the air suction direction can be altered from rear to bottom suction	FDBQ-B	
	Slim concealed ceiling unit	- Slim design for flexible installation - Medium external static pressure up to 40Pa - Small capacity unit developed for small of well insulated rooms	FDXS-F	
	Concealed ceiling unit with medium ESP	- Optimum comfort guaranteed no matter the length of ductwork or type of grilles - Multiple fan curves available for specific ductwork - Top efficiency in the market and lowest sound levels in the market! - Compact dimensions (only 245mm!) enable installation in narrow ceiling voids - Medium external static pressure up to 150Pa	FBQ-D[1]	
	Concealed ceiling unit with high ESP	- ESP up to 200Pa, ideal for large sized buildings - Discretely 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	FDQ-C	
	Concealed ceiling unit with high ESP	- 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	FDQ-B[1]	
	Concealed ceiling unit	- Ideal for medium sized shops with false ceilings - Discretely concealed in the ceiling: only the grilles are visible - Best protection against possible water leakage	ABQ-C	
Wall mounted	Wall mounted unit	- 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	FAQ-C	
Ceiling suspended	Ceiling suspended unit	- 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	FHQ-C[1]	
	4-way blow ceiling suspended unit	- 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	FUQ-C[1]	
	Ceiling suspended unit	- For wide rooms with no false ceilings nor free floor space - Guarantees a stable temperature	AHQ-C	
Floor standing	Floor standing unit	- 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	FVQ-C	
	Concealed floor standing unit	- 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	FNQ-A	

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

Capacity class (kW)

25	35	50	60	71	100	125	140	200	250
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Benefits overview Sky Air

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.
		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.
		Wired remote control	Wired remote control to start, stop and regulate the air conditioner from a distance.
		Centralised 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.
		Drain pump kit	Facilitates condensation draining from the indoor unit.
		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**	**ACQ-D**	**FDBQ-B**	**FDXS-F**	**FBQ-D**	**FDQ-C**	**FDQ-B**	**ABQ-C**	**FHQ-C**	**AHQ-C**	**FUQ-C**	**FAQ-C**	**FNQ-A**	**FVQ-C**
															
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CONCEALED CEILING UNIT

4-WAY BLOW CEILING
SUSPENDED CASSETTE


WALL MOUNTED UNIT


CEILING SUSPENDED CASSETTE


FULLY FLAT CASSETTE

FCQG-F/FCQHG-F

Round flow cassette

Why choose a round flow cassette?

- 360° air discharge for optimum efficiency and comfort in shops, offices and restaurants.
- Unique auto-cleaning panel.

Unique functions which help save costs

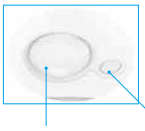
› Daikin was the first company to launch a cassette using the round flow principle with sensors* and a unique auto-cleaning panel*.

... More energy efficient than any other

› The auto-cleaning panel* means:
  - 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.

› Thanks to presence and floor sensors*, the unit changes its setpoint or switches off completely, if there are no people in the room, resulting in energy savings of up to 27%.

… And improved comfort



› 360° air flow discharge pattern.
› The presence sensor* directs the air away from anyone it detects in the room.
› The floor sensor* detects the average floor temperature and ensures an even temperature distribution between the ceiling and the floor.
Cold feet are history!

Flexible installation

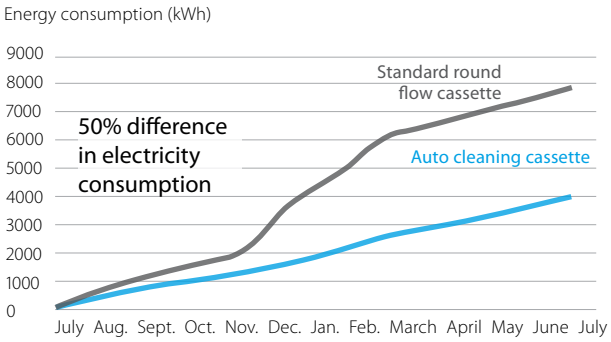
› Flaps can be individually controlled or closed using the wired remote control, to suit room configuration.
Optional closure kits are also available.

YouTube
https://www.youtube.com/DaikinEurope

* available as an option

References

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



Cumulative energy comparison over 12 months

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/EPDB 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.

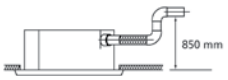
ROUND FLOW

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

- 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
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Standard drain pump with 850mm lift increases flexibility and installation speed
- Two optional intelligent sensors improve energy efficiency and comfort.
- Daily automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs.



FCQG35-50-60F

RXS-L3

BRC1E52A-B, BRC7FA532F

Efficiency data				FCQG + RXS	35F + 35L3	50F + 50L	60F + 60L
Cooling capacity	Min./Nom./Max.			kW	1.3/3.4/4.0	1.7/5.0/5.3	1.7/5.7/5.7
Heating capacity	Min./Nom./Max.			kW	1.3/4.2/5.2	1.7/6.00/6.0	1.7/7.0/7.0
Power input	Cooling	Nom.		kW	0.91	1.410	1.640
	Heating	Nom.		kW	1.2	1.620	1.990
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A++	
		Pdesign		kW	3.50	5.00	5.70
		SEER			6.35	6.48	6.22
		Annual energy consumption		kWh	193	270	321
	Heating (Average climate)	Energy label			A++	A++	A+
		Pdesign		kW	3.32	4.36	4.71
		SCOP			4.9	4.29	4.00
		Annual energy consumption		kWh	949	1,426	1,646
Nominal efficiency	EER				3.74	3.55	3.48
	COP				3.5	3.70	3.52
	Annual energy consumption			kWh	455	705	820
	Energy label	Cooling			A	A	A
		Heating			B	A	B

Indoor unit				FCQG	35F	50F	60F
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840		
Weight	Unit			kg	18	19	
Decoration panel	Model				BYCQ140D7W1 / BYCQ140D7W1W / BYCQ140D7GW1		
	Colour				Pure White (RAL 9010)		
	Dimensions	HeightxWidthxDepth		mm	50x950x950 / 50x950x950 / 130x950x950		
	Weight			kg	5.4 / 5.4 / 10.3		
Air filter	Type				Resin net with mold resistance		
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	12.5/10.6/8.7	12.6/10.7/8.7	13.6/11.2/8.7
	Heating	High/Nom./Low		m^3/min	12.5/10.6/8.7	12.6/10.7/8.7	13.6/11.2/8.7
Sound power level	Cooling			dBA	49		51
	Heating			dBA	49		51
Sound pressure level	Cooling	High/Nom./Low		dBA	31/29/27		33/31/28
	Heating	High/Nom./Low		dBA	31/29/27		33/31/28
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		
Control systems	Infrared remote control				BRC7FA532F		
	Wired remote control				BRC1D52 / BRC1E52A/B		

Outdoor unit				RXS	35L3	50L	60L
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285	735x825x300	
Weight	Unit			kg	34	47	48
Sound power level	Cooling			dBA	61	62	
	Heating			dBA	61	62	
Sound pressure level	Cooling	High/Low		dBA	48/44		49/46
	Heating	High/Low		dBA	48/45		49/46
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46		
	Heating	Ambient	Min.~Max.	°CWB	-15~18		
Refrigerant	Type/Charge/GWP			kg	R-410A / 1.2 / 2,087.5	R-410A / 1.7 / 2,087.5	R-410A / 1.5 / 2,087.5
	Charge			TCO_2Eq	2.51	3.5	3.1
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	9.5	12.70	
	Piping length	OU - IU	Max.	m	20	30	
	Additional refrigerant charge			kg/m	0.020 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	15	20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		
Current - 50Hz	Maximum fuse amps (MFA)			A	-		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load (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. (4) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

ROUND FLOW

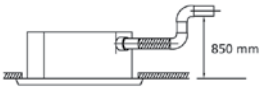
Seasonal Classic

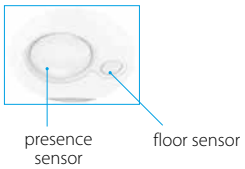
Round flow cassette

360° air discharge for optimum efficiency and comfort

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

- 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
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Standard drain pump with 850mm lift increases flexibility and installation speed
- Two optional intelligent sensors improve energy efficiency and comfort.
- Daily automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs.





Efficiency data				FCQG + RZQSG	71F + 71L3V1	100F + 100L9V1	125F + 125L9V1	140F + 140L9V1	100F + 100L8Y1	125F + 125L8Y1	140F + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.12	2.88	3.74	4.45	2.88	3.74	4.45
	Heating	Nom.		kW	2.08	3.05	3.96	4.54	3.05	3.96	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label			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	511.538	792.453	-	512	792	-
	Heating (Average climate)	Energy label			A+			-	A+		-
		Pdesign		kW	6.33	7.60	8.03	-	7.60	8.03	-
		SCOP			4.10		4.01	-	4.10	4.01	-
		Annual energy consumption		kWh	2,162	2,595.122	2,803.491	-	2,595	2,803	-
Nominal efficiency	EER				3.21	3.30	3.21	3.01	3.30	3.21	3.01
	COP				3.61	3.54	3.41		3.54	3.41	
	Annual energy consumption			kWh	1,060	1,440	1,870	2,225	1,440	1,870	2,225
	Energy label	Cooling			A			-	A		
		Heating			A		B	-	A		B

Indoor unit				FCQG	71F	100F	125F	140F
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840	246x840x840		
Weight	Unit			kg	21	24		
Decoration panel	Model				BYCQ140D7W1 / BYCQ140D7W1W / BYCQ140D7GW1			
	Colour				Pure White (RAL 9010)			
	Dimensions	HeightxWidthxDepth		mm	50x950x950			
	Weight			kg	5.4 / 5.4 / 10.3			
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	
	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	
Sound power level	Cooling			dBA	51	54	58	
	Heating			dBA	51	54	58	
Sound pressure level	Cooling	High/Nom./Low		dBA	33/31/28	37/33/29	41/35/29	
	Heating	High/Nom./Low		dBA	33/31/28	37/33/29	41/35/29	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			
Control systems	Infrared remote control				BRC7FA532F			
	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit				RZQSG	71L3V1	100L9V1	125L9V1	140L9V1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	77		99	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge/GWP			kg	R-410A / 2.75 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5
	Charge			TCO_2Eq	5.7	6.1		8.4	6.1		8.4
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
		IU - IU	Max.	m	0.5						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-			20		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load (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. (4) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

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

RZQG140L9V1

BRC1E52A, 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	-	6.80	9.50	12.00	-
		SEER			6.80		6.00	-	6.80		6.00	-
		Annual energy consumption		kWh	350	488.971	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	11.30	12.66	-
		SCOP			4.20	4.61	4.10	-	4.20	4.61	4.10	-
		Annual energy consumption		kWh	2,110	3,431.67	4,322.927	-	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	2,085	1,005	1,225	1,610	2,085
	Energy label	Cooling			A			-	A			-
		Heating			A			-	A			-

Indoor unit				FCQG	71F	100F	125F	140F
Dimensions	Unit	HeightxWidthxDepth		mm	204x840x840	246x840x840		
Weight	Unit			kg	21	24		
Decoration panel	Model				BYCQ140D7W1 / BYCQ140D7W1W / BYCQ140D7GW1			
	Colour				Pure White (RAL 9010)			
	Dimensions	HeightxWidthxDepth		mm	50x950x950			
	Weight			kg	5.4 / 5.4 / 10.3			
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	
	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	
Sound power level	Cooling			dBA	51	54	58	
	Heating			dBA	51	54	58	
Sound pressure level	Cooling	High/Nom./Low		dBA	33/31/28	37/33/29	41/35/29	
	Heating	High/Nom./Low		dBA	33/31/28	37/33/29	41/35/29	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			
Control systems	Infrared remote control				BRC7FA532F			
	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	77	99			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/GWP			kg	R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5			R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5		
	Charge			TCO_2Eq	6.1	8.4			6.1	8.4		
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							
		IU - IU	Max.	m	0.5							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	-				16	20	25	

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load (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. (4) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

ROUND FLOW

Seasonal Classic

High COP, 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

- High COP cassette ensures top performance, great savings in energy consumption and a comfortable environment for commercial applications
- 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
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
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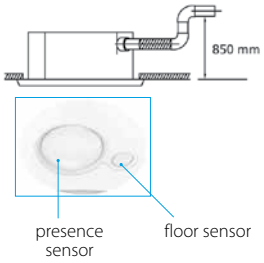

Efficiency data				FCQHG + RZQSG	71F + 71L3V1	100F + 100L9V1	125F + 125L9V1	140F + 140L9V1	100F + 100L8Y1	125F + 125L8Y1	140F + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	1.94	2.57	3.71	4.17	2.57	3.71	4.17
	Heating	Nom.		kW	1.83	2.51	3.60	4.29	2.51	3.60	4.29
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A	-	A++	A	-
		Pdesign		kW	6.80	9.50	12.00	-	9.50	12.00	-
		SEER			6.50	6.70	5.40	-	6.70	5.40	-
		Annual energy consumption		kWh	366	496.269	777.778	-	496	778	-
	Heating (Average climate)	Energy label			A+			-	A+		-
		Pdesign		kW	7.60	8.03		-	8.03		-
		SCOP			4.15	4.30	4.10	-	4.30	4.10	-
		Annual energy consumption		kWh	2,563	2,614.419	2,741	-	2,614	2,741	-
Nominal efficiency	EER				3.50	3.70	3.23	3.21	3.70	3.23	3.21
	COP				4.10	4.30	3.75	3.61	4.30	3.75	3.61
	Annual energy consumption			kWh	970	1,285	1,855	2,085	1,285	1,855	2,085
	Energy label	Cooling			A			-	A		-
		Heating			A			-	A		-

Indoor unit				FCQHG	71F	100F	125F	140F
Dimensions	Unit	HeightxWidthxDepth		mm	288x840x840			
Weight	Unit			kg	25	26		
Decoration panel	Model				BYCQ140D7W1 / BYCQ140D7W1W / BYCQ140D7GW1			
	Colour				Pure White (RAL 9010)			
	Dimensions	HeightxWidthxDepth		mm	50x950x950			
	Weight			kg	5.4 / 5.4 / 10.3			
Air filter	Type				Resin net with mold resistance			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1
	Heating	High/Nom./Low		m^3/min	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1
Sound power level	Cooling			dBA	53	61		
	Heating			dBA	53	61		
Sound pressure level	Cooling	High/Nom./Low		dBA	36/33/29	44/39/33	45/40/35	45/41/37
	Heating	High/Nom./Low		dBA	36/33/29	44/39/33	45/40/35	45/41/37
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			
Control systems	Infrared remote control				BRC7FA532F			
	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit				RZQSG	71L3V1	100L9V1	125L9V1	140L9V1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	77		99	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge/GWP			kg	R-410A / 2.75 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5
	Charge			TCO_2Eq	5.7	6.1		8.4	6.1		8.4
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
		IU - IU	Max.	m	0.5						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-		20			

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load (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. (4) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

High COP, round flow cassette

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FCQHG71-100-125-140F

RZQG140L9V1/L(8)Y1

BRC1E52A-B, BRC7FA532F

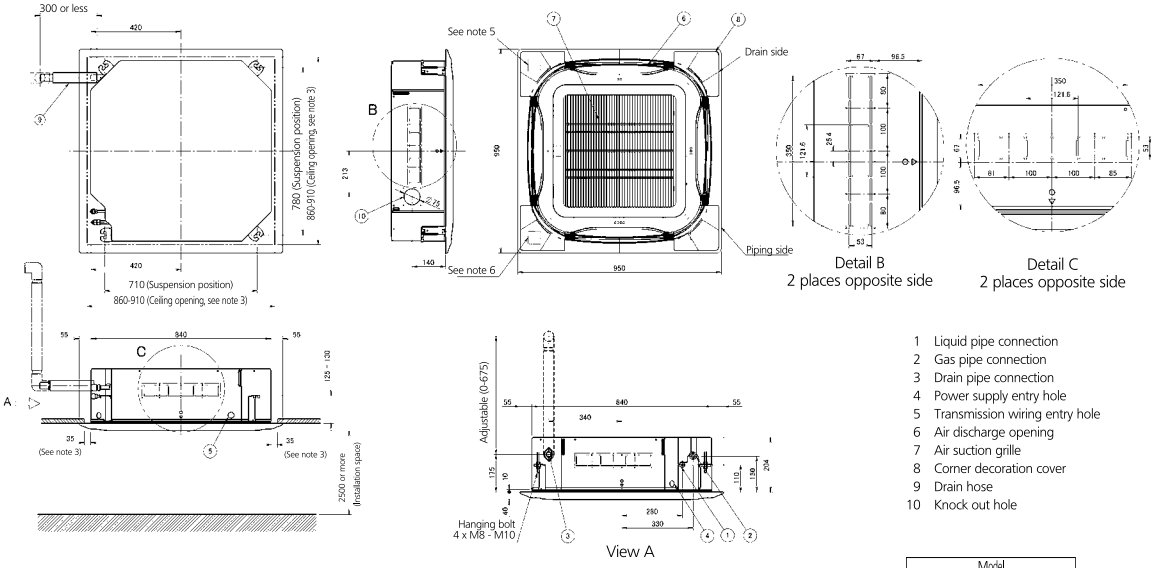
Efficiency data				FCQHG + RZQG	71F + 71L9V1	100F + 100L9V1	125F + 125L9V1	140F + 140L9V1	71F + 71L8Y1	100F + 100L8Y1	125F + 125L8Y1	140F + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	6.8	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	1.66	2.15	3.00	4.00	1.66	2.15	3.00	4.00
	Heating	Nom.		kW	1.56	2.16	3.07	3.77	1.56	2.16	3.07	3.77
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++			-	A++			-
		Pdesign		kW	6.80	9.50	12.00	-	6.80	9.50	12.00	-
		SEER			7.00		6.61	-	7.00		6.61	-
		Annual energy consumption		kWh	340	475	635.401	-	340	475	635	-
	Heating (Average climate)	Energy label			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	2,343	3,295.833	3,829	-	2,343	3,296	3,829	-
Nominal efficiency	EER				4.09	4.42	4.00	3.35	4.09	4.42	4.00	3.35
	COP				4.80	4.99	4.40	4.12	4.80	4.99	4.40	4.12
	Annual energy consumption			kWh	830	1,075	1,500	2,000	830	1,075	1,500	2,000
	Energy label	Cooling			A			-	A			-
		Heating			A			-	A			-

Indoor unit				FCQHG	71F	100F	125F	140F
Dimensions	Unit	HeightxWidthxDepth		mm	288x840x840			
Weight	Unit			kg	25	26		
Decoration panel	Model				BYCQ140D7W1 / BYCQ140D7W1W / BYCQ140D7GW1			
	Colour				Pure White (RAL 9010)			
	Dimensions	HeightxWidthxDepth		mm	50x950x950			
	Weight			kg	5.4 / 5.4 / 10.3			
Air filter	Type				Resin net with mold resistance			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1
	Heating	High/Nom./Low		m^3/min	21.2/16.7/12.2	32.3/25.7/19.0	33.5/26.7/19.9	33.5/27.3/21.1
Sound power level	Cooling			dBA	53	61		
	Heating			dBA	53	61		
Sound pressure level	Cooling	High/Nom./Low		dBA	36/33/29	44/39/33	45/40/35	45/41/37
	Heating	High/Nom./Low		dBA	36/33/29	44/39/33	45/40/35	45/41/37
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			
Control systems	Infrared remote control				BRC7FA532F			
	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	77	99			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/GWP			kg	R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5			R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5		
	Charge			TCO_2Eq	6.1	8.4			6.1	8.4		
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							
		IU - IU	Max.	m	0.5							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	-				16	25		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load (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. (4) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.

FCQG35-71F WITH STANDARD PANEL



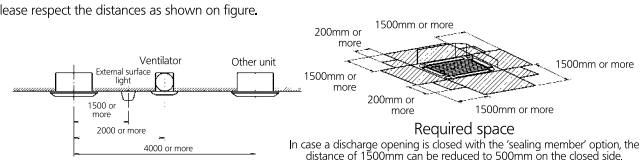
1 Liquid pipe connection
2 Gas pipe connection
3 Drain pipe connection
4 Power supply entry hole
5 Transmission wiring entry hole
6 Air discharge opening
7 Air suction grille
8 Corner decoration cover
9 Drain hose
10 Knock out hole

Model
FCQG35-71F, FXFQ20-63A

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.
6. In case of using a infrared controller, this position will be a receiver, refer to the drawing of the infrared controller for more detail.

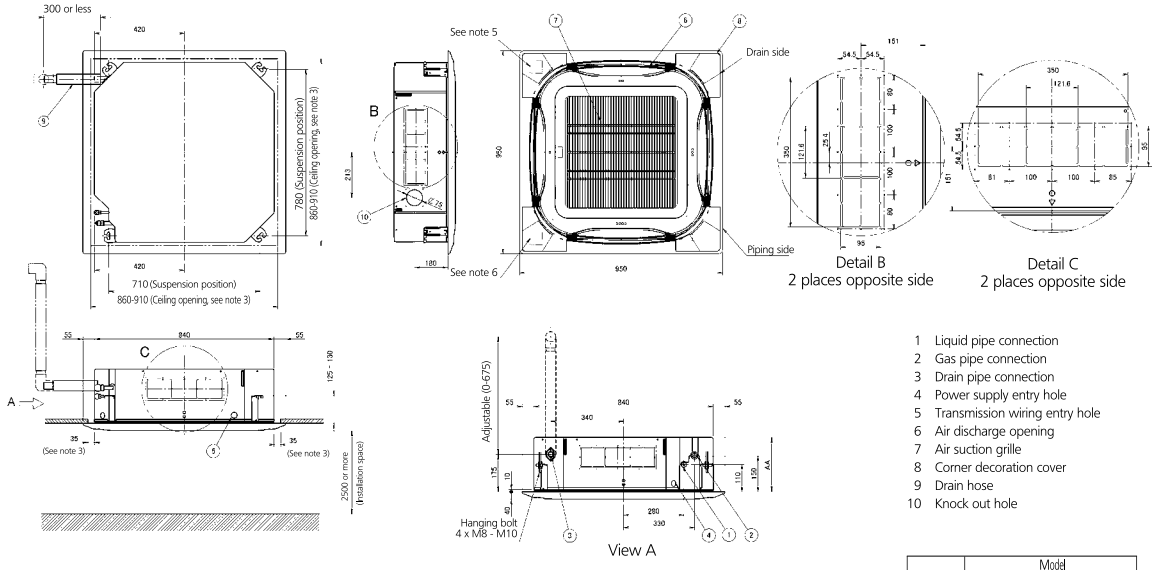
Please respect the distances as shown on figure.



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.

2D090245

FCQG100-140F / FCQHG-F WITH STANDARD PANEL



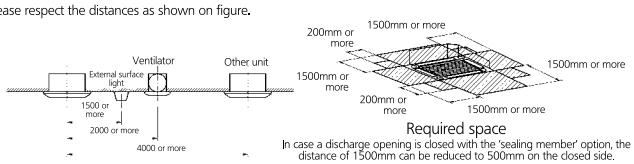
1 Liquid pipe connection
2 Gas pipe connection
3 Drain pipe connection
4 Power supply entry hole
5 Transmission wiring entry hole
6 Air discharge opening
7 Air suction grille
8 Corner decoration cover
9 Drain hose
10 Knock out hole

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

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.
6. In case of using a infrared controller, this position will be a receiver, refer to the drawing of the infrared controller for more detail.

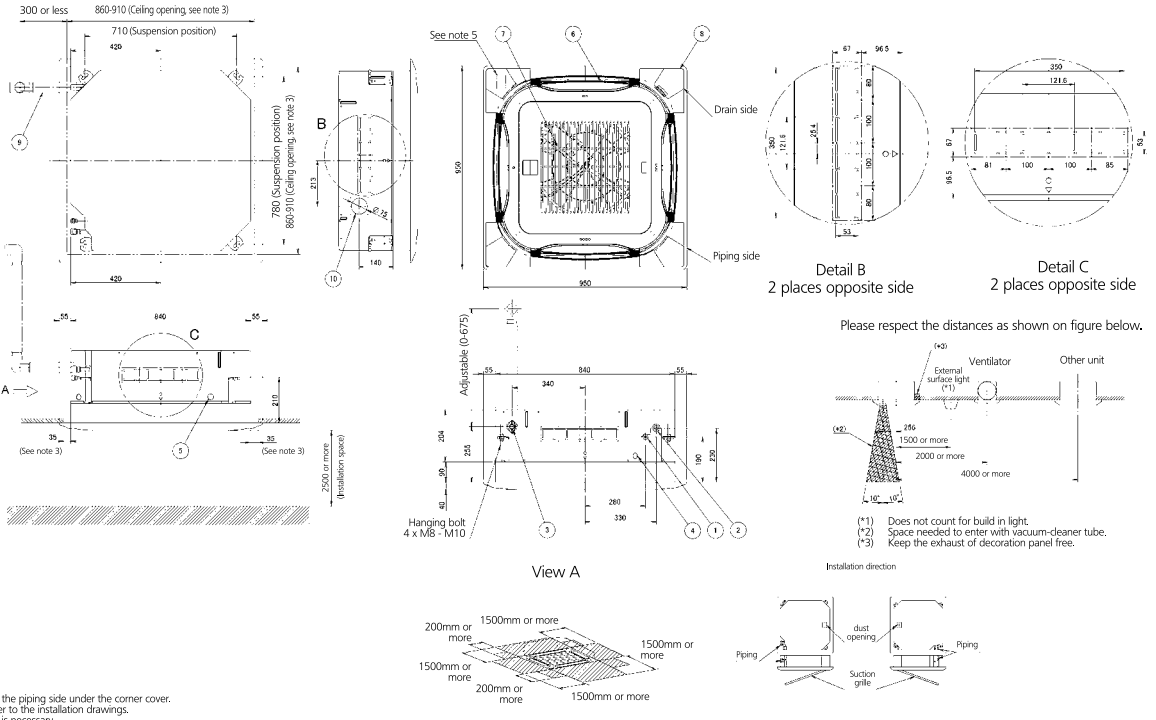
Please respect the distances as shown on figure.



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.

3D077130D

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

Notes:

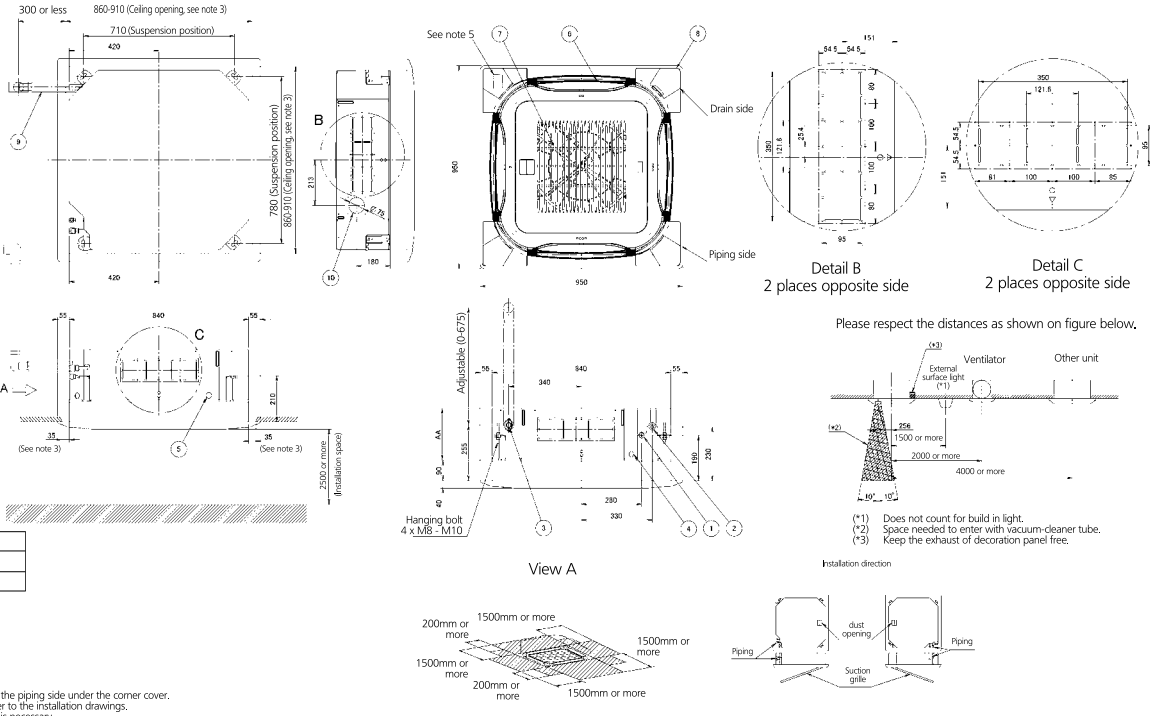
1. Location of the nameplates:
   - Unit body: on the control box cover.
   - Decoration panel: on the panel frame at the piping side under the corner cover.
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary.
3. 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

Notes:

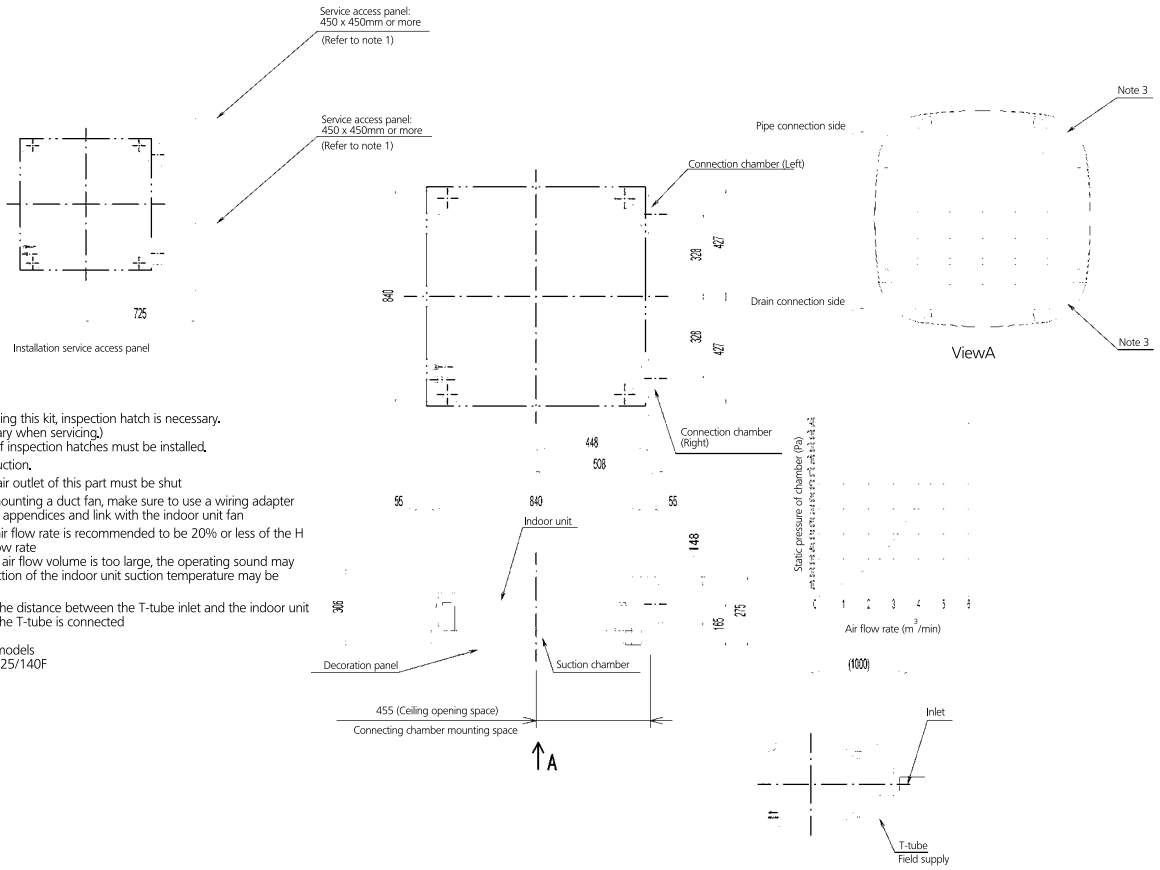
1. Location of the nameplates:
   - Unit body: on the control box cover.
   - Decoration panel: on the panel frame at the piping side under the corner cover.
2. When installing an optional accessory, refer to the installation drawings.
   - For fresh air intake kit an inspection part is necessary.
3. 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



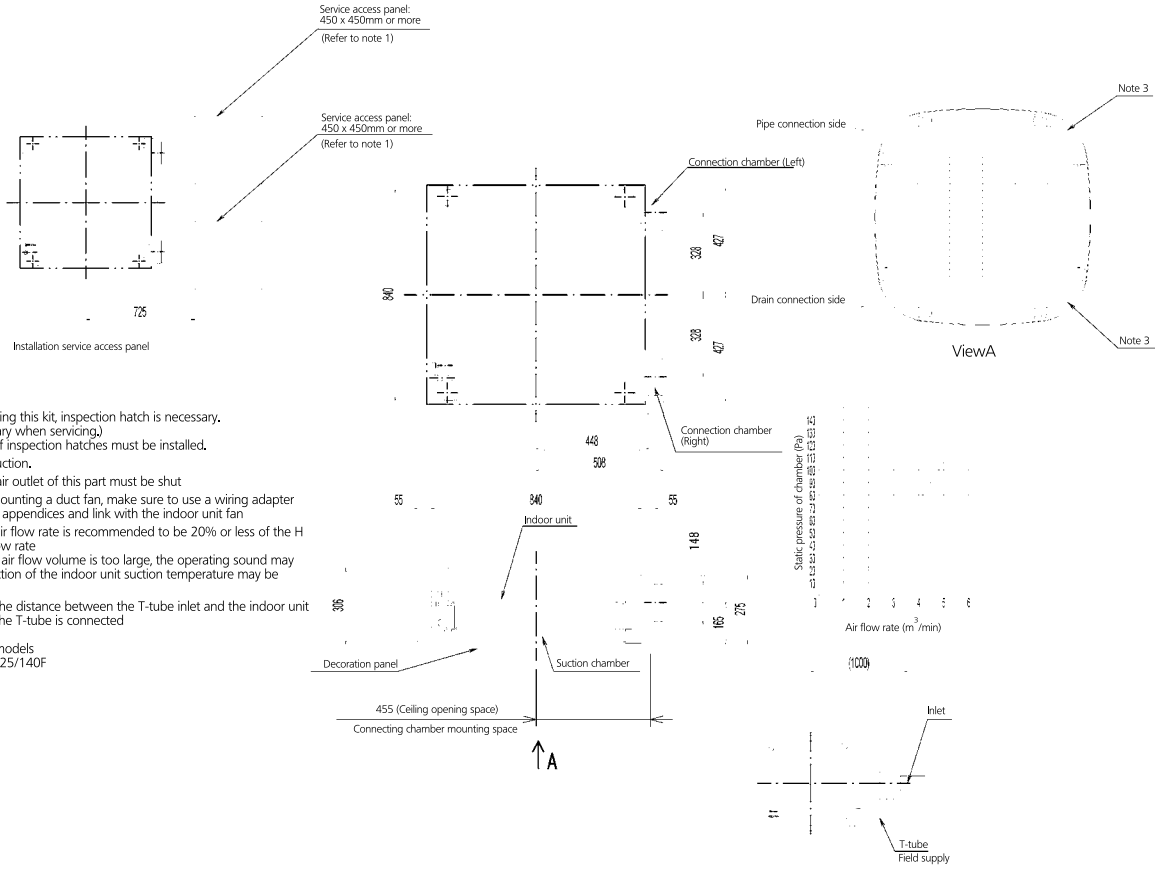
Note:

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
   FCQG100/125/140F

3D082218

FCQG100-140F



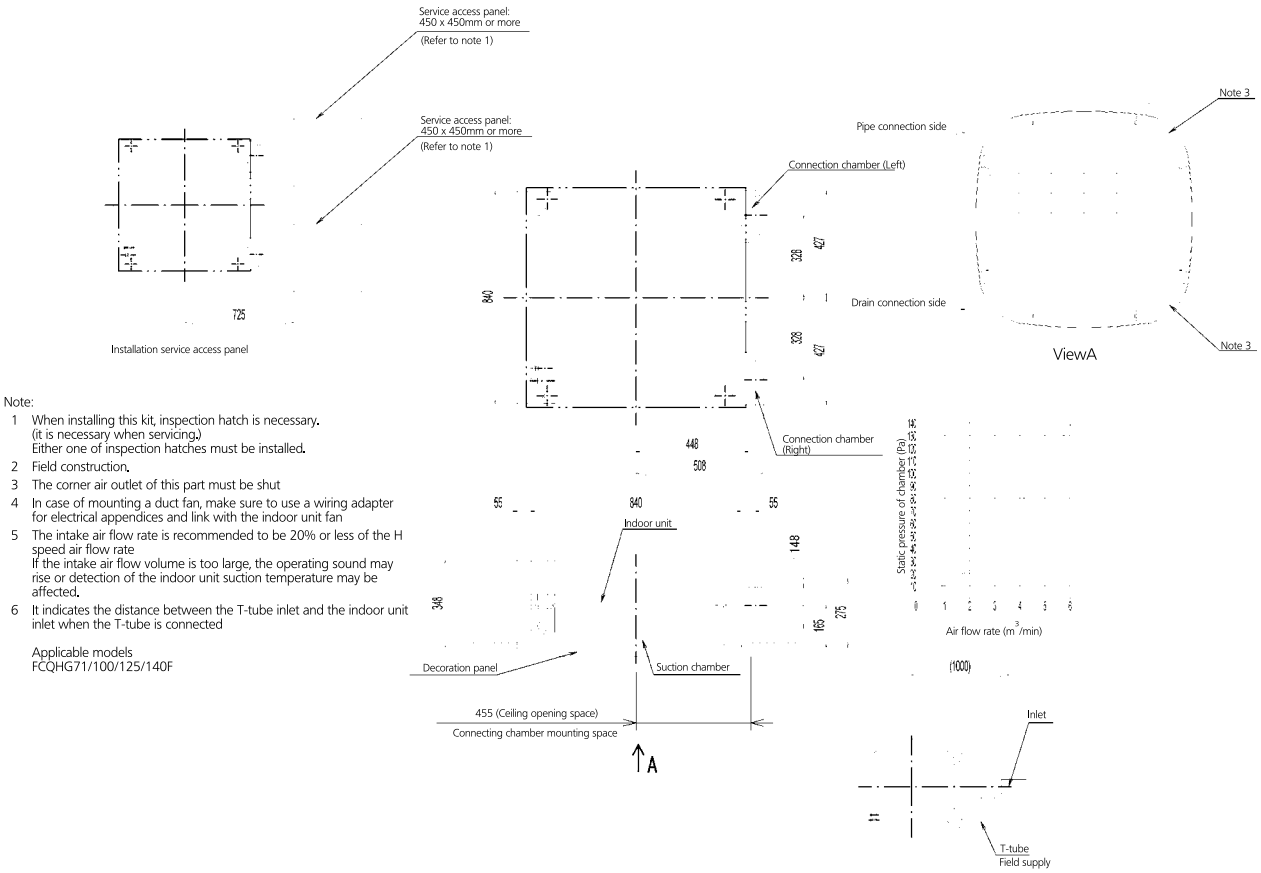
Note:

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
   FCQG100/125/140F

3D082218

FCQHG-F



Note:

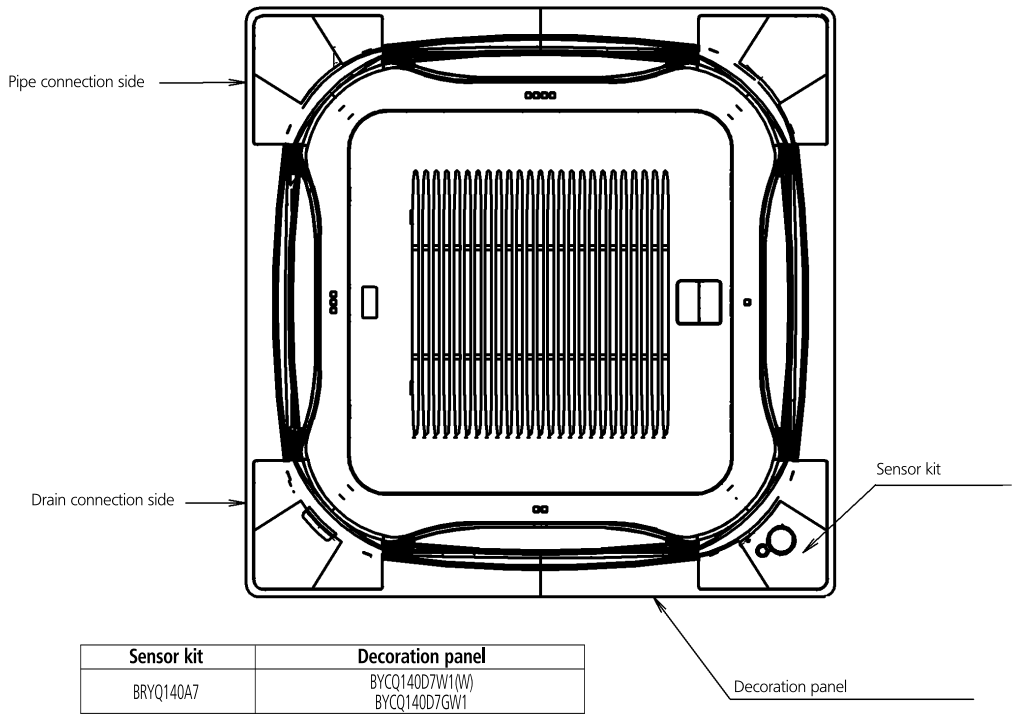
1 When installing this kit, inspection hatch is necessary. (it is necessary when servicing.) Either one of inspection hatches must be installed.
2 Field construction.
3 The corner air outlet of this part must be shut
4 In case of mounting a duct fan, make sure to use a wiring adapter for electrical appendices 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

ARGUE CARDS

FFQ-C

universal design award 2014

Fully Flat Cassette

Design & Genius in one

Why choose fully flat cassette

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

Check on

YouTube

https://www.youtube.com/DaikinEurope

Benefits for the installer

› Unique product in the market!
› Most silent unit
› 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 taste.

Benefits for the consultant

› Unique product in the market!
› Blends seamlessly in any modern office interior design
› Ideal product to improve BREEAM score/EPDB in combination with Sky Air Seasonal Smart or VRV IV heat pump units.

Benefits for the end user

› Engineering excellence and unique design in one
› Most silent unit
› Perfect working conditions: no more cold draughts or cold feet
› Save up to 27% on your energy bill thanks to the optional sensors
› Flexible usage of space thanks to individual flap control
› User-friendly remote control, available in several languages.

Unique design

› Designed by German 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.

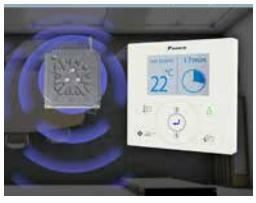
Optional floor sensor

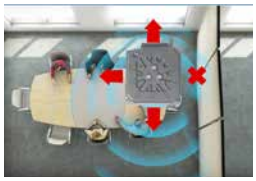
› Detects the temperature difference and re-directs the airflow to ensure even temperature distribution.

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





Other features

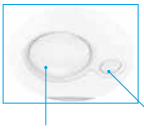
› Most silent cassette in the market (25dBA), important for office applications.

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

- Remarkable blend of iconic design and engineering excellence
- Flexibility to suit every room layout without changing the location of the unit!
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Two optional intelligent sensors improve energy efficiency and comfort.



presence sensor

floor sensor

FFQ-C

RXS-L3

BRC1E52A-B, BRC7F530W_S

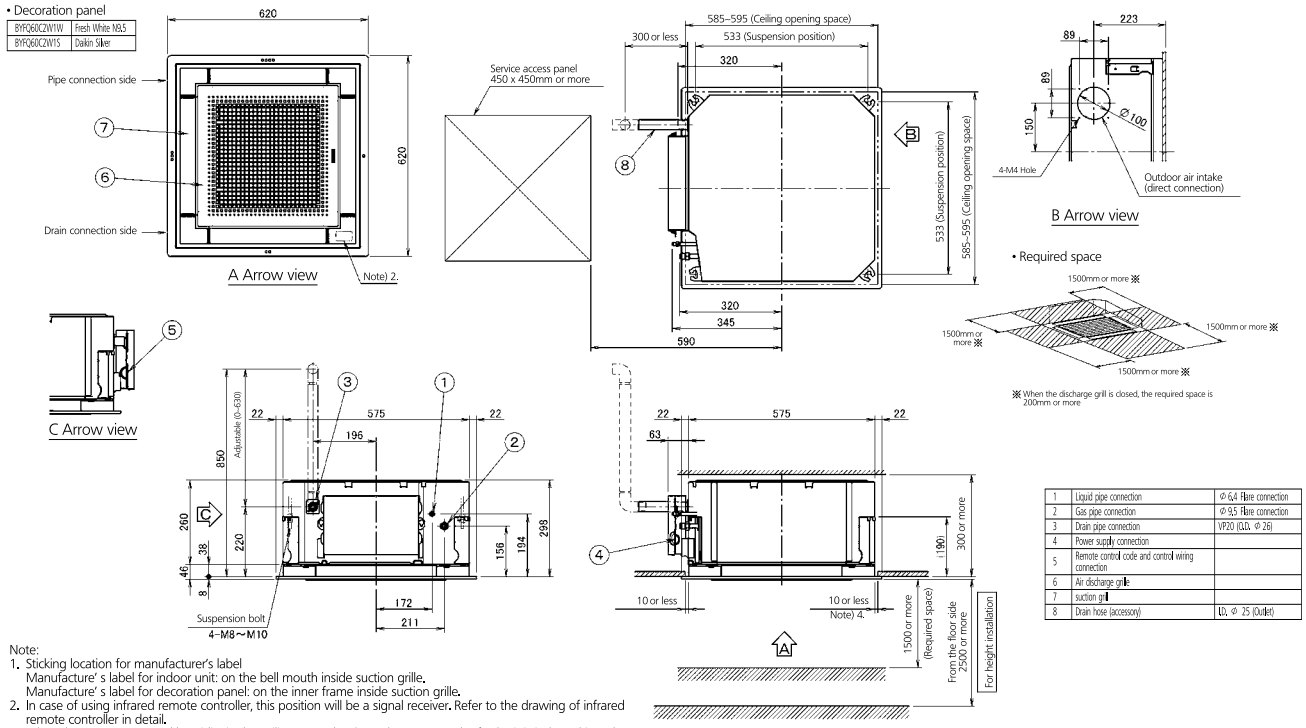
Efficiency data				FFQ + RXS	25C + 25L3	35C + 35L3	50C + 50L	60C + 60L
Cooling capacity	Min./Nom./Max.			kW	1.4/2.5/4.0	1.4/3.4/4.0	1.7/5.0/5.3	1.7/5.7/6.5
Heating capacity	Min./Nom./Max.			kW	1.3/3.2/5.1	1.3/4.2/5.1	1.7/5.8/6.0	1.7/7.0/8.0
Power input	Cooling	Nom.		kW	0.55	0.9	1.560	1.890
	Heating	Nom.		kW	0.82	1.2	1.660	2.050
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		A+	
		Pdesign		kW	2.50	3.4	5.00	5.70
		SEER			6.11	6.32	5.93	5.71
		Annual energy consumption		kWh	143	188	295	349
	Heating (Average climate)	Energy label			A+		A	A+
		Pdesign		kW	2.31	3.1	3.84	3.96
		SCOP			4.24	4.1	3.90	4.04
		Annual energy consumption		kWh	763	1,059	1,378	1,373
Nominal efficiency	EER				4.53	3.78	3.21	3.02
	COP				3.9	3.5	3.49	3.41
	Annual energy consumption			kWh	276	450	780	945
	Energy label	Cooling			A		A	B
		Heating			A	B	B	B

Indoor unit				FFQ	25C	35C	50C	60C
Dimensions	Unit	HeightxWidthxDepth		mm	260x575x575			
Weight	Unit			kg	16		17.5	
Decoration panel	Model				BYFQ60CW / BYFQ60CS / BYFQ60B3W1			
	Colour				White (N9.5) / White (N9.5) + Silver / White (RAL9010)			
	Dimensions	HeightxWidthxDepth		mm	46x620x620 / 46x620x620 / 55x700x700			
	Weight			kg	2.8 / 2.8 / 2.7			
Air filter	Type				Resin net with mold resistance			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	9/8/6.5	10/8.5/6.5	12/10/7.5	14.5/12.5/9.5
	Heating	High/Nom./Low		m^3/min	9/8/6.5	10/8.5/6.5	12/10/7.5	14.5/12.5/9.5
Sound power level	Cooling			dBA	48	51	56	60
Sound pressure level	Cooling	High/Nom./Low		dBA	31/28.5/25	34/30.5/25	39/34/27	43/40/32
	Heating	High/Nom./Low		dBA	31/28.5/25	34/30.5/25	39/34/27	43/40/32
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			
Control systems	Infrared remote control				BRC7EB530 (standard panel) / BRC7F530W (white panel) / BRC7F530S (grey panel)			
	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit				RXS	25L3	35L3	50L	60L
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x825x300	
Weight	Unit			kg	34		47	48
Sound power level	Cooling			dBA	59	61	62	
	Heating			dBA	59	61	62	
Sound pressure level	Cooling	High/Low		dBA	46/43	48/44		49/46
	Heating	High/Low		dBA	47/44	48/45		49/46
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46			
	Heating	Ambient	Min.~Max.	°CWB	-15~18			
Refrigerant	Type/Charge/GWP			kg	R-410A / 1 / 2,087.5	R-410A / 1.2 / 2,087.5	R-410A / 1.7 / 2,087.5	R-410A / 1.5 / 2,087.5
	Charge			TCO_2Eq	2.09	2.51	3.5	3.1
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.5		12.7	
	Piping length	OU - IU	Max.	m	20		30	
	Additional refrigerant charge			kg/m	0.020 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-230-240			
Current - 50Hz	Maximum fuse amps (MFA)			A	-		-	

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

FFQ25-35C

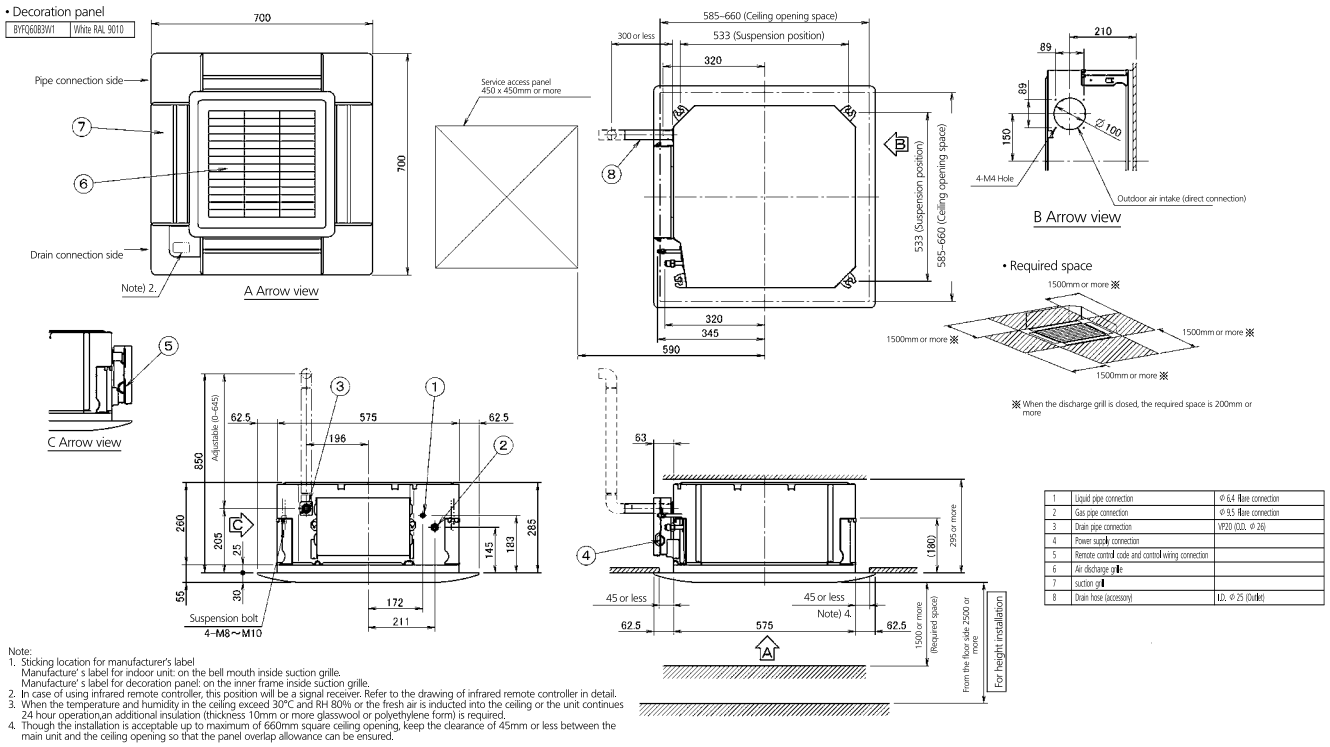


1	Liquid pipe connection	Φ 6.4 Flare connection
2	Gas pipe connection	Φ 9.5 Flare connection
3	Drain pipe connection	VP20 (I.D. Φ 26)
4	Power supply connection	
5	Remote control code and control wiring connection	
6	Air discharge grille	
7	suction grill	
8	Drain hose (accessory)	I.D. Φ 25 (Outlet)

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

Siesta

4-way blow ceiling mounted cassette

Solution addressing the primary needs of small shops

- Ideal solution for busy retail and business environments and small shops
- Improved energy efficiency: up to A+ energy labels
- Robust design and body quality
- Easier installation and maintenance thanks to improved body structure
- Air can be discharged in of 4 directions
- Air filter removes airborne dust particles to ensure a steady supply of clean air
- Control several indoor units at the same time via the Siesta Sky Air group control (optional)
- Standard drain pump
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Exclusively offered for pair applications

ACQ125D

AZQS140B8V1/BY1

ARCWLA

Efficiency data				ACQ + AZQS	71D + 71B2V1	100D + 100B8V1	125D + 125B8V1	140D + 140B8V1	100D + 100BY1	125D + 125BY1	140D + 140BY1
Cooling capacity	Nom.			kW	6.8	9.5	12.1	13.0	9.5	12.1	13.0
Heating capacity	Nom.			kW	7.50	10.80	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.05	2.96	3.90	4.05	2.96	3.90	4.05
	Heating	Nom.		kW	2.08	2.99	3.74	4.29	2.99	3.74	4.29
Seasonal efficiency (according to EN14825)	Cooling	Energy label			B	A	-		A	-	
		Pdesign		kW	6.80	9.50	-		9.50	-	
		SEER			4.65	5.50	-		5.50	-	
		Annual energy consumption		kWh	512	605	-		605	-	
	Heating (Average climate)	Energy label			A		-		A	-	
		Pdesign		kW	6.33	7.60	-		7.60	-	
		SCOP			3.80	3.85	-		3.85	-	
		Annual energy consumption		kWh	2,332	2,762	-		2,762	-	
Nominal efficiency	EER				3.31	3.21	3.10	3.21		3.10	3.21
	COP				3.61						
	Annual energy consumption			kWh	1,025	1,480	1,952	2,025	1,480	1,952	2,025
	Energy label	Cooling/Heating			A/A		B/A	A/A		B/A	A/A

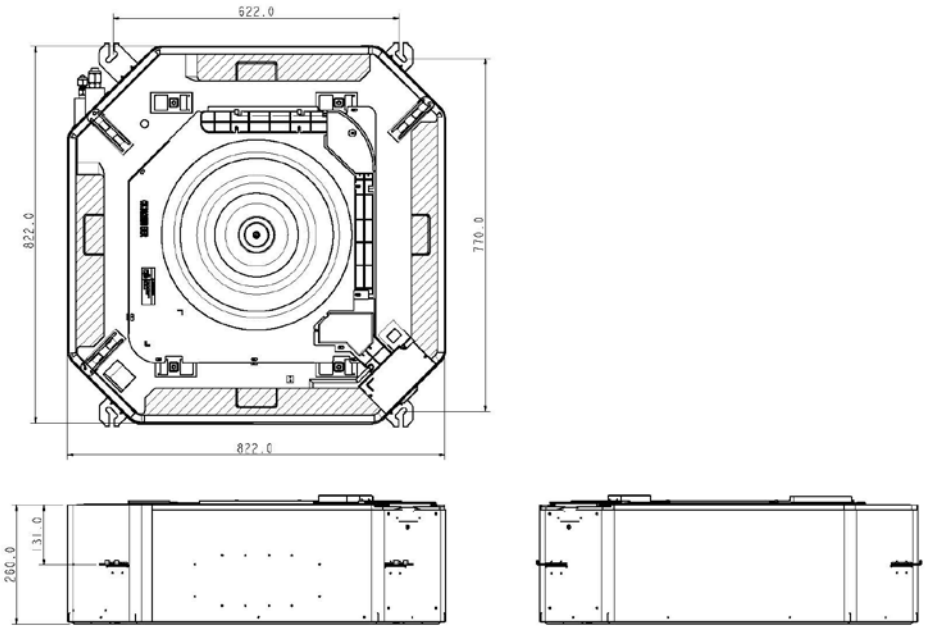
Indoor unit				ACQ	71D	100D	125D	140D	100D	125D	140D
Dimensions	Unit	HeightxWidthxDepth		mm	265x820x820	300x820x820					
Weight	Unit			kg	31	39					
Decoration panel	Colour				White						
	Dimensions	HeightxWidthxDepth		mm	82x990x990						
	Weight			kg	4						
Air filter	Type				Removable / washable						
Fan - Air flow rate	Cooling	High/Nom./Low/Silent operation		m^3/min	24.4/20.5/17.6/15.0	29.2/24.4/21.0/17.6	34.0/29.2/26.3/22.1		29.2/24.4/21.0/17.6	34.0/29.2/26.3/22.1	
	Heating	High/Nom./Low/Silent operation		m^3/min	24.4/20.5/17.6/15.0	29.2/24.4/21.0/17.6	34.0/29.2/26.3/22.1		29.2/24.4/21.0/17.6	34.0/29.2/26.3/22.1	
Sound power level	Cooling			dBA	54	56	60		56	60	
	Heating			dBA	54	56	60		56	60	
Sound pressure level	Cooling	High/Nom./Low/Silent operation		dBA	41/38/35/32	44/41/38/36	47/44/43/41		44/41/38/36	47/44/43/41	
	Heating	High/Nom./Low/Silent operation		dBA	41/38/35/32	44/41/38/36	47/44/43/41		44/41/38/36	47/44/43/41	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240						
Control systems	Infrared remote control				ARCWLA						

Outdoor unit				AZQS	71B2V1	100B8V1	125B8V1	100BY1	125BY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320			
Weight	Unit			kg	67	81		82	
Sound power level	Cooling			dBA	65	70	71	70	71
Sound pressure level	Cooling	Nom./Silent operation		dBA	48/43	53/-	54/-	53/-	54/-
	Heating	Nom.		dBA	50	57	58	57	58
	Night quiet mode	Level 1		dBA	-	49			
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~46				
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5				
Refrigerant	Type/Charge/GWP			kg	R-410A / 2.75 / 2,087.5	R-410A / 2.9 / 2,087.5			
	Charge			TCO_2Eq	5.7	6.1			
Piping connections	Liquid	OD		mm	9.52				
	Gas	OD		mm	15.9				
	Piping length	OU - IU	Max.	m	30	50			
		System	Equivalent	m	40	70			
			Chargeless	m	30				
	Additional refrigerant charge			kg/m	See installation manual				
	Level difference	IU - OU	Max.	m	15.0	30.0			
		IU - IU	Max.	m	-	0.5			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			3N~ / 50 / 380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-			

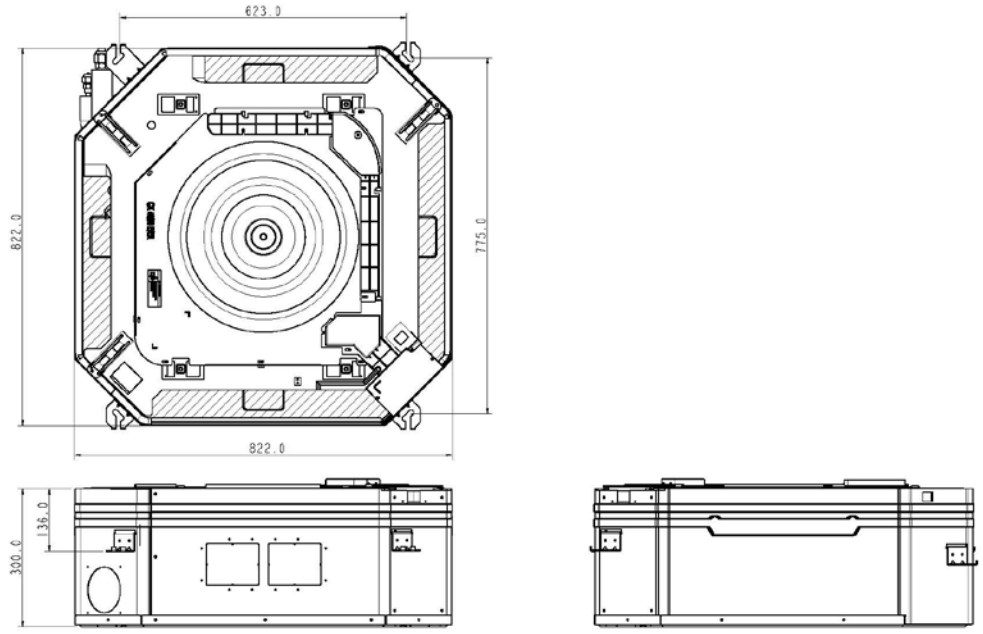
*Note: blue cells contain preliminary data

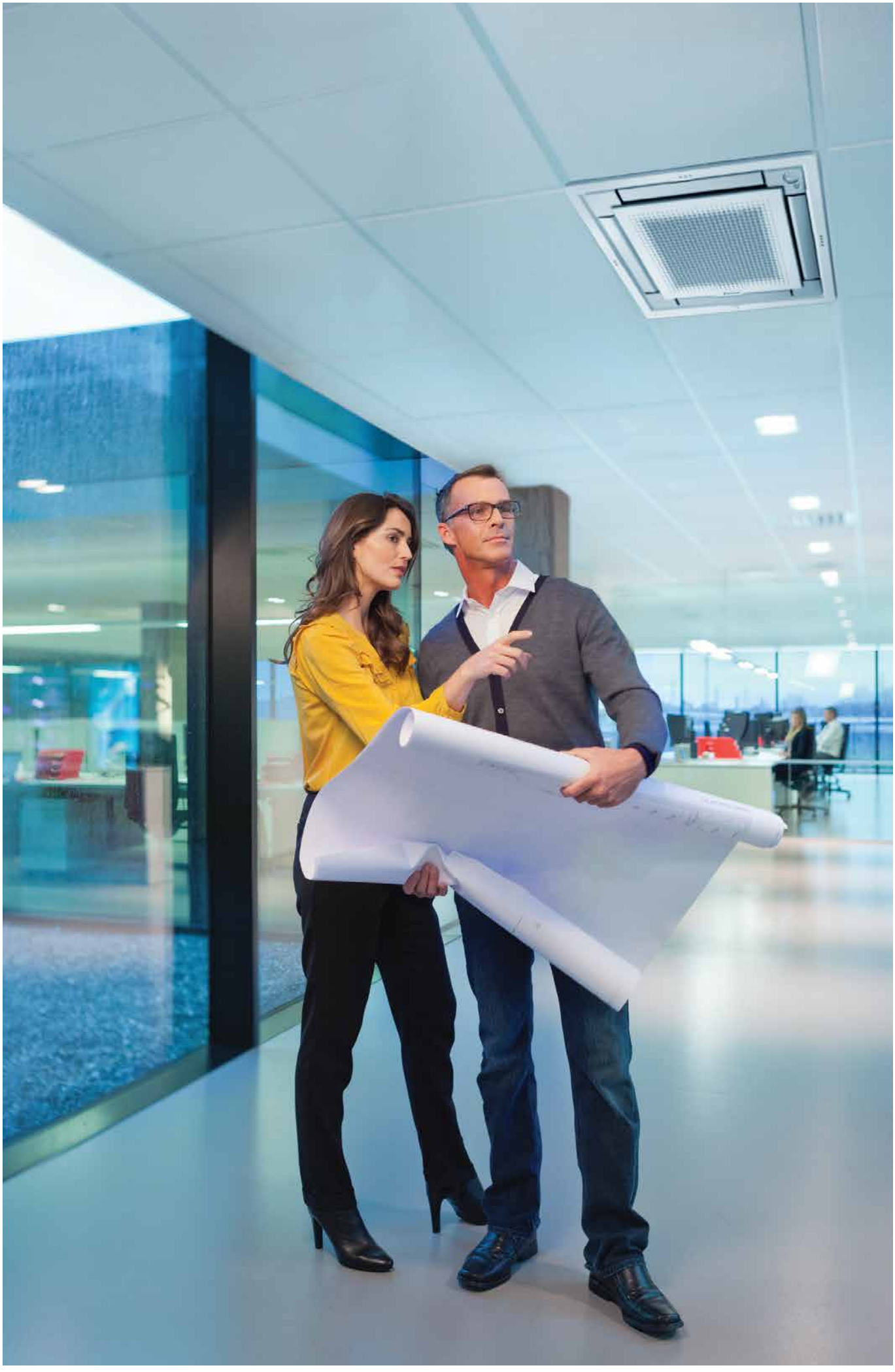
(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

ACQ71D



ACQ100/125/140D





Small concealed ceiling unit

Designed for hotel applications

- Compact unit (230mm high & 652mm deep), can easily be mounted in narrow ceiling voids
- Discretely 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

FDBQ25B

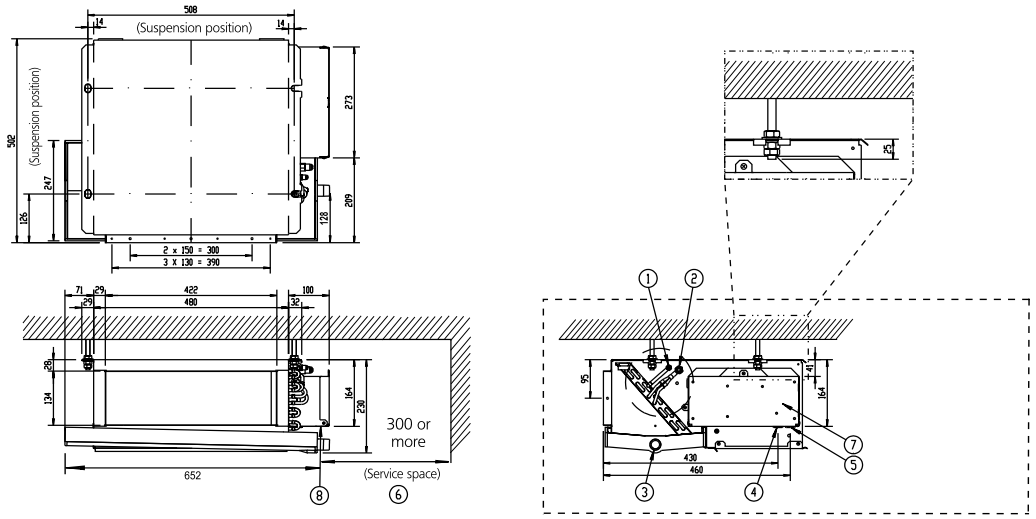
BRC1E52A/B

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
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 230
Control systems	Wired remote control				BRC1D52 / BRC1E52A/B

Outdoor unit					
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/GWP			kg	
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	

FDBQ25B

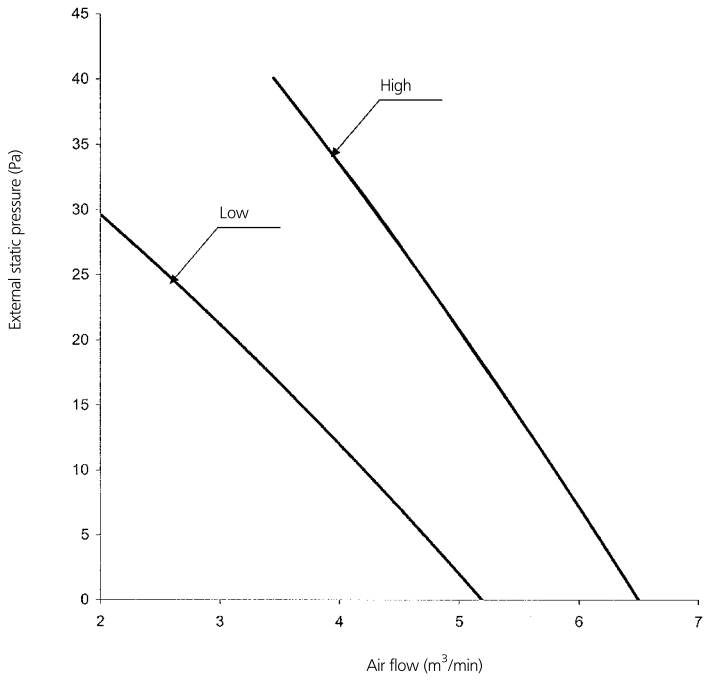
unit (mm)



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



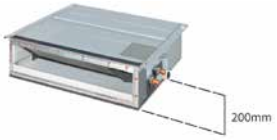
Note: The wired remote control can be used to switch between 'high' and 'low'

4TW25858-1

Concealed ceiling unit

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

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



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

FDXS25-35F

RXS25-35L3

BRC1E52A

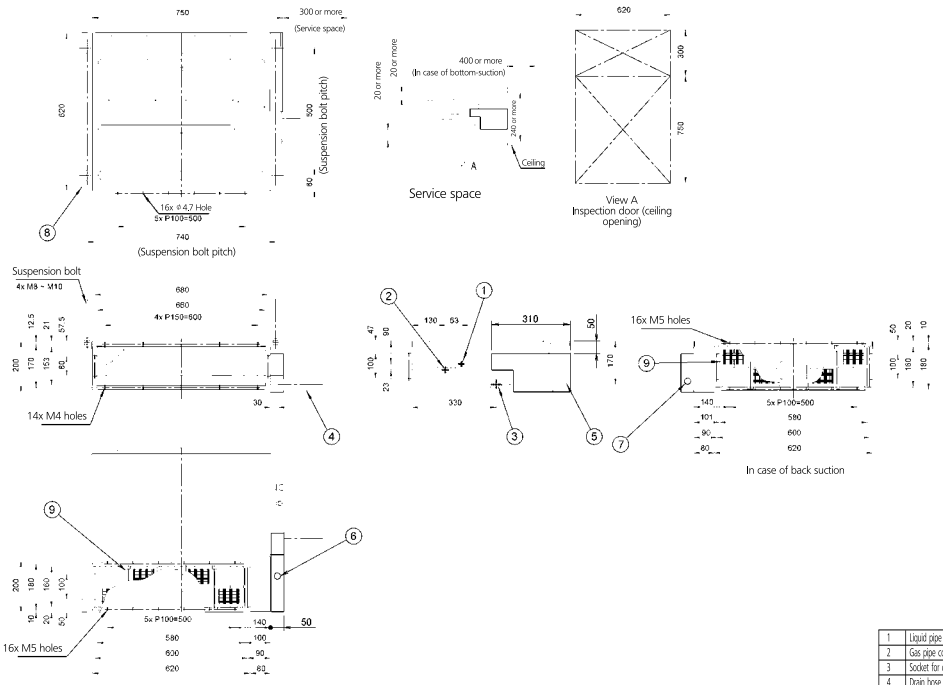
Efficiency data				FDXS + RXS	25F + 25L3	35F + 35L3	50F9 + 50L	60F + 60L
Cooling capacity	Min./Nom./Max.			kW	1.3/2.4/3.0	1.4/3.4/3.8	1.7/5.0/5.3	1.7/6.0/6.5
Heating capacity	Min./Nom./Max.			kW	1.3/3.2/4.5	1.4/4.0/5.0	1.7/5.8/6.0	1.7/7.0/8.0
Power input	Cooling	Nom.		kW	0.64	3.4	1.65	2.06
	Heating	Nom.		kW	0.8	4.0	1.87	2.18
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+	A	A+	A
		Pdesign		kW	3.5	3.40	5.00	6.00
		SEER			5.97	5.21	5.72	5.51
		Annual energy consumption		kWh	205	228	306	381
	Heating (Average climate)	Energy label			A+	A	A	
		Pdesign		kW	2.9	2.9	4.00	4.60
		SCOP			3.93	3.88	3.93	3.80
		Annual energy consumption		kWh	1,033	1,047	1,425	1,693
Nominal efficiency	EER				3.74	2.96	3.03	2.91
	COP				4	3.48	3.10	3.21
	Annual energy consumption			kWh	321	574	825	1,030
	Energy label	Cooling			A	C	B	C
		Heating			A	B	D	C

Indoor unit				FDXS	25F	35F	50F9	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/min	8.7/8.7/7.3		12.0/11.0/10.0	16.0/16.0/13.5
	Heating	High/Nom./Low		m^3/min	8.7/8.0/7.3		16.0/14.8/13.5	
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	
	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	Wired remote control				BRC1E52A/B			

Outdoor unit				RXS	25L3	35L3	50L	60L
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x825x300	
Weight	Unit			kg	34		47	48
Sound power level	Cooling			dBA	59	61	62	
	Heating			dBA	59	61	62	
Sound pressure level	Cooling	High/Low		dBA	46/43	48/44	48/44	49/46
	Heating	High/Low		dBA	47/44	48/45	48/45	49/46
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46		-10~46	
	Heating	Ambient	Min.~Max.	°CWB	-15~18		-15~18	
Refrigerant	Type/Charge/GWP			kg	R-410A / 1 / 2,087.5	R-410A / 1.2 / 2,087.5	R-410A / 1 .7 / 2,087.5	R-410A / 1 .5 / 2,087.5
	Charge			TCO_2Eq	2.09	2.51	3.5	3.1
Piping connections	Liquid	OD		mm	6.4		6.35	
	Gas	OD		mm	9.5		12.7	
	Piping length	OU - IU	Max.	m	20		30	
	Additional refrigerant charge			kg/m	0.020 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		1~ / 50 /220-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	-		-	

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

FDXS25-35F

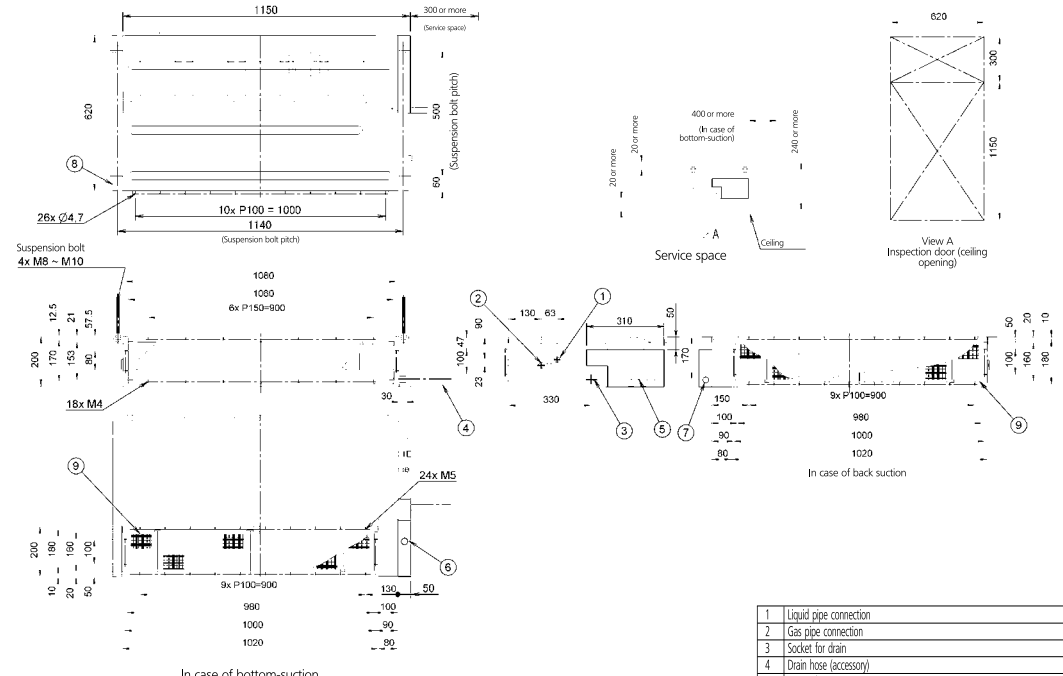


1	Liquid pipe connection	Φ 6,4 Flare connection
2	Gas pipe connection	Φ 9,5 Flare connection
3	Socket for drain	VP 20 (OD Φ 26, ID Φ 20)
4	Drain hose (accessory)	ID Φ 25 (Outlet)
5	control box	
6	Transmission wring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

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

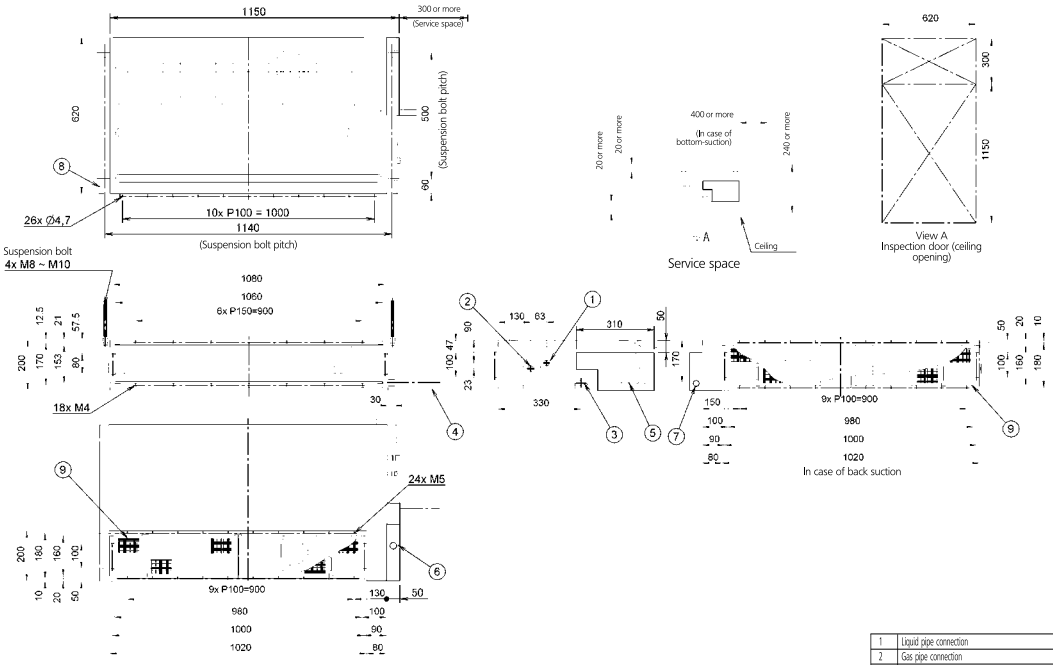


1	Liquid pipe connection	Φ 6,4 Flare connection
2	Gas pipe connection	Φ 12,7 Flare connection
3	Socket for drain	VP 20 (OD Φ 26, ID Φ 20)
4	Drain hose (accessory)	ID Φ 25 (Outlet)
5	control box	
6	Transmission wring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

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

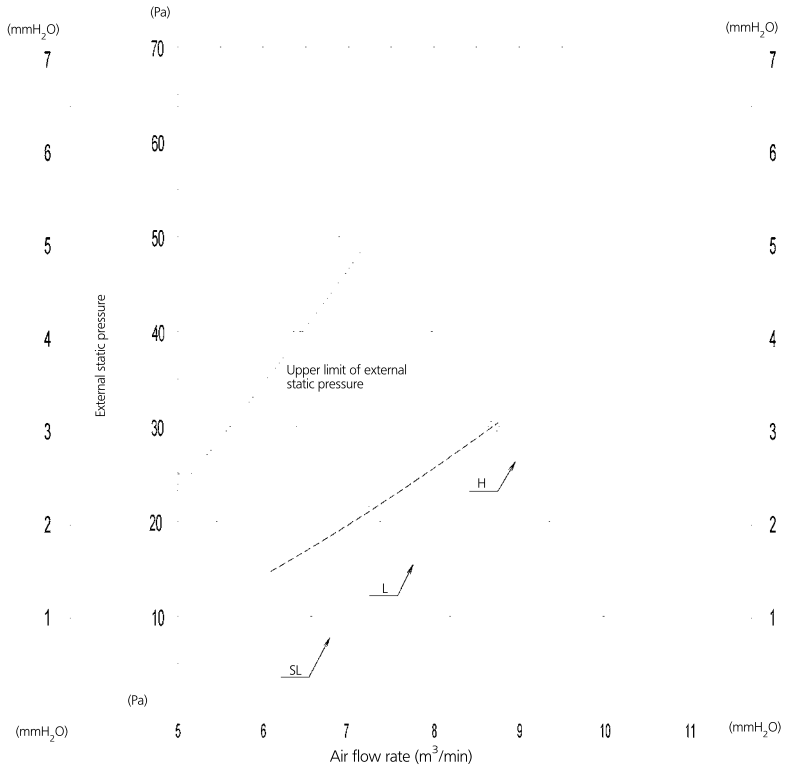


1	Liquid pipe connection	Φ 6,4 Flare connection
2	Gas pipe connection	Φ 12,7 Flare connection
3	Socket for drain	VP 20 (OD Φ 26, ID Φ 20)
4	Drain hose (accessory)	ID Φ 25 (Outlet)
5	control box	
6	Transmission wring	
7	Power supply connection	
8	Suspension bracket	
9	Air filter (accessory)	

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.

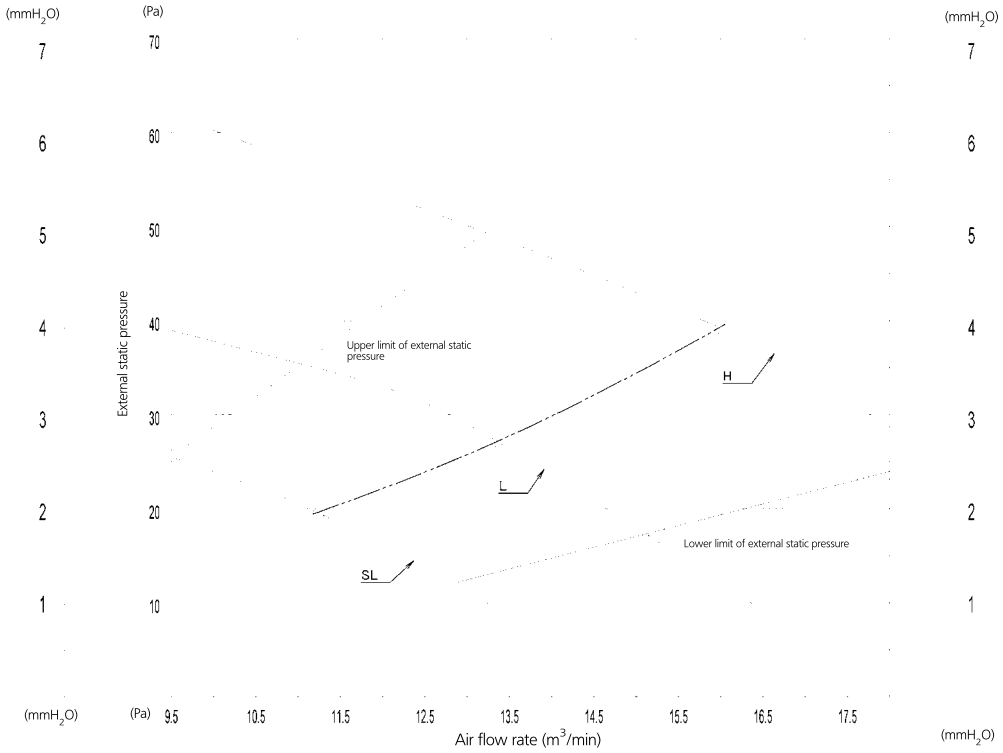
3D081360

FDXS25-35F



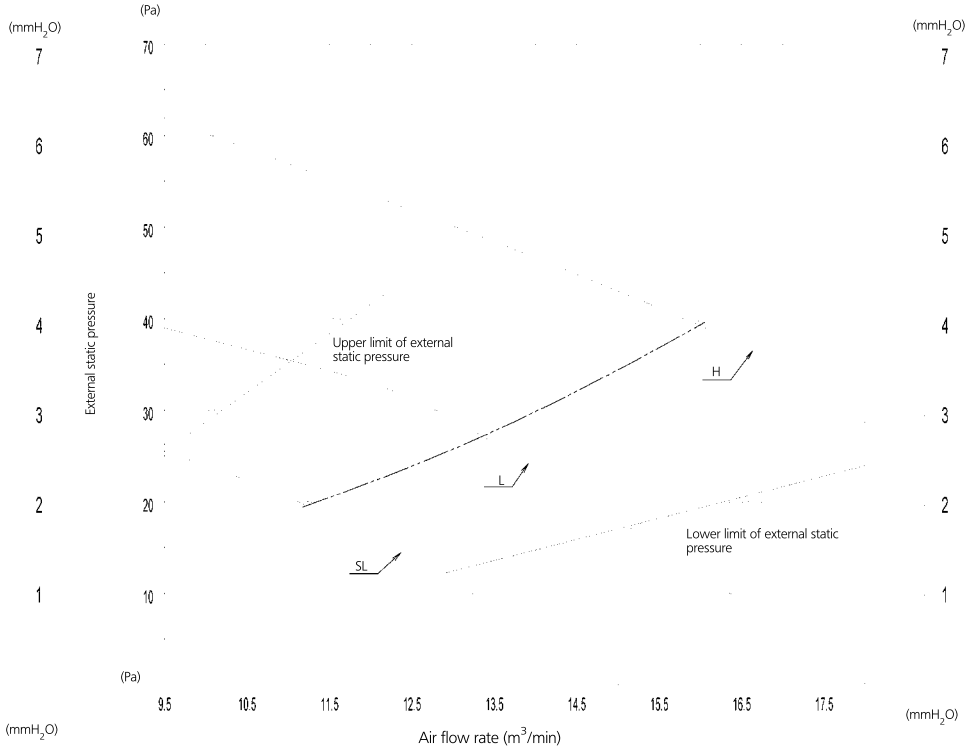
3D081327

FDXS50F9



3D085960

FDXS60F



3D081329

Seasonal Classic

Concealed ceiling unit with medium ESP

Optimum comfort guaranteed no matter the length of duct work or type of grilles

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

- Top efficiency in the market
- Compact unit can easily be mounted in a ceiling void of only 285mm, leaving only suction and discharge grilles visible
- Sound levels lower than 29dBA
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- 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

FBQ-D

RZQG140L9V1/L(8)Y1

BRC1E52A-B,BRC4C65

Efficiency data				FBQ + RZQSG	*71D + 71L3V1	*100D + 100L9V1	*125D + 125L9V1	*140D + 140L9V1	*100D + 100L8Y1	*125D + 125L8Y1	*140D + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.06	2.84	3.72	4.38	2.84	3.72	4.38
	Heating	Nom.		kW	1.97	2.94	3.85	4.55	2.94	3.85	4.55
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+	A		-	A		-
		Pdesign		kW	6.80	9.50	12.00	-	9.50	12.00	-
		SEER			5.84	5.57	5.22	-	5.57	5.22	-
		Annual energy consumption		kWh	408	597	805	-	597	805	-
	Heating (Average climate)	Energy label			A+		A	-	A+	A	-
		Pdesign		kW	6.00	11.30	12.70	-	11.30	12.70	-
		SCOP			4.10	4.15	4.05	-	4.15	4.05	-
		Annual energy consumption		kWh	2,049	3,812	4,390	-	3,812	4,390	-
Nominal efficiency	EER				3.30	3.35	3.23	3.06	3.35	3.23	3.06
	COP				3.81	3.67	3.51	3.41	3.67	3.51	3.41
	Annual energy consumption			kWh	1,030	1,418	1,858	2,190	1,418	1,858	2,190
	Energy label	Cooling			A			-	A		-
		Heating			A		B	-	A	B	-

Indoor unit				FBQ	71D	100D	125D	140D
Dimensions	Unit	HeightxWidthxDepth		mm	245x1,000x800	245x1,400x800		
Weight	Unit			kg	35	46		
Fan - Air flow rate	Cooling	High/Medium/Low		m^3/min	18/15/12.5	29/26/23	34/29/23.5	
Fan - External static pressure	High/Nom.			Pa	150/30	150/40	150/50	
Sound power level	Cooling			dBA	56	58	62	
Sound pressure level	Cooling	High/Medium/Low		dBA	30/28/25	34/32/30	37/35/32	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240			

Outdoor unit				RZQSG	71L3V1	100L9V1	125L9V1	140L9V1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	77		99	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge/GWP			kg	R-410A / 2.75 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5
	Charge			TCO_2Eq	5.7	6.1		8.4	6.1		8.4
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
		IU - IU	Max.	m	0.5						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-			20		

*Note: blue cells contain preliminary data

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

Seasonal Smart

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

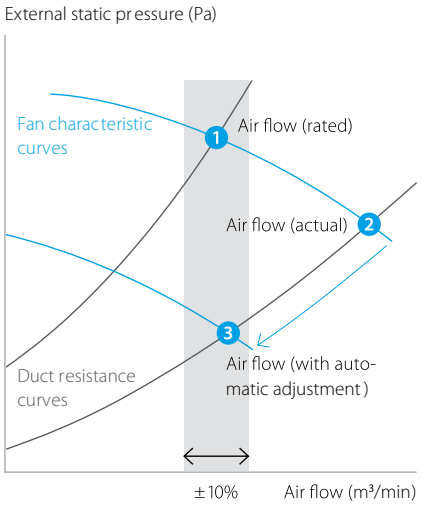
Automatic Airflow Adjustment function

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 → 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



Efficiency data				FBQ + RZQG	*71D + 71L9V1	*100D + 100L9V1	*125D + 125L9V1	*140D + 140L9V1	*71D + 71L8Y1	*100D + 100L8Y1	*125D + 125L8Y1	*140D + 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	1.93	2.41	3.13	4.00	1.93	2.41	3.13	4.00
	Heating	Nom.		kW	1.89	2.55	3.52	4.29	1.89	2.55	3.52	4.29
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A+		-	A++	A+		-
		Pdesign		kW	6.80	9.50	12.00	-	6.80	9.50	12.00	-
		SEER			6.16	5.87	5.83	-	6.16	5.87	5.83	-
		Annual energy consumption		kWh	386	566	720	-	386	566	720	-
	Heating (Average climate)	Energy label			A+	A++	A+	-	A+	A++	A+	-
		Pdesign		kW	6.00	11.30	12.70	-	6.00	11.30	12.70	-
		SCOP			4.35	4.78	4.37	-	4.35	4.78	4.37	-
		Annual energy consumption		kWh	1,931	3,310	4,069	-	1,931	3,310	4,069	-
Nominal efficiency	EER				3.53	3.94	3.83	3.35	3.53	3.94	3.83	3.35
	COP				3.96	4.24	3.83	3.61	3.96	4.24	3.83	3.61
	Annual energy consumption			kWh	963	1,206	1,567	2,000	963	1,206	1,567	2,000
	Energy label	Cooling			A			-	A			-
		Heating			A			-	A			-

Indoor unit				FBQ	71D	100D	125D	140D
Dimensions	Unit	HeightxWidthxDepth		mm	245x1,000x800	245x1,400x800		
Weight	Unit			kg	35	46		
Fan - Air flow rate	Cooling	High/Medium/Low		m³/min	18/15/12.5	29/26/23	34/29/23.5	
Fan - External static pressure	High/Nom.			Pa	150/30	150/40	150/50	
Sound power level	Cooling			dBA	56	58	62	
Sound pressure level	Cooling	High/Medium/Low		dBA	30/28/25	34/32/30	37/35/32	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 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	77	99			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/GWP			kg	R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5			R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5		
	Charge			TCO_2Eq	6.1	8.4			6.1	8.4		
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							
		IU - IU	Max.	m	0.5							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	-				16	25		

*Note: blue cells contain preliminary data

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

No detailed technical drawings available yet

Concealed ceiling unit with medium ESP

Optimum comfort guaranteed no matter the length of duct work or type of grilles

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

- Top efficiency in the market
- 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 optimize the supply air volume
- Slimmest unit in class, only 245mm
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Low sound levels
- Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths

FBQ-D

RXS35L3

BRC1E52A-B,BRC4C65

- 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.

Efficiency data				FBQ + RXS	*35D + 35L3	*50D + 50L	*60D + 60L
Cooling capacity	Nom.			kW	3.40	-	
Heating capacity	Nom.			kW	4.00	-	
Power input	Cooling	Nom.		kW	1.060	-	
	Heating	Nom.		kW	1.110	-	
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+	-	
		Pdesign		kW	3.4	-	
		SEER			5.97	-	
		Annual energy consumption		kWh	199	-	
	Heating (Average climate)	Energy label			A+	-	
		Pdesign		kW	2.9	-	
		SCOP			3.93	-	
		Annual energy consumption		kWh	1,033	-	
Nominal efficiency	EER				3.21	-	
	COP				3.60	-	
	Annual energy consumption			kWh	530	-	
	Energy label	Cooling			A	-	
		Heating			B	-	

Indoor unit				FBQ	35D	50D	60D
Dimensions	Unit	HeightxWidthxDepth		mm	245x700x800		245x1,000x800
Weight	Unit			kg	28		35
Fan - Air flow rate	Cooling	High/Medium/Low		m^3/min	15/12.5/10.5		18/15/12.5
Fan - External static pressure	High/Nom.			Pa	150/30		
Sound power level	Cooling			dBA	60		56
Sound pressure level	Cooling	High/Medium/Low		dBA	35/32/29		30/28/25
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240		

Outdoor unit				RXS	35L3	50L	60L
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285	735x825x300	
Weight	Unit			kg	34	47	48
Sound power level	Cooling			dBA	61	62	
	Heating			dBA	61	62	
Sound pressure level	Cooling	High/Low		dBA	48/44	48/44	49/46
	Heating	High/Low		dBA	48/45	48/45	49/46
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46	-10~46	
	Heating	Ambient	Min.~Max.	°CWB	-15~18	-15~18	
Refrigerant	Type/Charge/GWP			kg	R-410A / 1.2 / 2,087.5	R-410A / 1.7 / 2,087.5	R-410A / 1.5 / 2,087.5
	Charge			TCO_2Eq	2.51	3.5	3.1
Piping connections	Liquid	OD		mm	6.4	6.35	
	Gas	OD		mm	9.5	12.7	
	Piping length	OU - IU	Max.	m	20	30	
	Additional refrigerant charge			kg/m	0.020 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	15	20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	-	-	

*Note: blue cells contain preliminary data

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

Seasonal Smart

Seasonal Classic

Concealed ceiling unit with high ESP

ESP up to 200, ideal for large sized commercial spaces

Seasonal Smart ensures the best in class quality, highest efficiency and performance. Seasonal Classic gives good value for money

- High external static pressure up to 200Pa facilitates using flexible ducts of varying lengths
- 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
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Standard built-in drain pump increases flexibility and installation speed.

FDQ125C

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

BRC1E52A-B

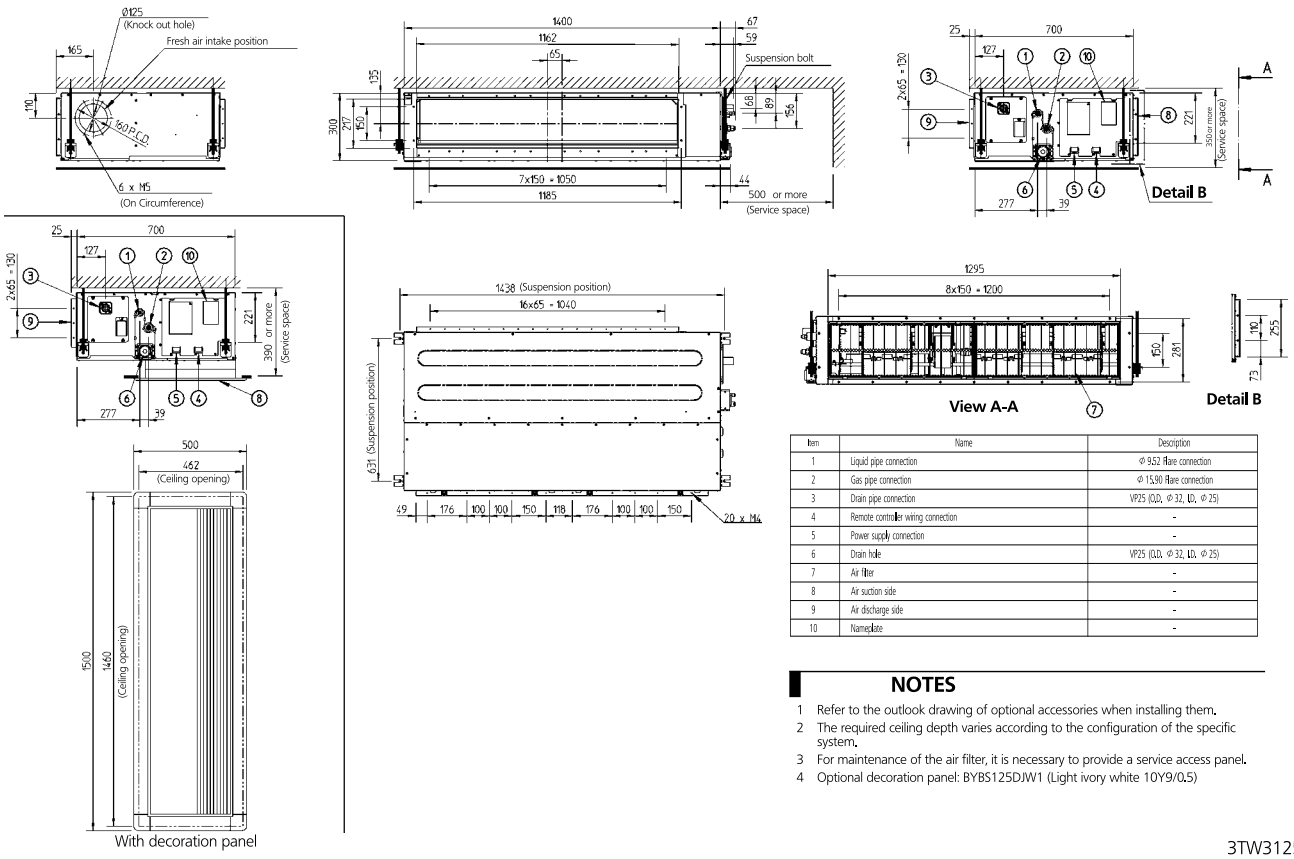
					Seasonal Smart		Seasonal Classic	
Efficiency data				**FDQ + RZQG/RZQSG**	**125C + 125L9V1**	**125C + 125L8Y1**	**125C + 125L9V1**	**125C + 125L8Y1**
Cooling capacity	Nom.			kW	12.0		12.0	
Heating capacity	Nom.			kW	13.5		13.5	
Power input	Cooling	Nom.		kW	3.20		3.74	
	Heating	Nom.		kW	3.53		3.85	
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+		A	
		Pdesign		kW	12.00		12.00	
		SEER			5.81		5.20	
		Annual energy consumption		kWh	722.892	723	807.692	808
	Heating (Average climate)	Energy label			A+		A	
		Pdesign		kW	12.71		7.60	
		SCOP			4.21		3.90	
		Annual energy consumption		kWh	4,226.603	4,227	2,728.205	2,728
Nominal efficiency	EER				3.75		3.21	
	COP				3.83		3.51	
	Annual energy consumption			kWh	1,600		1,870	
	Energy label	Cooling			A		A	
		Heating			A		B	

Indoor unit				**FDQ**	**125C**
Casing	Colour				Not painted (galvanised)
Dimensions	Unit	HeightxWidthxDepth		mm	300x1,400x700
Required ceiling void >				mm	350
Weight	Unit			kg	45
Decoration panel	Model				BYBS125DJW1
	Colour				White (10Y9/0.5)
	Dimensions	HeightxWidthxDepth		mm	55x1,500x500
	Weight			kg	6.5
Air filter	Type				Resin net with mold resistance
Fan - Air flow rate	Cooling	High/Low		m^3/min	39/28
	Heating	High/Low		m^3/min	39/28
Fan - External static pressure	High/Nom.			Pa	200/50
Sound power level	Cooling			dBA	66
Sound pressure level	Cooling	High/Low		dBA	40/33
	Heating	High/Low		dBA	40/33
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220
Control systems	Infrared remote control				BRC4C65
	Wired remote control				BRC1D52 / BRC1E52A/B

Outdoor unit				**RZQG/RZQSG**	**125L9V1**	**125L8Y1**	**125L9V1**	**125L8Y1**
Dimensions	Unit	HeightxWidthxDepth		mm	1,430x940x320		990x940x320	
Weight	Unit			kg	99	101	77	82
Sound power level	Cooling			dBA	67		70	
Sound pressure level	Cooling	Nom.		dBA	51		54	
	Heating	Nom.		dBA	53		58	
	Night quiet mode	Level 1		dBA	45		49	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~50		-15~46	
	Heating	Ambient	Min.~Max.	°CWB	-20~15.5		-15~15.5	
Refrigerant	Type/Charge/GWP			kg	R-410A / 4 / 2,087.5		R-410A / 2.9 / 2,087.5	
	Charge			TCO_2Eq	8.4		6.1	
Piping connections	Liquid	OD		mm	9.52			
	Gas	OD		mm	15.9			
	Piping length	OU - IU	Max.	m	75		50	
		System	Equivalent	m	90		70	
			Chargeless	m	30			
	Additional refrigerant charge			kg/m	See installation manual			
	Level difference	IU - OU	Max.	m	30.0			
		IU - IU	Max.	m	0.5			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240	3N~ / 50 / 380-415	1~ / 50 / 220-240	3N~ / 50 / 380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	-	25	-	20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

FDQ125C



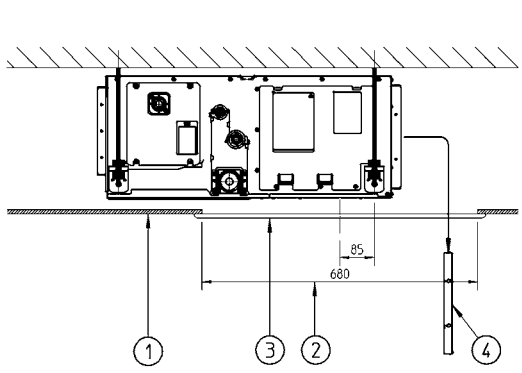
Item	Name	Description
1	Liquid pipe connection	Ø 9.52 flare connection
2	Gas pipe connection	Ø 15.90 flare connection
3	Drain pipe connection	VP25 (I.D. Ø 32, I.D. Ø 25)
4	Remote controller wiring connection	-
5	Power supply connection	-
6	Drain hole	VP25 (I.D. Ø 32, I.D. Ø 25)
7	Air filter	-
8	Air suction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

NOTES

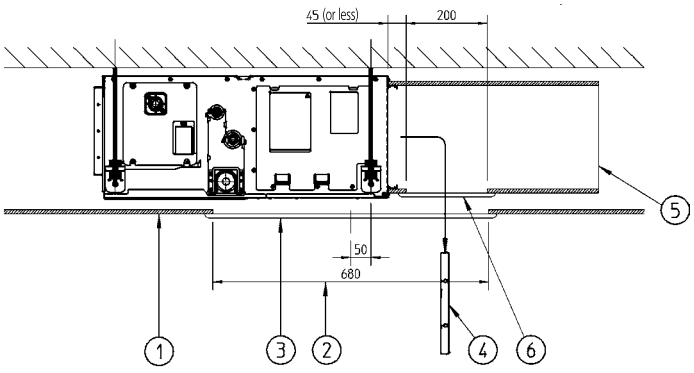
1 Refer to the outlook drawing of optional accessories when installing them.
2 The required ceiling depth varies according to the configuration of the specific system.
3 For maintenance of the air filter, it is necessary to provide a service access panel.
4 Optional decoration panel: BYBS125DJW1 (Light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

3TW31254-1B

FDQ125C

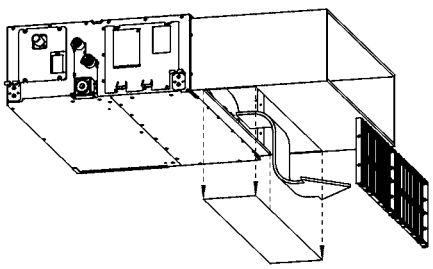


Installation without air inlet duct



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



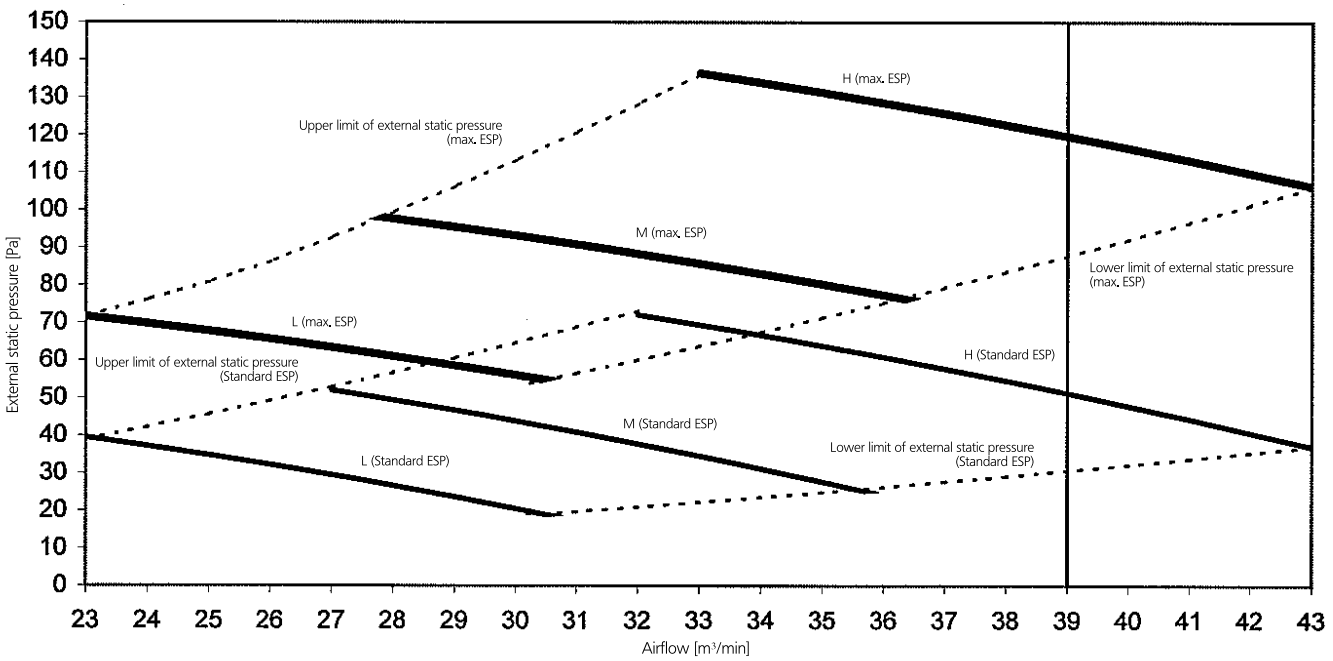
NOTES

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

FDQ125C

Fan characteristics (1)



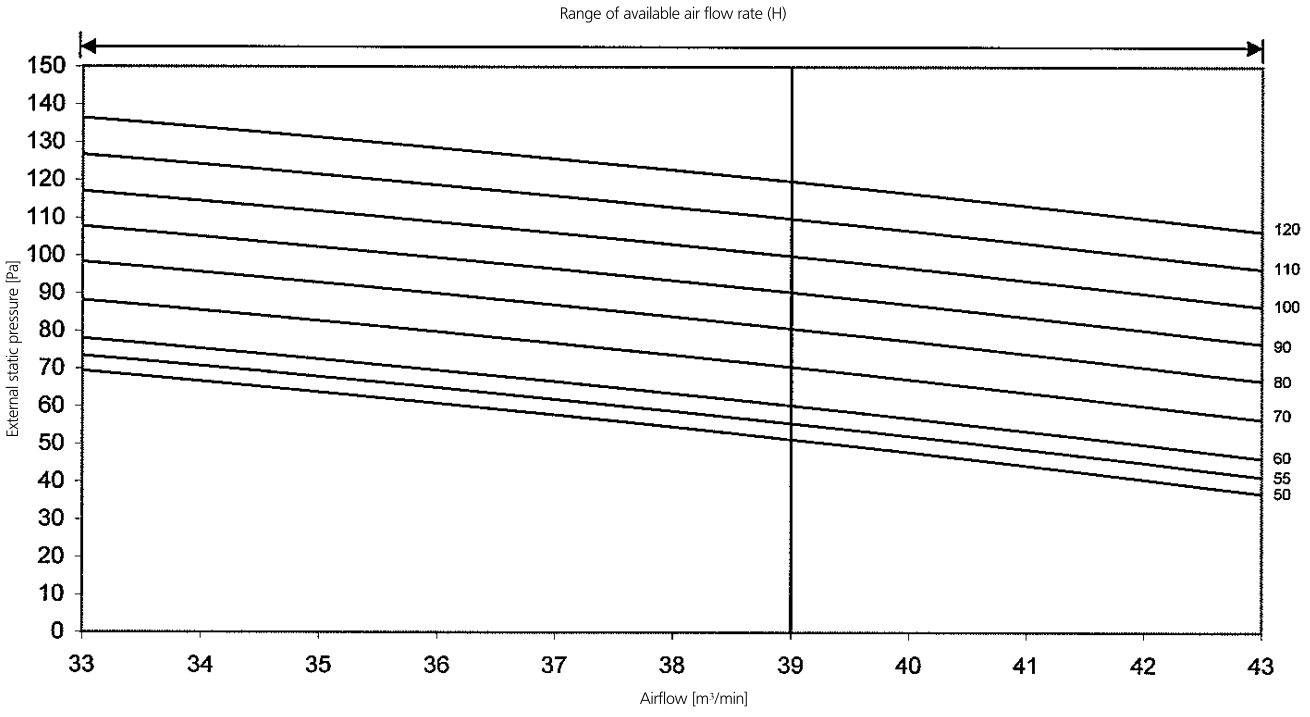
NOTES

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)



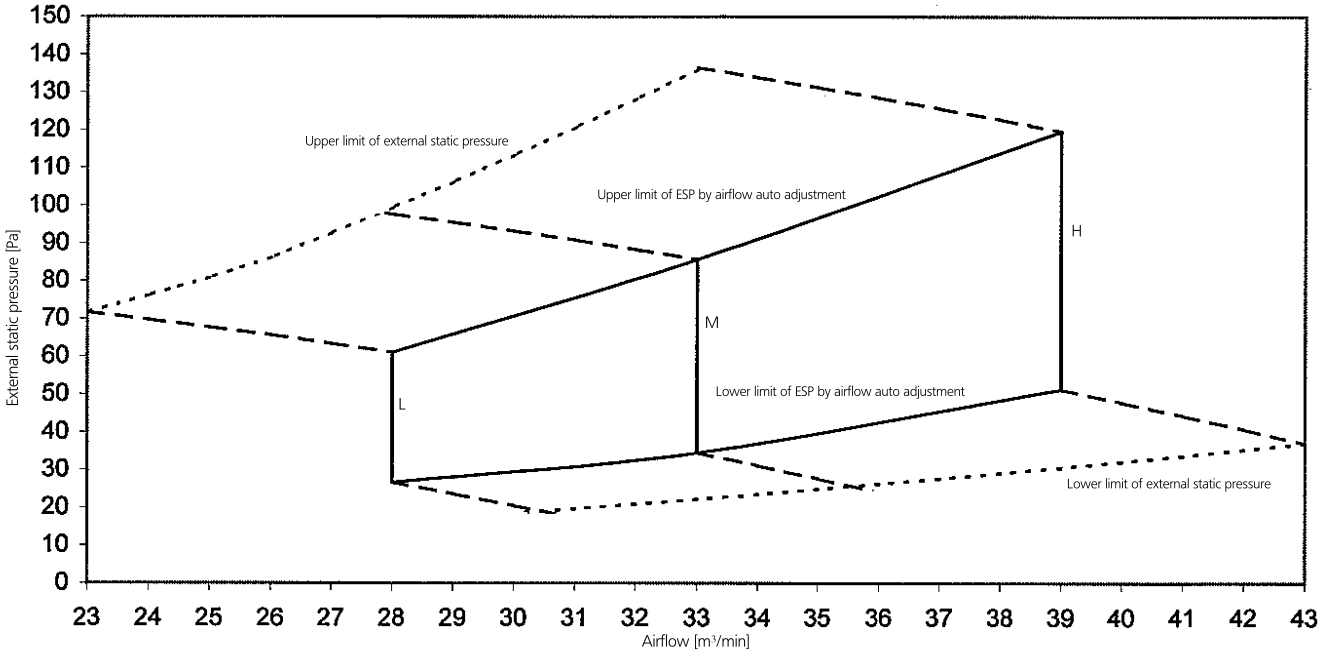
NOTES

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
- Discretely 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

Efficiency data				FDQ + RZQ	200B + 200C	250B + 250C
Cooling capacity	Nom.			kW	20.0	24.1
Heating capacity	Nom.			kW	23.0	26.4
Power input	Cooling	Nom.		kW	6.23	8.58
	Heating	Nom.		kW	6.74	8.22
Nominal efficiency	EER				3.21	2.81
	COP				3.41	3.21
	Annual energy consumption			kWh	3,115	4,290
	Energy label	Cooling/Heating			-/-	

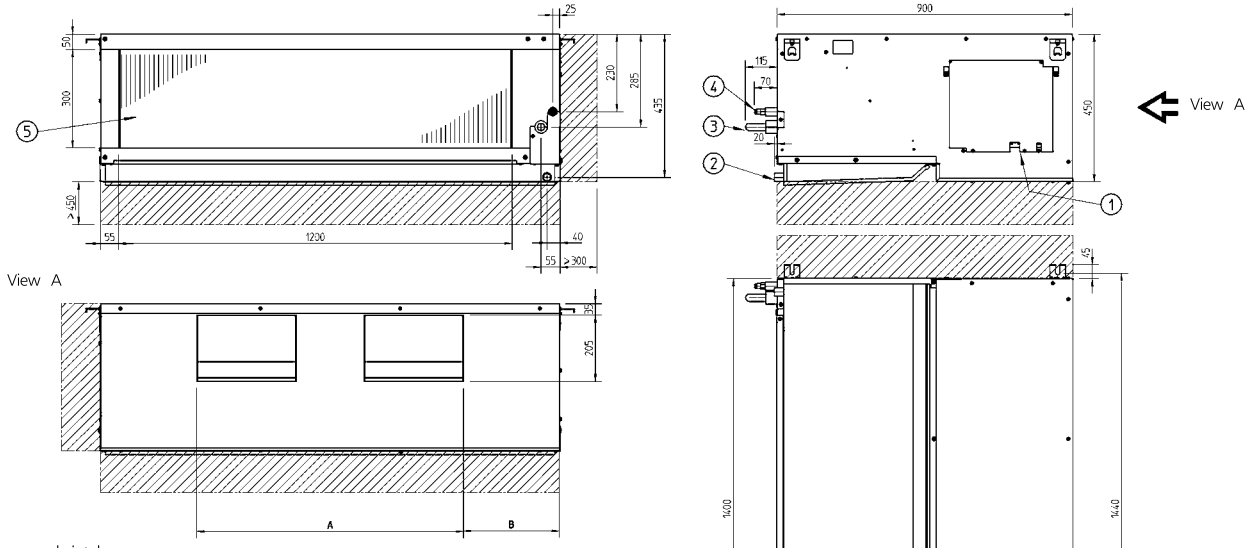
Indoor unit				FDQ	200B	250B
Casing	Colour				Unpainted	
Dimensions	Unit	HeightxWidthxDepth		mm	450x1,400x900	
Required ceiling void >				mm	450	
Weight	Unit			kg	89.0	94.0
Air filter	Type				Resin net with mold resistance	
Fan - Air flow rate	Cooling	Nom.		m^3/min	69.0	89.0
	Heating	Nom.		m^3/min	69.0	89.0
Fan - External static pressure	High/Nom./Low/Maximum available/High			Pa	250/250/250/-	
Sound power level	Cooling			dBA	81	82
Sound pressure level	Cooling	High		dBA	45.0	47.0
	Heating	Low		dBA	45.0	47.0
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 230	
Control systems	Wired remote control				BRC1D52 / BRC1E52A/B	

Outdoor unit				RZQ	200C	250C
Dimensions	Unit	HeightxWidthxDepth		mm	1,680x930x765	
Weight	Unit			kg	183	184
Sound power level	Cooling			dBA	78	
	Heating			dBA	78	
Sound pressure level	Nom.			dBA	57	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5.0~46.0	
	Heating	Ambient	Min.~Max.	°CWB	-15.0~15.0	
Refrigerant	Type/Charge/GWP			kg	R-410A / 8.3 / 2,087.5	R-410A / 9.3 / 2,087.5
	Charge			TCO_2Eq	17.3	19.4
Piping connections	Liquid	OD		mm	9.52	12.7
	Gas	OD		mm	22.2	
	Piping length	OU - IU	Max.	m	100	
	Level difference	IU - OU	Max.	m	-	
Power supply	Phase / Frequency / Voltage			Hz / V	3N~ / 50 / 380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	

(1) EER/COP according to Eurovent (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

FDQ200-250B / FDYP200-250B

unit (mm)



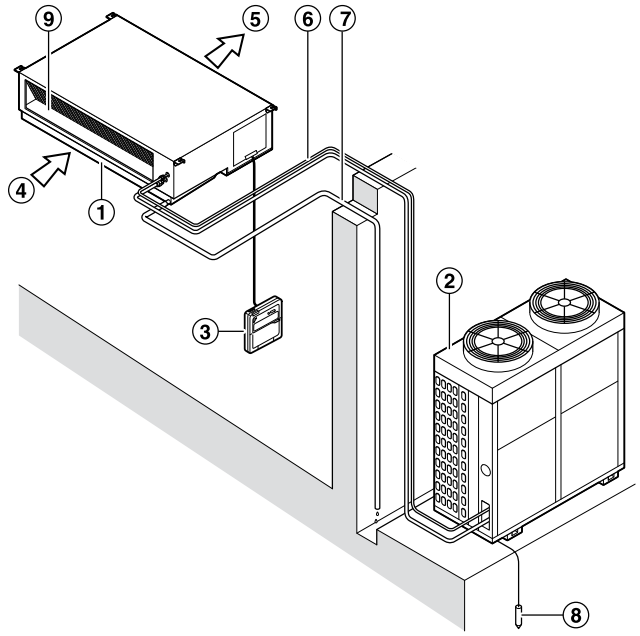
① Power supply intake
② Drain connection ϕ25 O.D.
③ Gas pipe connection
FDYP200B/250B :1 1/8" O.D. or 28,6 mm
FDQ200/250 :7/8" O.D. or 22,2 mm O.D.
④ Liquid pipe connection
FDYP200B : Single union joint 1/2" or 12.7mm
FDYP250B : Single union joint 5/8" or 15.9mm
FDQ200 : Single union joint 3/8" or 9,52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

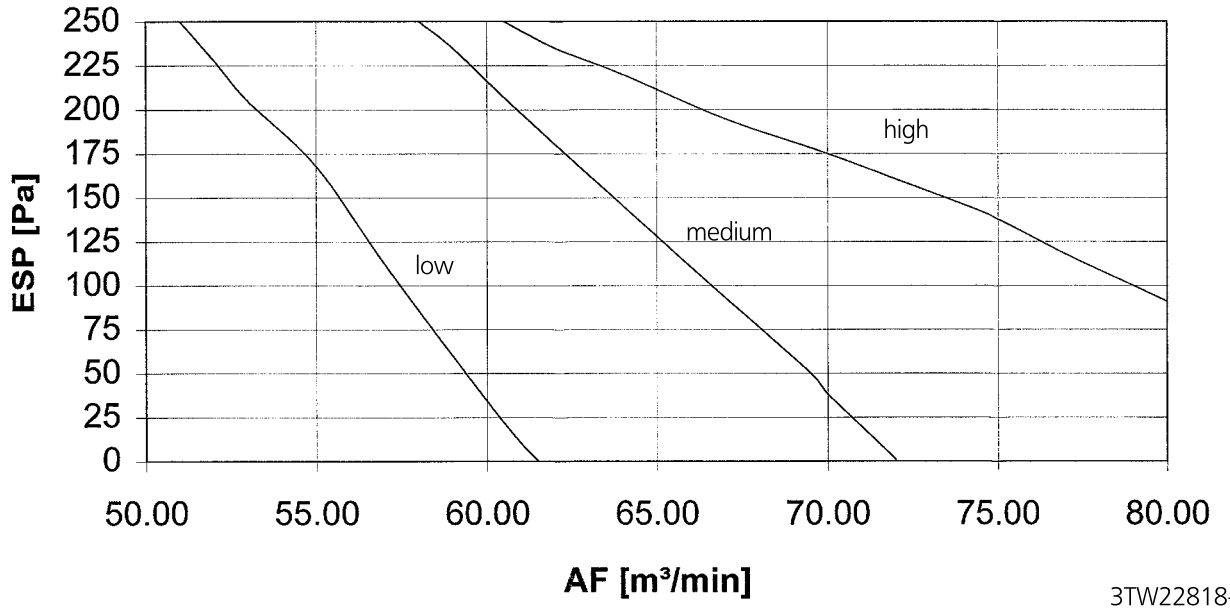
3TW30844-1

FDQ-B



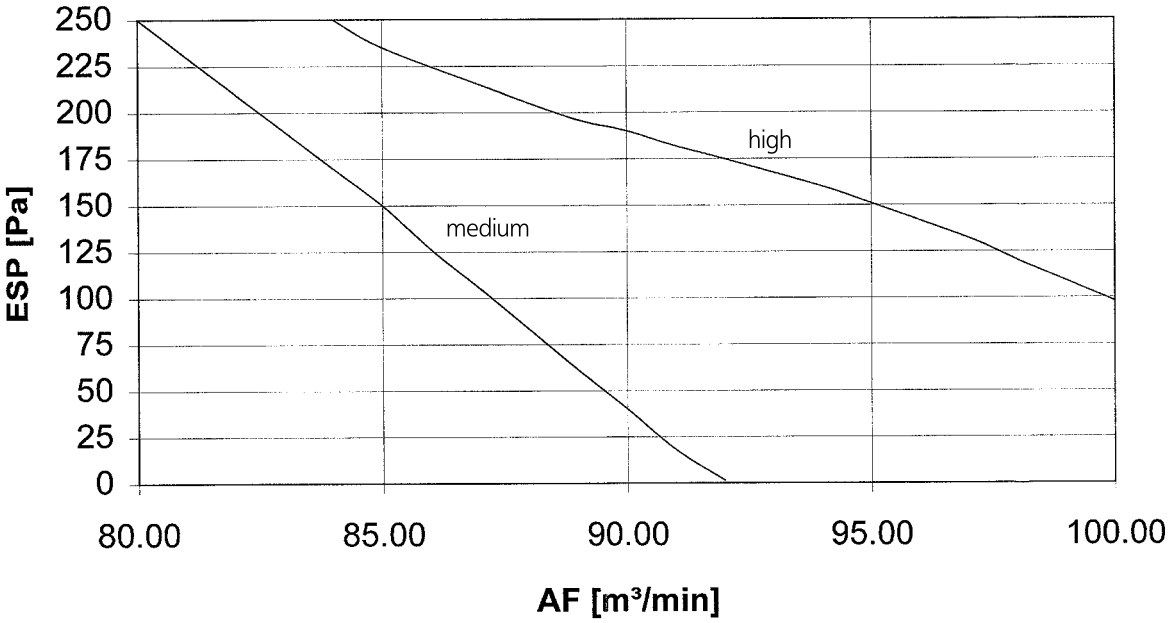
Number	Description
1	Indoor unit
2	Outdoor unit
3	Remote control
4	Inlet air
5	Discharged air
6	Refrigerant piping, connection electric wire
7	Drain pipe
8	Ground wire Wire to ground from the outdoor unit to prevent electrical shocks.
9	Air filter

FDQ200B7



3TW22818-1

FDQ200B7



3TW22828-1

Siesta

Concealed ceiling unit

Ideal for medium sized shops with false ceilings

- Ideal solution for busy retail and business environments and small shops
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Air filter removes airborne dust particles to ensure a steady supply of clean air
- Easy installation and maintenance
- Double protection drainage system ensures quality
- Exclusively offered for pair applications.

ABQ140C

AZQS140B8V1/BY1

ARCWB

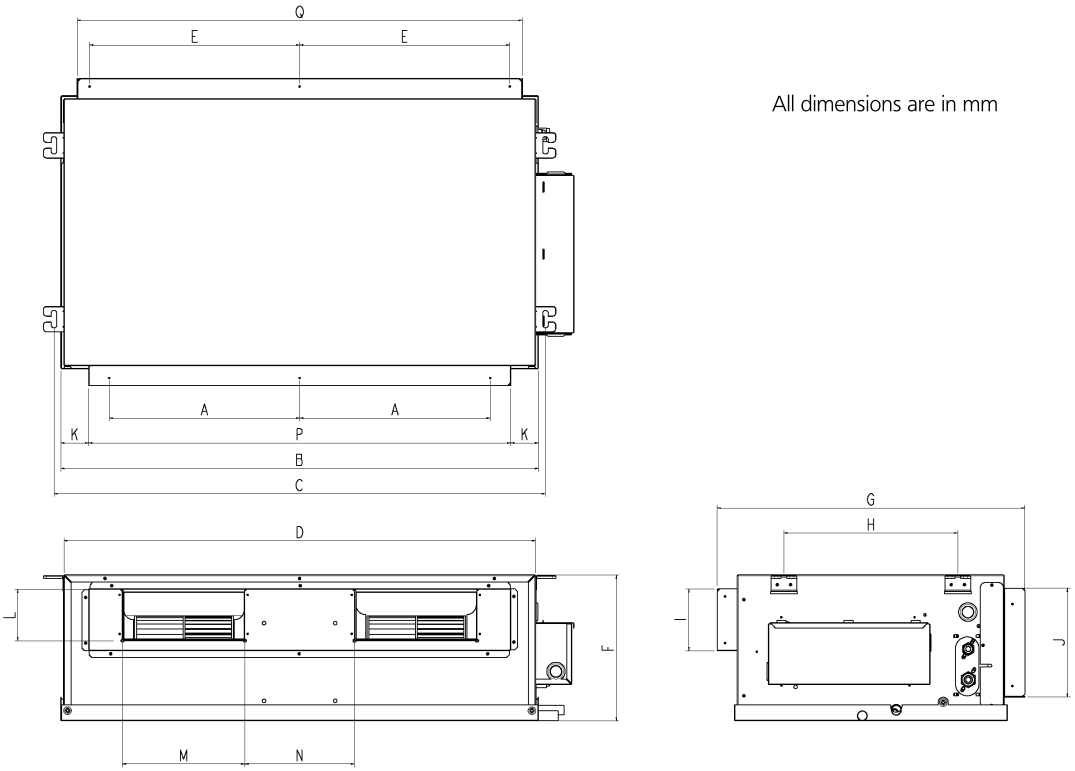
Efficiency data				ABQ + AZQS	71C + 71B2V1	100C + 100B8V1	125C + 125B8V1	140C + 140B8V1	100C + 100BY1	125C + 125BY1	140C + 140BY1
Cooling capacity	Nom.			kW	6.8	9.5	12.1	13.0	9.5	12.1	13.0
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.33	3.63	4.31	4.32	3.63	4.31	4.32
	Heating	Nom.		kW	2.13	3.16	3.96	4.55	3.16	3.96	4.55
Seasonal efficiency (according to EN14825)	Cooling	Energy label			B		-		B	-	
		Pdesign		kW	6.80	9.50	-		9.50	-	
		SEER			4.65		-		4.65	-	
		Annual energy consumption		kWh	512	716	-		716	-	
	Heating (Average climate)	Energy label			A		-		A	-	
		Pdesign		kW	5.65	6.78	-		6.78	-	
		SCOP			3.80		-		3.80	-	
		Annual energy consumption		kWh	2,082	2,499	-		2,498	-	
Nominal efficiency	EER				2.91	2.62	2.81	3.01	2.62	2.81	3.01
	COP				3.51	3.42	3.41		3.42	3.41	
	Annual energy consumption			kWh	1,165	1,813	2,153	2,159	1,813	2,153	2,159
	Energy label	Cooling			C	D	C	-	D	C	-
		Heating			B		-		B		-

Indoor unit				ABQ	71C	100C	125C	140C
Dimensions	Unit	HeightxWidthxDepth		mm	285x600x1,007	378x541x1,045	378x541x1,299	378x541x1,499
Weight	Unit			kg	35	44	50	56
Air filter	Type				Saranet			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	18.3/16.8/15.4	22.7/20.5/18.3	40.5/37.4/34.8	48.7/43.9/37.9
	Heating	High/Nom./Low		m^3/min	18.3/16.8/15.4	22.7/20.5/18.3	40.5/37.4/34.8	48.7/43.9/37.9
Fan - External static pressure	High/Nom./Low/Maximum available/High			Pa	90/77/64/-	70/57/45/-	150/128/111/-	150/122/92/-
Sound power level	Cooling			dBA	64	60	-	
	Heating			dBA	64	60	-	
Sound pressure level	Cooling	High/Nom./Low		dBA	-/-/-	41/38/36	53/52/50	55/53/50
	Heating	High/Nom./Low		dBA	-/-/-	41/38/36	53/52/50	55/53/50
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			

Outdoor unit				AZQS	71B2V1	100B8V1	125B8V1	140B8V1	100BY1	125BY1	140BY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	81		102	82		101
Sound power level	Cooling			dBA	65	70	71	70		71	70
Sound pressure level	Cooling	Nom./Silent operation		dBA	48/43	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	50	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge/GWP			kg	R-410A/2.75/2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5
	Charge			TCO_2Eq	5.7	6.1		8.4	6.1		8.4
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	30	50					
		System	Equivalent	m	40	70					
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15.0	30.0					
		IU - IU	Max.	m	-	0.5					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-					

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

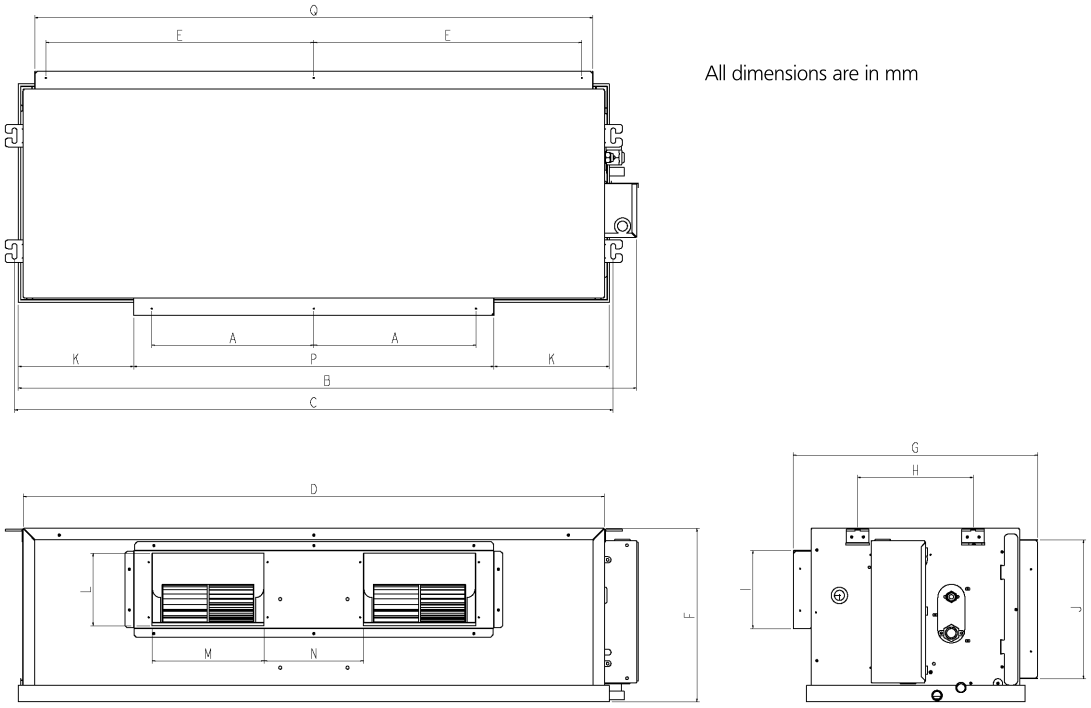
ABQ71C



All dimensions are in mm

Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
ABQ71C	372	1001	959	920	410	285	600	339	121	231	54	100	245	216	824	869

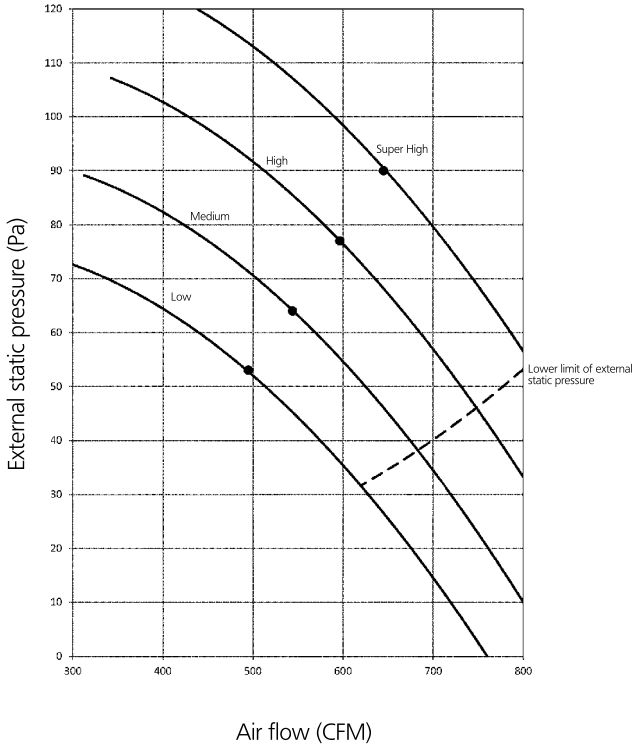
ABQ100-140C



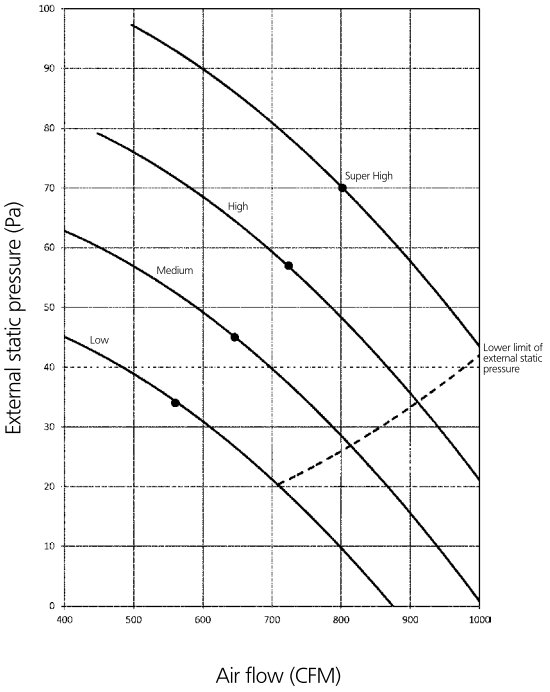
All dimensions are in mm

Model \ Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
ABQ100C	359	1115	1072	1033	467	378	541	256	180	306	128	170	234	234	798	982
ABQ125C	359	1369	1326	1287	594	378	541	256	180	306	256	170	234	234	798	1236
ABQ140C	359	1569	1526	1487	694	378	541	256	180	306	356	170	234	234	789	1436

ABQ71C

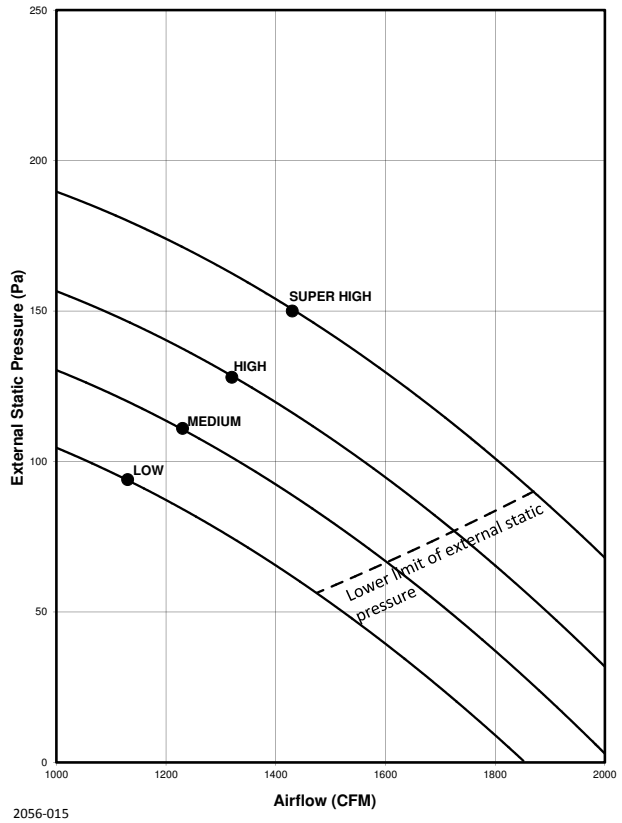


ABQ100C



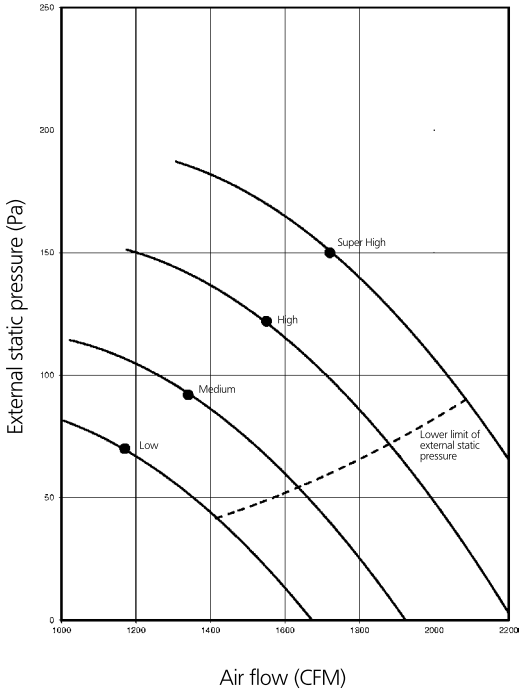
2056-014

ABQ125C



2056-015

ABQ140C



2056-016

Seasonal Classic

Wall mounted unit

For rooms with no false ceilings nor 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 more easy to clean
- Can easily be installed in both new and refurbishment projects
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- 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.

Efficiency data				FAQ + RZQSG	71C + 71L3V1	100C + 100L9V1	100C + 100L8Y1
Cooling capacity	Nom.			kW	6.8	9.5	
Heating capacity	Nom.			kW	7.5	10.8	
Power input	Cooling	Nom.		kW	2.12	3.16	
	Heating	Nom.		kW	2.08	3.17	
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+		
		Pdesign		kW	6.80	9.50	
		SEER			6.05	5.61	
		Annual energy consumption		kWh	393	593	593
	Heating (Average climate)	Energy label			A	A+	
		Pdesign		kW	6.00	6.81	
		SCOP			3.90	4.01	
		Annual energy consumption		kWh	2,155	2,378	2,378
Nominal efficiency	EER				3.21	3.01	
	COP				3.61	3.41	
	Annual energy consumption			kWh	1,060	1,580	
	Energy label	Cooling			A	B	
		Heating			A	B	

Indoor unit				FAQ	71C	100C
Casing	Colour				Fresh White	
Dimensions	Unit	HeightxWidthxDepth		mm	290x1,050x238	340x1,200x240
Weight	Unit			kg	13	17
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	18/16/14	26/23/19
	Heating	High/Nom./Low		m^3/min	18/16/14	26/23/19
Sound power level	Cooling			dBA	61	65
	Heating			dBA	61	65
Sound pressure level	Cooling	High/Nom./Low		dBA	45/42/40	49/45/41
	Heating	High/Nom./Low		dBA	45/42/40	49/45/41
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220	
Control systems	Infrared remote control				BRC7EB518	
	Wired remote control				BRC1D52 / BRC1E52A/B	

Outdoor unit				RZQSG	71L3V1	100L9V1	100L8Y1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320	
Weight	Unit			kg	67	77	82
Sound power level	Cooling			dBA	65	70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	
	Heating	Nom.		dBA	51	57	
	Night quiet mode	Level 1		dBA	-	49	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15 ~ 46		
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5		
Refrigerant	Type/Charge/GWP			kg	R-410A / 2.75 / 2,087.5	R-410A / 2.9 / 2,087.5	
	Charge			TCO_2Eq	5.7	6.1	
Piping connections	Liquid	OD		mm	9.52		
	Gas	OD		mm	15.9		
	Piping length	OU - IU	Max.	m	50		
		System	Equivalent	m	70		
			Chargeless	m	30		
	Additional refrigerant charge			kg/m	See installation manual		
	Level difference	IU - OU	Max.	m	15	30.0	
		IU - IU	Max.	m	0.5		
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		3N~ / 50 / 380-415
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-	20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

Wall mounted unit

For rooms with no false ceilings nor free floor space

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

FAQ100C

RZQSG100L9V1/L(8)Y1

BRC1E52A-B, BRC7EB518

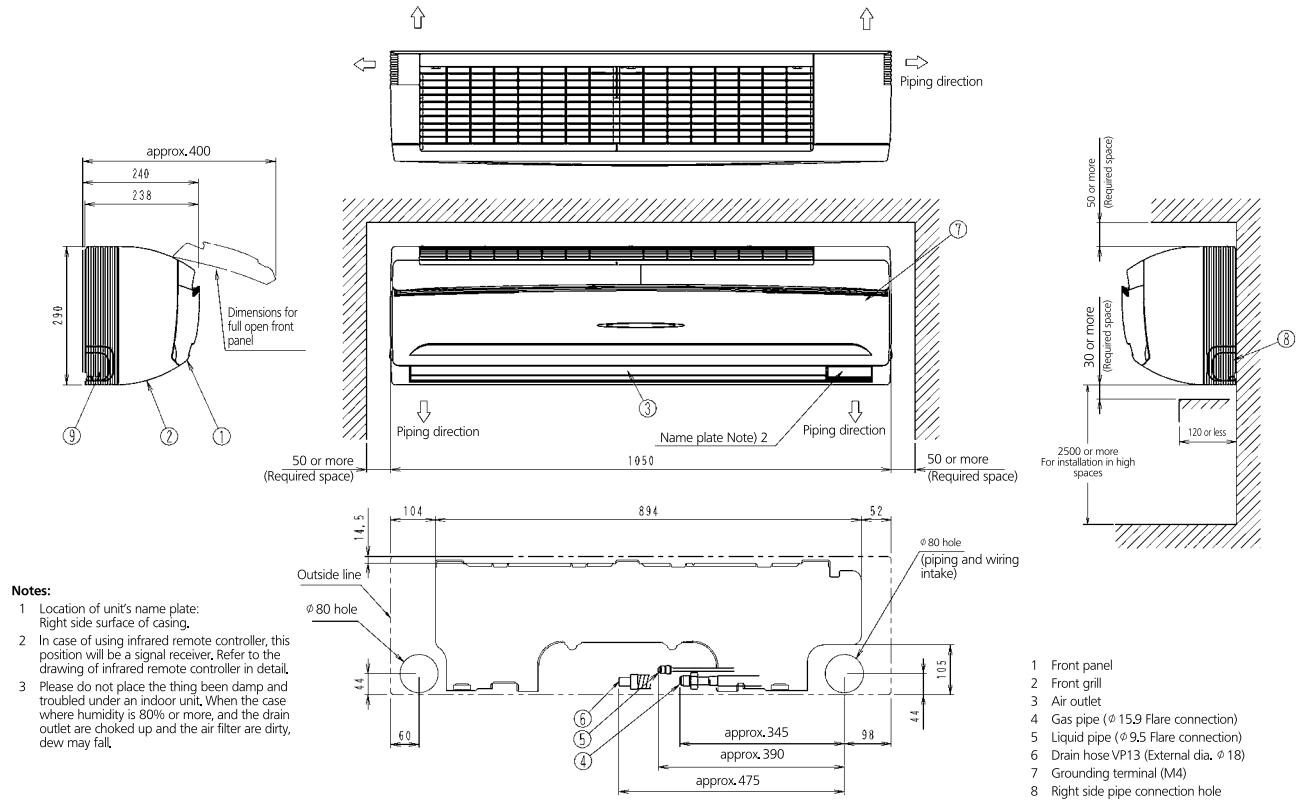
Efficiency data				FAQ + RZQG	71C + 71L9V1	100C + 100L9V1	71C + 71L8Y1	100C + 100L8Y1
Cooling capacity	Nom.			kW	6.8	9.5	6.8	9.5
Heating capacity	Nom.			kW	7.5	10.8	7.5	10.8
Power input	Cooling	Nom.		kW	2.00	2.63	2.00	2.63
	Heating	Nom.		kW	2.03	3.00	2.03	3.00
Seasonal efficiency (according to EN14825)	Cooling	Energy label			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	544	366	544
	Heating (Average climate)	Energy label			A+			
		Pdesign		kW	6.33	10.20	6.33	10.20
		SCOP			4.02	4.01	4.02	4.01
		Annual energy consumption		kWh	2,204	3,561	2,204	3,561
Nominal efficiency	EER				3.40	3.62	3.40	3.62
	COP				3.70	3.61	3.70	3.61
	Annual energy consumption			kWh	1,000	1,315	1,000	1,315
	Energy label	Cooling			A			
		Heating			A			

Indoor unit				FAQ	71C	100C
Casing	Colour				Fresh White	
Dimensions	Unit	HeightxWidthxDepth		mm	290x1,050x238	340x1,200x240
Weight	Unit			kg	13	17
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	18/16/14	26/23/19
	Heating	High/Nom./Low		m^3/min	18/16/14	26/23/19
Sound power level	Cooling			dBA	61	65
	Heating			dBA	61	65
Sound pressure level	Cooling	High/Nom./Low		dBA	45/42/40	49/45/41
	Heating	High/Nom./Low		dBA	45/42/40	49/45/41
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220	
Control systems	Infrared remote control				BRC7EB518	
	Wired remote control				BRC1D52 / BRC1E52A/B	

Outdoor unit				RZQG	71L9V1	100L9V1	71L8Y1	100L8Y1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320	990x940x320	1,430x940x320
Weight	Unit			kg	77	99	80	101
Sound power level	Cooling			dBA	64	66	64	66
Sound pressure level	Cooling	Nom./Silent operation		dBA	48/-	50/-	48/-	50/-
	Heating	Nom.		dBA	50	52	50	52
	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/GWP			kg	R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5	R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5
	Charge			TCO_2Eq	6.1	8.4	6.1	8.4
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			
		IU - IU	Max.	m	0.5			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		3N~ / 50 / 380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	-		16	20

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

FAQ71C



Notes:

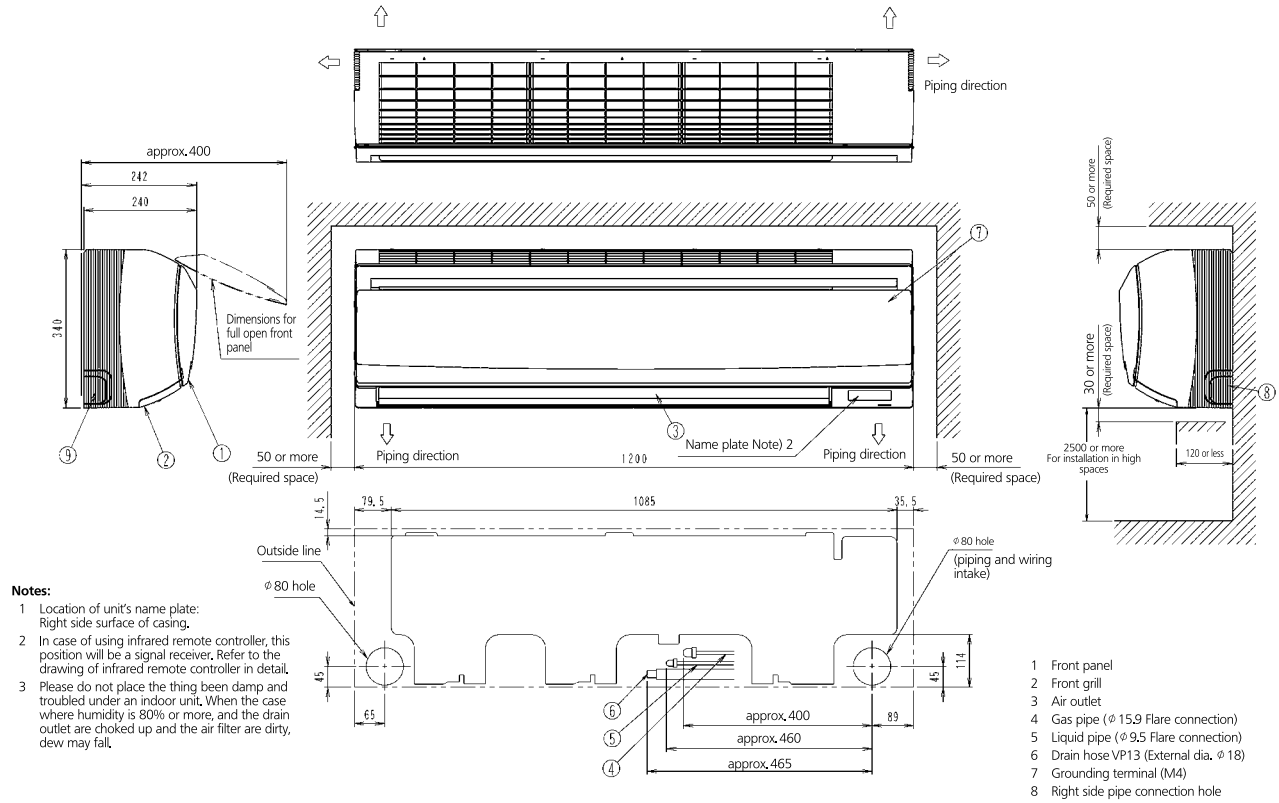
1. Location of unit's name plate: Right side surface of casing.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the 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



Notes:

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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

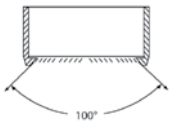
3D073841A

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

Combination with split outdoor units is ideal for small retail, offices or residential 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
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.

FHQ60C

RXS-L3

BRC1E52A-B, BRC7GA53

Efficiency data				**FHQ + RXS**	***35C + 35L3**	**50C + 50L**	**60C + 60L**
Cooling capacity	Min./Nom./Max.			kW	-/3.4/-	1.7/5.0/5.3	1.7/5.7/5.7
Heating capacity	Min./Nom./Max.			kW	-/4/-	1.7/6.0/6.0	1.7/7.20/7.2
Power input	Cooling	Nom.		kW	0.92	1.570	1.750
	Heating	Nom.		kW	0.98	1.790	2.170
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A+	
		Pdesign		kW	3.4	5.00	5.70
		SEER			6.18	5.87	6.02
		Annual energy consumption		kWh	193	298	332
	Heating (Average climate)	Energy label			A+	A	
		Pdesign		kW	3.1	4.35	4.71
		SCOP			4.43	3.86	3.87
		Annual energy consumption		kWh	980	1,578	1,705
Nominal efficiency	EER				3.58	3.18	3.26
	COP				3.70	3.35	3.32
	Annual energy consumption			kWh	459	785	875
	Energy label	Cooling			A	B	A
		Heating			A	C	C

Indoor unit				**FHQ**	**35C**	**50C**	**60C**
Casing	Colour				Fresh White		
Dimensions	Unit	HeightxWidthxDepth		mm	235x960x690		235x1,270x690
Weight	Unit			kg	24	25	31
Air filter	Type				Resin net with mold resistance		
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	14/11.5/10	15/12/10	19.5/15/11.5
	Heating	High/Nom./Low		m^3/min	14/11.5/10	15/12/10	19.5/15/11.5
Sound power level	Cooling			dBA	53	54	
	Heating			dBA	53	54	
Sound pressure level	Cooling	High/Nom./Low		dBA	36/34/31	37/35/32	37/35/33
	Heating	High/Nom./Low		dBA	36/34/31	37/35/32	37/35/33
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220		
Control systems	Infrared remote control				BRC7G53		
	Wired remote control				BRC1D52 / BRC1E52A/B		

Outdoor unit				**RXS**	***35L3**	**50L**	**60L**
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285	735x825x300	
Weight	Unit			kg	31.5	47	48
Sound power level	Cooling			dBA	61	62	
	Heating			dBA	61	62	
Sound pressure level	Cooling	High/Low		dBA	-/-	48/44	49/46
	Heating	High/Low		dBA	-/-	48/45	49/46
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46	-10~46	
	Heating	Ambient	Min.~Max.	°CWB	-15~18	-15~18	
Refrigerant	Type/Charge/GWP			kg	R-410A / - / 2,087.5	R-410A / 1.7 / 2,087.5	R-410A / 1.5 / 2,087.5
	Charge			TCO_2Eq	-	3.5	3.1
Piping connections	Liquid	OD		mm	6.35	6	
	Gas	OD		mm	9.5	12.7	
	Piping length	OU - IU	Max.	m	-	30	
	Additional refrigerant charge			kg/m	-	0.020 (for piping length exceeding 10m)	
	Level difference	IU - OU	Max.	m	-	20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	-	-	

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

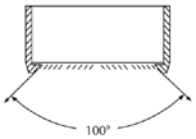
Seasonal Classic

Ceiling suspended unit

For wide rooms with no false ceilings nor 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

› Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating

› No optional adapter needed for DIII-connection, link your unit into the wider building management system.

Efficiency data				**FHQ + RZQSG**	**71C + 71L3V1**	**100C + 100L9V1**	**125C + 125L9V1**	**140C + 140L9V1**	**100C + 100L8Y1**	**125C + 125L8Y1**	**140C + 140LY1**
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	1.97	2.96	4.15	4.45	2.96	4.15	4.45
	Heating	Nom.		kW	1.88	2.99	3.73	4.54	2.99	3.73	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+			-	A+		-
		Pdesign		kW	6.80	9.50	12.00	-	9.50	12.00	-
		SEER			5.61			-	5.61		-
		Annual energy consumption		kWh	424	592.692	748.663	-	593	749	-
	Heating (Average climate)	Energy label			A		A+	-	A	A+	-
		Pdesign		kW	7.60			-	7.60		-
		SCOP			3.90	3.91	4.01	-	3.91	4.01	-
		Annual energy consumption		kWh	2,727	2,721	2,653	-	2,721	2,653	-
Nominal efficiency	EER				3.46	3.21	2.89	3.01	3.21	2.89	3.01
	COP				4.00	3.61	3.62	3.41	3.61	3.62	3.41
	Annual energy consumption			kWh	985	1,480	2,075	2,225	1,480	2,075	2,225
	Energy label	Cooling			A		C	-	A	C	-
		Heating			A			-	A		-

Indoor unit				**FHQ**	**71C**	**100C**	**125C**	**140C**
Casing	Colour				Fresh White			
Dimensions	Unit	HeightxWidthxDepth		mm	235x1,270x690	235x1,590x690		
Weight	Unit			kg	32	38		
Air filter	Type				Resin net with mold resistance			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	20.5/17/14	28/24/20	31/27/23	34/29/24
	Heating	High/Nom./Low		m^3/min	20.5/17/14	28/24/20	31/27/23	34/29/24
Sound power level	Cooling			dBA	55	60	62	64
	Heating			dBA	55	60	62	64
Sound pressure level	Cooling	High/Nom./Low		dBA	38/36/34	42/38/34	44/41/37	46/42/38
	Heating	High/Nom./Low		dBA	38/36/34	42/38/34	44/41/37	46/42/38
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220			
Control systems	Infrared remote control				BRC7G53			
	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit				**RZQSG**	**71L3V1**	**100L9V1**	**125L9V1**	**140L9V1**	**100L8Y1**	**125L8Y1**	**140LY1**
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	77		99	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge/GWP			kg	R-410A / 2.75 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5
	Charge			TCO_2Eq	5.7	6.1		8.4	6.1		8.4
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
		IU - IU	Max.	m	0.5						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-			20		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

Seasonal Smart

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

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

FHQ60-71C

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

BRC1E52A-B, BRC7GA53

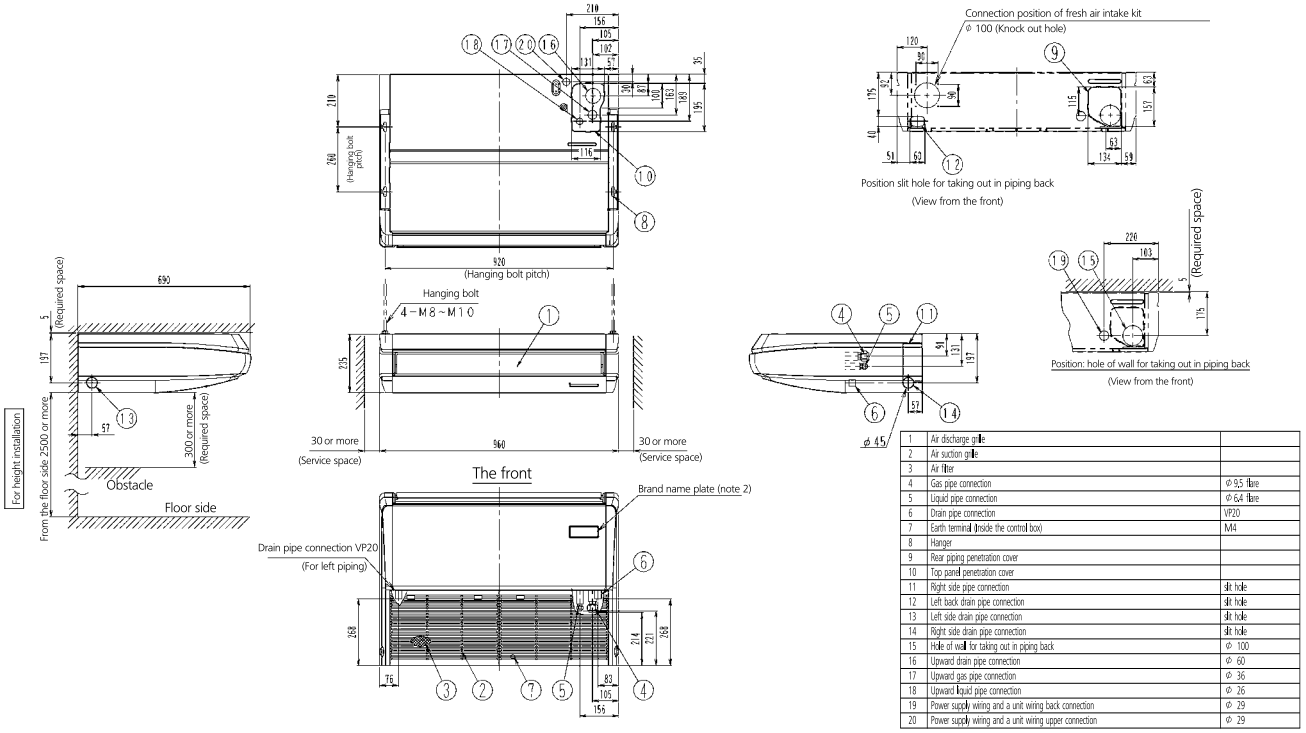
Efficiency data				FHQ + RZQG	71C + 71L9V1	100C + 100L9V1	125C + 125L9V1	140C + 140L9V1	71C + 71L8Y1	100C + 100L8Y1	125C + 125L8Y1	140C + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	6.8	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	1.78	2.49	3.58	4.05	1.78	2.49	3.58	4.05
	Heating	Nom.		kW	1.82	2.60	3.48	4.27	1.82	2.60	3.48	4.27
Seasonal efficiency (according to EN14825)	Cooling	Energy label			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	342	544	699	-	342	544	699	-
	Heating (Average climate)	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	2,463	3,432	4,677	-	2,463	3,432	4,677	-
Nominal efficiency	EER				3.82	3.81	3.35	3.31	3.82	3.81	3.35	3.31
	COP				4.13	4.15	3.89	3.63	4.13	4.15	3.89	3.63
	Annual energy consumption			kWh	890	1,245	1,790	2,025	890	1,245	1,790	2,025
	Energy label	Cooling			A			-	A			-
		Heating			A			-	A			-

Indoor unit				FHQ	71C	100C	125C	140C
Casing	Colour				Fresh White			
Dimensions	Unit	HeightxWidthxDepth		mm	235x1,270x690	235x1,590x690		
Weight	Unit			kg	32	38		
Air filter	Type				Resin net with mold resistance			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	20.5/17/14	28/24/20	31/27/23	34/29/24
	Heating	High/Nom./Low		m^3/min	20.5/17/14	28/24/20	31/27/23	34/29/24
Sound power level	Cooling			dBA	55	60	62	64
	Heating			dBA	55	60	62	64
Sound pressure level	Cooling	High/Nom./Low		dBA	38/36/34	42/38/34	44/41/37	46/42/38
	Heating	High/Nom./Low		dBA	38/36/34	42/38/34	44/41/37	46/42/38
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220			
Control systems	Infrared remote control				BRC7G53			
	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	77	99			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/GWP			kg	R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5			R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5		
	Charge			TCO_2Eq	6.1	8.4			6.1	8.4		
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							
		IU - IU	Max.	m	0.5							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	-				16	25		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

FHQ35C

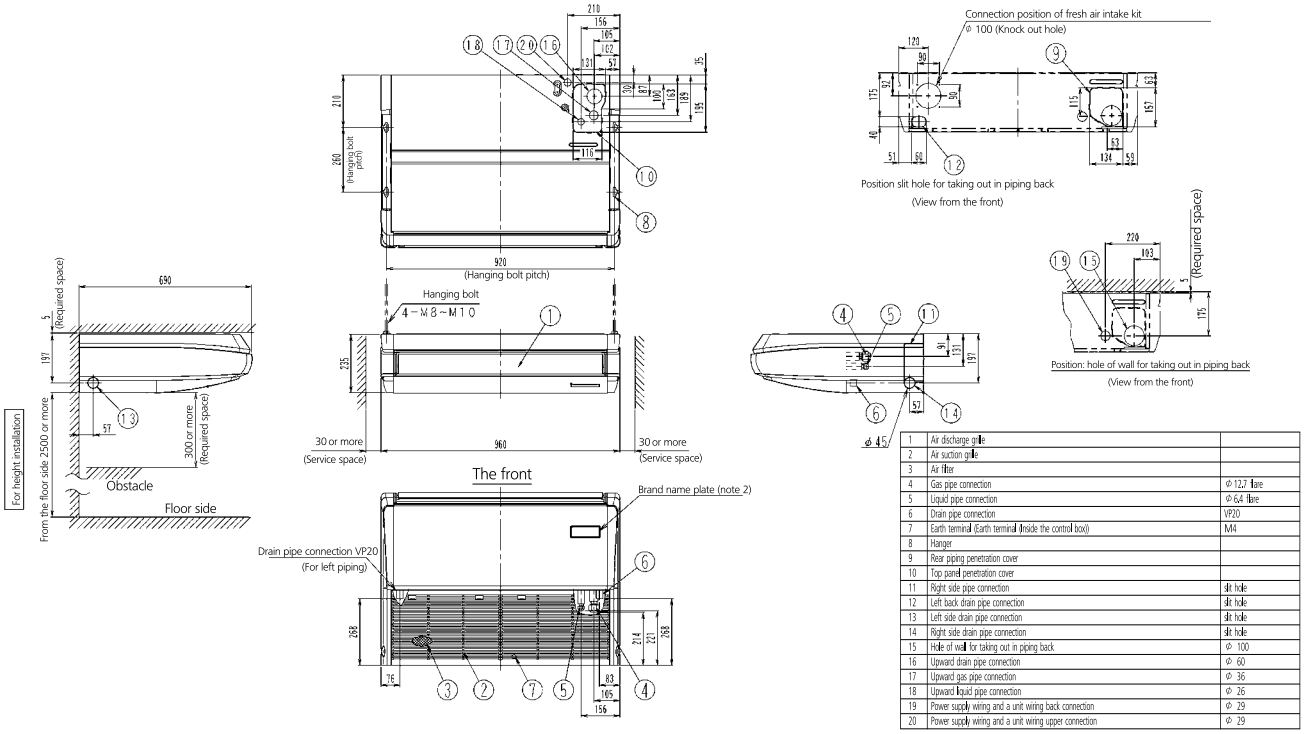


1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 9,5 flare
5	Liquid pipe connection	ø 6,4 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside the control box)	M4
8	Hanger	
9	Rear piping penetration cover	
10	Top panel penetration cover	
11	Right side pipe connection	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

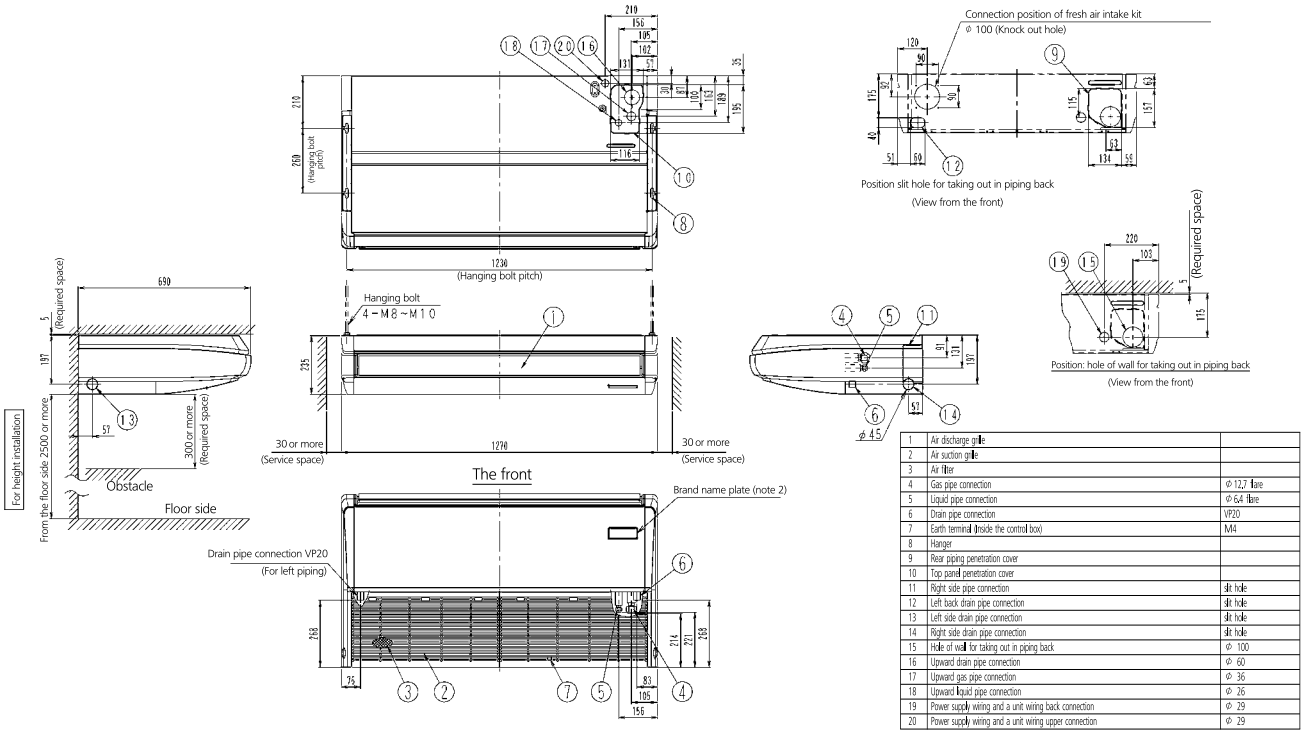


1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 12,7 flare
5	Liquid pipe connection	ø 6,4 flare
6	Drain pipe connection	VP20
7	Earth terminal (Earth terminal inside the control box))	M4
8	Hanger	
9	Rear piping penetration cover	
10	Top panel penetration cover	
11	Right 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

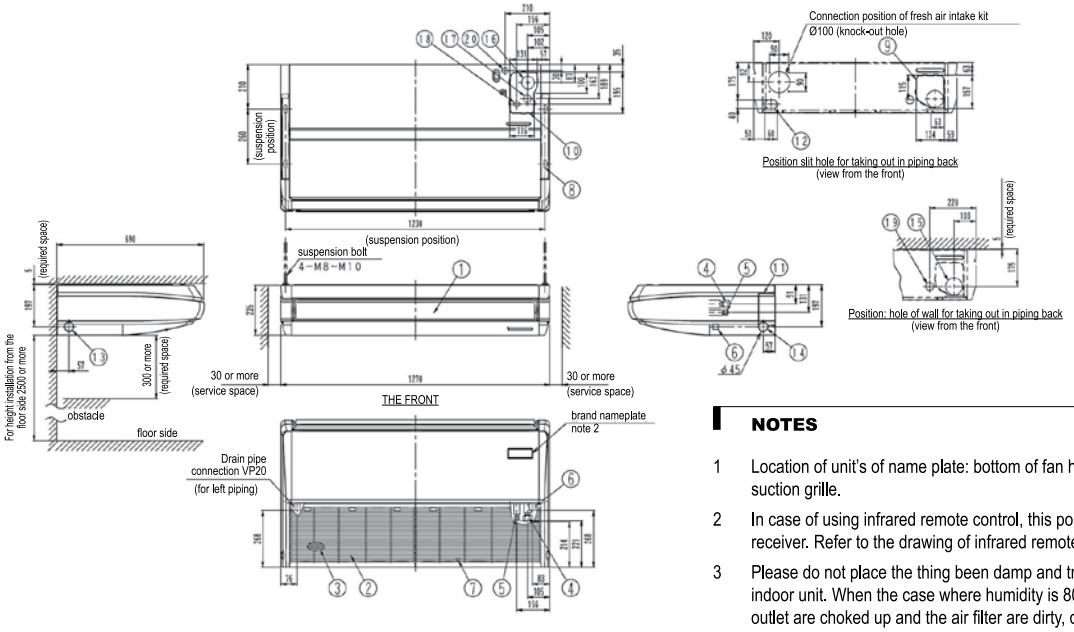


1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	ø 12,7 flare
5	Liquid pipe connection	ø 6,4 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside the control box)	M4
8	Hanger	
9	Rear piping penetration cover	
10	Top panel penetration cover	
11	Right side pipe connection	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.

3D080119

FHQ71C



3D069632A

NOTES

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

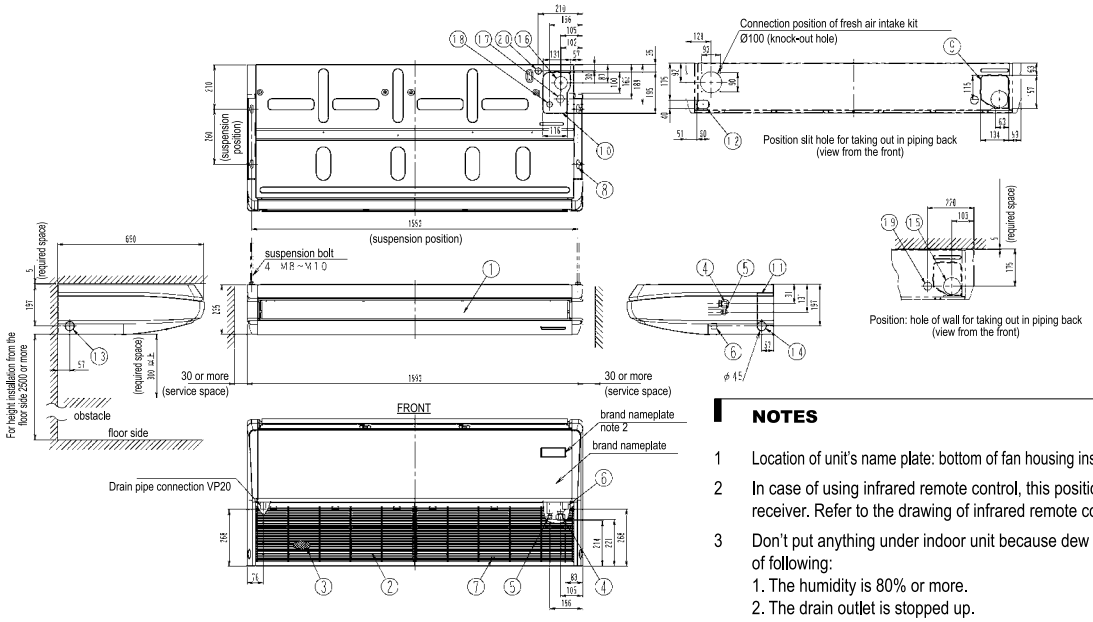
2 In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.

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



3D069633D

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

Siesta

Ceiling suspended unit

For wide rooms with no false ceilings nor free floor space

- Ideal solution for busy retail and business environments with no or narrow false ceilings
- Exclusively offered for pair applications.
- Can easily be installed in both new and refurbishment projects
- Air filter removes airborne dust particles to ensure a steady supply of clean air
- Decrease of temperature variation by automatic fan speed selection or freely selectable 3-step fan speed.
- Easy installation and maintenance

AHQ71C

AZQS71B8V1

ARCWLA

Efficiency data				AHQ + AZQS	71C + 71B2V1	100C + 100B8V1	125C + 125B8V1	140C + 140B8V1	100C + 100BY1	125C + 125BY1	140C + 140BY1
Cooling capacity	Nom.			kW	6.8	9.5	12.1	13.0	9.5	12.1	13.0
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.24	3.62	4.60	4.32	3.62	4.60	4.32
	Heating	Nom.		kW	2.46	3.17	3.74	4.55	3.17	3.74	4.55
Seasonal efficiency (according to EN14825)	Cooling	Energy label			B		-		B	-	
		Pdesign		kW	6.80	9.50	-		9.50	-	
		SEER			4.65	4.60	-		4.60	-	
		Annual energy consumption		kWh	511.85	723	-		723	-	
	Heating (Average climate)	Energy label			A		-		A	-	
		Pdesign		kW	6.33	7.60	-		7.60	-	
		SCOP			3.80		-		3.80	-	
		Annual energy consumption		kWh	2,332.26	2,800	-		2,800	-	
Nominal efficiency	EER				3.03	2.62	2.63	3.01	2.62	2.63	3.01
	COP				3.05	3.41	3.61	3.41		3.61	3.41
	Annual energy consumption			kWh	1,120	1,810	2,300	2,159	1,810	2,300	2,159
	Energy label	Cooling			B	D		-	D		-
		Heating			D	B	A	-	B	A	-

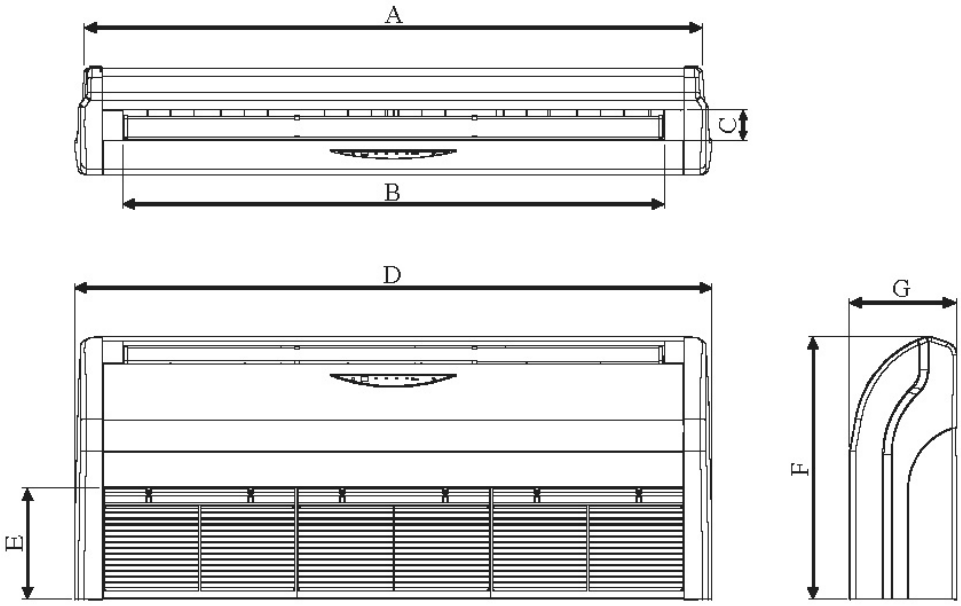
Indoor unit				AHQ	71C	100C	125C	140C
Casing	Colour				White			
Dimensions	Unit	HeightxWidthxDepth		mm	260x1,320x634	260x1,538x634	260x1,786x634	285x1,902x680
Weight	Unit			kg	38	45	54	70
Air filter	Type				Removable / washable			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	23.8/21.3/18.9	31.1/27.8/24.8	34.4/30.6/27.2	43.9/39.1/28.3
	Heating	High/Nom./Low		m^3/min	23.8/21.3/18.9	31.1/27.8/24.8	34.4/30.6/27.2	43.9/39.1/28.3
Fan - External static pressure	High/Nom./Low			Pa	0/0/0			
Sound power level	Cooling			dBA	59	64	69	70
	Heating			dBA	62	64	69	70
Sound pressure level	Cooling	High/Nom./Low		dBA	49/48/46	52/47/46	52/50/49	56/53/46
	Heating	High/Nom./Low		dBA	49/48/46	52/47/46	52/50/49	56/53/46
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			
Control systems	Wired remote control				ARCWB			

Outdoor unit				AZQS	71B2V1	100B8V1	125B8V1	140B8V1	100BY1	125BY1	140BY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	81		102	82		101
Sound power level	Cooling			dBA	65	70	71	70		71	70
Sound pressure level	Cooling	Nom./Silent operation		dBA	48/43	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	50	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge/GWP			kg	R-410A/2.75/2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5
	Charge			TCO_2Eq	5.7	6.1		8.4	6.1		8.4
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	30	50					
		System	Equivalent	m	40	70					
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15.0	30.0					
		IU - IU	Max.	m	-	0.5					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-					

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

AHQ71-125C

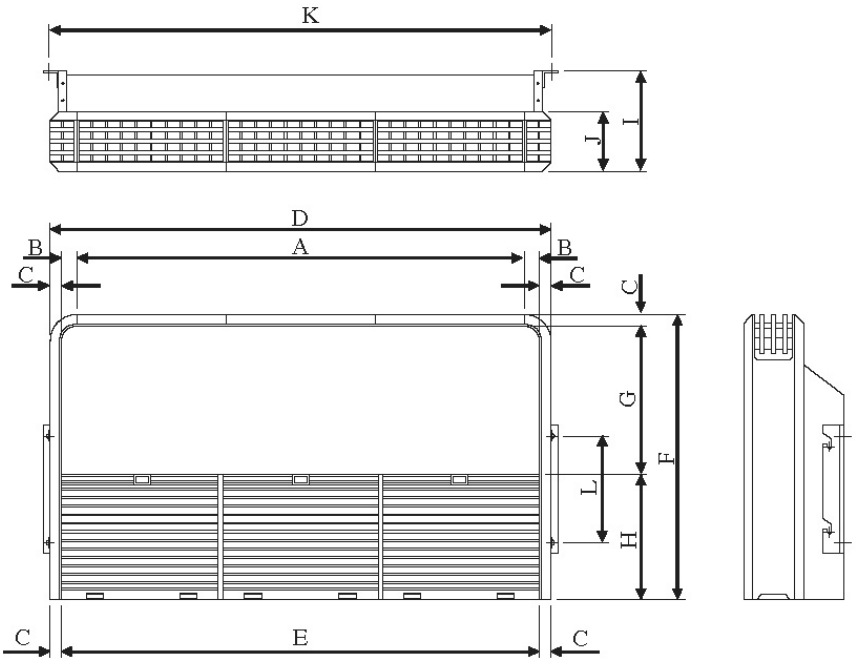
All dimensions are in mm



Model \ Dimension	A	B	C	D	E	F	G
AHQ71C	1272	1088	74	1320	268	635	259
AHQ100C	1490	1308	74	1538	268	635	259
AHQ125C	1738	1556	74	1786	268	635	259

AHQ140C

All dimensions are in mm



Model \ Dimension	A	B	C	D	E	F	G	H	I	J	L	L
AHQ140C	1750	40	36	1903	1830	680	352	292	285	140	1880	250

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

- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Flexibility to suit every room layout without changing the location of the unit!
- With the wired remote controller you can easily control each flap individually and even close the flaps
- No optional adapter needed for DIII-connection, link your unit into the wider building management system
- Reduced energy consumption thanks to specially developed small tube heat exchanger
- The flaps close entirely when the unit is not operating
- Optimum comfort guaranteed with automatic air flow adjustment to the required load

FUQ-C

RZQG140L9V1/L(8)Y1

BRC1E52A-B, BRC7CB58

- 5 different discharge angles between 0 and 60° can be programmed via the remote control
- Standard drain pump with 500mm lift increases flexibility and installation speed.

Efficiency data				FUQ + RZQG	71C + 71L9V1	100C + 100L9V1	125C + 125L9V1	71C + 71L8Y1	100C + 100L8Y1	125C + 125L8Y1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	6.8	9.5	12.0
Heating capacity	Nom.			kW	7.5	10.8	13.5	7.5	10.8	13.5
Power input	Cooling	Nom.		kW	1.68	2.46	3.54	1.68	2.46	3.54
	Heating	Nom.		kW	1.84	2.73	3.95	1.84	2.73	3.95
Seasonal efficiency (according to EN14825)	Cooling	Energy label			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	366	544	749	366	544	749
	Heating (Average climate)	Energy label			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	2,533	3,516	4,456	2,533	3,516	4,456
Nominal efficiency	EER				4.05	3.86	3.39	4.05	3.86	3.39
	COP				4.08	3.95	3.42	4.08	3.95	3.42
	Annual energy consumption			kWh	840	1,230	1,770	840	1,230	1,770
	Energy label	Cooling			A			A		
		Heating			A		B	A		B

Indoor unit				FUQ	71C	100C	125C
Casing	Colour				Fresh White		
Dimensions	Unit	HeightxWidthxDepth		mm	198x950x950		
Weight	Unit			kg	25	26	
Air filter	Type				Resin net with mold resistance		
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	23/19.5/16	31/25.5/20	32.5/26.5/20.5
	Heating	High/Nom./Low		m^3/min	23/19.5/16	31/25.5/20	32.5/26.5/20.5
Sound power level	Cooling			dBA	59	64	65
	Heating			dBA	59	64	65
Sound pressure level	Cooling	High/Nom./Low		dBA	41/38/35	46/42/39	47/43/40
	Heating	High/Nom./Low		dBA	41/38/35	46/42/39	47/43/40
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220		
Control systems	Infrared remote control				BRC7C58		
	Wired remote control				BRC1D52 / BRC1E52A/B		

Outdoor unit				RZQG	71L9V1	100L9V1	125L9V1	71L8Y1	100L8Y1	125L8Y1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320		990x940x320	1,430x940x320	
Weight	Unit			kg	77	99		80	101	
Sound power level	Cooling			dBA	64	66	67	64	66	67
Sound pressure level	Cooling	Nom.		dBA	48	50	51	48	50	51
	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/GWP			kg	R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5		R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5	
	Charge			TCO_2Eq	6.1	8.4		6.1	8.4	
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					
		IU - IU	Max.	m	0.5					
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	-			16	25	

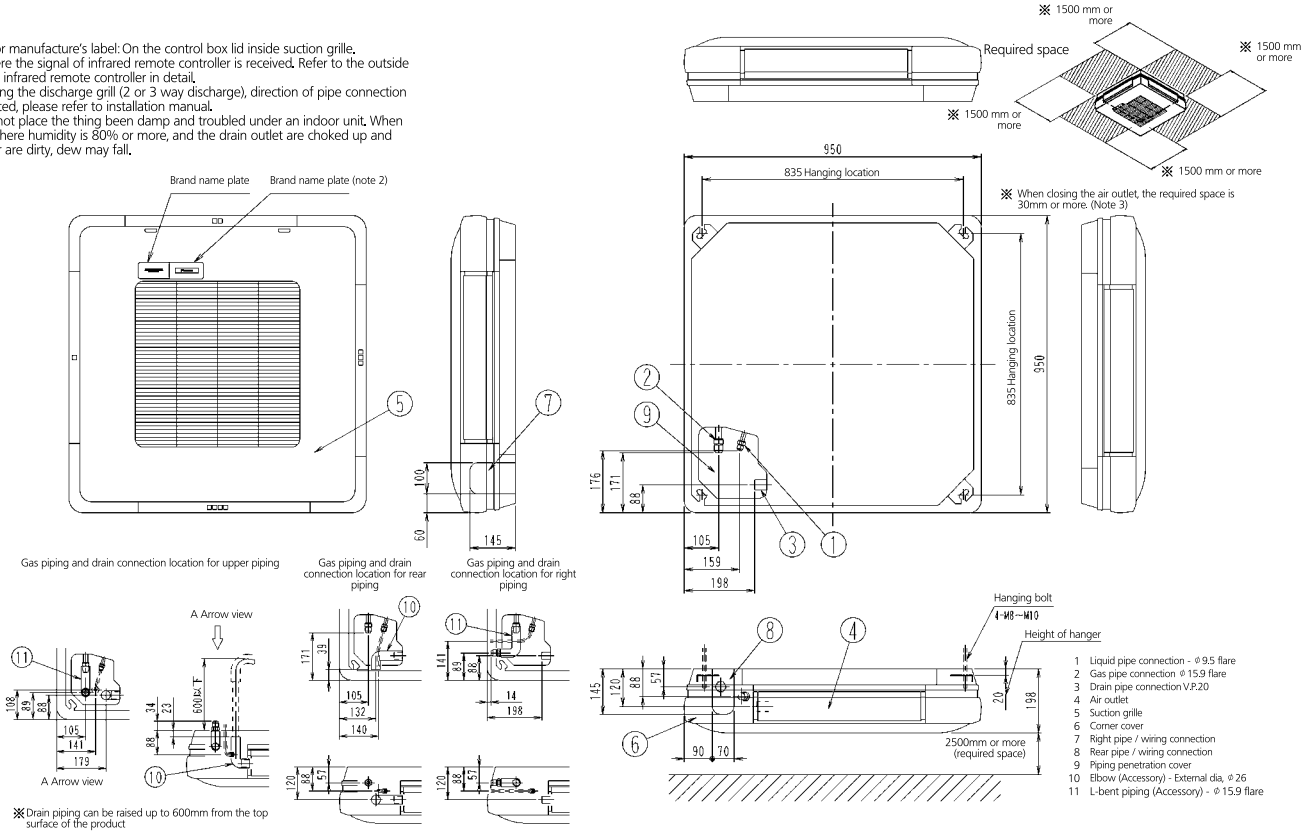
(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

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)



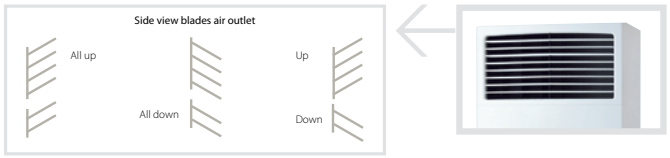
Seasonal Classic

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 BRC1E52).
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.



Efficiency data				FVQ + RZQSG	71C + 71L3V1	100C + 100L9V1	125C + 125L9V1	140C + 140L9V1	100C + 100L8Y1	125C + 125L8Y1	140C + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.12	2.96	4.27	4.45	2.96	4.27	4.45
	Heating	Nom.		kW	2.08	2.99	3.96	4.54	2.99	3.96	4.54
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A			-	A		-
		Pdesign		kW	6.80	9.50	12.00	-	9.50	12.00	-
		SEER			5.50			-	5.50		-
		Annual energy consumption		kWh	433	605	764	-	605	764	-
	Heating (Average climate)	Energy label			A	A+	A	-	A+	A	-
		Pdesign		kW	6.33	7.60		-	7.60		-
		SCOP			3.86	4.01	3.85	-	4.01	3.85	-
		Annual energy consumption		kWh	2,296	2,653	2,764	-	2,653	2,764	-
Nominal efficiency	EER				3.21		2.81	3.01	3.21	2.81	3.01
	COP				3.61		3.41		3.61	3.41	
	Annual energy consumption			kWh	1,060	1,480	2,135	2,225	1,480	2,135	2,225
	Energy label	Cooling			A			-	A		-
		Heating			A		B	-	A	B	-

Indoor unit				FVQ	71C	100C	125C	140C
Casing	Colour				Fresh White			
Dimensions	Unit	HeightxWidthxDepth		mm	1,850x600x270	1,850x600x350		
Weight	Unit			kg	39	47		
Air filter	Type				Resin net with mold resistance			
Fan - Air flow rate	Cooling	High/Nom./Low		m^3/min	18/16/14	28/25/22	28/26/24	30/28/26
	Heating	High/Nom./Low		m^3/min	18/16/14	28/25/22	28/26/24	30/28/26
Sound power level	Cooling			dBA	55	62	63	65
	Heating			dBA	55	62	63	65
Sound pressure level	Cooling	High/Nom./Low		dBA	43/41/38	50/47/44	51/48/46	53/51/48
	Heating	High/Nom./Low		dBA	43/41/38	50/47/44	51/48/46	53/51/48
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50/60 / 220-240/220			
Control systems	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit				RZQSG	71L3V1	100L9V1	125L9V1	140L9V1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	77		99	82		101
Sound power level	Cooling			dBA	65	70		69		70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-		54/-	53/-
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49					
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge/GWP			kg	R-410A / 2.75 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5
	Charge			TCO_2Eq	5.7	6.1		8.4	6.1		8.4
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
		IU - IU	Max.	m	0.5						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-			20		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

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

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

BRC1E52A-B

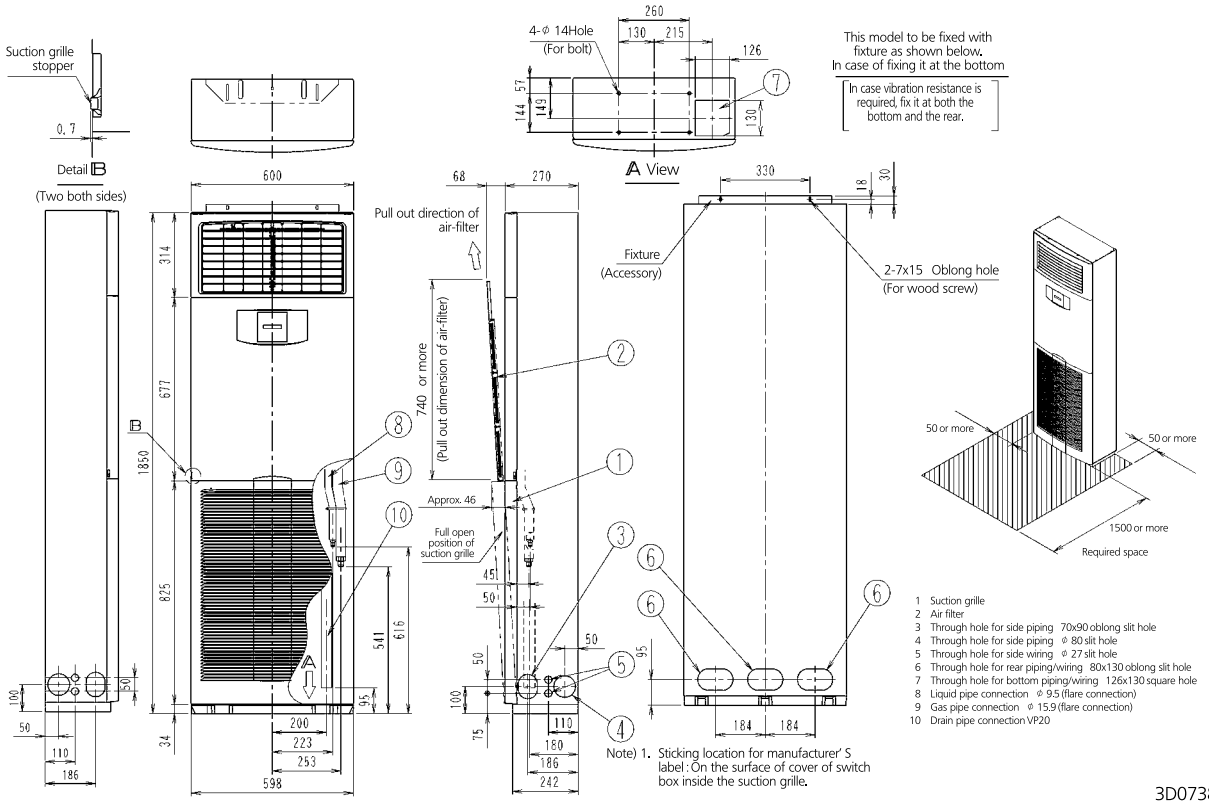
Efficiency data				FVQ + RZQG	71C + 71L9V1	100C + 100L9V1	125C + 125L9V1	140C + 140L9V1	71C + 71L8Y1	100C + 100L8Y1	125C + 125L8Y1	140C + 140LY1
Cooling capacity	Nom.			kW	6.8	9.5	12.0	13.4	6.8	9.5	12.0	13.4
Heating capacity	Nom.			kW	7.5	10.8	13.5	15.5	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.		kW	2.02	2.49	3.74	4.17	2.02	2.49	3.74	4.17
	Heating	Nom.		kW	2.06	2.61	3.65	4.30	2.06	2.61	3.65	4.30
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++	A+		-	A++	A+		-
		Pdesign		kW	6.80	9.50	12.00	-	6.80	9.50	12.00	-
		SEER			6.31	5.61		-	6.31	5.61		-
		Annual energy consumption		kWh	377	593	749	-	377	593	749	-
	Heating (Average climate)	Energy label			A+		A	-	A+		A	-
		Pdesign		kW	6.33	11.30		-	6.33	11.30		-
		SCOP			4.05	4.20	3.87	-	4.05	4.20	3.87	-
		Annual energy consumption		kWh	2,188	3,767	4,088	-	2,188	3,767	4,088	-
Nominal efficiency	EER				3.37	3.81	3.21		3.37	3.81	3.21	
	COP				3.64	4.14	3.70	3.61	3.64	4.14	3.70	3.61
	Annual energy consumption			kWh	1,010	1,245	1,870	2,085	1,010	1,245	1,870	2,085
	Energy label	Cooling			A			-	A			-
		Heating			A			-	A			-

Indoor unit				FVQ	71C	100C	125C	140C
Casing	Colour				Fresh White			
Dimensions	Unit	HeightxWidthxDepth	mm		1,850x600x270	1,850x600x350		
Weight	Unit		kg		39	47		
Air filter	Type				Resin net with mold resistance			
Fan - Air flow rate	Cooling	High/Nom./Low	m^3/min		18/16/14	28/25/22	28/26/24	30/28/26
	Heating	High/Nom./Low	m^3/min		18/16/14	28/25/22	28/26/24	30/28/26
Sound power level	Cooling		dBA		55	62	63	65
	Heating		dBA		55	62	63	65
Sound pressure level	Cooling	High/Nom./Low	dBA		43/41/38	50/47/44	51/48/46	53/51/48
	Heating	High/Nom./Low	dBA		43/41/38	50/47/44	51/48/46	53/51/48
Power supply	Phase / Frequency / Voltage		Hz / V		1~ / 50/60 / 220-240/220			
Control systems	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit					RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm		990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg		77	99			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/GWP			kg		R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5			R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5		
	Charge			TCO_2Eq		6.1	8.4			6.1	8.4		
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							
		IU - IU	Max.	m		0.5							
Power supply	Phase / Frequency / Voltage			Hz / V		1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A		-				16	25		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

FVQ71C



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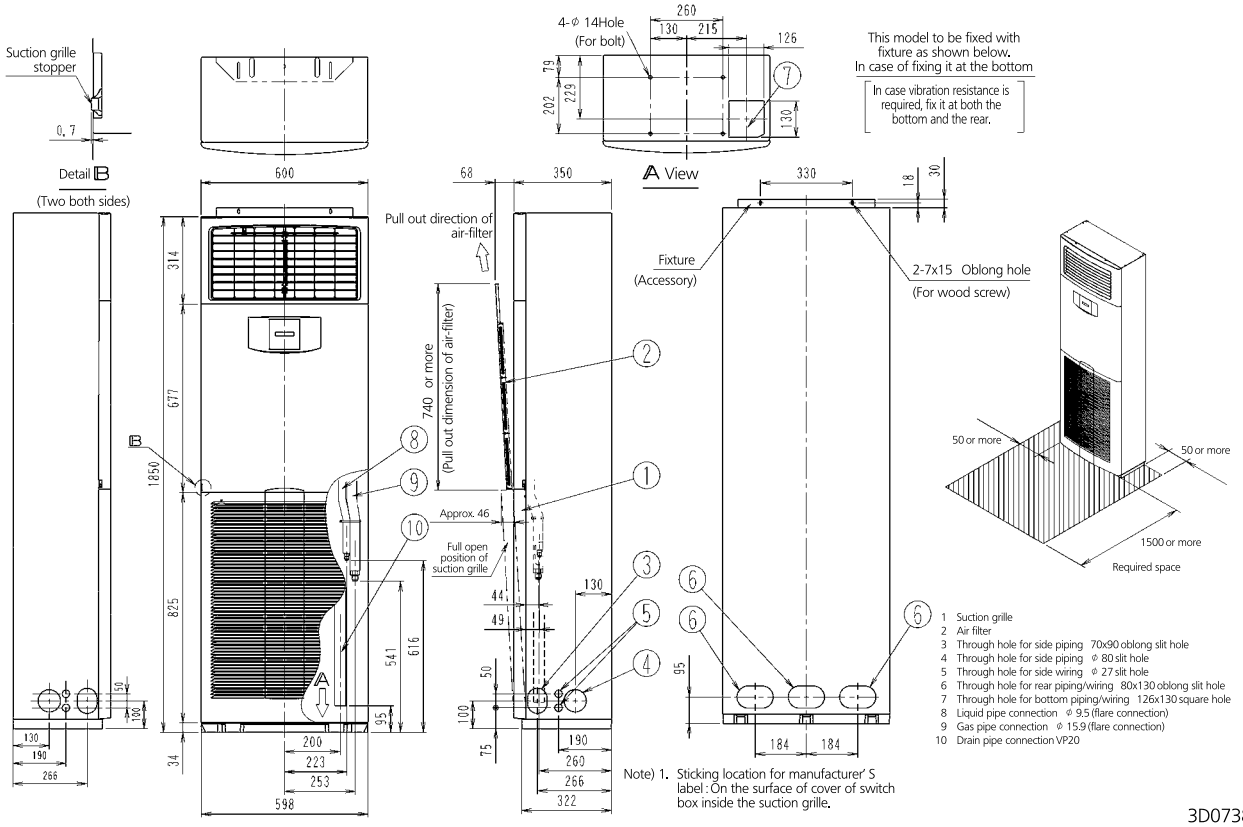
FVQ100-125-140C



3D073847

Concealed floor standing unit

Designed to be concealed in walls

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

- Its low height (620mm) enables the unit to fit perfectly beneath a window
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Requires very little installation space as the depth is only 200mm
- High ESP allows flexible installation

FNQ-A

RXS35L3

BRC1E52A-B,BRC4C65

Efficiency data				FNQ + RXS	*25A + 25L3	*35A + 35L3	*50A + 50L	*60A + 60L
Cooling capacity	Nom.			kW	2.4	3.4	5.0	6.0
Heating capacity	Nom.			kW	3.2	4.0	5.8	7.0
Power input	Cooling	Nom.		kW	0.65	1.06	1.65	2.06
	Heating	Nom.		kW	0.80	1.15	1.87	2.18
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A+	A	A+	A
		Pdesign		kW	2.4	3.4	5.0	6.0
		SEER			5.63	5.21	5.72	5.51
		Annual energy consumption		kWh	149	228	306	381
	Heating (Average climate)	Energy label			A+	A		
		Pdesign		kW	2.6	2.9	4.0	4.6
		SCOP			4.24	3.88	3.93	3.80
		Annual energy consumption		kWh	858	1,047	1,425	1,693
Nominal efficiency	EER				3.69	3.21	3.03	2.91
	COP				4.00	3.48	3.10	3.21
	Annual energy consumption			kWh	325	530	825	1,031
	Energy label	Cooling			A		B	C
		Heating			A	B	D	C

Indoor unit				FNQ	*25A	*35A	*50A	*60A
Dimensions	Unit	HeightxWidthxDepth		mm	620x760x200		620x1,150x200	
Weight	Unit			kg	21		30	
Fan - Air flow rate	Cooling	High/Low		m^3/min	8.7/7.3		16.0/13.5	
Sound power level	Cooling			dBA	-			
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 230		1~ / 50 / 220-240	
Control systems	Infrared remote control				BRC4C65			
	Wired remote control				BRC1D52 / BRC1E52A/B			

Outdoor unit				RXS	25L3	35L3	50L	60L
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x825x300	
Weight	Unit			kg	34		47	48
Sound power level	Cooling			dBA	59	61	62	
	Heating			dBA	59	61	62	
Sound pressure level	Cooling	High/Low		dBA	46/43	48/44	48/44	49/46
	Heating	High/Low		dBA	47/44	48/45	48/45	49/46
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-10~46		-10~46	
	Heating	Ambient	Min.~Max.	°CWB	-15~18		-15~18	
Refrigerant	Type/Charge/GWP			kg	R-410A / 1 / 2,087.5	R-410A / 1.2 / 2,087.5	R-410A / 1.7 / 2,087.5	R-410A / 1.5 / 2,087.5
	Charge			TCO_2Eq	2.09	2.51	3.5	3.1
Piping connections	Liquid	OD		mm	6.4		6.35	
	Gas	OD		mm	9.5		12.7	
	Piping length	OU - IU	Max.	m	20		30	
	Additional refrigerant charge			kg/m	0.020 (for piping length exceeding 10m)			
	Level difference	IU - OU	Max.	m	15		20.0	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A	-		-	

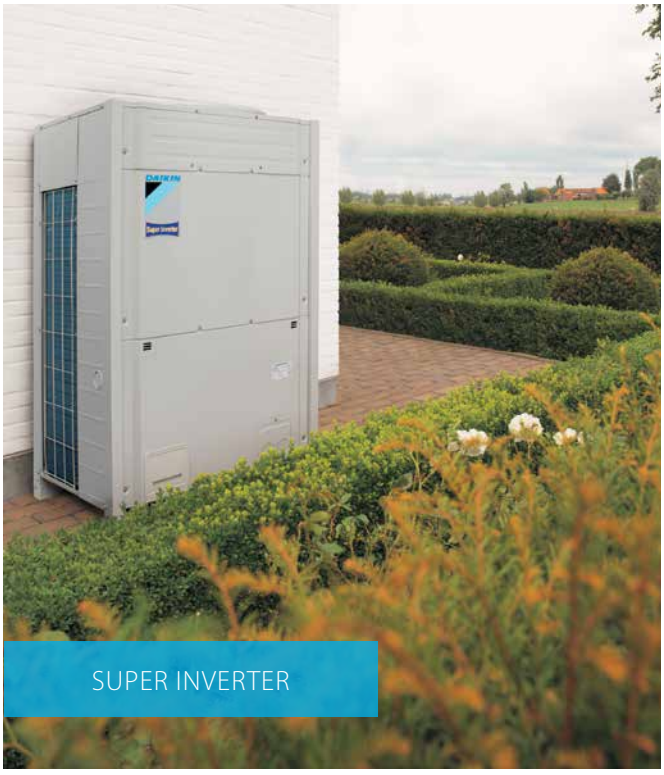
*Note: blue cells contain preliminary data

(1) EER/COP according to Eurovent 2012 for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

No detailed technical drawings available yet


SEASONAL SMART


SEASONAL CLASSIC


SUPER INVERTER

Outdoor units

Pair, twin, triple, double twin and multi model applications

in every room

› A split system combines a single indoor unit with a single outdoor unit.

in long or irregularly shaped rooms

› A twin/triple/double twin application allows up to 4 indoor units to operate in L-shaped, U-shaped or long rooms, powered by a single outdoor unit.
› All the indoor units are controlled at the same time. Ideal comfort in every part of the room.
› Delivery of optimum efficiency and comfort in each part of a long or irregularly shaped room.

in multiple rooms with only 1 outdoor unit

› A multi application allows up to 9 indoor units to be connected to a single outdoor unit.
› Different types of indoor units can be connected and all can operate and be controlled individually.
› The ideal indoor unit can be selected for the bedroom, living room, office, meeting room or wherever, according to the installation surface or personal requirements.

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

Products overview outdoor units

Pair, twin, triple & double twin application

Capacity class (kW)

System	Type	Model	Productname		71	100	125	140	200	250
Air cooled	Heat pump	Seasonal Smart - Industry leading technology for commercial applications and even for computer rooms - Top efficient outdoor units - Variable Refrigerant Temperature - Computer room applications - Replacement technology - Extended operation range down to -20°C in heating - Pair, twin, triple and double twin application	RZQG-L9V1		●	●	●	●		
			RZQG-L(8)Y1		●	●	●	●		
		Seasonal Classic - Technology and comfort combined for commercial applications - Top efficient outdoor units - Replacement technology - Operation range down to -15°C in heating - Pair, twin, triple and double twin application	RZQSG-L3/ L9V1		●	●	●	●		
			RZQSG-L(8)Y1			●	●	●		
		Super Inverter - For large commercial applications - Pair, twin, triple and double twin applications	RZQ-C						●	●
		Siesta, outdoor unit - Ideal solution for primary cooling and heating - Easy-to-mount outdoor units: roof, terrace or wall - Outdoor units with swing or scroll compressor - Exclusively for pair application	AZQS-B8V1		●	●	●	●		
			AZQS-BY1			●	●	●		

Multi model application

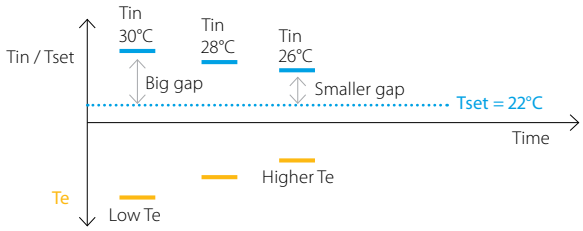
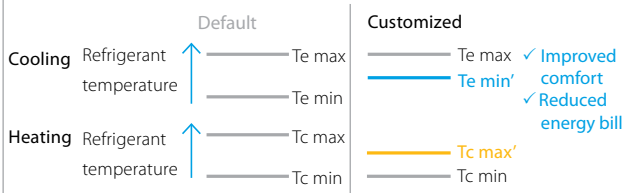
System	Type	Model	Productname		40	50	52	68	80	90
Air cooled	Heat pump	Multi model application - Up to 5 indoor units can be connected to a single outdoor unit - Individual control of the indoor units - Different types of indoor units can be combined in one installation - Phased installation possible - Maximum total piping length of 25m offers solution for light commercial or residential applications	2MXS-H		●	●				
			3MXS-K		●					
			3MXS-E				●			
			3MXS-G					●		
			4MXS-F					●		
			4MXS-E						●	
			5MXS-E							●

System	Type	Model	Productname		4	5	6
Air cooled	Heat pump	VRV for residential application - Up to 9 indoor units can be connected to a single VRV outdoor unit - Individual control of the indoor units - Different types of indoor units can be combined in one installation. Even combination with VRV indoor units or combination with split and Sky Air units is possible. - Phased installation possible - Maximum total piping length of 145m offers much more flexibility in choosing the perfect installation position - Branch providers unit varies the refrigerant volume to meet the cooling or heating requirement	RXYSQ-P8V1		●	●	●

Benefits overview outdoor units

			RZQG-L9V1/L(8)Y1-	RZQSG-L3/9V1/L(8)Y1	RZQ-C	AZQS-B8V1/BY1	MXS-E/F/G/H/K	RXYSQ-P8V1
								
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.	●					●
	Technical cooling	For high sensible, technical cooling applications, dedicated technical 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

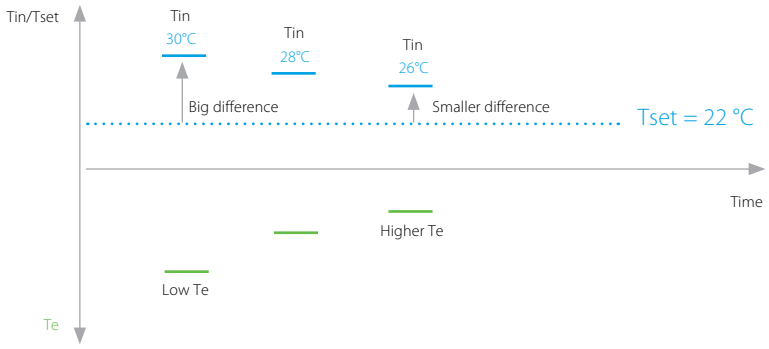
		Seasonal Smart (RZQG)	Seasonal Classic (RZQSG)	Siesta Sky Air (AZQS)
				
Seasonal effciency		Up to A++		Up to B
Max. piping		Up to 75m	Up to 50m	
Operation range	Cooling	-15°C~50°C	-15°C ~46°C	-5°C ~46°C
	Heating	-20°C~15.5°C	-15°C ~15.5°C	
EDP settings		Suits technical cooling room applications	-	-
Special features		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 comprimising efficiency. 		
		Variable Refrigerant Temperature 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. 	-	-
		Night quiet mode function Night quiet function: max. 5 dB(A) At night, the sound level of the outdoor unit can be reduced for a certain period by limiting the maximum compressor frequency and fan speed: the start and end times can be set. The night quiet function can be enabled according to end user preferences using two different modes: Mode 1: automatic mode • Set via the remote control. • Time of the maximum temperature is memorised. • The low operating mode will become active 8 hours* after the peak temperature in daytime and operation will return to normal after 10 hours of low noise operation*. Mode 2: customised mode • Start and end times can be set using an external timer control (optional adapter SB.KRP58M51 and KRP58M51). • Field supplied timer switch required for RZQ(S)G71-140). * Notes: For factory settings: please refer to the service manual of these units.		-
Connectable indoor units		 4-Way blow ceiling suspended cassette  Round flow cassette  Ceiling suspended unit  Fully flat cassette Wall mounted unit	 Concealed floor standing unit  Floor standing unit  Concealed ceiling unit	 4-Way blow ceiling suspended cassette  Concealed ceiling unit  Ceiling suspended unit
Application		Pair		
		Twin/triple/double twin		-
Benefits		› For all types of commercial applications, even technical rooms › 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	› Solution addressing the primary needs of busy retail and business environments and small shops

Variable Refrigerant Temperature

Customised, intelligent and efficient solution

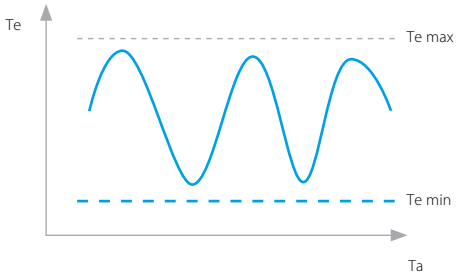
Daikin Sky Air systems are designed to adapt their operation intelligently to meet your customers' specific heating and cooling requirements, without compromising efficiency.

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 ensures peace of mind at all times without any need for manual adjustment.

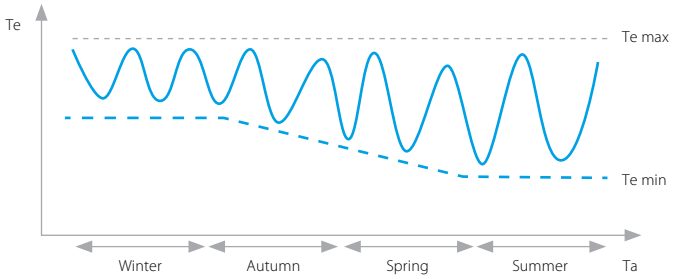


Cooling

Default

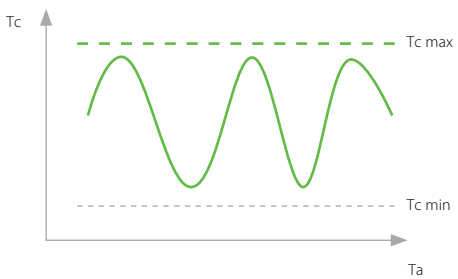


Customised

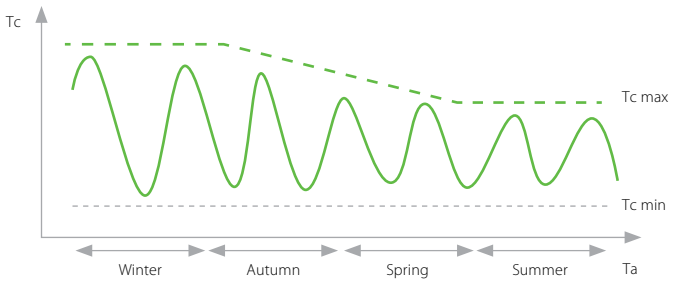


Heating

Default



Customised



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

RZQG-L9V1/L(8)Y1

Seasonal Smart

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**
- **Advanced and leading technologies**

  integrated into 1 system
- **Highest seasonal efficiency values**

  (when compared with other systems under the same test conditions)
- **High adaptability:** up to 75m pipe run

Top seasonal efficiency

SEASONAL EFFICIENCY
Smart use of energy

› Heat exchanger **optimises the refrigerant flow** at the most frequent operation conditions
› **Control logic** optimises efficiency during the most frequently encountered operation conditions and optimises the auxiliary modes
› Swing compressor

Efficiency is enhanced even further thanks to the VRT settings

Optimum comfort

Variable Refrigerant Temperature

› Variable refrigerant temperature to suit application requirements better: comfortable office environment or reliable technical cooling environment

High adaptability

› Re-use of existing pipework of R-22 and R-407C systems
› Wide operation range for cooling (down to -15°C) and for heating (down to -20°C)
› Long pipe runs (up to 75m)
› Gas cooled PCB (L9V1)
› Easy accessibility to PCB (L9V1)
› Suits computer room applications (EDP)
› Wide range of indoor units connectable

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 computer room 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 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
› Optimum sound and airflow distribution so neighbours are not disturbed
› 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

Seasonal Smart

Pair, Twin, Triple, double twin

Industry leading technology for commercial applications and even for technical rooms

› Best in class efficiency:
- compressor that offers substantial energy savings
- 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)

› 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 computer room applications (EDP)
› Re-use of existing pipework of R-22 or R-407C systems
› Extended operation range down to -20°C in heating
› With gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature.
› Maximum piping length up to 75m, minimum piping length is 5m.

RZQG140L9V1/L(8)Y1

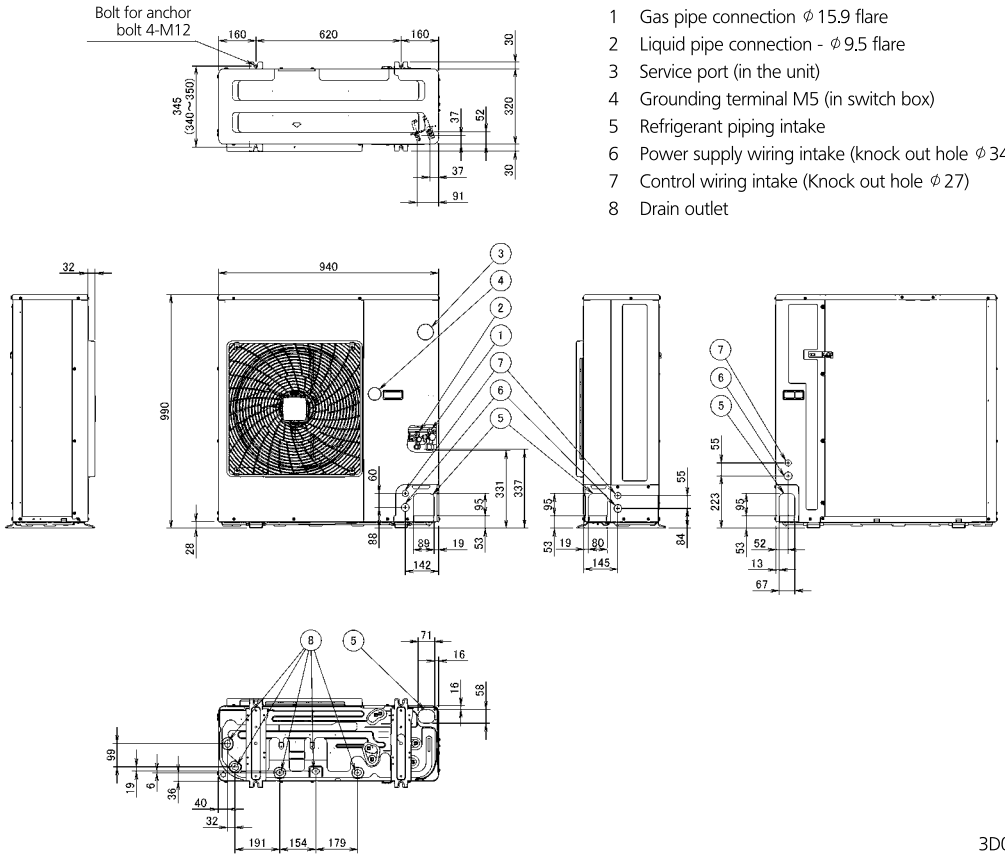
› Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
› Units optimised for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.
› Compatibility with D-BACS

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 unit				RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit			kg	77	99			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/GWP			kg	R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5			R-410A / 2.9 / 2,087.5	R-410A / 4 / 2,087.5		
	Charge			TCO_2Eq	6.1	8.4			6.1	8.4		
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							
		IU - IU	Max.	m	0.5							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415			
Current - 50Hz	Maximum fuse amps (MFA)			A	-				16	25		

RZQG-L9V1/L8Y1



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

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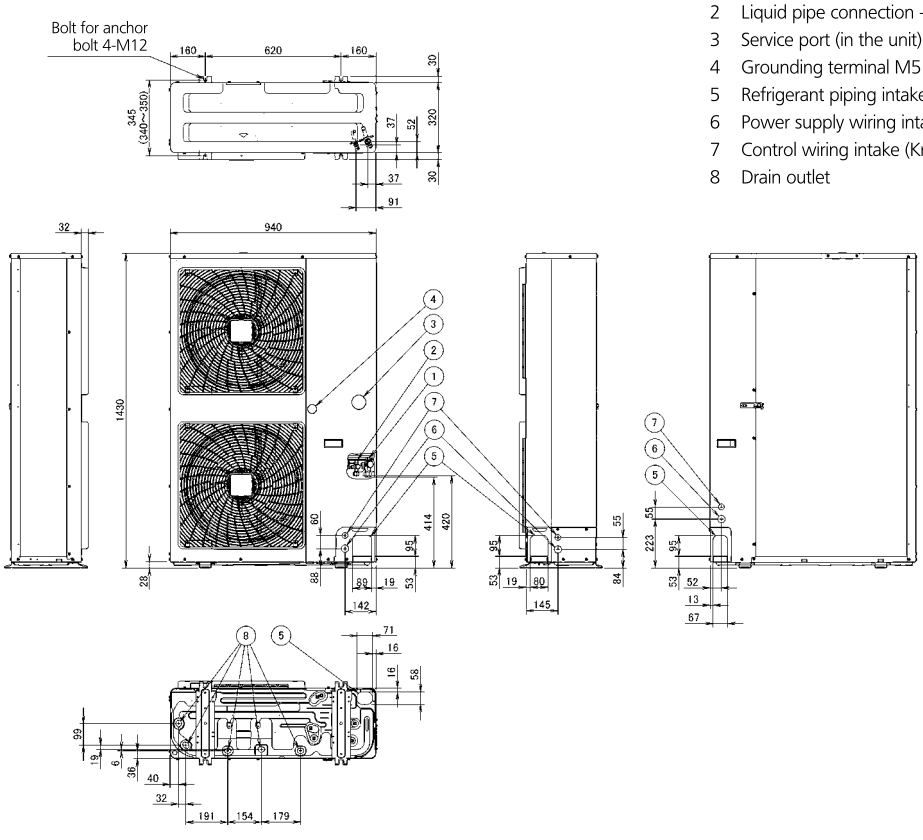
RZQG100-140L9V1/L8Y1



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

RZQG-L9V1/L8Y1

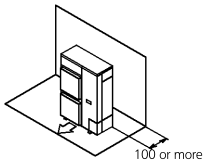
Installation service space

The measure of these values is "mm".

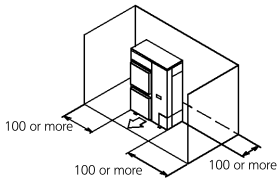
(A) When there are obstacles on suction sides.

- **No obstacle above**

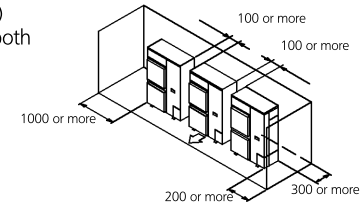
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

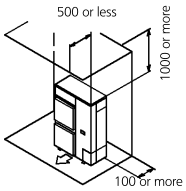


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

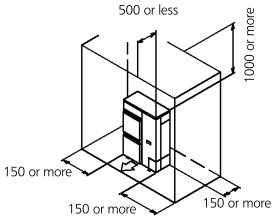


- **Obstacle above, too.**

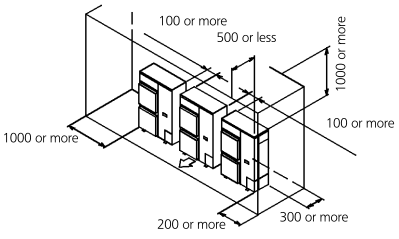
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



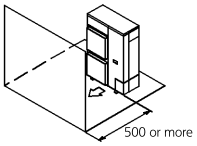
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



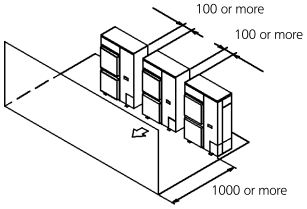
(B) When there are obstacles on discharge sides.

- **No obstacle above**

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

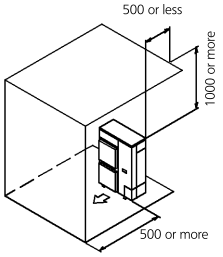


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

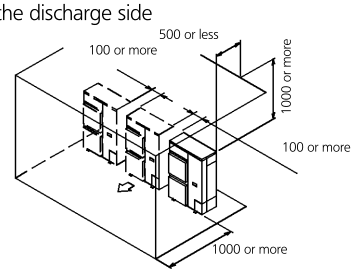


- **Obstacle above, too**

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



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



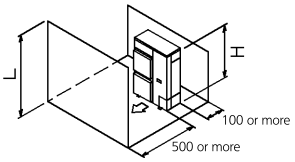
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

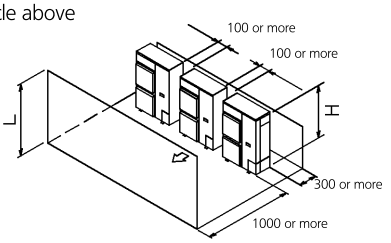
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **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

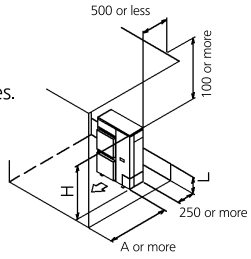
● Obstacle above, too

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	



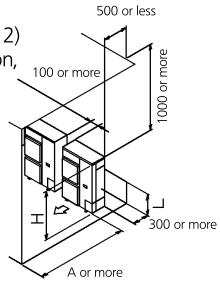
② Series installation (2 or more) (Note 1, 2)

- 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.



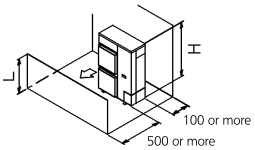
Pattern 2

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

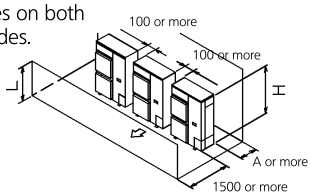


② Series installation (2 or more) (Note 1, 2)

- 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



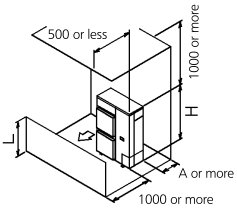
● obstacle above

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	



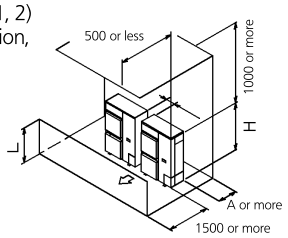
② Series installation (2 or more) (Note 1, 2)

- 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	

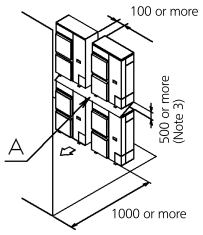
Limit of series installation is 2 units.



(D) Double-decker installation

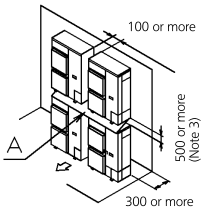
① Obstacle on the discharge side. (1)

- 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.



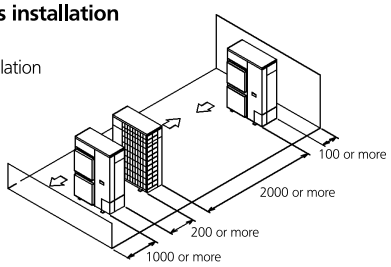
② Obstacle on the suction side. (1)

- 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.



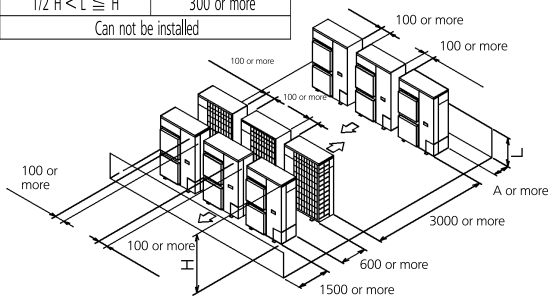
(E) Multiple rows of series installation (on the rooftop, etc.)

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	

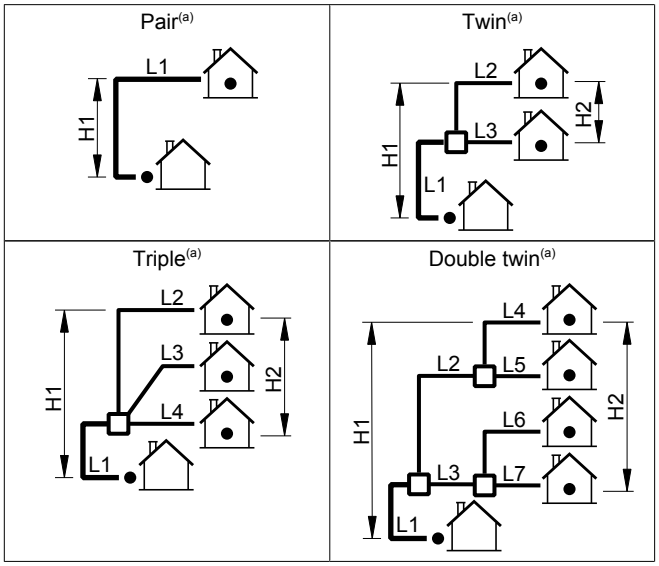


NOTES

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.

3D069554

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)		
L2=7 m (Ø6.4 mm) L3=5 m (Ø6.4 mm) L1=35 m (Ø9.5 mm) RZQG100	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
L2=20 m (Ø6.4 mm) L3=17 m (Ø6.4 mm) L4=17 m (Ø6.4 mm) L1=5 m (Ø9.5 mm) RZQG125	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

Technology and comfort combined for commercial applications

› Efficiency that offers good value for money:
  - compressor that offers substantial energy efficiency
  - 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)
› Re-use of existing pipework of R-22 or R-407C systems

› Guarantees operation in heating mode down to -15°C
› With 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.
› Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
› Units optimised for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.
› Compatibility with D-BACS

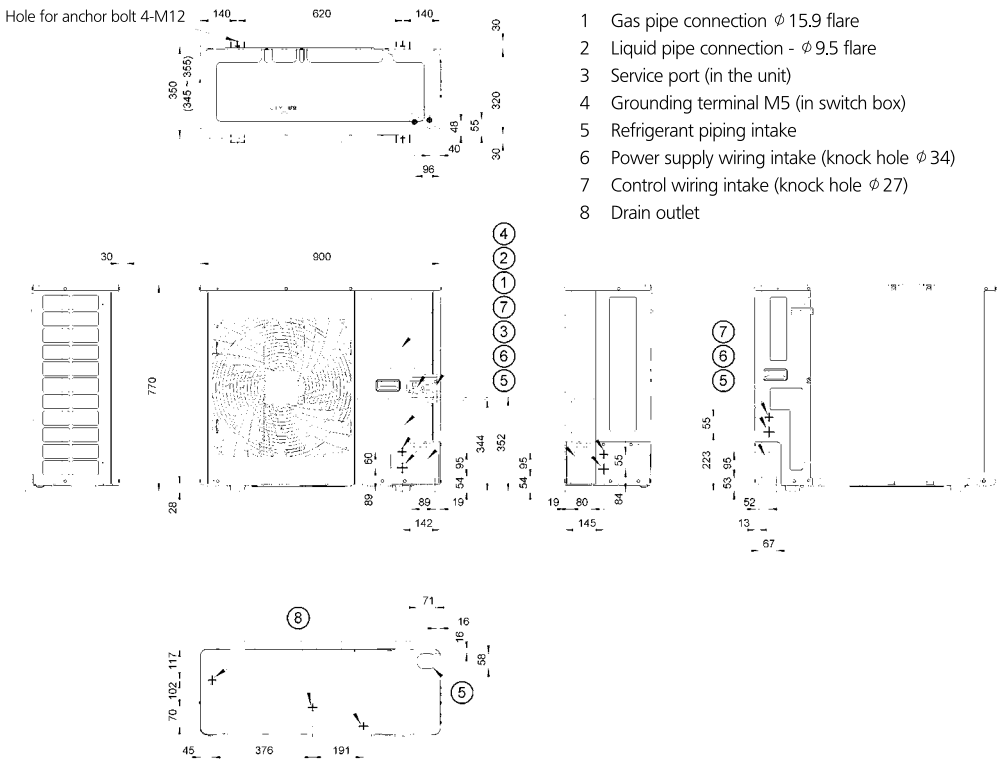
RZQSG100-125L3/9V1/L(8)Y1

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 unit				RZQSG	71L3V1	100L9V1	125L9V1	140L9V1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	990x940x320		1,430x940x320
Weight	Unit			kg	67	77		99	82		101
Sound power level	Cooling			dBA	65	70		69	69	70	69
Sound pressure level	Cooling	Nom./Silent operation		dBA	49/47	53/-	54/-	53/-	53	54	53
	Heating	Nom.		dBA	51	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	-	49			49		
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-15~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge/GWP			kg	R-410A / 2.75 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5	R-410A / 2.9 / 2,087.5		R-410A / 4 / 2,087.5
	Charge			TCO_2Eq	5.7	6.1		8.4	6.1		8.4
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	50						
		System	Equivalent	m	70						
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15	30.0					
		IU - IU	Max.	m	0.5						
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-			20		

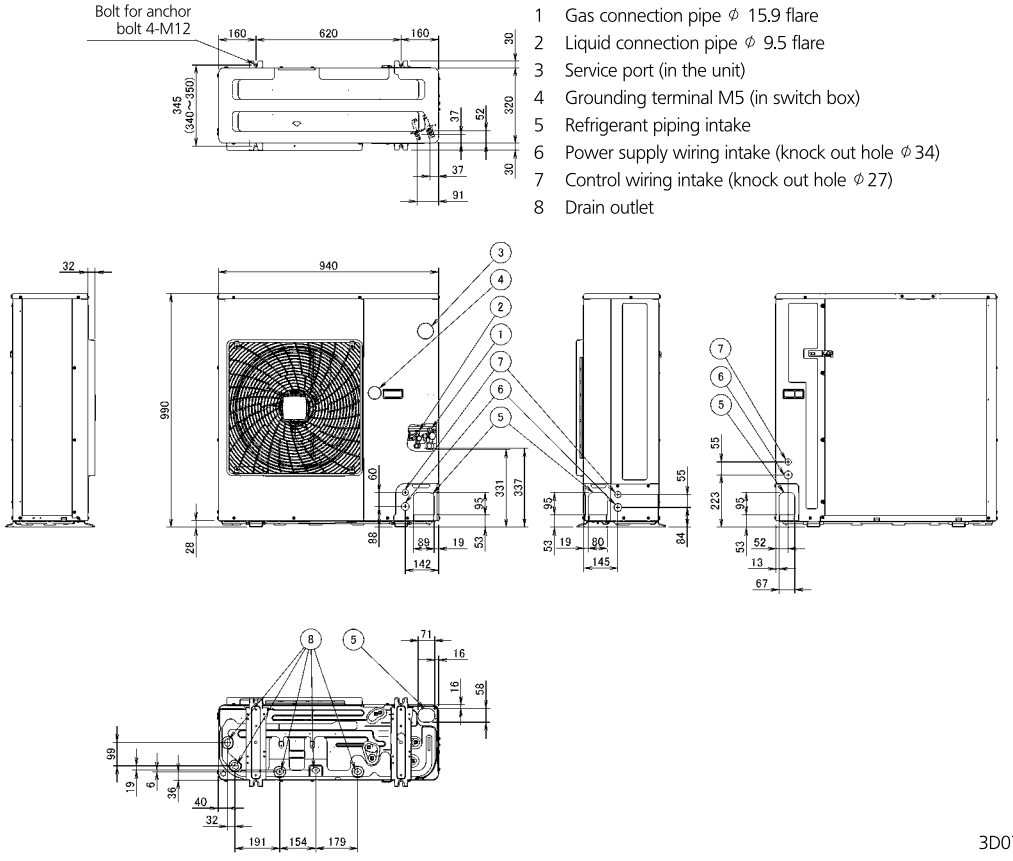
RZQSG71L3V1



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

3D082346

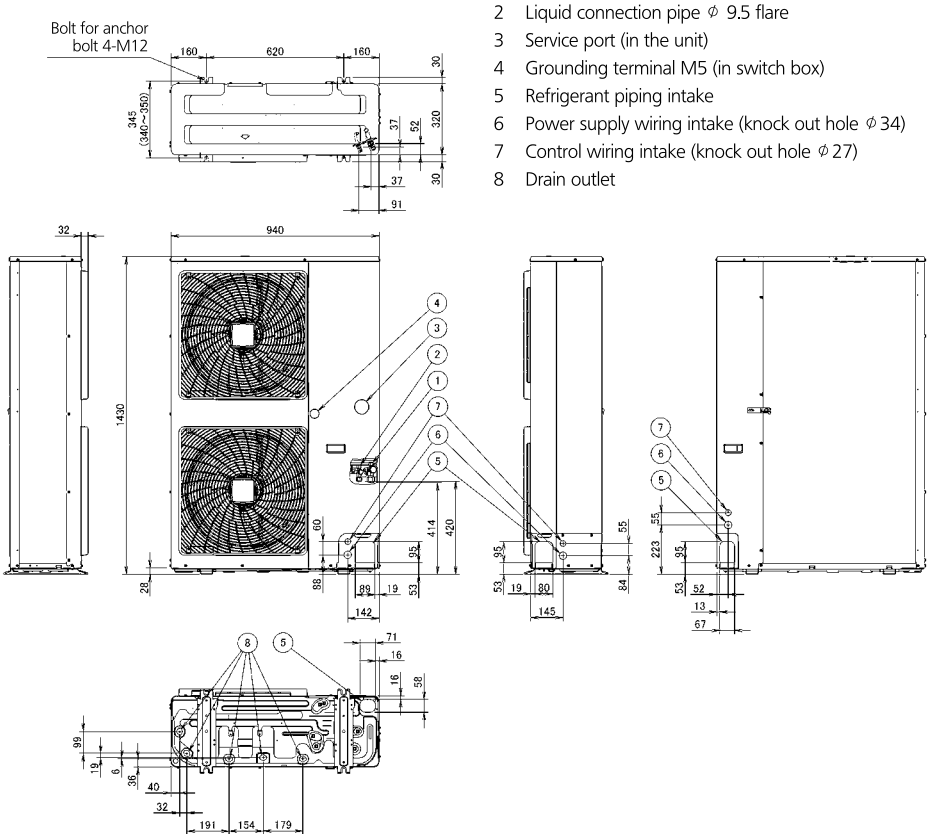
RZQSG100-125L9V1/L8Y1



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

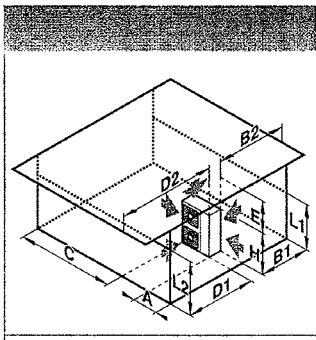


1 Gas connection pipe ϕ 15.9 flare
2 Liquid connection pipe ϕ 9.5 flare
3 Service port (in the unit)
4 Grounding terminal M5 (in switch box)
5 Refrigerant piping intake
6 Power supply wiring intake (knock out hole ϕ 34)
7 Control wiring intake (knock out hole ϕ 27)
8 Drain outlet

3D076346

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<L1≤1/2H	
								≥200(300)						1/2H<L1≤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.

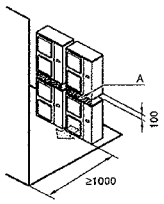
2 In these cases, only 2 units can be installed.

This situation is not allowed.

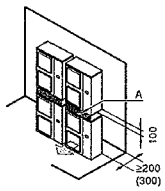
Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

B. Stacked installation

1. Obstacles exist in front of the outlet side



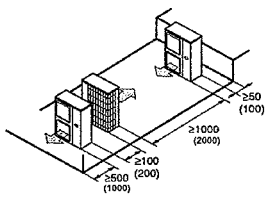
2. Obstacles exist in front of the air inlet



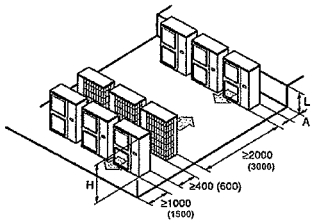
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

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	

3TW26739-4

RZQSG100-140L9V1

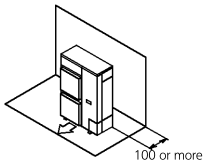
Installation service space

The measure of these values is "mm".

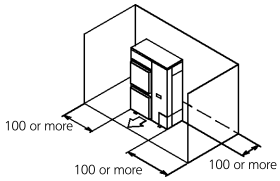
(A) When there are obstacles on suction sides.

- **No obstacle above**

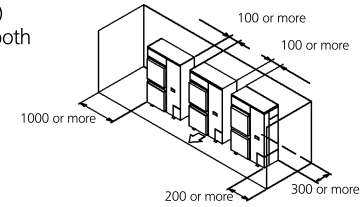
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

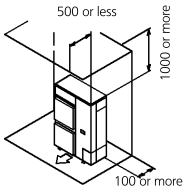


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

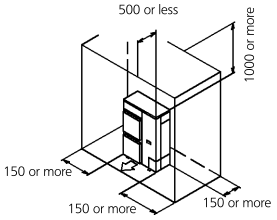


- **Obstacle above, too.**

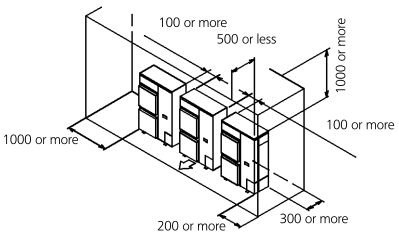
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



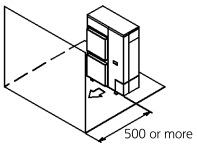
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



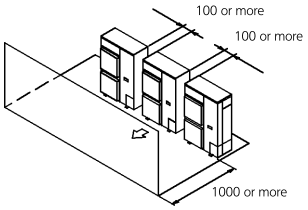
(B) When there are obstacles on discharge sides.

- **No obstacle above**

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

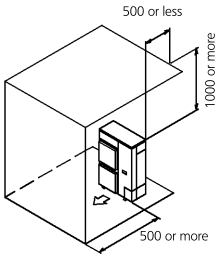


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

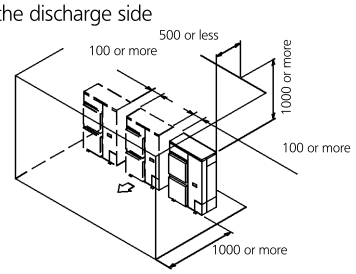


- **Obstacle above, too**

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



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



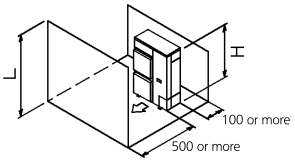
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

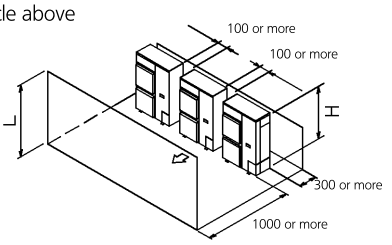
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **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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RZQSG100-140L9V1

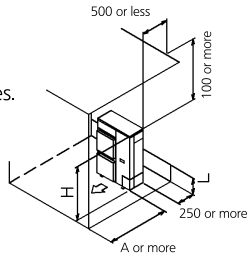
● Obstacle above, too

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	



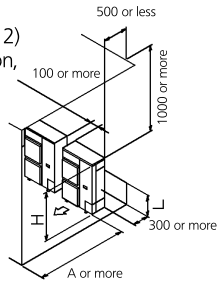
② Series installation (2 or more) (Note 1, 2)

- 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.



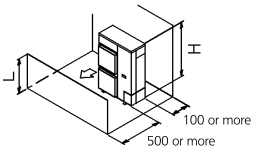
Pattern 2

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

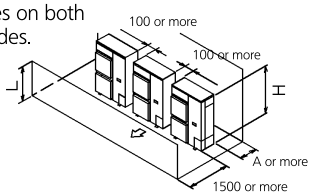


② Series installation (2 or more) (Note 1, 2)

- 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



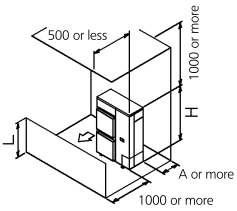
● Obstacle above, too

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	



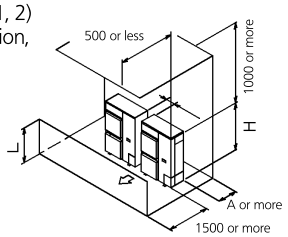
② Series installation (2 or more) (Note 1, 2)

- 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	

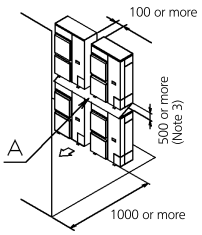
Limit of series installation is 2 units.



(D) Double-decker installation

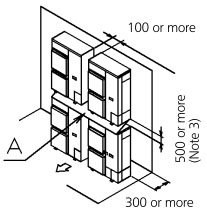
① Obstacle on the discharge side. (Note 1)

- 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.



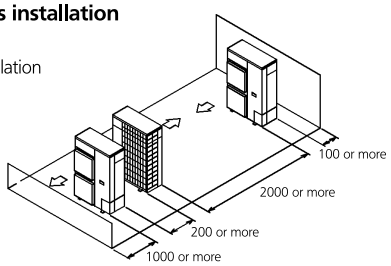
② Obstacle on the suction side. (Note 1)

- 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.



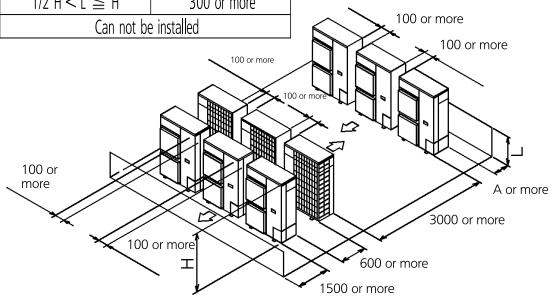
(E) Multiple rows of series installation (on the rooftop, etc.)

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.

3D069554

Pair, Twin, Triple, double twin

Packaged system for commercial applications

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

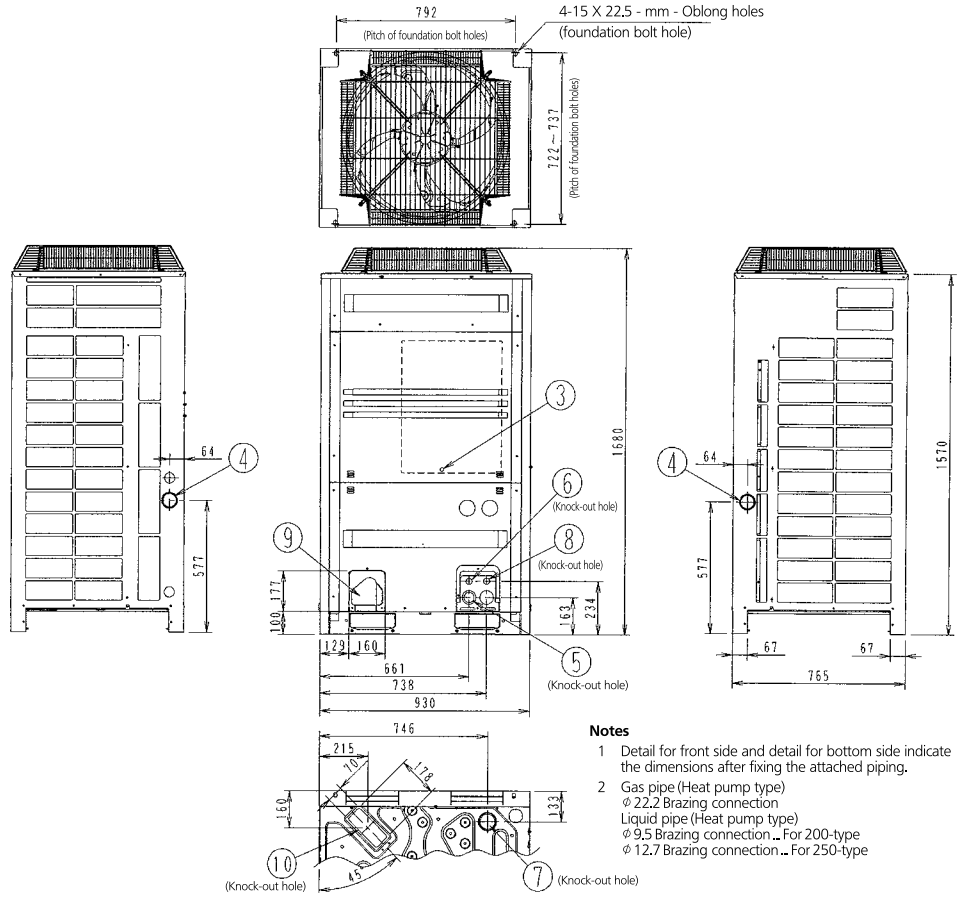
RZQ200-250C

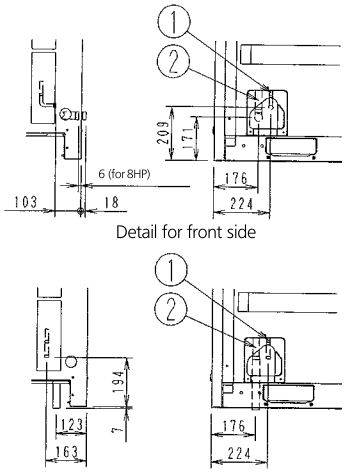
Twin, triple and double twin application

	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 unit				RZQ	200C	250C
Dimensions	Unit	HeightxWidthxDepth		mm	1,680x930x765	
Weight	Unit			kg	183	184
Sound power level	Cooling			dBA	78	
	Heating			dBA	78	
Sound pressure level	Nom.			dBA	57	
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5.0~46.0	
	Heating	Ambient	Min.~Max.	°CWB	-15.0~15.0	
Refrigerant	Type/Charge/GWP			kg	R-410A / 8.3 / 2,087.5	R-410A / 9.3 / 2,087.5
	Charge			TCO_2Eq	17.3	19.4
Piping connections	Piping length	OU - IU	Max.	m	100	
	Level difference	IU - OU	Max.	m	-	
Power supply	Phase / Frequency / Voltage			Hz / V	3N~ / 50 / 380-415	
Current - 50Hz	Maximum fuse amps (MFA)			A	20	

RZQ200-250C





Notes

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

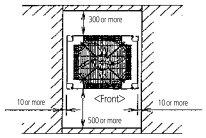
2 Gas pipe (Heat pump type)
Φ 22.2 Brazing connection
Liquid pipe (Heat pump type)
Φ 9.5 Brazing connection .. For 200-type
Φ 12.7 Brazing connection .. For 250-type

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)

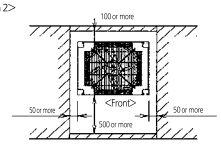
RZQ200-250C

For single unit installation

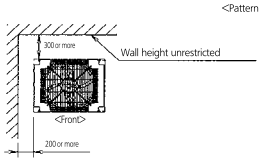
<Pattern 1>



<Pattern 2>

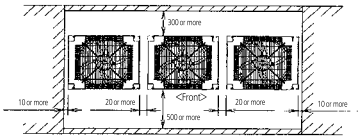


<Pattern 3>

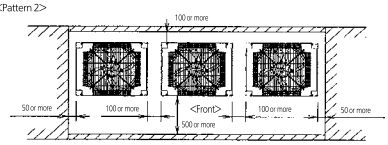


For installation in rows

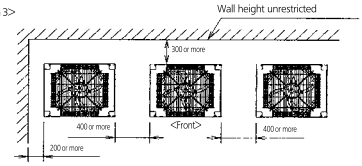
<Pattern 1>



<Pattern 2>

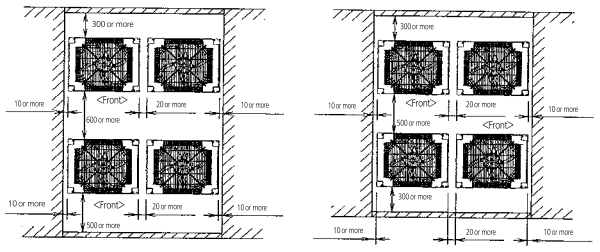


<Pattern 3>

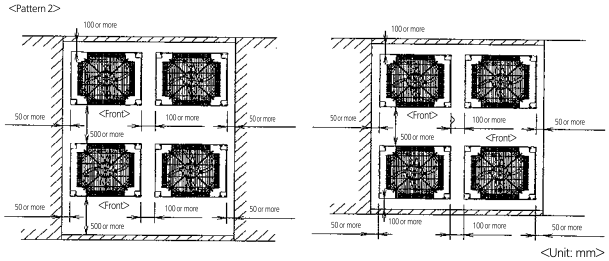


For centralized group layout

<Pattern 1>



<Pattern 2>



<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.

AZQS-B(8)V1/BY1

Ideal solution for busy environments and small shops

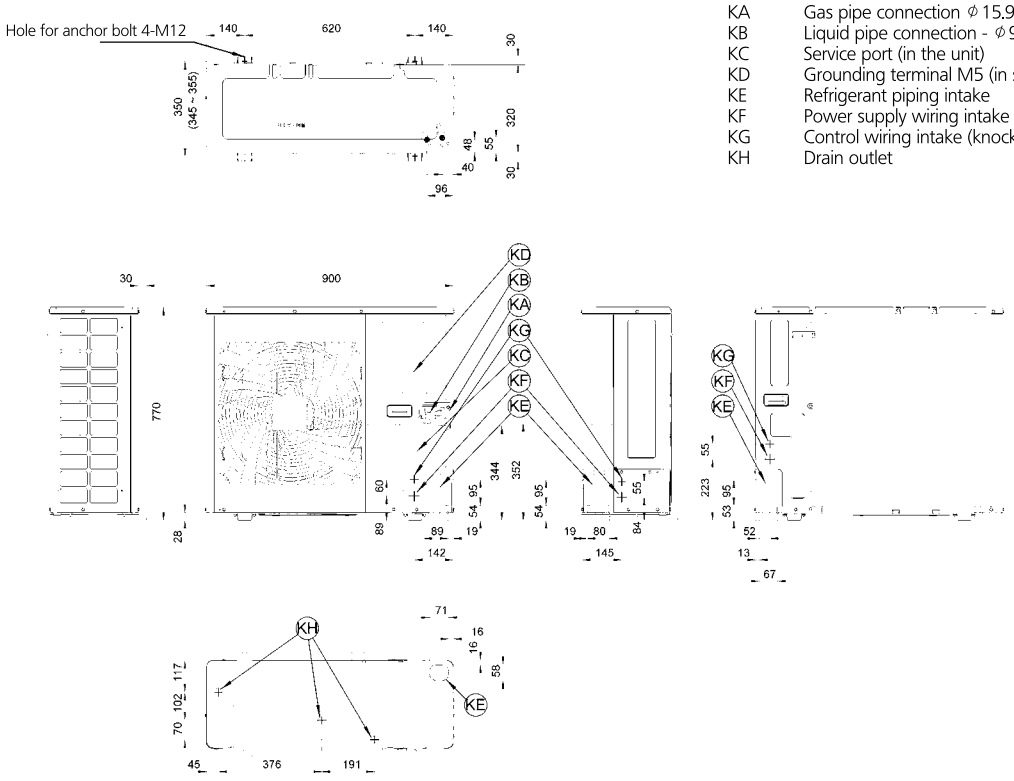
- Siesta Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- With gas cooled PCB reliable cooling is guaranteed as it is not influenced by ambient temperature (single phase)
- Siesta outdoor units are fitted with either a swing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

AZQS140BV1

Outdoor unit				AZQS	71B2V1	100B8V1	125B8V1	140B8V1	100BY1	125BY1	140BY1
Dimensions	Unit	HeightxWidthxDepth		mm	770x900x320	990x940x320		1,430x940x320	-	990x940x320	1,430x940x320
Weight	Unit			kg	67	81		102	-		
Sound power level	Cooling			dBA	65	70	71	70	70	71	70
Sound pressure level	Cooling	Nom./Silent operation		dBA	48/43	53	54/-	53/-	53	54	53
	Heating	Nom.		dBA	50	57	58	54	57	58	54
	Night quiet mode	Level 1		dBA	49						
Operation range	Cooling	Ambient	Min.~Max.	°CDB	-5~46						
	Heating	Ambient	Min.~Max.	°CWB	-15~15.5						
Refrigerant	Type/Charge/GWP			kg	R-410A/2.75/2,087.5	R-410A/2.9/2,087.5		R-410A/4.0/2,087.5	R-410A/2.9/2,087.5		R-410A/4.0/2,087.5
Piping connections	Liquid	OD		mm	9.52						
	Gas	OD		mm	15.9						
	Piping length	OU - IU	Max.	m	30	50					
		System	Equivalent	m	40	70					
			Chargeless	m	30						
	Additional refrigerant charge			kg/m	See installation manual						
	Level difference	IU - OU	Max.	m	15.0	30.0					
		IU - IU	Max.	m	-		0.5				
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240				3N~ / 50 / 380-415		
Current - 50Hz	Maximum fuse amps (MFA)			A	20	-					

AZQS71B2V1

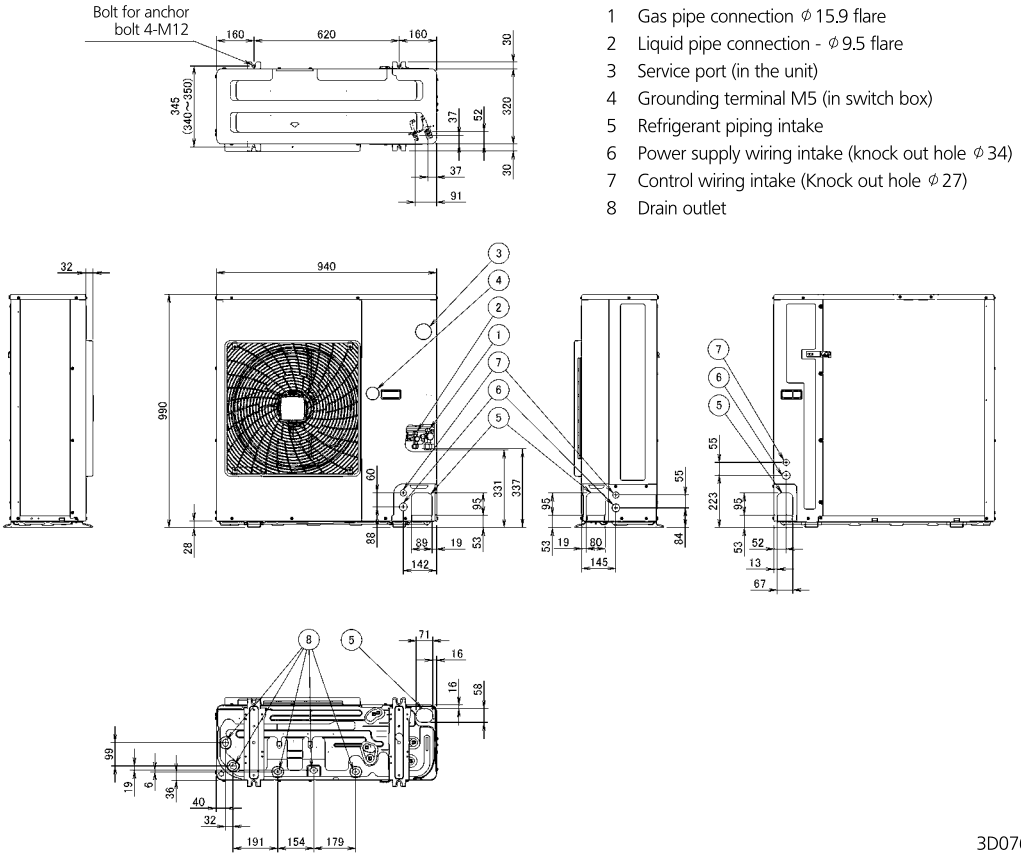
unit (mm)



KA	Gas pipe connection ⌀15.9 flare
KB	Liquid pipe connection - ⌀9.5 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 ⌀34)
KG	Control wiring intake (knock hole ⌀27)
KH	Drain outlet

3D081307

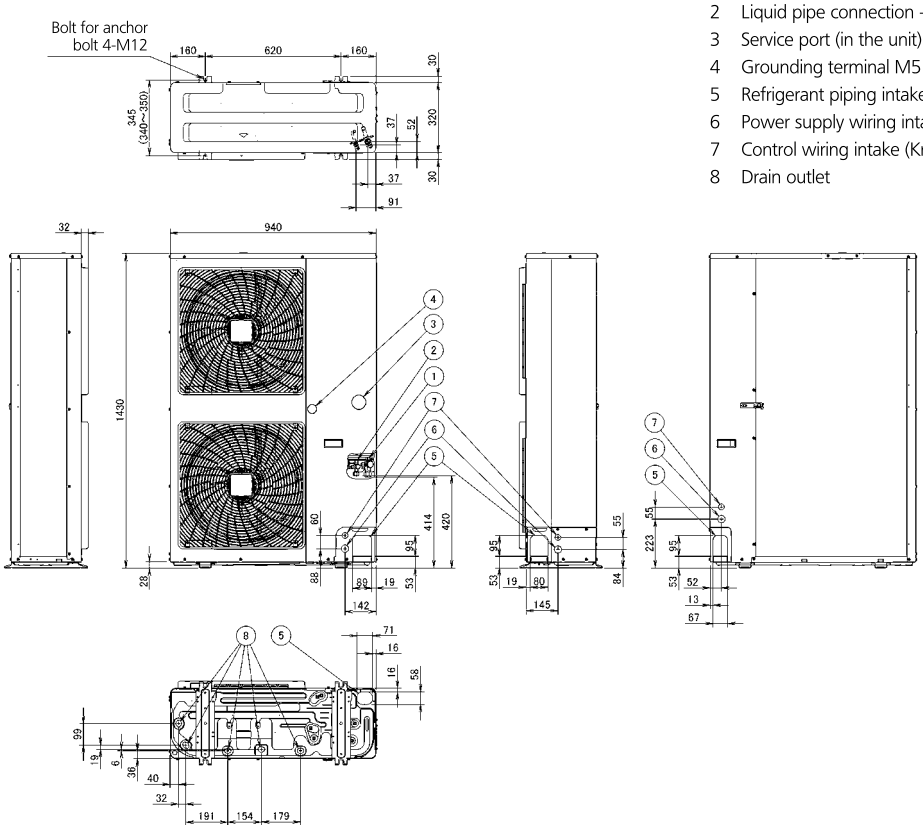
AZQS100-125B8V1/BY1



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

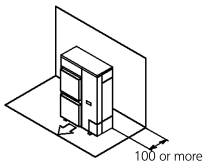
Installation service space

The measure of these values is "mm".

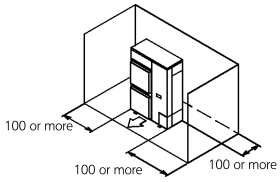
(A) When there are obstacles on suction sides.

- **No obstacle above**

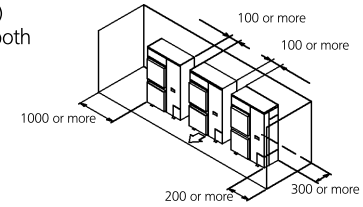
① Stand-alone installation
- Obstacle on the suction side only



- Obstacle on both sides and suction side, too

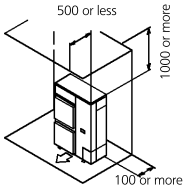


② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides

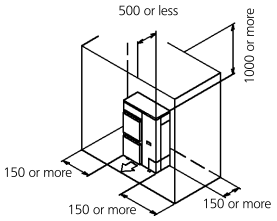


- **Obstacle above, too.**

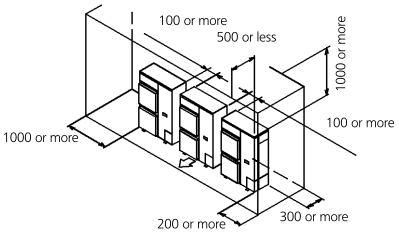
① Stand-alone installation
- Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



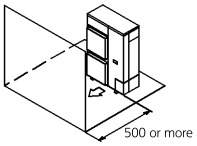
② Series installation (2 or more) (Note 1)
- Obstacle on the suction side and both sides



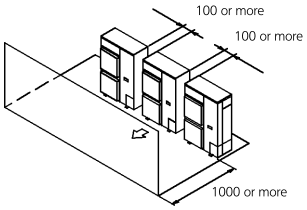
(B) When there are obstacles on discharge sides.

- **No obstacle above**

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

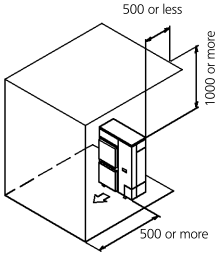


② Series installation (2 or more) (Note 1)
- Obstacle on the discharge side only

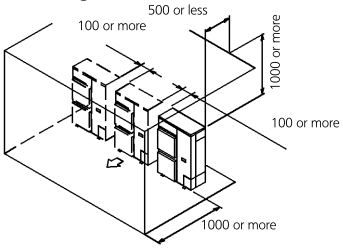


- **Obstacle above, too**

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



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



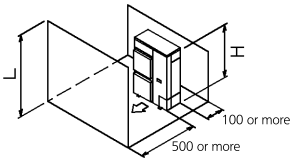
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

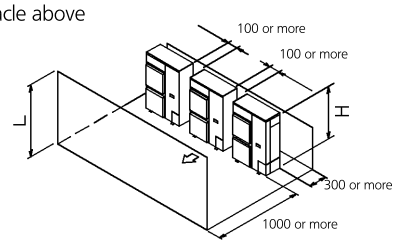
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

- **No obstacle above**

① Stand-alone installation
- No obstacle above



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



3D069554

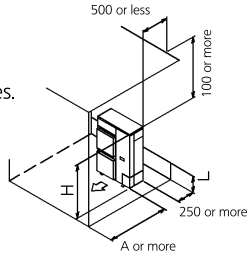
AZQS-B8V1/BY1

- **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	

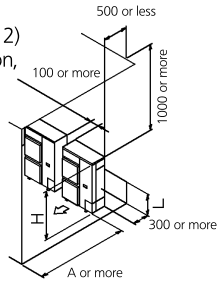


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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.

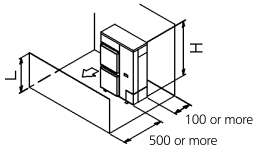


Pattern 2

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**

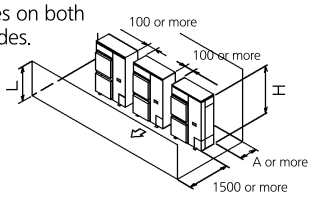
① Stand-alone installation
- No obstacle above



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

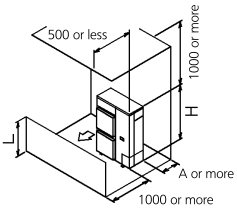


- **obstacle above**

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	

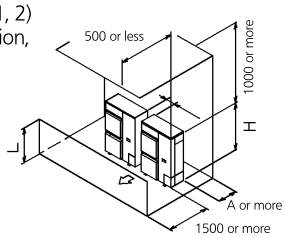


② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

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

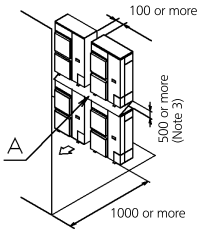
	L	A
L ≦ H	L ≦ 1/2 H	250 or more
	1/2 H < L ≦ H	300 or more
L > H	Set the stand as : L ≦ H Refer to the column of L ≦ H for A	

Limit of series installation is 2 units.

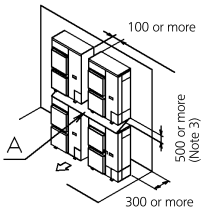


(D) Double-decker installation

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.

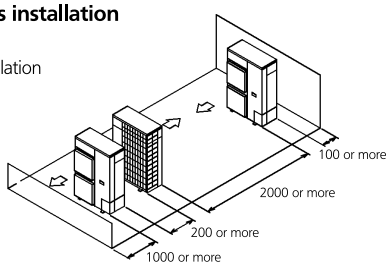


② Obstacle on the suction side. (1)
- Do not exceed two levels for stacked installation.
- Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
- Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



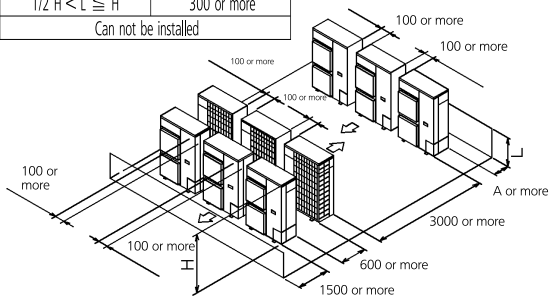
(E) Multiple rows of series installation (on the rooftop, etc.)

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

MXS

Installation flexibility for up to 5 rooms

› A very wide range is available, from 2-port to 5-port units, making all applications possible.
› For flexibility across different types of rooms and spaces.
› Up to 5 indoor units can be connected to 1 multi outdoor unit.
› 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.
› 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.

5MXS90E

RXYSQ

Installation flexibility for up to 9 rooms

› Up to 9 indoor units can be connected to 1 VRV outdoor unit
› 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
› Maximum total piping length of 145m offers much more flexibility in the choice of installation position
› Branch provider (BP) unit varies the refrigerant volume to meet the cooling or heating requirement

VRV IV S-series

Space saving solution without compromising on efficiency

In 2015 our succesful mini VRV range gets a thorough update to make it even better suited for residential applications where space is limited and performance expectations are high.

› Variable Refrigerant Temperature
› The most compact VRV
› Low height to minimize visual impact
› Lightweight reduces installation time and manpower to an absolute minimum

VRV IV S-series

Variable Refrigerant Temperature

Multi model applications

- 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, floor standing, concealed ceiling unit, etc.

3MXS52E/4MXS68E

5MXS90E

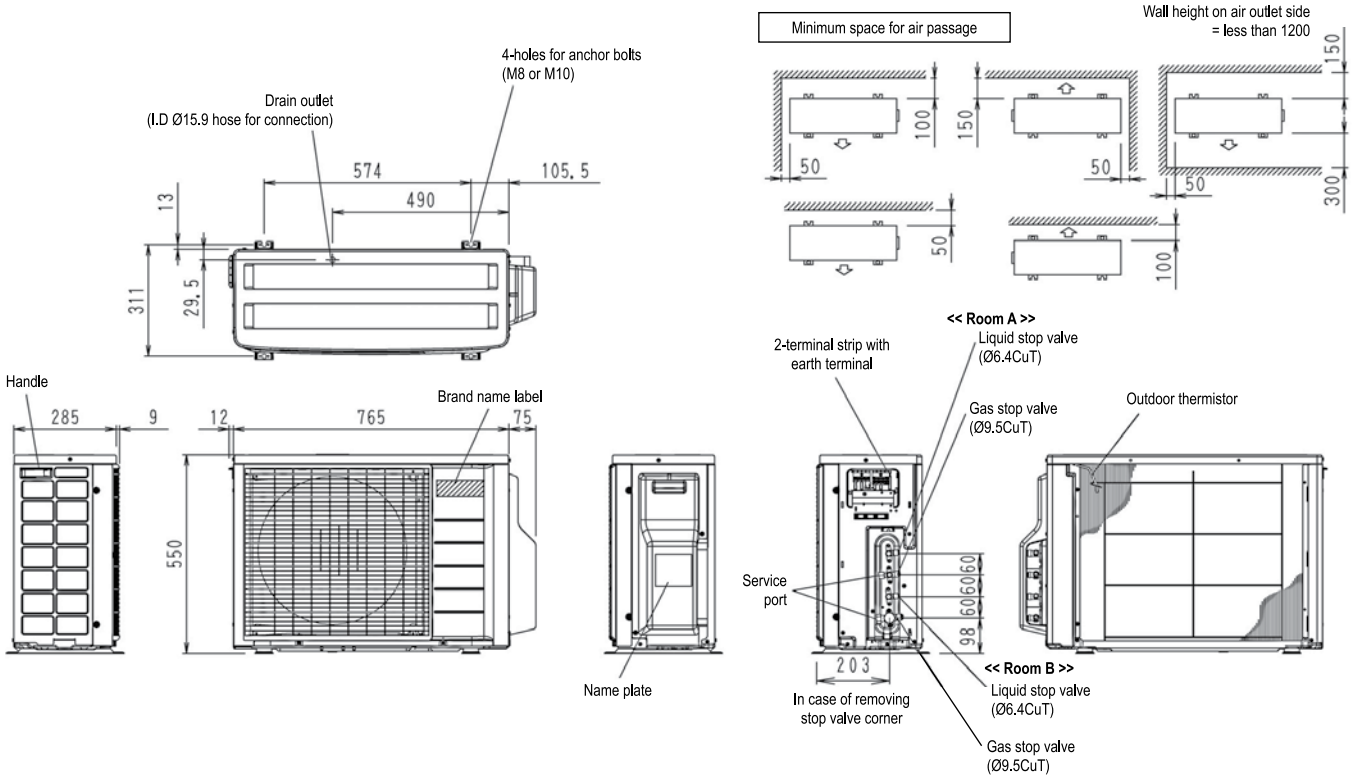
2MXS40-50H

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		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	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	●	●	●	●	●	●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Outdoor unit					2MXS40H	2MXS50H	3MXS40K	3MXS52E	3MXS68G	4MXS68F	4MXS80E	5MXS90E
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x936x300				770x900x320	
Weight	Unit			kg	38	42	49		58		72	73
Sound power level	Cooling			dBA	62	63	59		61		62	66
	Heating			dBA	-		60		-			
Sound pressure level	Cooling	Nom.		dBA	47	48	46		48			52
	Heating	Nom.		dBA	48	50	47		49			52
Operation range	Cooling	Ambient	Min.~Max.	°CDB	10~46		-10~46					
	Heating	Ambient	Min.~Max.	°CWB	-15~18							
Refrigerant	Type/Charge/GWP			kg	R-410A / 1.2 / 2,087.5	R-410A / 1.6 / 2,087.5	R-410A / 2.0 / 2,087.5		R-410A / 2.59 / 2,087.5	R-410A / 2.6 / 2,087.5	R-410A / 2.99 / 2,087.5	
	Charge			TCO_2Eq	2.5	3.3	4.2		5.4		6.2	
Piping connections	Liquid	OD		mm	6.35							
	Gas	OD		mm	9.5			9.52				
	Piping length	OU - IU	Max.	m	20		25					
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 20m)		0.02 (for piping length exceeding 30m)					
	Level difference	IU - OU	Max.	m	15							
		IU - IU	Max.	m	7.5							
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240		1~ / 50 / 230					
Current - 50Hz	Maximum fuse amps (MFA)			A	16			20				

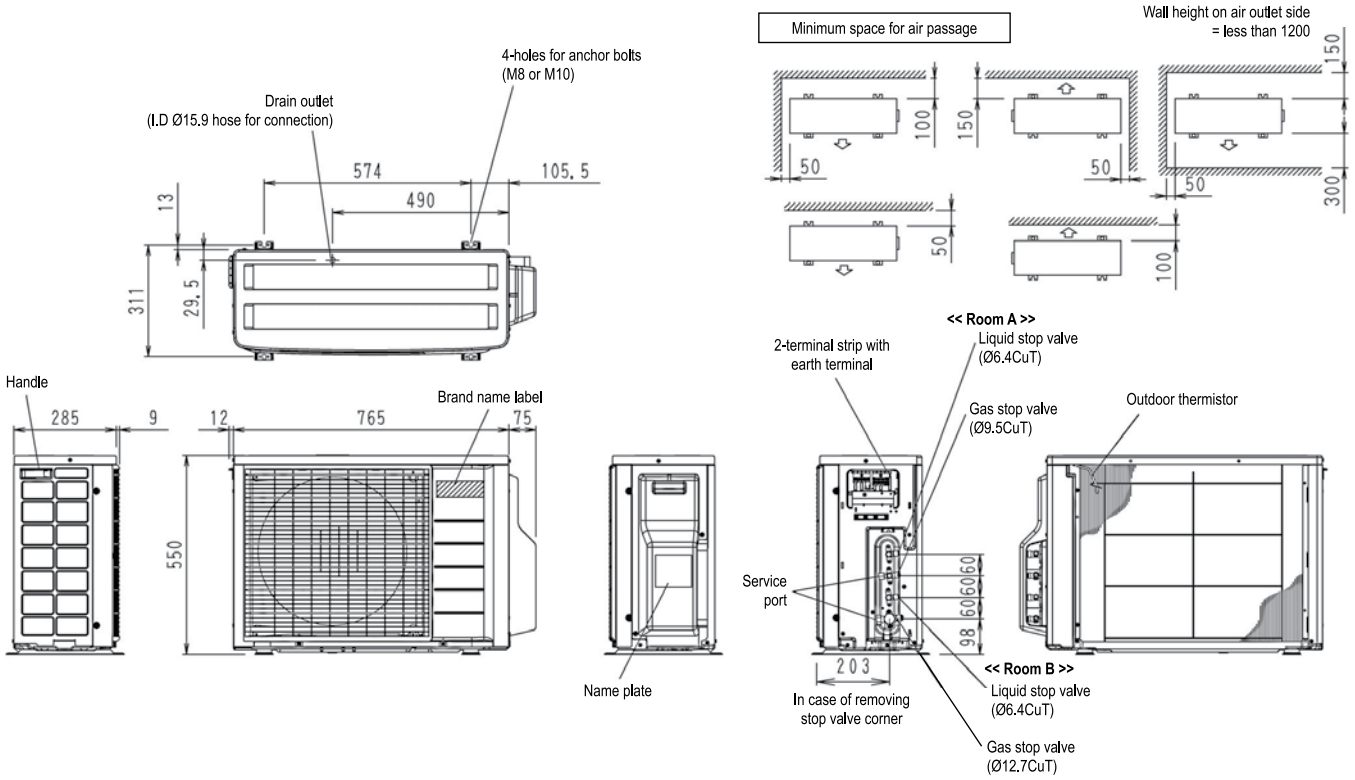
(1) EER/COP according to Eurovent 2012, for use outside EU only (2) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

2MXS40H



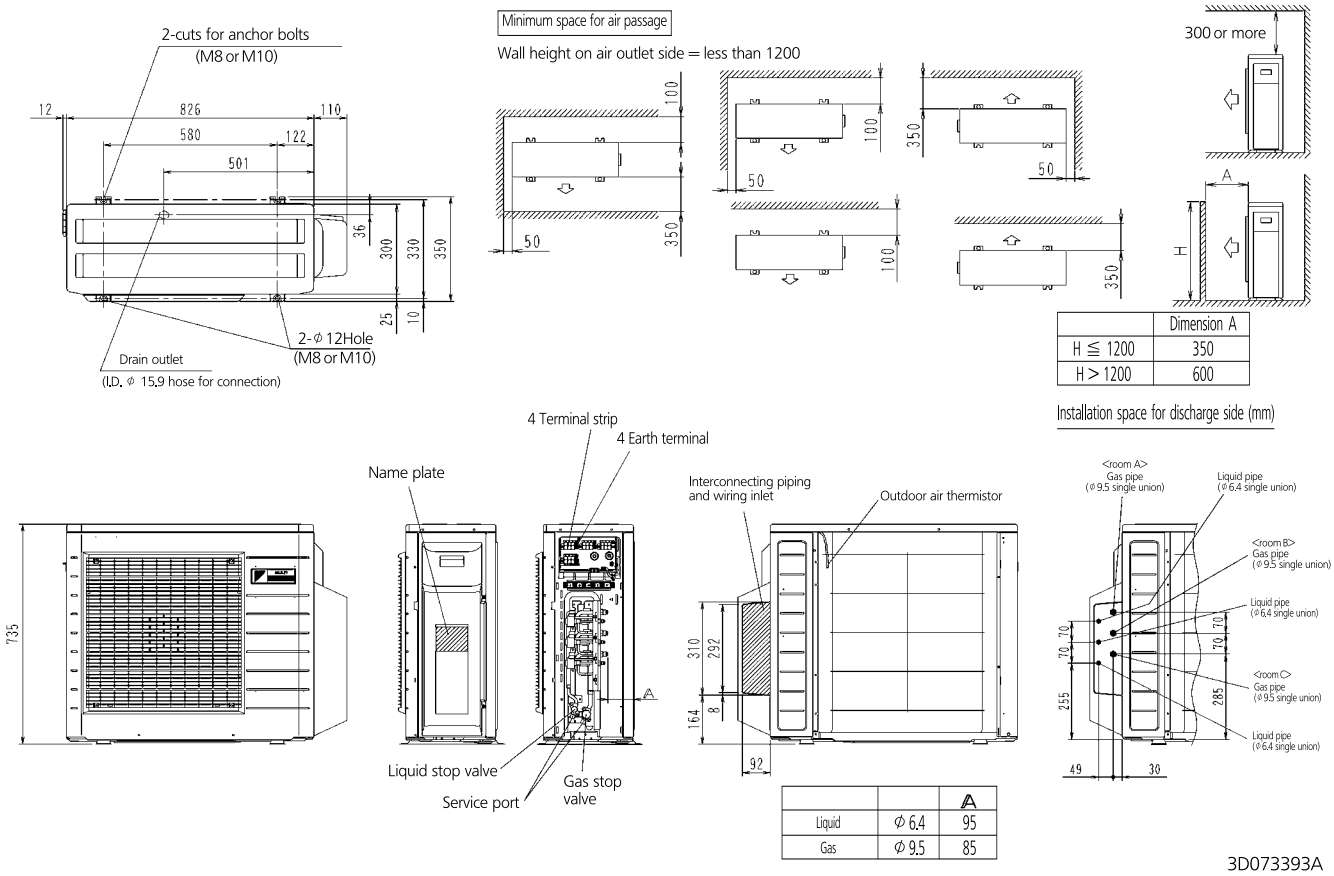
3D058712C

2MXS50H



3D058713C

3MXS40K



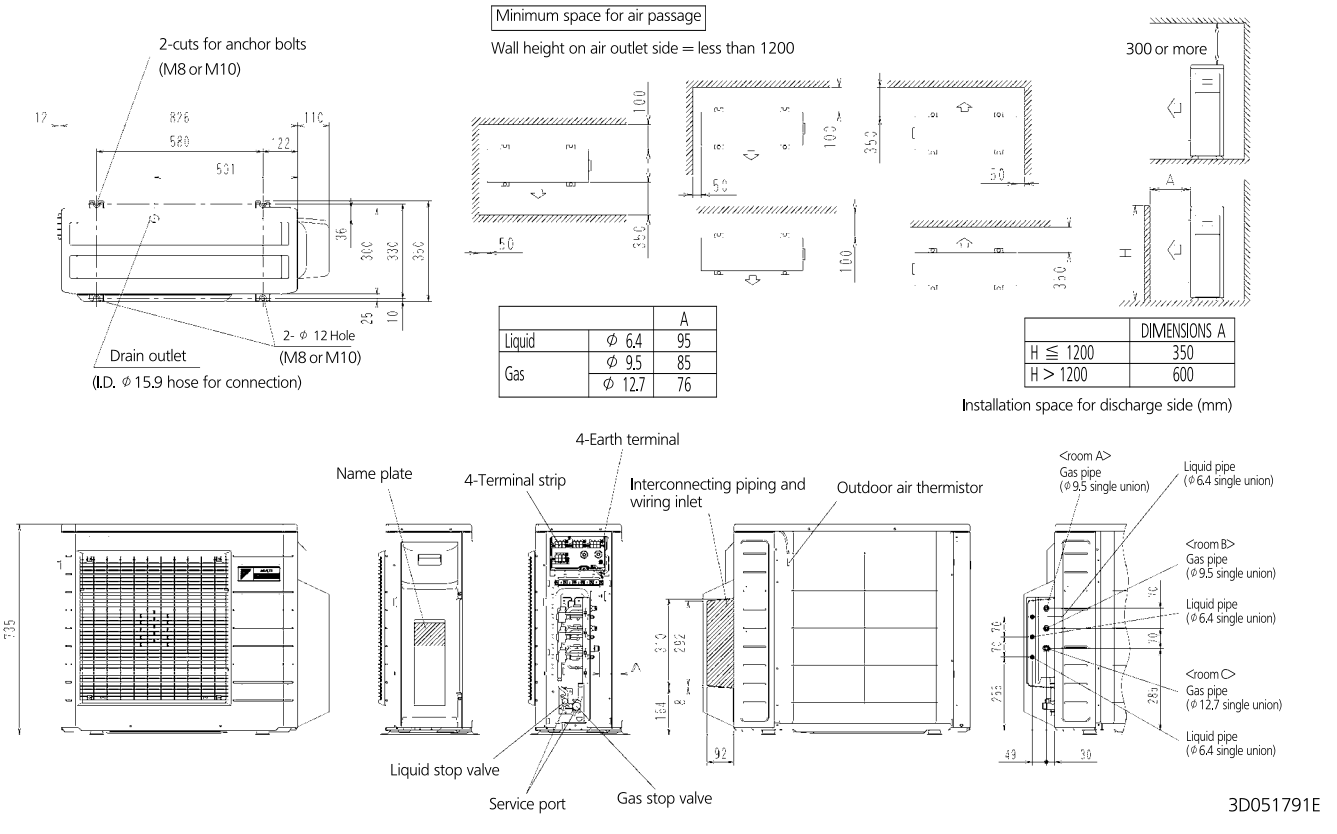
	Dimension A
H ≦ 1200	350
H > 1200	600

		A
Liquid	ϕ 6.4	95
Gas	ϕ 9.5	85

3D073393A

3MXS52E

unit (mm)

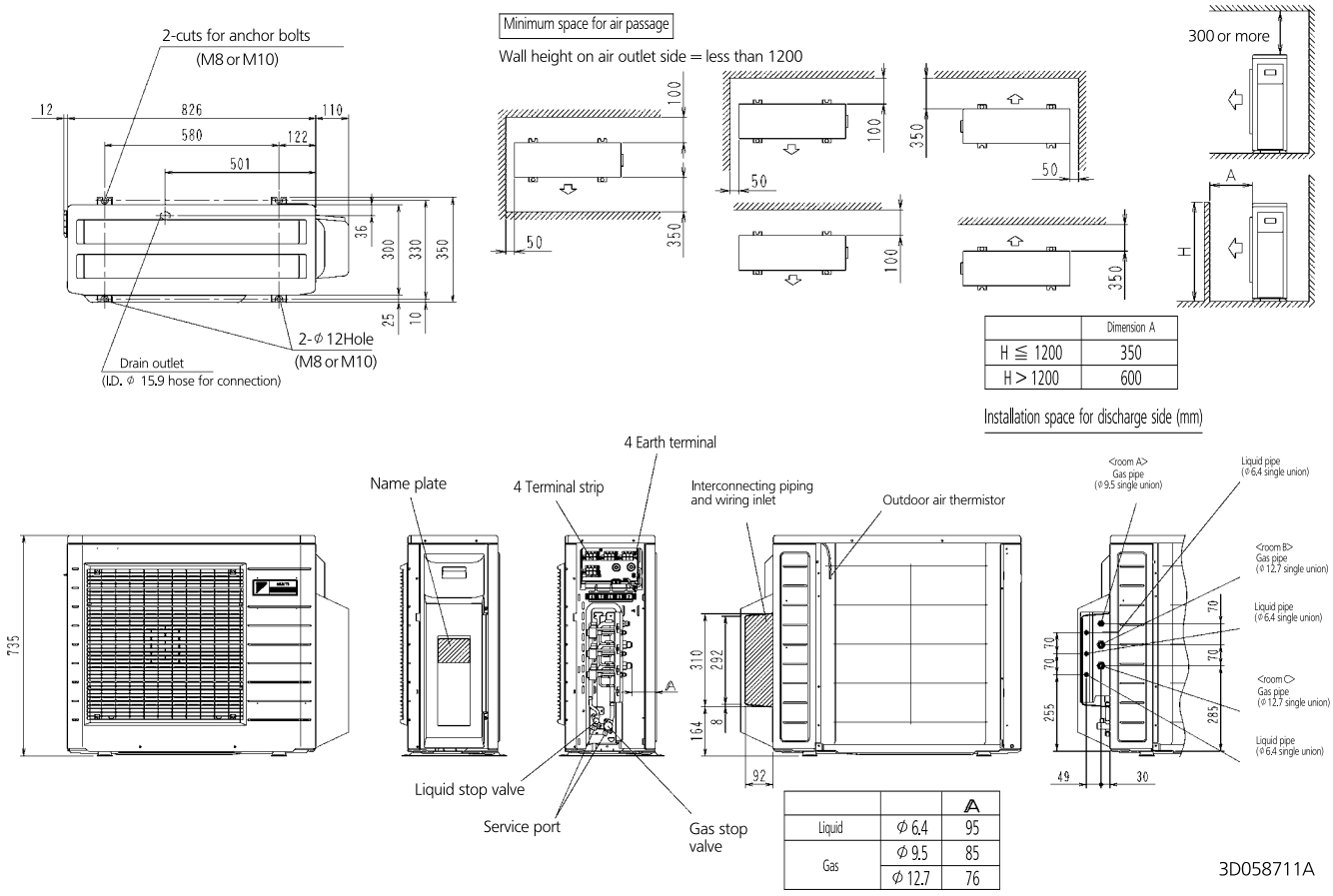


		A
Liquid	ϕ 6.4	95
Gas	ϕ 9.5	85
	ϕ 12.7	76

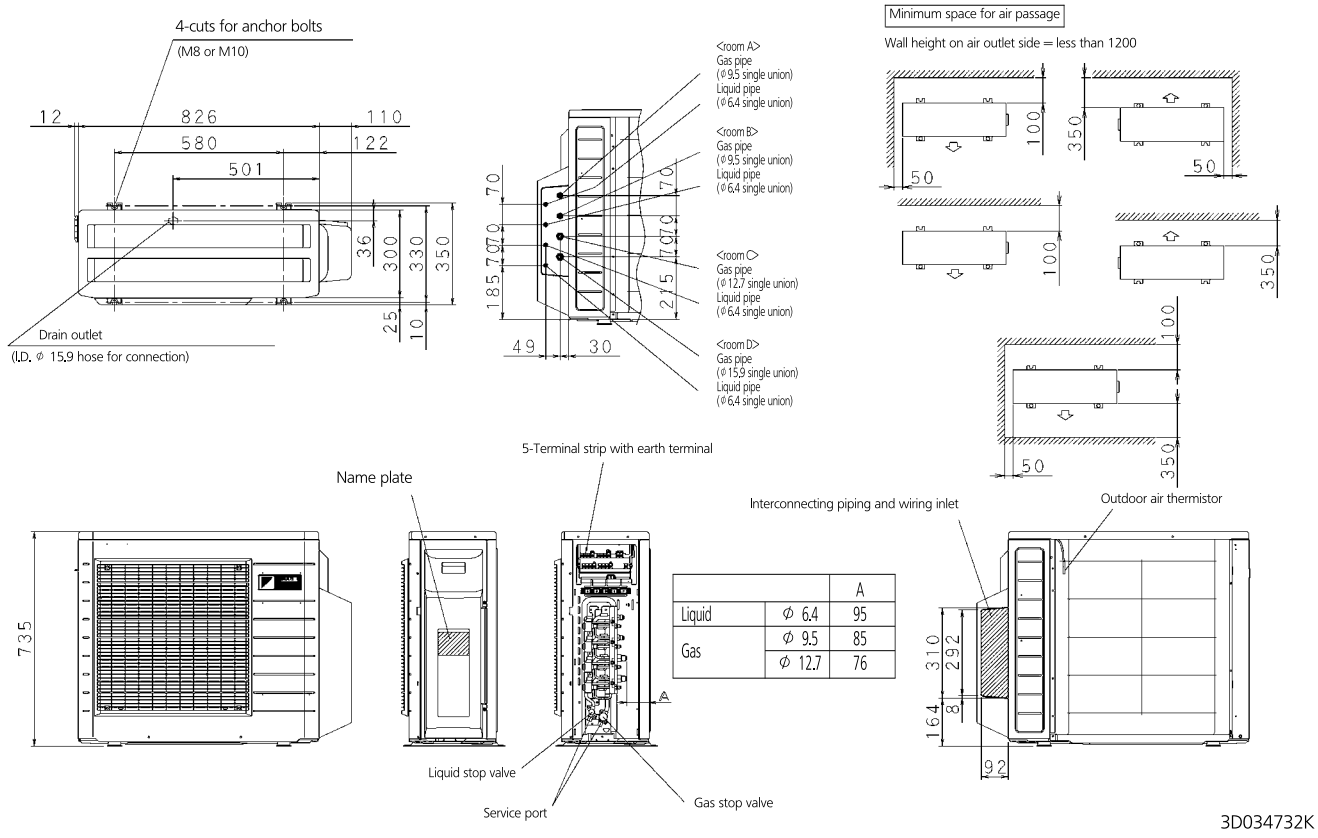
	DIMENSIONS A
H ≦ 1200	350
H > 1200	600

3D051791E

3MXS68G

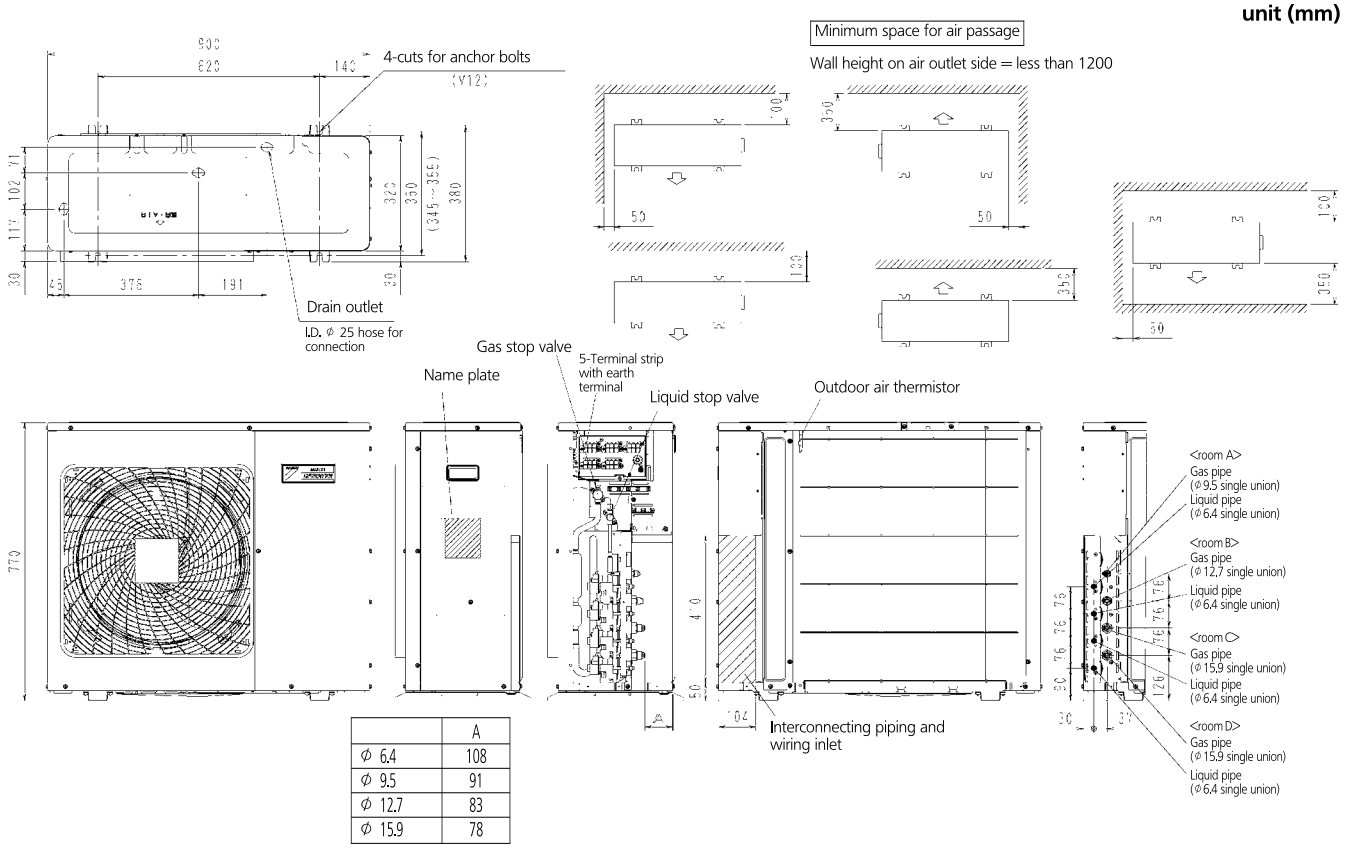


4MXS68F



4MXS80E

unit (mm)

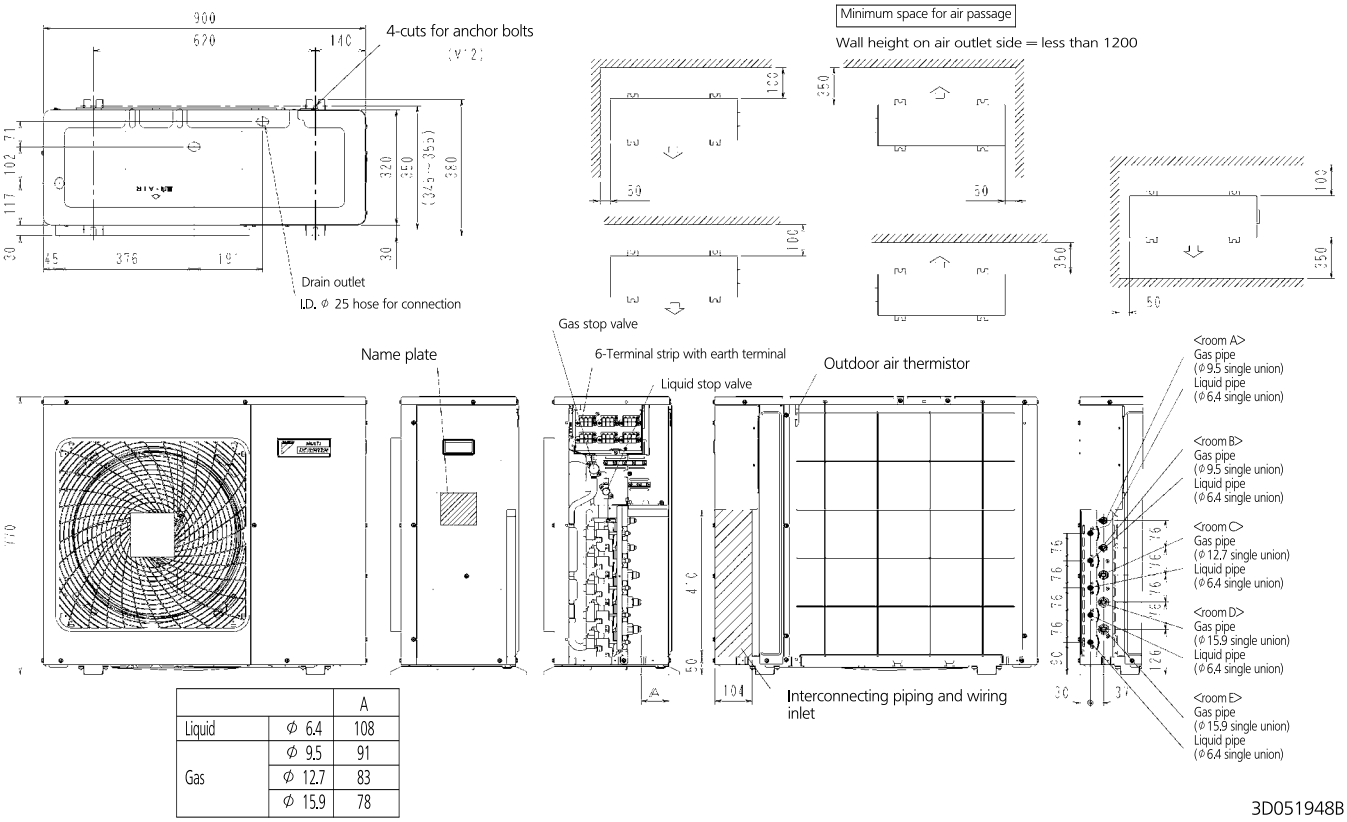


	A
ϕ 6.4	108
ϕ 9.5	91
ϕ 12.7	83
ϕ 15.9	78

3D051950B

5MXS90E

unit (mm)



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

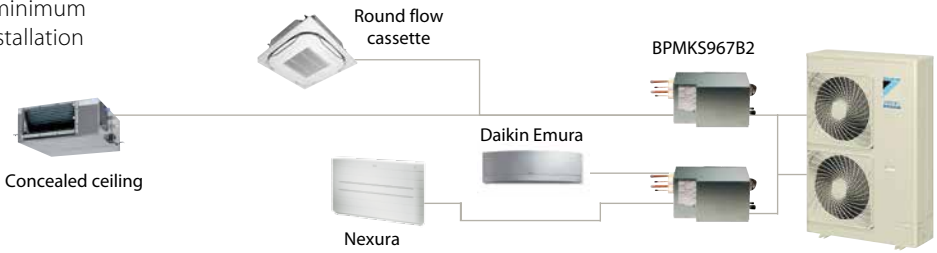
3D051948B

VRVIII-S heat pump

Space saving solution without compromising on efficiency

- For residential and light commercial applications, capacities 4HP to 6HP
- Space saving design for flexible installation
- Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Nexura ...
- Energy efficient heating system based on air source heat pump technology, lowering energy bills and CO2 emmisions
- Connect up to 9 indoor units, which can all be individually controlled
- Possibility to combine different types of indoor units: wall mounted, floor standing, concealed ceiling, ceiling suspended, round flow or 4-way blow cassettes
- 3 steps in night quiet mode: step 1: 47dBA, step 2: 44 dBA, step 3: 41 dBA
- Simplified installation & guaranteed optimal efficiency with automatic charging & testing
- The ability to control each conditioned zone individually keeps VRV system running costs to an absolute minimum
- Spread your installation cost by phased installation
- Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand

RXYSQ-P8V1



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						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
RXYSQ-P8V1	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

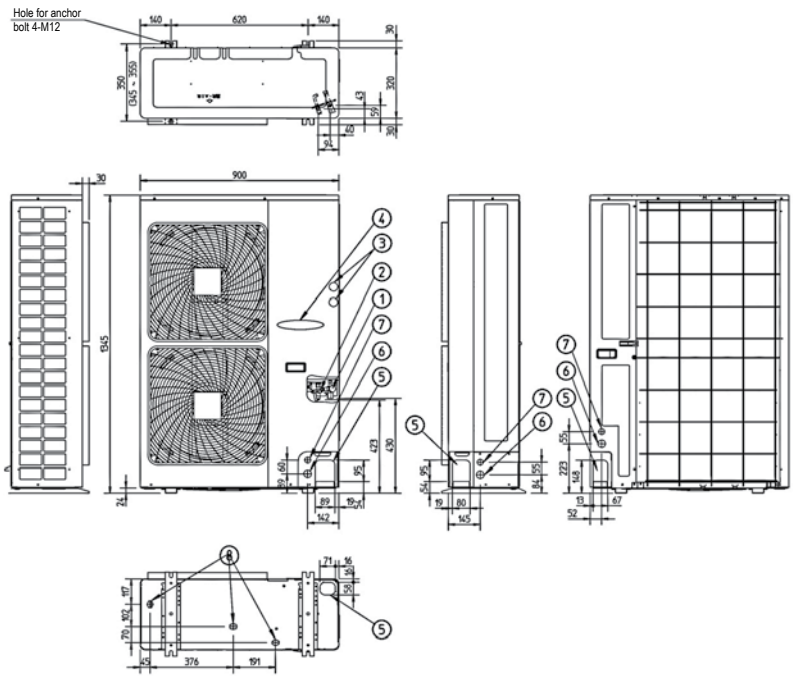
Outdoor unit					RXYSQ	4P8V1	5P8V1	6P8V1
Capacity range					HP	4	5	6
Cooling capacity	Nom.				kW	12.6	14.0	15.5
Heating capacity	Nom.				kW	14.2	16.0	18.0
Power input - 50Hz	Cooling	Nom.			kW	3.24	3.51	4.53
	Heating	Nom.			kW	3.12	3.86	4.57
EER						3.89	3.99	3.42
COP						4.55	4.15	3.94
Maximum number of connectable indoor units						8 (1) / 8 (2)	10 (1) / 9 (2)	12 (1) / 9 (2)
Indoor index connection	Min.					50	62.5	70
	Nom.					-		
	Max.					130	162.5	182
Dimensions	Unit	HeightxWidthxDepth			mm	1,345x900x320		
Weight	Unit				kg	120		
Fan	Air flow rate	Cooling	Nom.		m^3/min	106		
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		
Refrigerant	Type/Charge/GWP				kg	R-410A / 4.0 / 2,087.5		
	Charge				TCO_2Eq	8.4		
Piping connections	Liquid	OD			mm	9.52		
	Gas	OD			mm	15.9 (1) / 19.1 (2)	15.9 (1) / 19.1 (2)	19.1
	Total piping length	System	Actual		m	300 (1) / 115 (2)	300 (1) / 135 (2)	300 (1) / 145 (2)
Power supply	Phase/Frequency/Voltage				Hz/V	1N~/50/220-240		
Current - 50Hz	Maximum fuse amps (MFA)				A	32.0		

(1) In case VRV indoor units are connected (2) In case RA indoors are connected

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

RXYSQ-P8V1

RXYSQ-P8V1



1	Gas pipe connection A
2	Liquid connection pipe Ø9.5 flare
3	Service port (in the unit) (2x)
4	Electronic connection and grounding terminal M5 (in switch box)
5	Refrigerant piping intake
6	Power supply wiring intake (knock hole Ø34)
7	Control wiring intake (knock hole Ø27)
8	Drain outlet

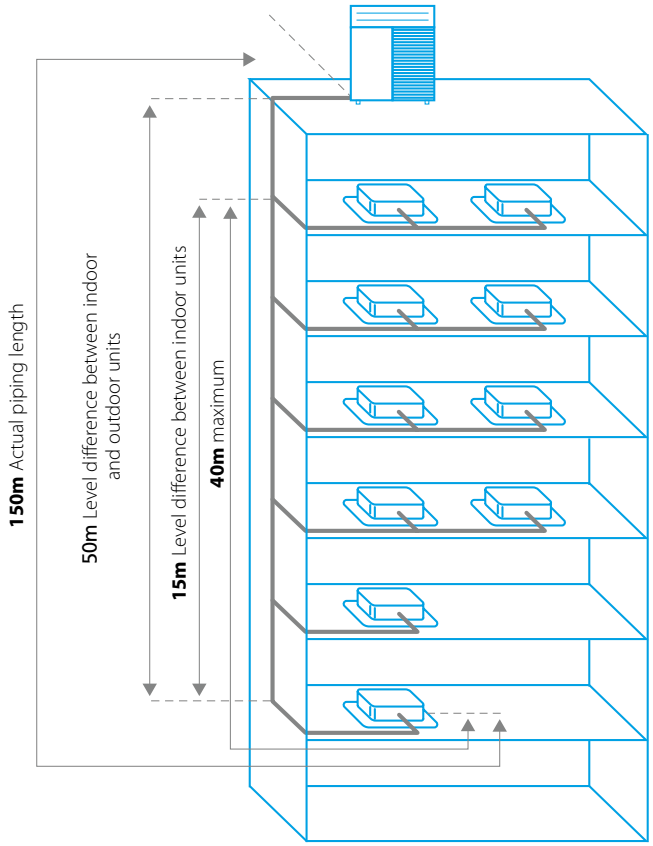
MODEL	A	
	With RA connection	With VRV correction
RXYSQ4P8V1	Ø19.1 Brazing	Ø15.9 Flare
RXYSQ5P8V1	Ø19.1 Brazing	Ø15.9 Flare
RXYSQ6P8V1	Ø19.1 Brazing	Ø19.1 Brazing

3TW30374-1B

Flexible piping design

	VRV indoors connected	Stylish indoors connected
Total piping length	300m	250m
Longest length actual (Equivalent)	150m (175m)	
Minimum length between outdoor unit and first branch	-	5m
Minimum piping length between BP and indoor unit	-	2m
Maximum piping length between BP and indoor unit	-	15m
Longest length after first branch	40m	40m
Level difference between indoor and outdoor units	50m (40m[1])	30m
Level difference between indoor units	15m	15m

[1] Outdoor unit in lowest position

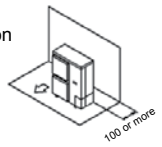


RXYSQ-P8V1

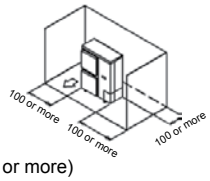
Required installation space

(The unit of these values is 'mm')

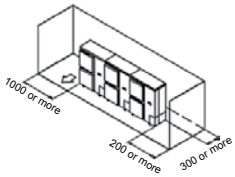
1. Where there is an obstacle on the suction side:
   (a) No obstacle above
      (1) Stand-alone installation
      • Obstacle on the suction side only



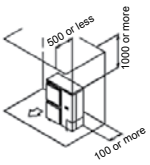
      • Obstacle on both sides



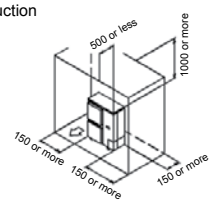
      (2) Series installation (2 or more)
      • Obstacle on both sides



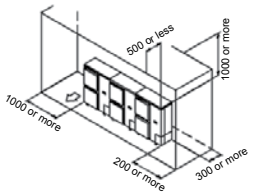
   (b) Obstacle above, too
      (1) Stand-alone installation
      • Obstacle on the suction side, too



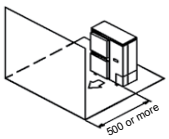
      • Obstacle on the suction side and both sides



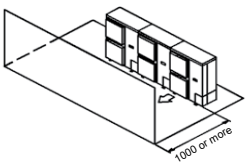
      (2) Series installation (2 or more)
      • Obstacle on the suction side and both sides



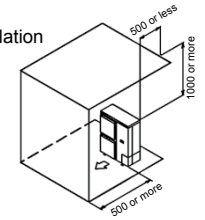
2. Where there is an obstacle on the discharge side:
   (a) No obstacle above
      (1) Stand-alone installation



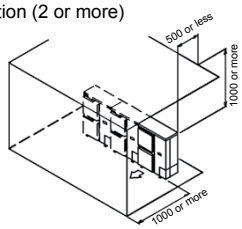
      (2) Series installation (2 or more)



   (a) Obstacle above, too
      (1) Stand-alone installation



      (2) Series installation (2 or more)



3. Where there are obstacles on both suction and discharge sides:

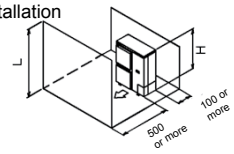
Pattern 1

Where the obstacle on the discharge side is higher than the unit:

(There is no height limit for obstructions on the intake side)

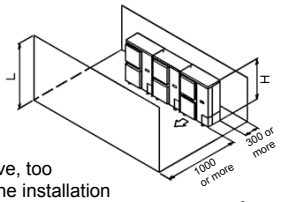
   (a) No obstacle above
      (1) Stand-alone installation

L > H



      (2) Series installation (2 or more)

L > H

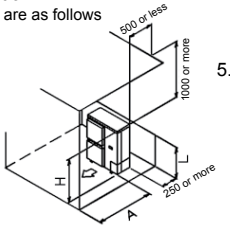


   (b) Obstacle above, too
      (1) Stand-alone installation

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.



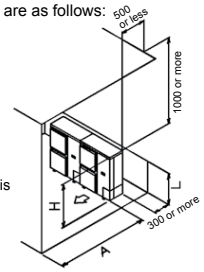
      (2) Series installation (2 or more)

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



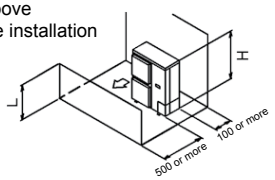
Pattern 2

Where the obstacle on the discharge side is lower than the unit:

(There is no height limit for obstructions on the intake side)

   (a) No obstacle above
      (1) Stand-alone installation

L ≤ H

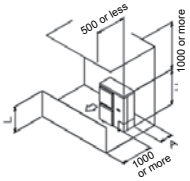


      (2) Series installation (2 or more)

The relations between H, A and L are as follows

	L	A
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.



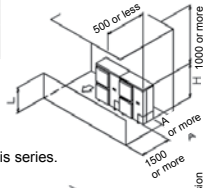
      (2) Series installation

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 Refer to the column of L ≤ H for A	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

Only two units can be installed for this series.



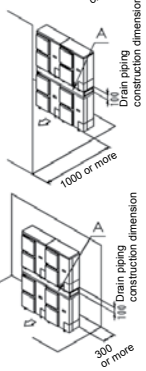
4. Double-decker installation

(a) Obstacle on the discharge side close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two units.

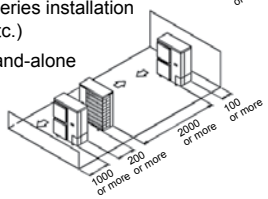
(b) Obstacle on the suction side close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.

Do not stack more than two units.



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

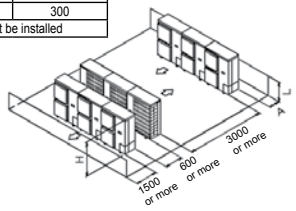
(a) One row of stand-alone installation



(b) 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	



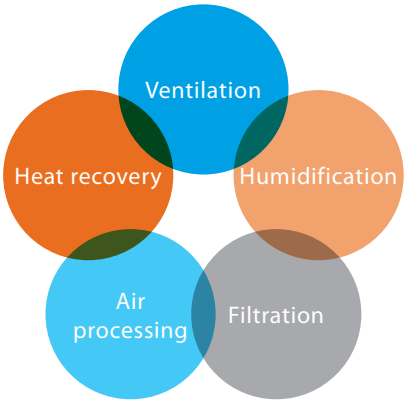
3D045696D

Commercial spaces need ventilation and air curtains to optimise efficiency and comfortable environment

Ventilation air and Biddle air curtains

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 minimizing 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	0 200 400 600 800 1,000 2,000 4,000 6,000 8,000 140,000	Components of indoor air quality
Heat reclaim ventilation	VAM-FA/FB 		› Ventilation › Heat recovery
Air handling units	DX total fresh air package 	**	› Ventilation › Heat recovery › Air processing › Humidification › Filtration

* Air flow rate is a calculated indication only, based on the following values: heating capacity EKEXV-kit * 200m³/h

** Daikin AHU connected to Daikin chiller solution

For connection with air handling units and Biddle air curtain

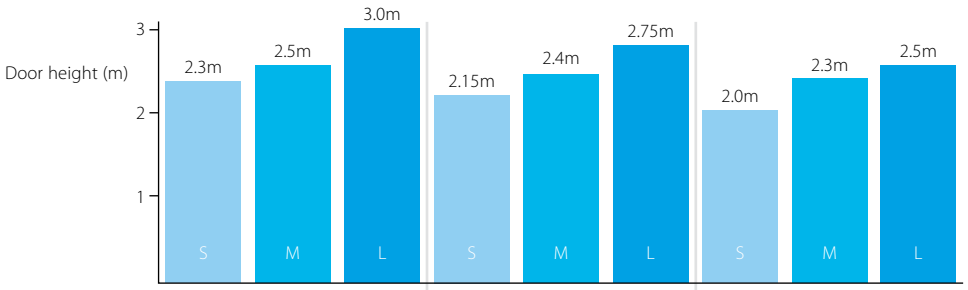
System	Type	Product name	Condensing units		71	100	125	140	200	250
Air cooled	Heat pump	ERQ-AV1 [1] Condensing Units	- High efficiency - High comfort levels - Easy design and installation - Maximize installation flexibility by offering 4 types of control systems			●	●	●		
		ERQ-AW1 [1] Condensing Units					●		●	●

1) Only use the condensing units in combinations with an air handling unit.

Air flow rate (m³/h)

Type	Product name	Expansion valve kit		0	200	600	800	1,000	1,500	2,000	4,000	6,000	8,000
ERQ air handling applications	EKEXV-kit	Expansion valve kit for air handling applications						●	●	●	●	●	

Biddle standard air curtain range



Installation condition

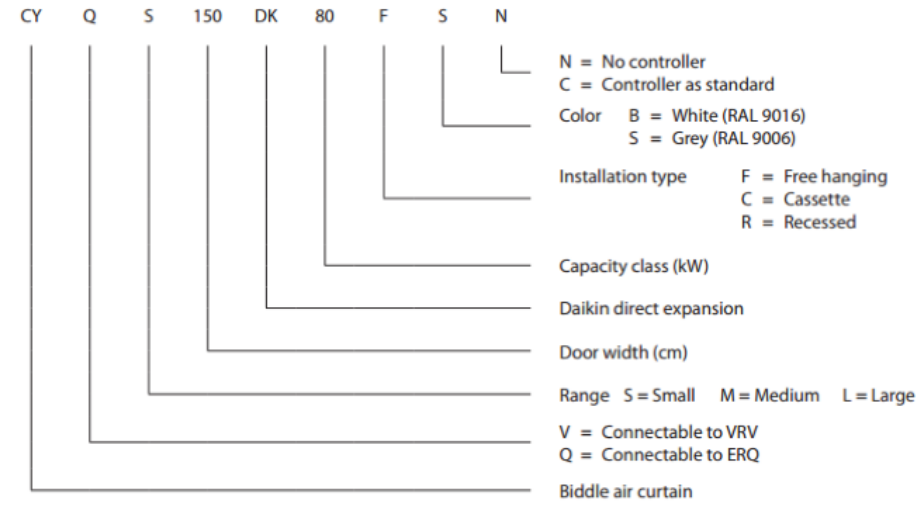
Favourable
ex: covered shopping mall or revolving door entrance

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

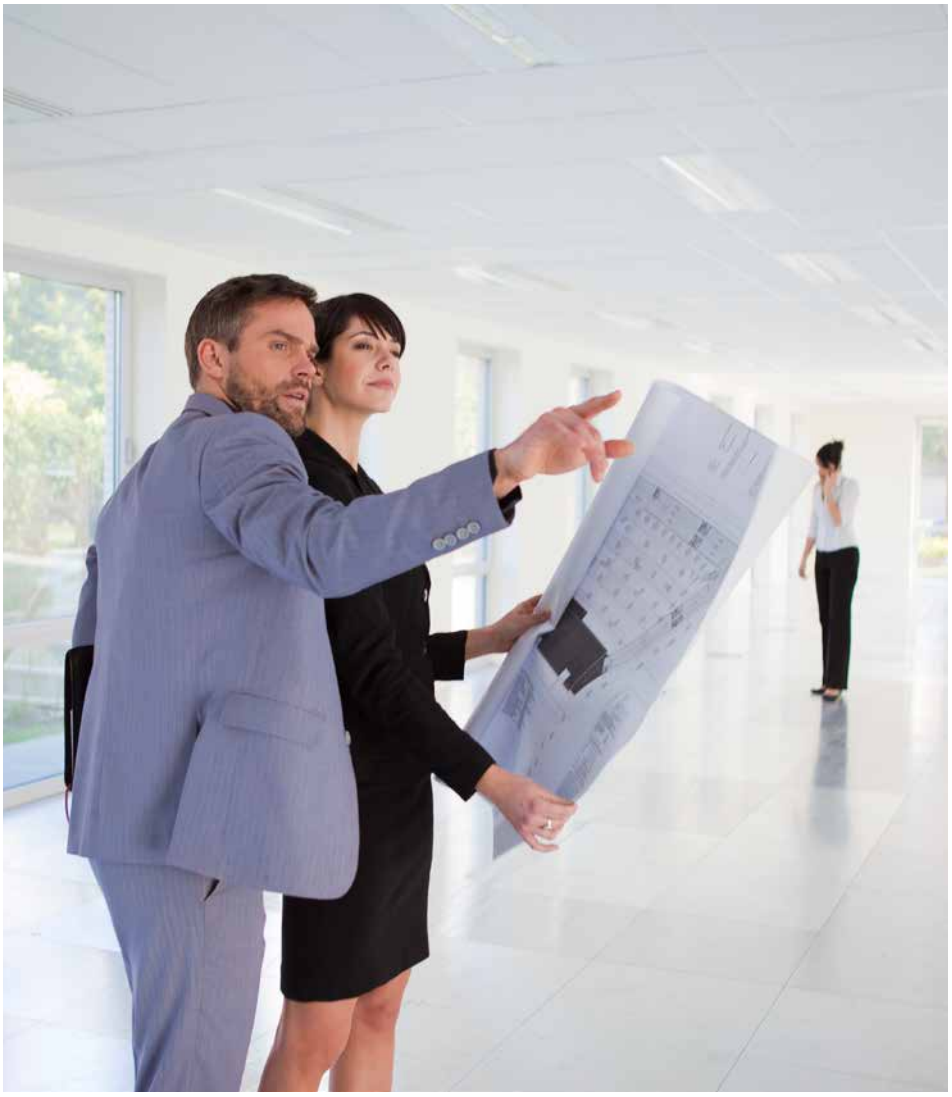
Type	Product name	Features	
Biddle standard air curtain free hanging	CYQ S/M/L-DK-F	- CYQ - Biddle air curtain for connection to ERQ - Connectable to ERQ heat pump - Cassette model (C): mounted into a false ceiling leaving only the decoration panel visible - Free-hanging model (F): easy wall mounted installation - Recessed model (R): neatly conceiled 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



VAM - HEAT RECLAIM VENTILATION

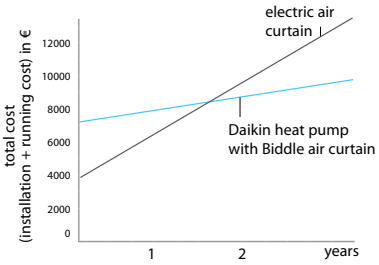
CYQ BIDDLE AIR CURTAIN

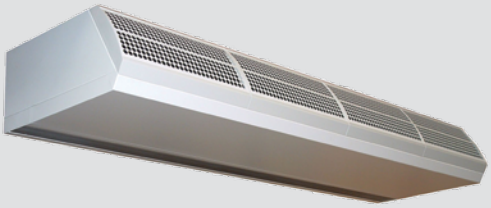


DAIKIN AIR HANDLING UNIT AND ERQ/VRV HEAT PUMP

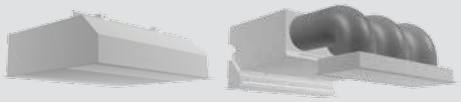
Biddle air curtain for ERQ

- 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 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
- 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
- Compatibility with D-BACS





CYQM150DK80FSN

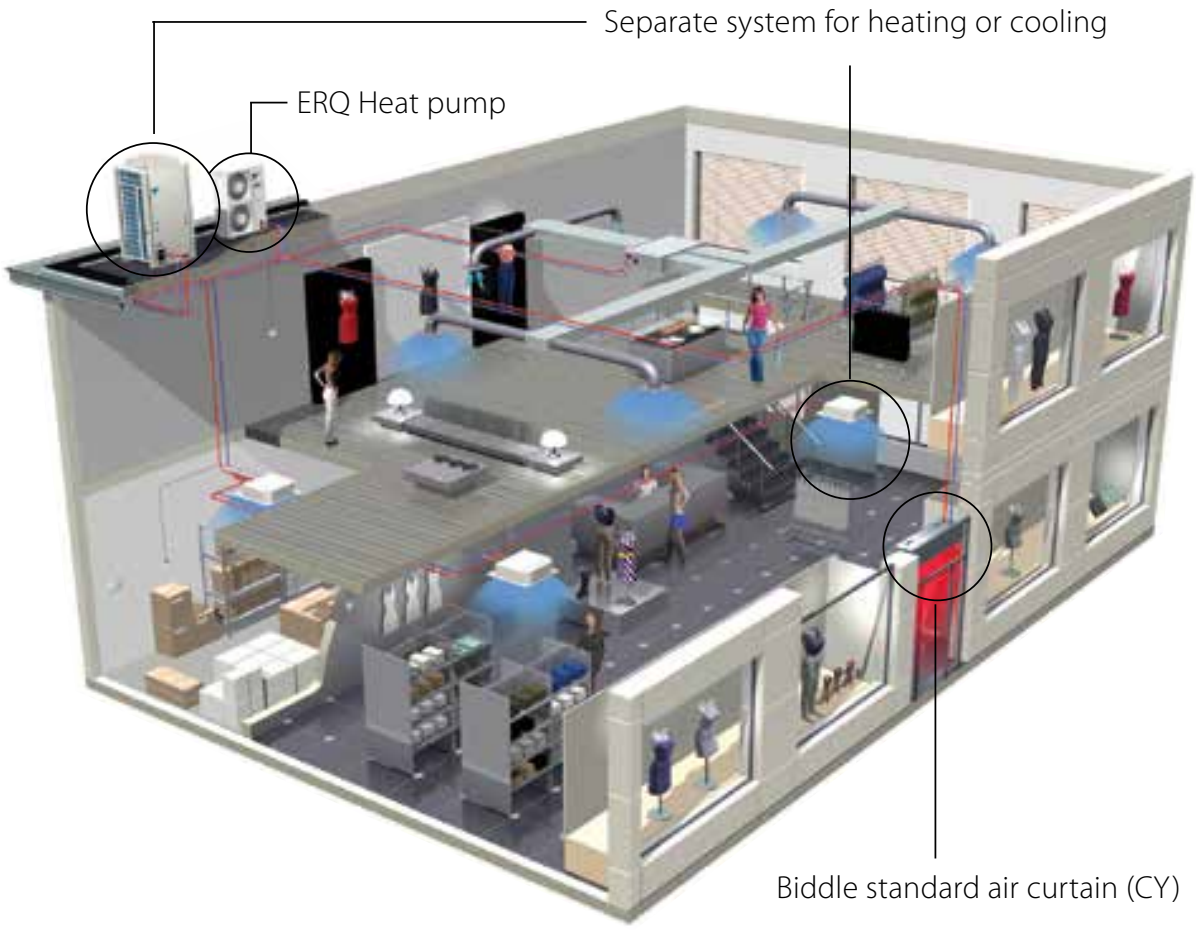


CYQM150DK80CSN CYQM150DK80RSN

					Small			Medium			
					CYQS150DK80 *BN/*SN	CYQS200DK100 *BN/*SN	CYQS250DK140 *BN/*SN	CYQM100DK80 *BN/*SN	CYQM150DK80 *BN/*SN	CYQM200DK100 *BN/*SN	CYQM250DK140 *BN/*SN
Heating capacity	Speed 3		kW		9.0	11.6	16.2	9.2	11.0	13.4	19.9
Power input	Fan only	Nom.	kW		0.35	0.46	0.58	0.37	0.56	0.75	0.94
	Heating	Nom.	kW		0.35	0.46	0.58	0.37	0.56	0.75	0.94
Delta T	Speed 3		K		15		16	17	14	13	15
Casing	Colour				BN: RAL9010 / SN: RAL9006						
Dimensions	Unit	Height F/C/R	mm		270/270/270						
		Width F/C/R	mm		1,500/1,500/1,548	2,000/2,000/2,048	2,500/2,500/2,548	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 F/C/R	mm		590/821/561						
Required ceiling void >			mm		420						
Door height	Max.		m		2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.3 (1) / 2.15 (2) / 2.0 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)	2.5 (1) / 2.4 (2) / 2.3 (3)
Door width	Max.		m		1.5	2.0	2.5	1.0	1.5	2.0	2.5
Weight	Unit		kg		66	83	107	57	73	94	108
Fan-Air flow rate	Heating	Speed 3	m^3/h		1,746	2,328	2,910	1,605	2,408	3,210	4,013
Sound pressure level	Heating	Speed 3	dBA		49	50	51	50	51	53	54
Refrigerant	Type / GWP				R-410A / 2.087,5						
Piping connections	Liquid/OD/Gas/OD		mm		9.52/16.0		9.52/19.0	9.52/16.0			9.52/19.0
Required accessories (should be ordered separately)					Daikin wired remote control (BRC1E52A/B or BRC1D52)						
Power supply	Voltage		V		230						

				Large			
				CYQL100DK125 *BN/*SN	CYQL150DK200 *BN/*SN	CYQL200DK250 *BN/*SN	CYQL250DK250 *BN/*SN
Heating capacity	Speed 3		kW	15.6	23.3	29.4	31.1
Power input	Fan only	Nom.	kW	0.75	1.13	1.50	1.88
	Heating	Nom.	kW	0.75	1.13	1.50	1.88
Delta T	Speed 3		K	15		14	12
Casing	Colour			BN: RAL9010 / SN: RAL9006			
Dimensions	Unit	Height F/C/R	mm	370/370/370			
		Width F/C/R	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 F/C/R	mm	774/1,105/745			
Required ceiling void >			mm	520			
Door height	Max.		m	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)	3.0 (1) / 2.75 (2) / 2.5 (3)
Door width	Max.		m	1.0	1.5	2.0	2.5
Weight	Unit		kg	76	100	126	157
Fan-Air flow rate	Heating	Speed 3	m^3/h	3,100	4,650	6,200	7,750
Sound pressure level	Heating	Speed 3	dBA	53	54	56	57
Refrigerant	Type / GWP			R-410A / 2,087.5			
Piping connections	Liquid/OD/Gas/OD		mm	9.52/16.0	9.52/19.0	9.52/22.0	
Required accessories (should be ordered separately)				Daikin wired remote control (BRC1E52A/B or BRC1D52)			
Power supply	Voltage		V	230			

(1) Favorable conditions: covered shopping mall or revolving door entrance (2) Normal conditions: little direct wind, no opposite open doors, building with ground floor only (3) Unfavorable conditions: location at a corner or square, multiple floors and/or open stairway


Separate system for heating or cooling
ERQ Heat pump
Biddle standard air curtain (CY)

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 CO2 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 F6 ,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

VAM-FA-FB

Fine dust filter

Ventilation				VAM	150FA	250FA	350FB	500FB	650FB	800FB	1000FB	1500FB	2000FB
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high	kW	0.116	0.141	0.132	0.178	0.196	0.373	0.375	0.828	0.852
	Bypass mode	Nom.	Ultra high	kW	0.116	0.141	0.132	0.178	0.196	0.373	0.375	0.828	0.852
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	74/74/79	72/72/77	75/75/80	74/74/77		74/74/76	75/75/76.5	75/75/78	
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low		%	58/58/64	58/58/62	61/61/67	58/58/63		60/60/62	61/61/63	61/61/64	61/61/66
	Heating	Ultra high/High/Low		%	64/64/69	64/64/68	65/65/70	62/62/67	63/63/66	65/65/67	66/66/68		66/66/70
Operation mode					Heat exchange mode / Bypass mode / Fresh-up mode								
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange								
Heat exchange element					Specially processed non-flammable paper								
Dimensions	Unit	HeightxWidthxDepth		mm	285x776x525		301x828x816		364x1,004x868		364x1,004x1,156	726x1,512x868	726x1,512x1,156
Weight	Unit			kg	24		33		52	55	64	131	152
Casing	Material				Galvanised steel plate								
Fan-Air flow rate - 50Hz	Heat exchange mode	Ultra high		m^3/h	150	250	350	500	650	800	1,000	1,500	2,000
	Bypass mode	Ultra high		m^3/h	150	250	350	500	650	800	1,000	1,500	2,000
Fan-External static pressure - 50Hz	Ultra high			Pa	69	64	98		93	137	157	137	
	High			Pa	39		-						
	Low			Pa	20		-						
Air filter	Type				Multidirectional fibrous fleeces								
Sound pressure level - 50Hz	Heat exchange mode	Ultra high		dBA	27 / 28.5	28 / 29	32	33	34.5	36		39.5	40
	Bypass mode	Ultra high		dBA	27 / 28.5	28 / 29	32	33.5	34.5	36		40.5	40
Operation range	Min.			°CDB	-15								
	Max.			°CDB	50								
	Relative humidity			%	80% or less								
Connection duct diameter				mm	100	150		200		250		350	
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/60/220-240/220								
Current	Maximum fuse amps (MFA)			A	15		16						

VH

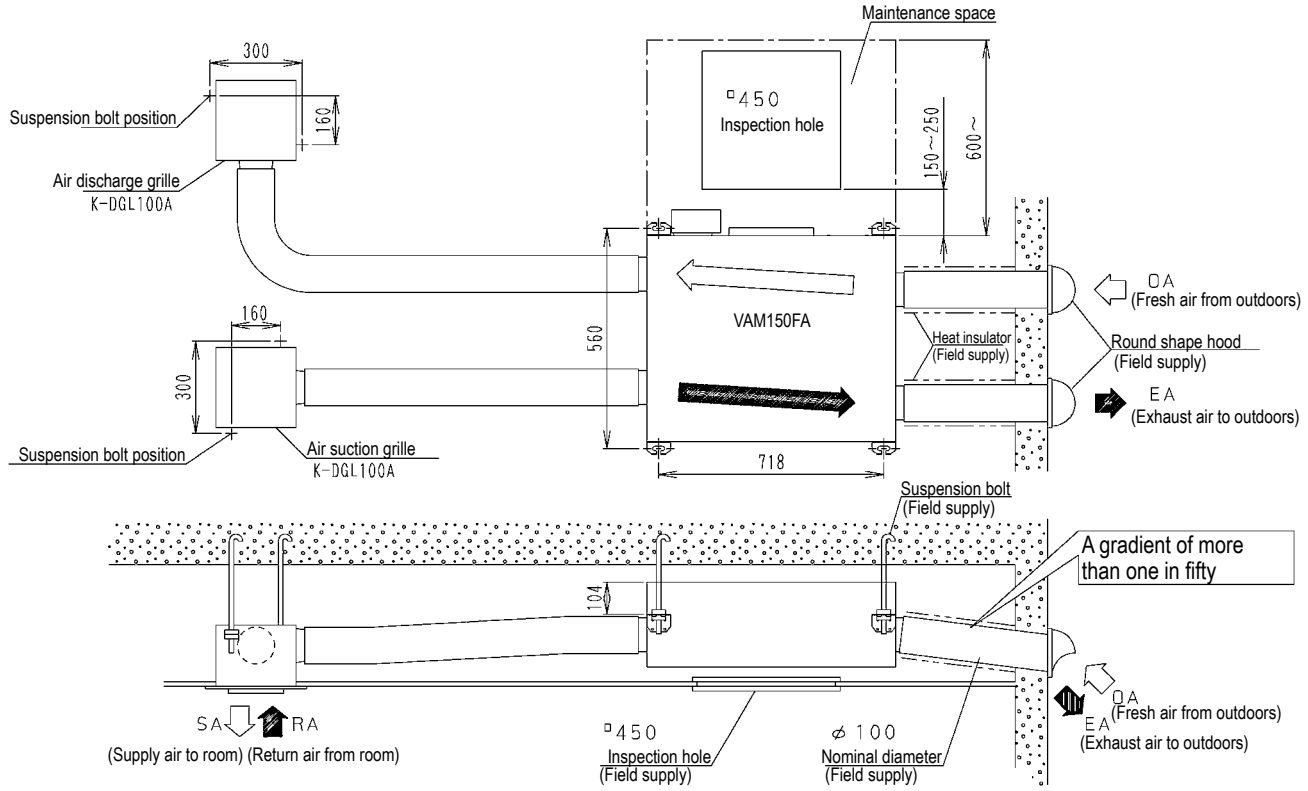
- Total solution for fresh air with Daikin supply of both VAM and electrical heaters
- Increased comfort even during low outdoor temperatures due to the heated outdoor air
- Integrated electrical heater concept (no additional accessories required)
- Standard dual flow and temperature sensor
- Flexible setting with adjustable setpoint
- Increased safety with 2 cut-outs: manual & automatic
- BMS integration thanks to:
  - Volt free relay for error indication
  - 0-10 VDC input for setpoint control

ELECTRICAL HEATER 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		VAM150FA	VAM250FA	VAM500FB	VAM800FB	VAM800FB	VAM1500FB
		-	VAM350FB	VAM650FB	VAM1000FB	VAM1000FB	VAM2000FB

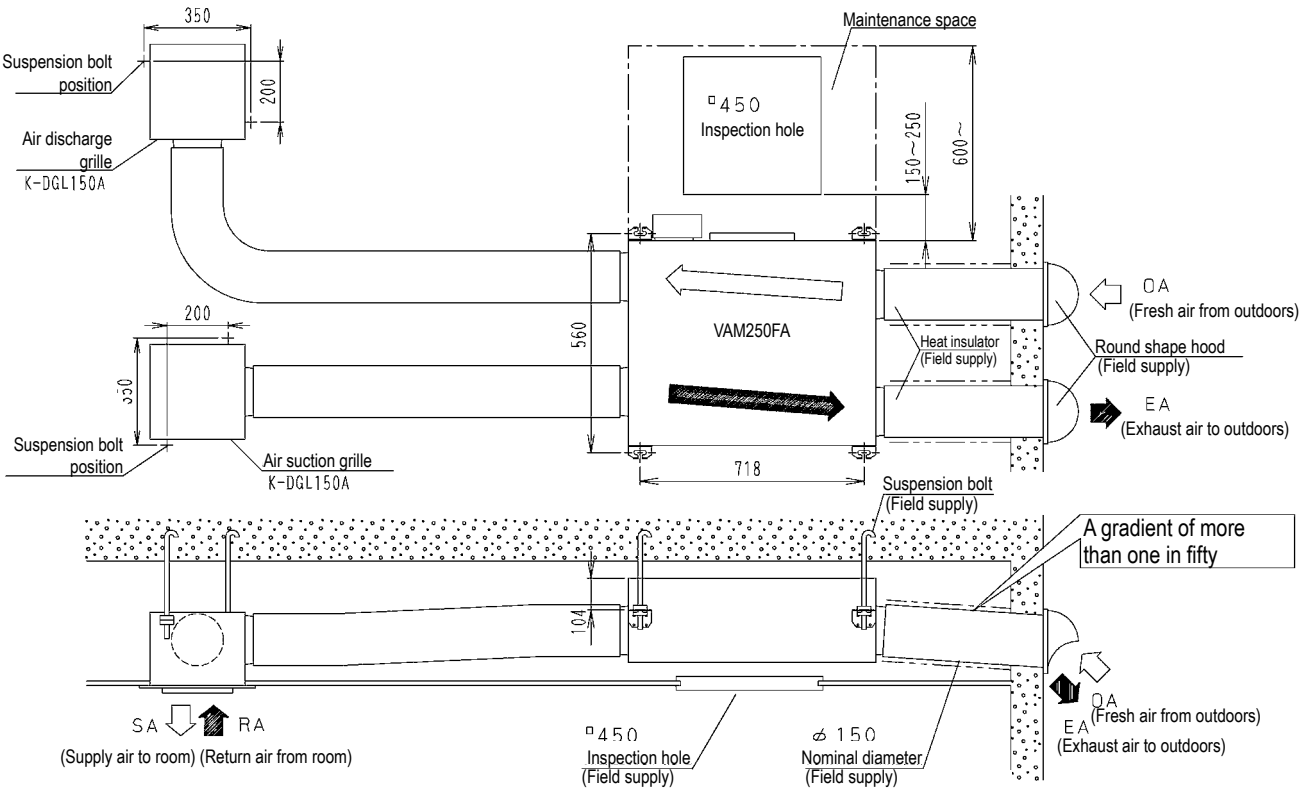
For the selection of the appropriate capacity, please refer to the VAM selection software.

VAM150FA



3D036781

VAM250FA



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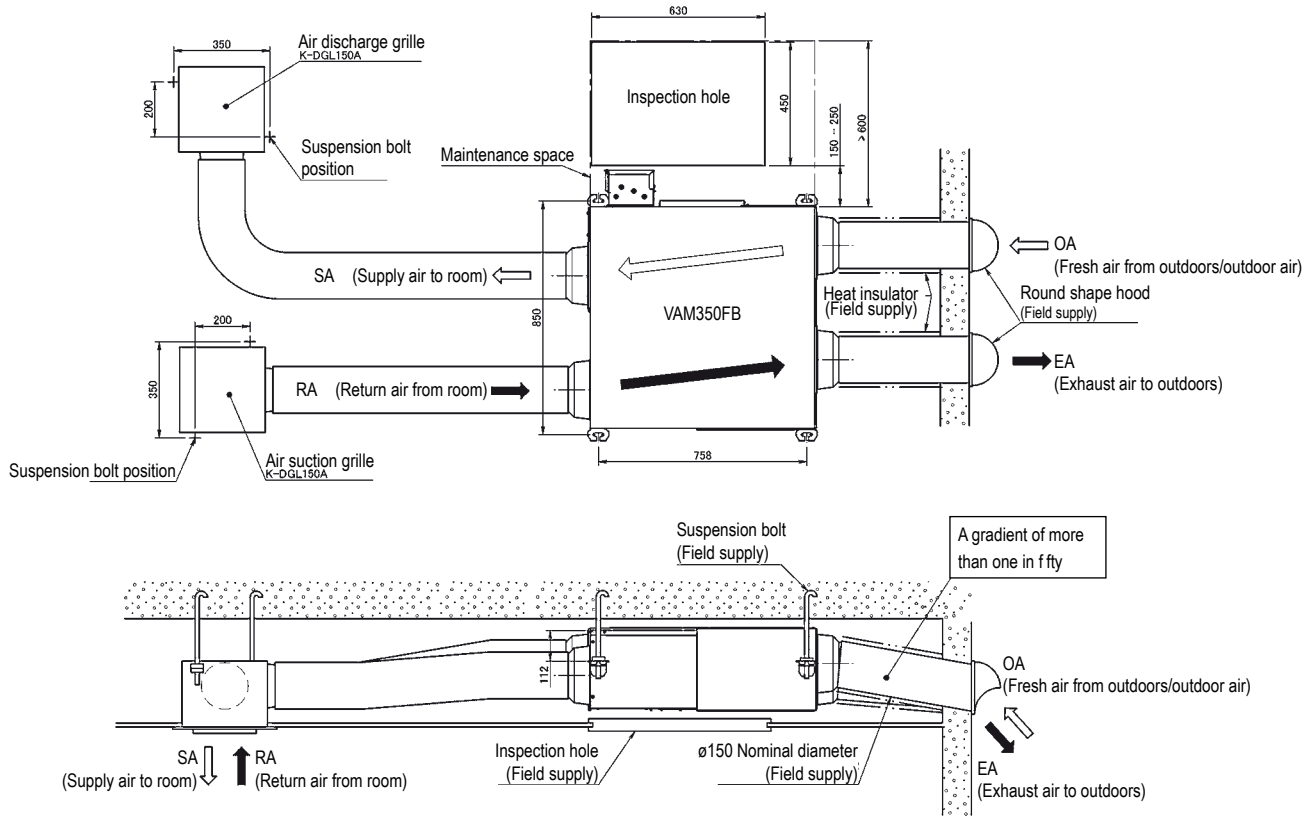

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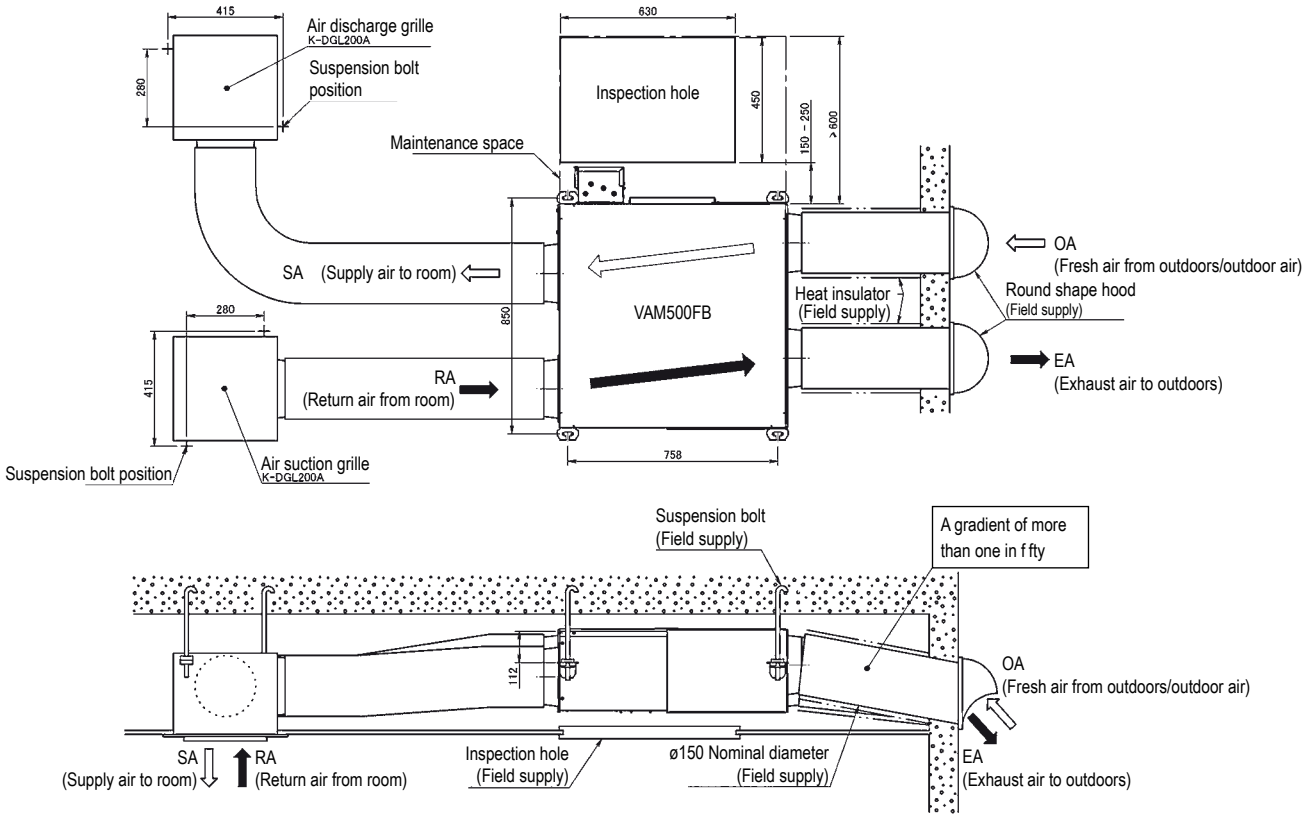

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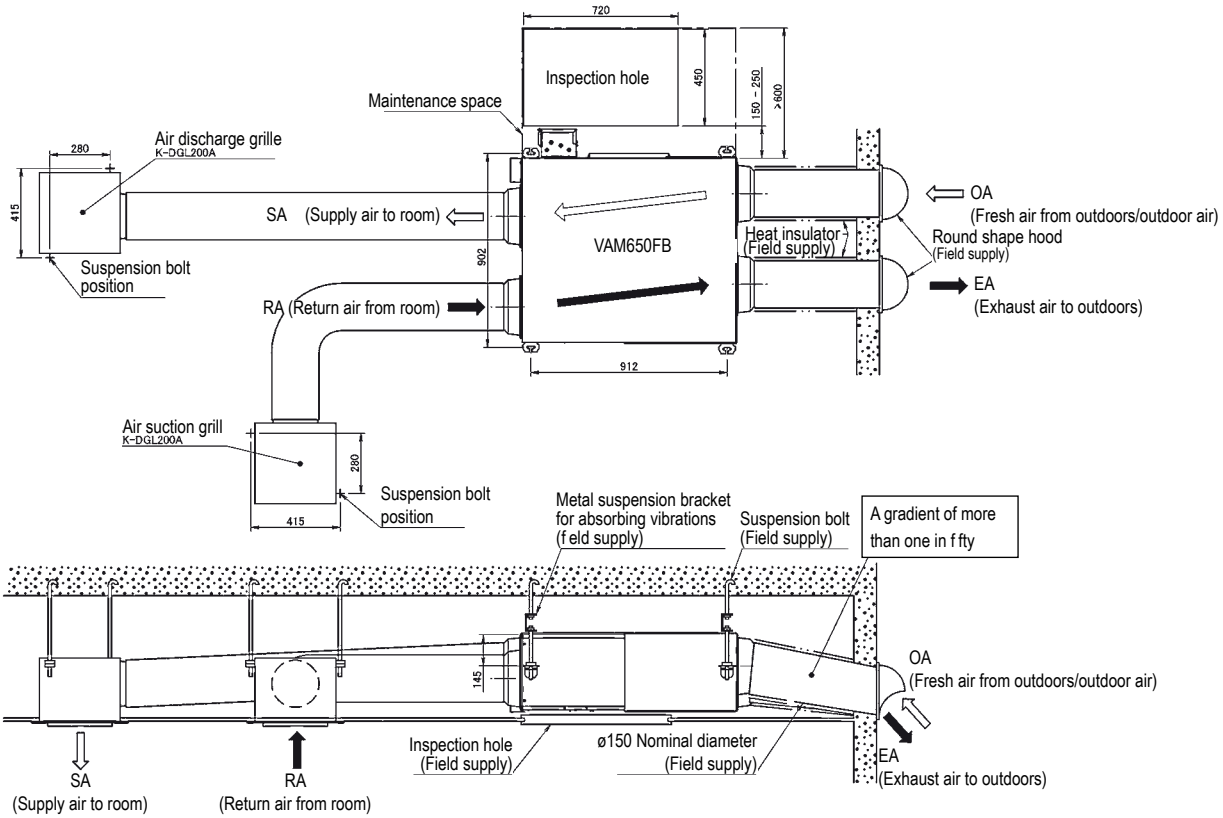

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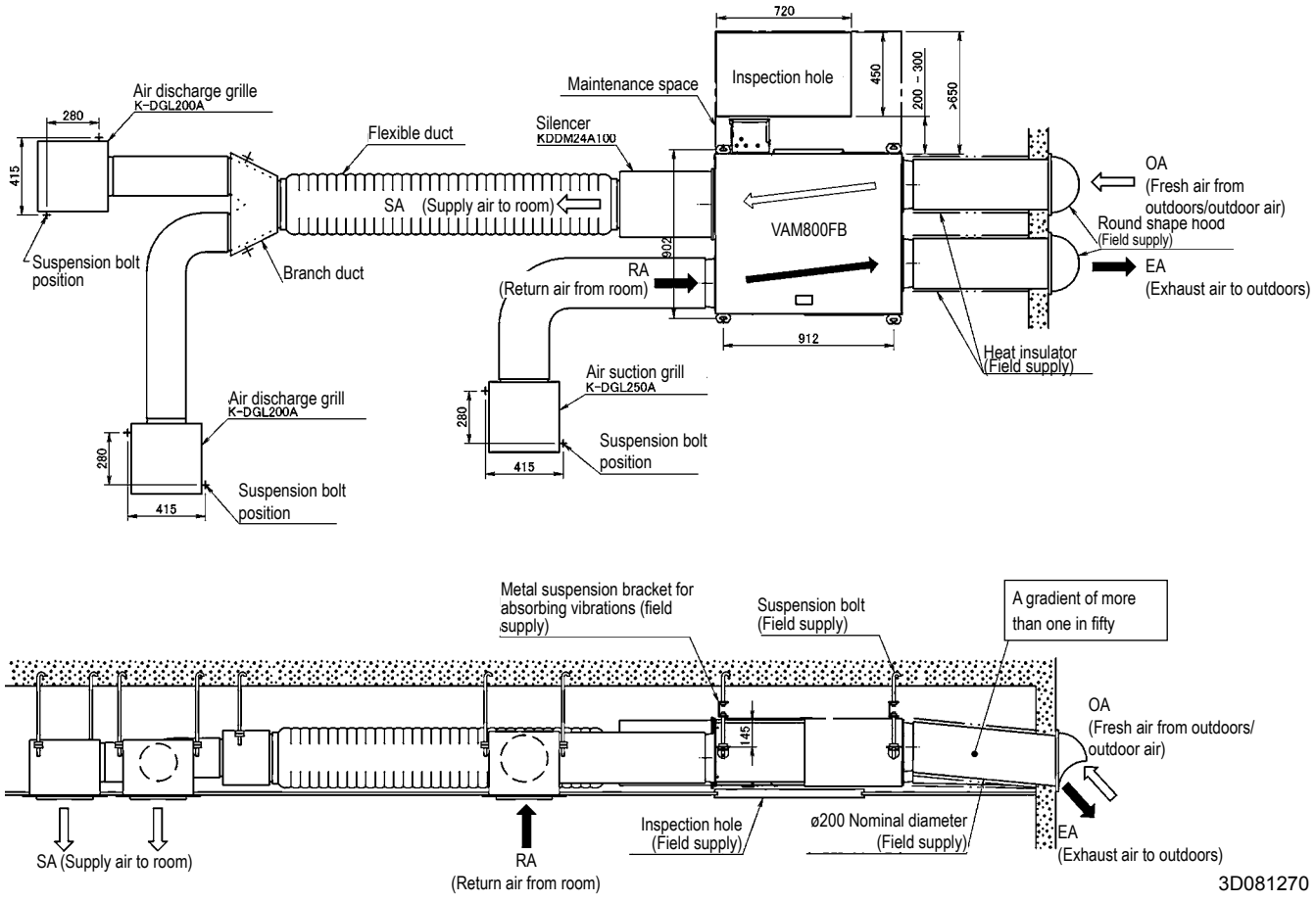

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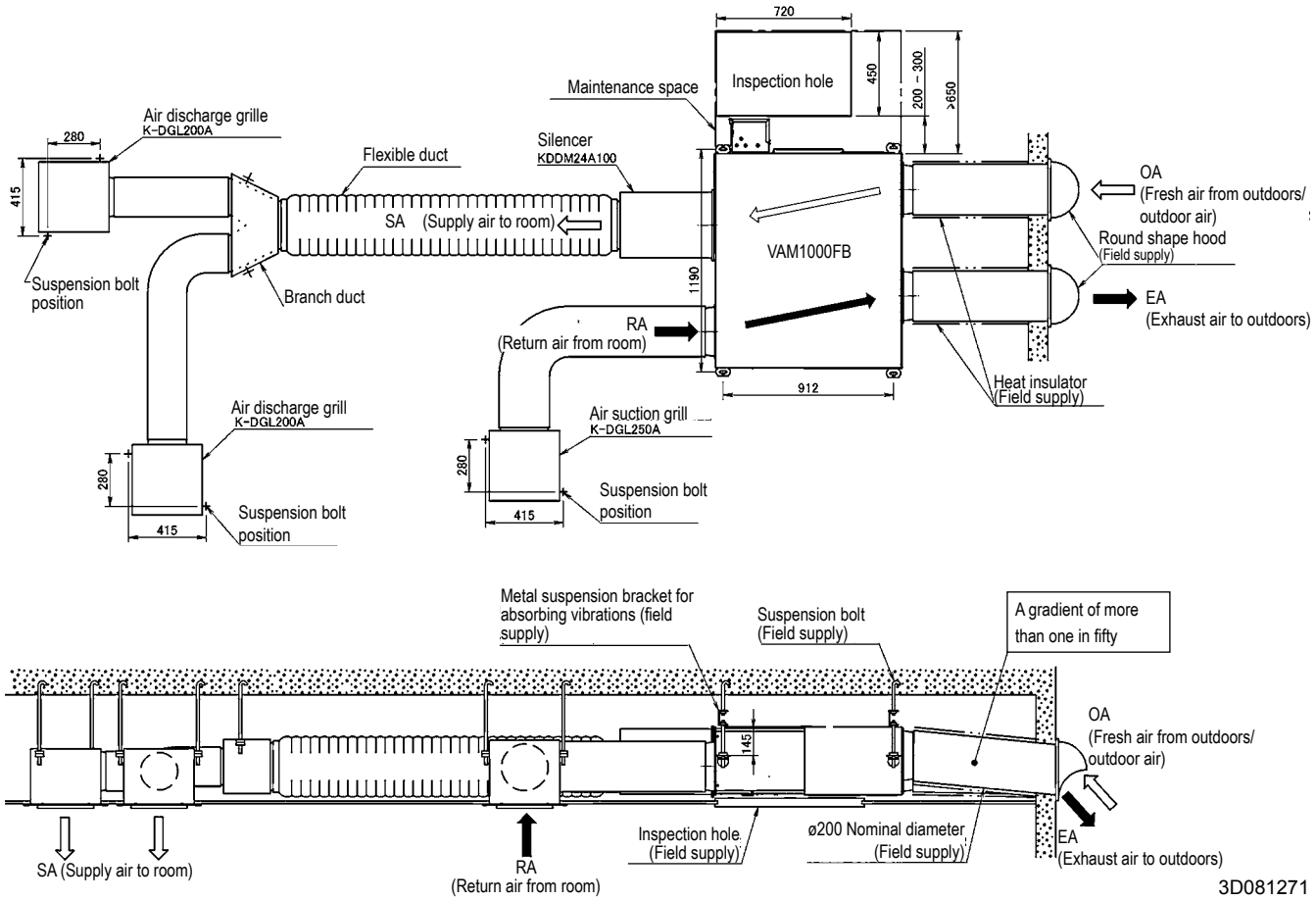
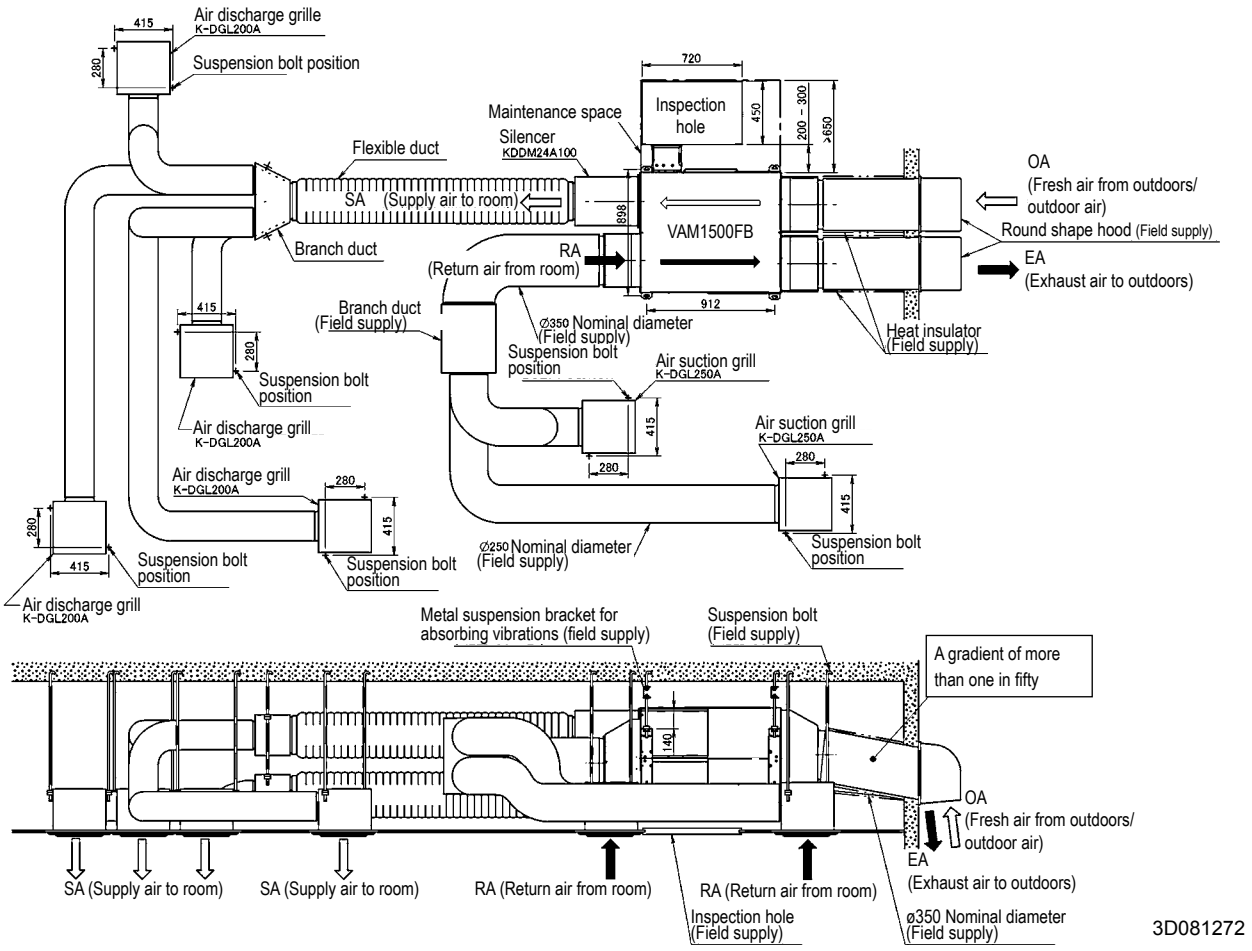
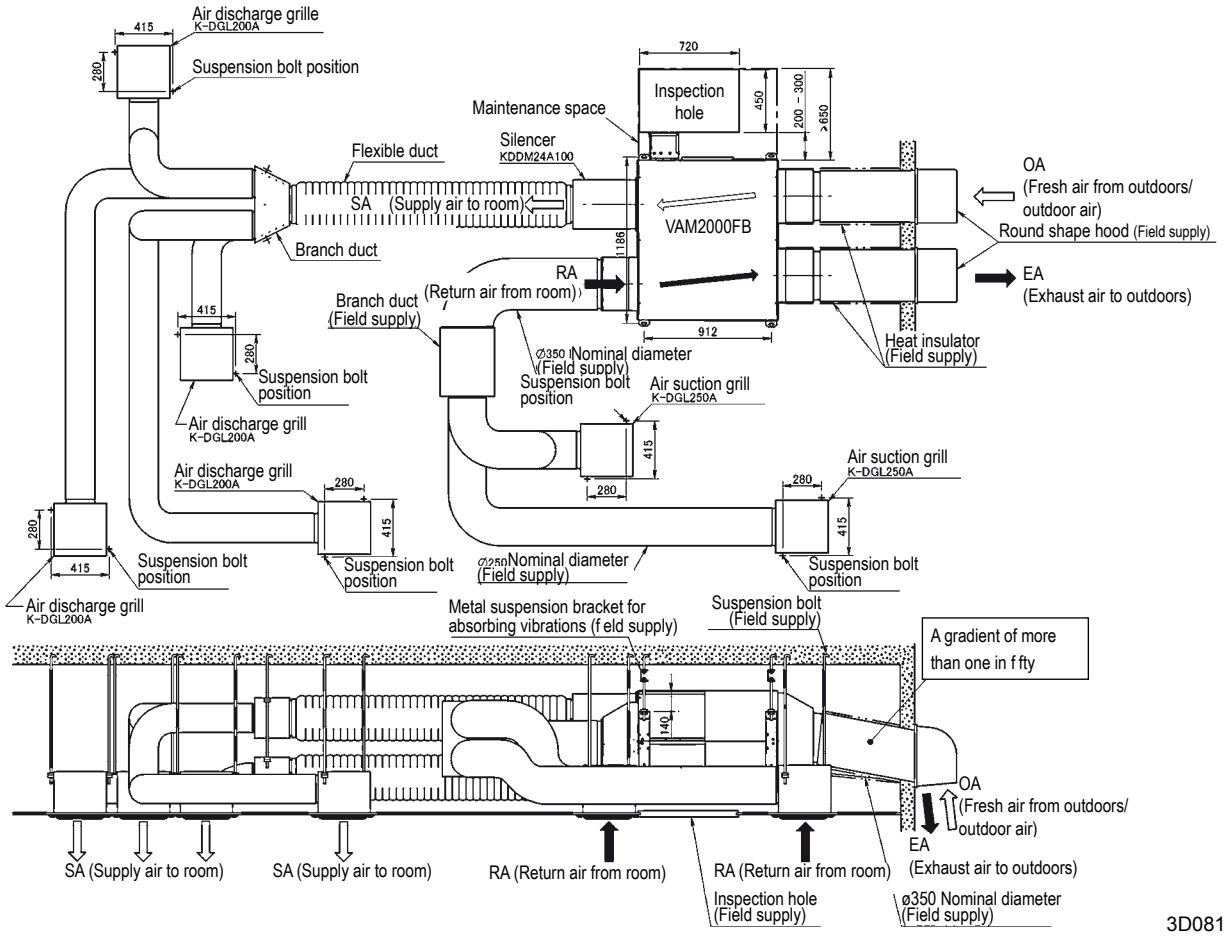


VAM1500FB



VAM2000FB



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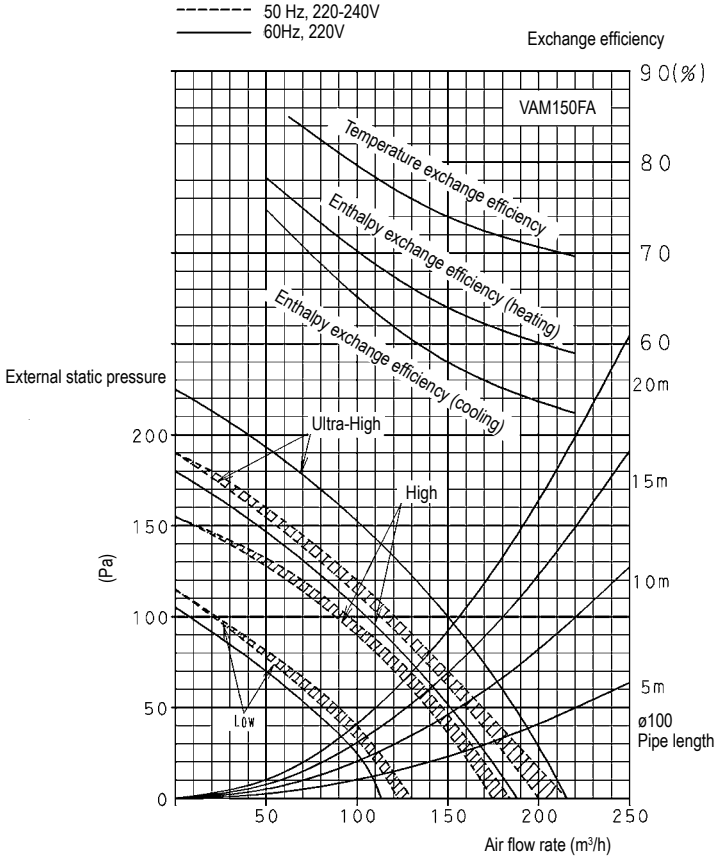

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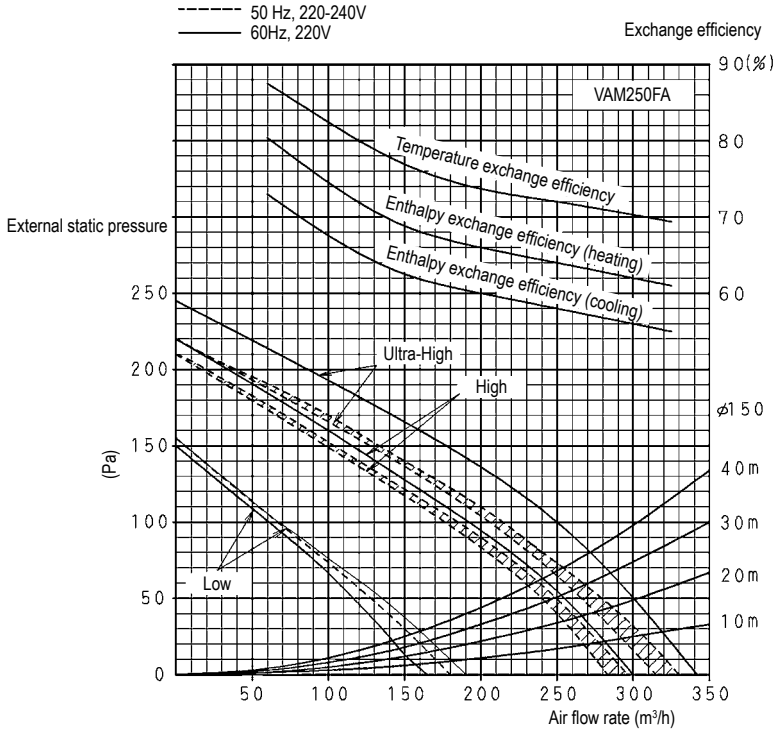
VAM250FA



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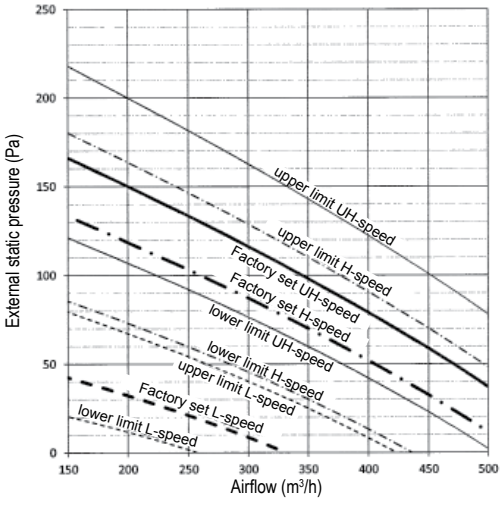
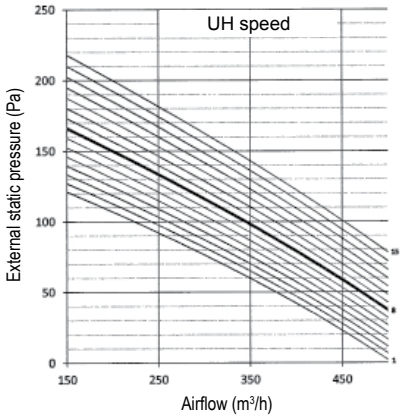
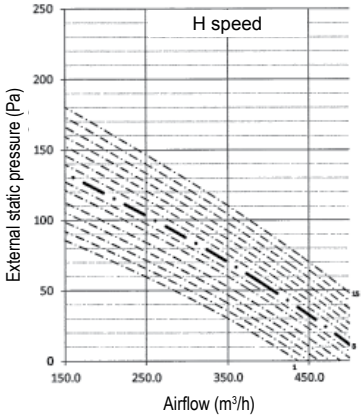
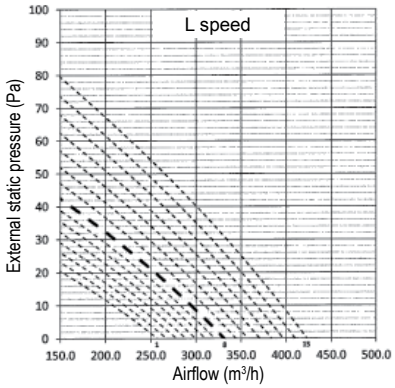






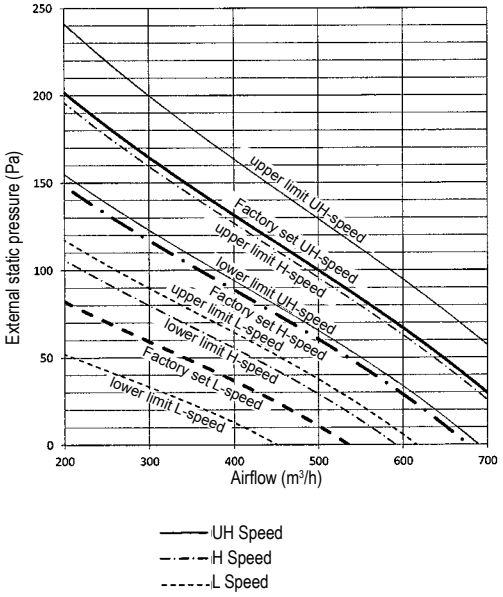


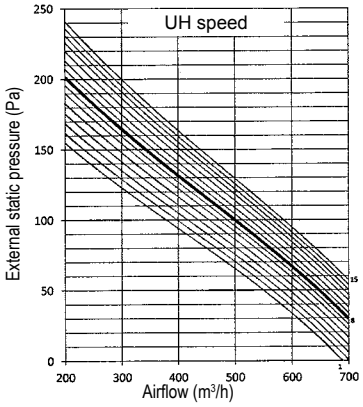
NOTES

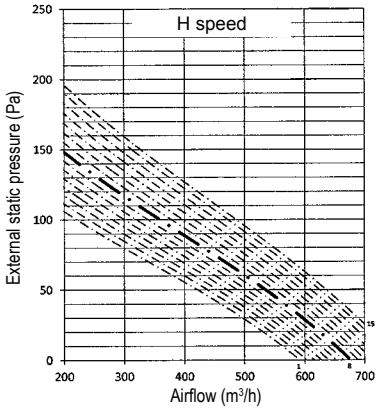
1. The fan speeds are valid for 230V 50Hz power supply

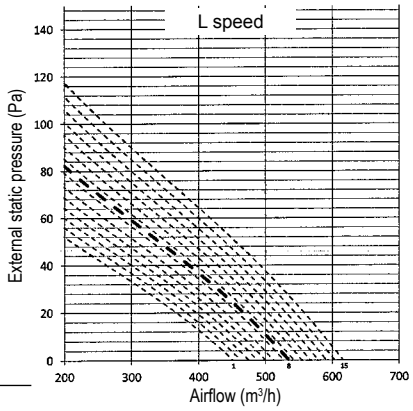
3D082177

VAM500FB







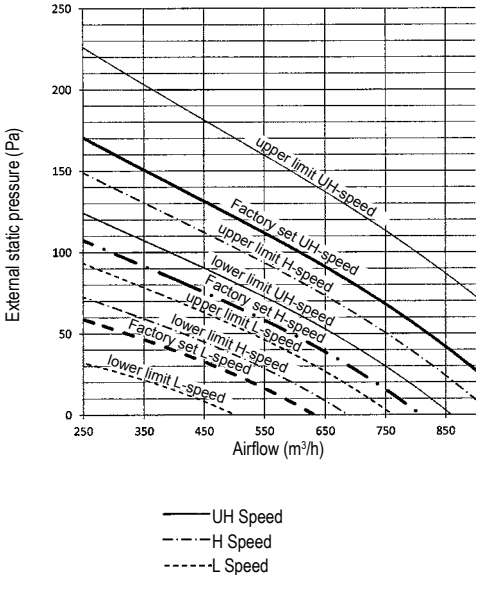


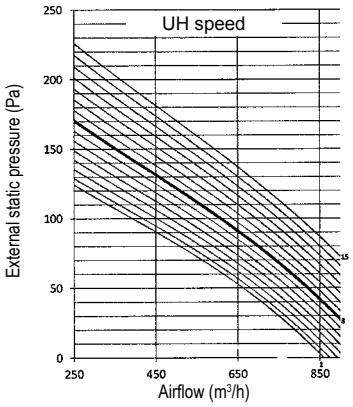
NOTES

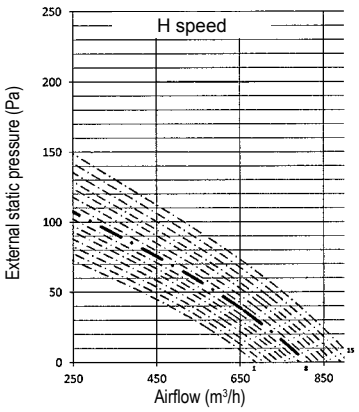
1. The fan speeds are valid for 230V 50Hz power supply

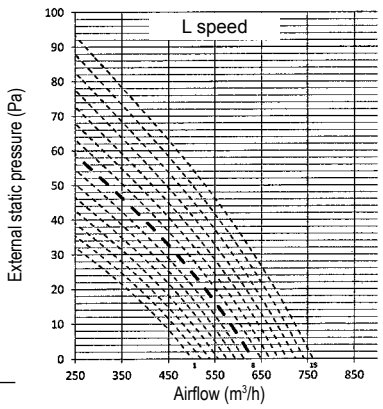
3D082178

VAM650FB







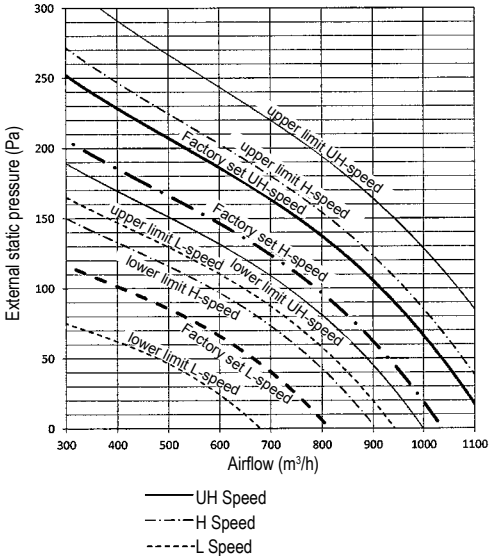


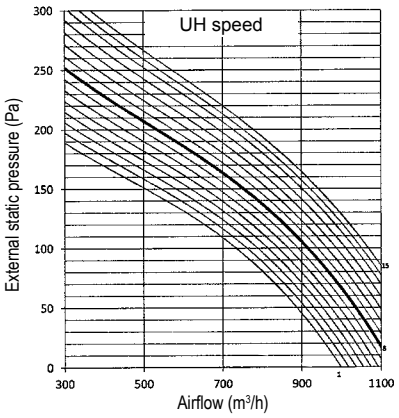
NOTES

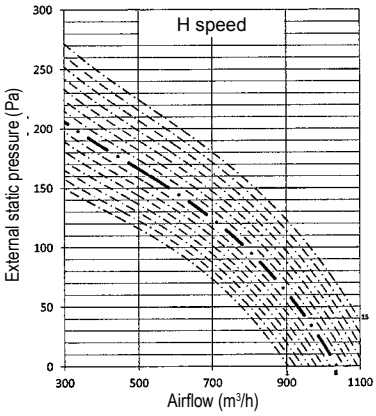
1. The fan speeds are valid for 230V 50Hz power supply

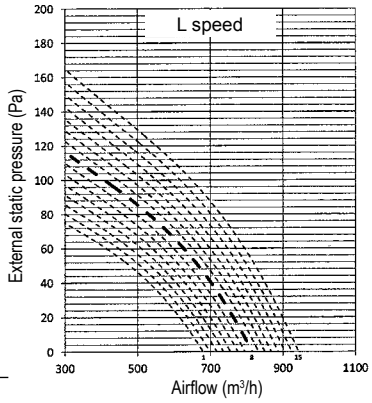
3D082179

VAM800FB







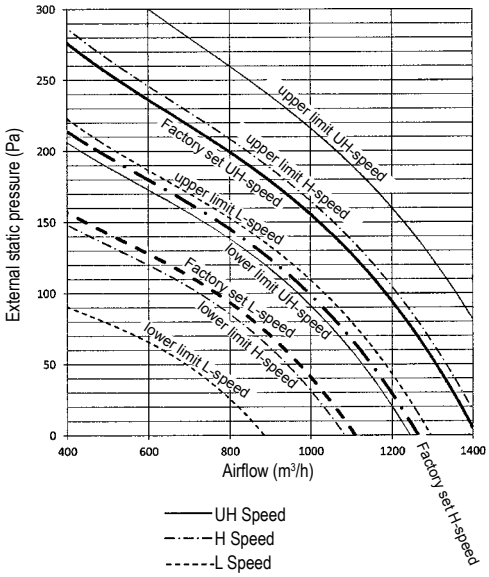


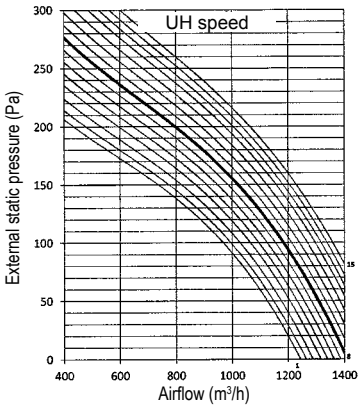
NOTES

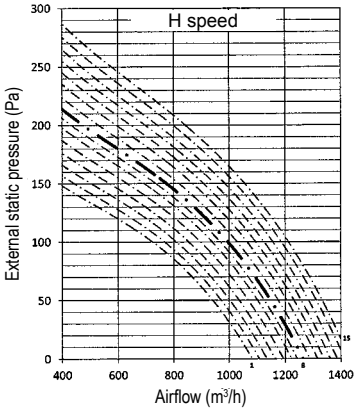
1. The fan speeds are valid for 230V 50Hz power supply

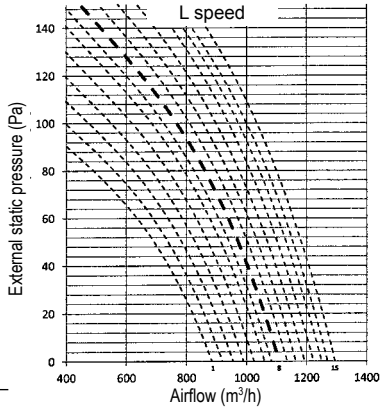
3D082180

VAM1000FB







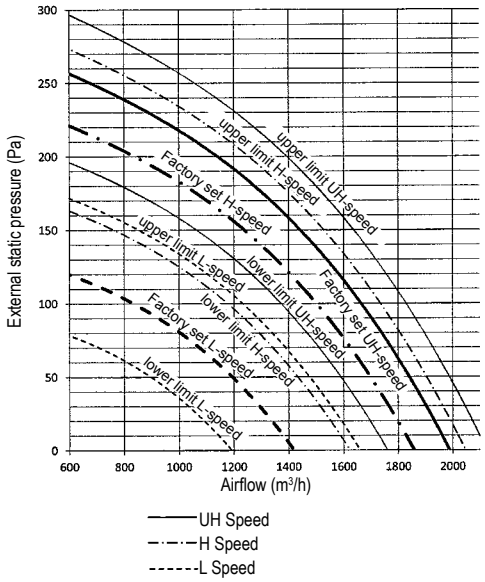


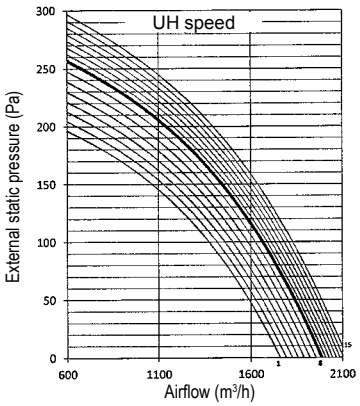
NOTES

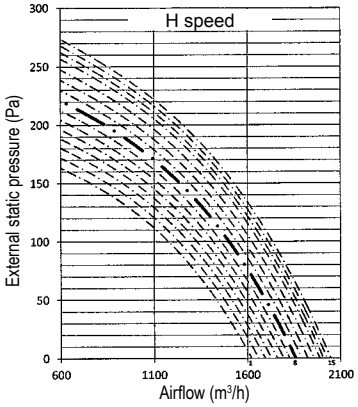
1. The fan speeds are valid for 230V 50Hz power supply

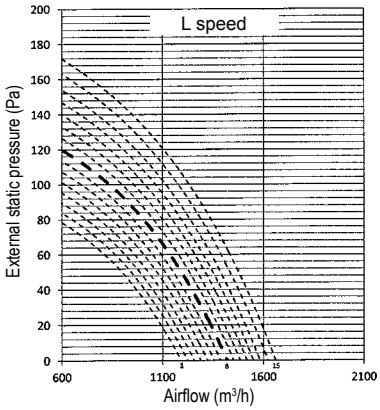
3D082181

VAM1500FB







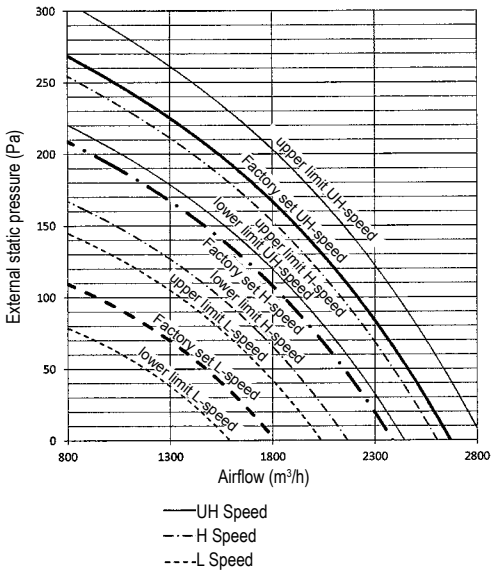


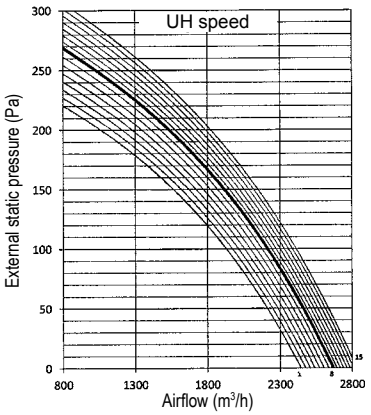
NOTES

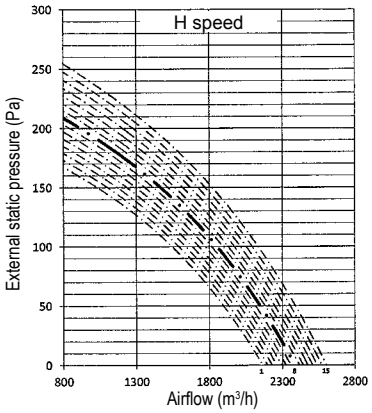
1. The fan speeds are valid for 230V 50Hz power supply

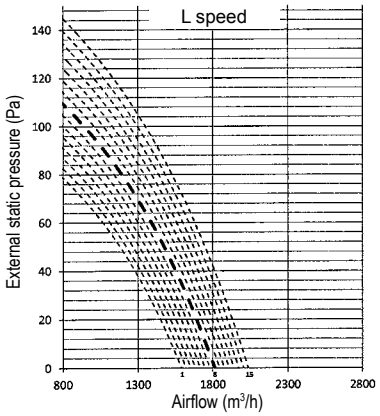
3D082182

VAM2000FB









NOTES

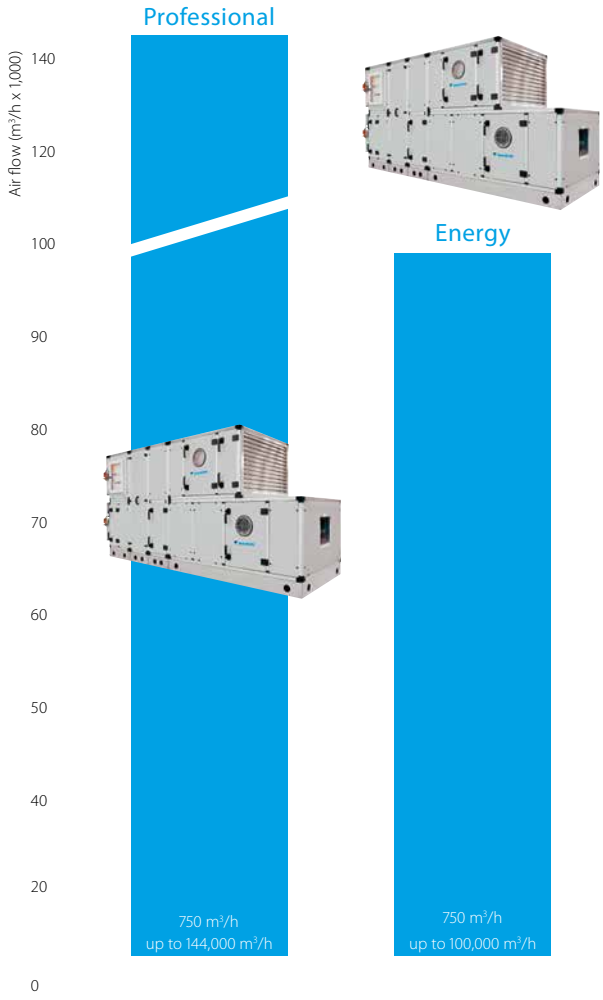
1. The fan speeds are valid for 230V 50Hz power supply

3D082183

Air handling applications

Wide range of air flows

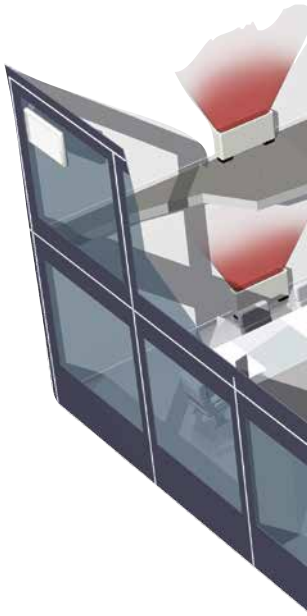
For applications that require large volumes of treated fresh air (large atriums, banqueting halls, etc.), air handling units are the ideal solution.
Daikin's wide range of air handling units treat air volumes from 500 m³/h up to 140,000 m³/h. The air handling unit can be designed to deliver whatever air flow is required, using 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 ROI

Compact
› Pre-configured sizes
› Plug & play concept
› EC fan technology
› High efficiency heat wheel
› Compact design



Daikin fresh air package - plug & play

The D-AHU Professional and Energy series provide a complete solution including factory fitted and configured unit controls (EKEXV, EKEQ, DDC controller), plug & play with our ERQ.
The easiest solution as it saves you time and your customers only need one point of contact!

Pre-defined sizes

We offer 27 fixed sizes, optimised to reach the best 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.

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 their operating efficiencies guarantee a rapid return on investment. Daikin's 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 lifespan of the equipment, this will result in a substantial saving, especially in times of ever increasing energy prices.

High efficiency components

All Daikin air handling units have been designed for optimum energy efficiency. Polyurethane or mineral wool panels guarantee excellent thermal insulation. And the widest range of filters are provided to meet even the most strict demands.

Why use ERQ for connection to air handling units?

High efficiency

Daikin heat pumps are renowned for their high energy efficiency with COPs up to 4.61 in heating.

1 ERQ100AV1 heat pump

High comfort levels

Daikin ERQ units respond rapidly to fluctuations in the supply air temperature, resulting in a steady indoor temperature which, together with dehumidification, provides end users with a high level of comfort.

Easy design and installation

The system is easy to design and install since no additional plumbing systems such as boilers, tanks and gas connections etc. are required. This also reduces both the total system investment and running costs.

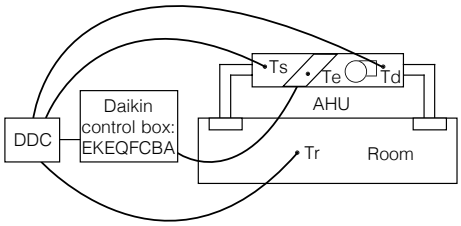
In order to maximize installation flexibility, 4 types of control systems are offered

Control w: Off the shelf control of air temperature (discharge temperature, suction temperature, room temperature) via any DDC controller
Control x: Precize control of air temperature (discharge temperature, suction temperature, room temperature) requiring a preprogrammed DDC controller (for special applications)
Control y: Control of refrigerant (Te/Tc) temperature via Daikin control (no DDC controller needed)
Control z: Control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)

Possibility W (Td/Tr control):

Air temperature control via DDC controller

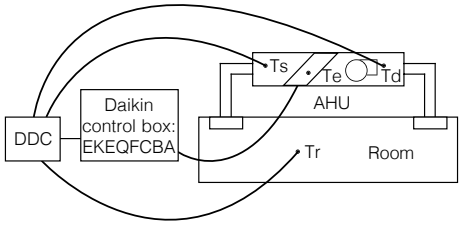
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a proportional 0-10V signal which is transferred to the Daikin control box (EKEQFCBA). This voltage controls the compressor frequency.



Possibility X (Td/Tr control):

Precise air temperature control via DDC controller

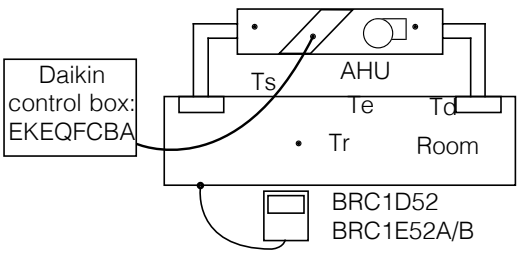
Room temperature is controlled as a function of the air handling unit suction or discharge air (customer selection). The DDC controller is translating the temperature difference between set point and air suction temperature (or air discharge temperature or room temperature) into a reference voltage (0-10V) 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.



Possibility Y (Te/Tc control):

By fixed evaporating /condensing temperature

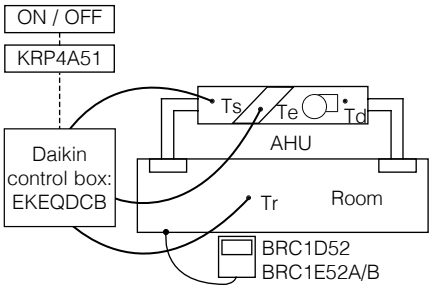
A fixed target evaporating temperature of between 3°C and 12°C can be set by the customer. In this case, room temperature is only indirectly controlled. The cooling load is determined from the actual evaporating temperature (i.e. load to the heat exchanger). A Daikin infrared remote control (BRC1D52 or BRC1E52A/B - optional) can be connected for error indication.



Possibility Z (Ts/Tr control):

Control your AHU

(BRC1D52 or BRC1E52A/B - optional)
Set point can be fixed via standard Daikin infrared remote control.
Remote ON/OFF can be achieved by an optional adapter KRP4A51.
No external DDC controller should be connected. The cooling load is determined from the air suction temperature and set point on the Daikin controller.



Ts = Air suction temperature
Td = Air discharge temperature
Tr = Room temperature
Te = Evaporating temperature
AHU = Air Handling Unit
DDC = Digital Display Controller

	Option kit	Features
Possibility w	EKEQFCBA	DDC controller is required temperature control using air suction or air discharge temperature
Possibility x		DDC and Microtech controller is required Precise Temperature control using air suction or air discharge temperature
Possibility y		Using fixed evaporating temperature, no set point can be set using remote control
Possibility z	EKEQDCB	Using Daikin infrared remote control BRC1D52 or BRC1E52A/B Temperature control using air suction temperature

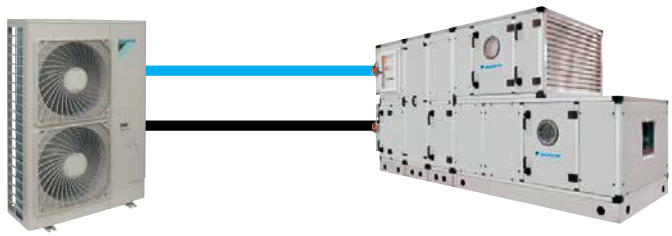
ERQ

A range of R-410A inverter condensing units for pair application with air handling units

› Inverter controlled units
› Large capacity range (from 100 to 250 class)
› Heat pump
› R-410A
› Wide range of expansion valve kits available
› Basic DX solution for fresh air

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.

Daikin air handling unit



F1 - F2
Refrigerant piping

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			R-410A		
Piping	Liquid	OD	mm	9.52		
connections	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			R-410A		
Piping	Liquid	OD	mm	9.52		
connections	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	

Daikin also offers a range of expansion valve kits and control boxes to connect ERQ and VRV condensing units to third party air handling units

Combination table

			Control box			Expansion valve kit									
Outdoor unit			EKEQDCBV3	EKEQFCBAV3	EKEQMCBAV3	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	EKEXV400	EKEXV500
System A	1-phase	ERQ100	P	P		-	P	P	P	P	-	-	-	-	-
		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	-	-

- P (pair application): combination depends on the capacity of the air handling unit
- n1 (multi application: combination of air handling units and VRV DX indoor units): to determine the quantity, refer to the engineering data book
- n2 (multi application: multiple air handling units, or the combination of air handling units and VRV DX indoor units): to determine the quantity, refer to the engineering 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

* EKEXV400-500 can only be connected with VRV outdoor units for larger capacity air handling unit

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			R-410A									
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
Application			See note	Pair
Outdoor unit			ERQ	ERQ
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 combination with DX indoor units, hydroboxes, RA outdoor units, ... is not allowed. Refer to the combination table drawing of the outdoor unit for details.

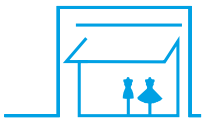
Control Systems

Control possibilities for commercial applications

Daikin offers flexible control solution suited to the requirements of even the most demanding commercial applications.

› Basic control solutions for those customers with few requirements and limited budget
› Integrating control solutions for those customers that would like to integrate Daikin units into their existing BMS system
› Advanced control solutions for those customers that expect Daikin to deliver a mini BMS solution, including advance energy management

Shop



	Unit control		Integrating control			Advanced control	
	BRC1E52A/B	RTD-20	RTD-Net	KLIC-DI	EKMBDXA	DCS601C51	DCM601A51
	1 remote controller for 1 indoor unit (group)	1 gateway for 1 indoor unit (group)	1 gateway for 1 indoor unit	1 gateway for 1 indoor unit	1 gateway for max. 64 indoor unit(s) (groups) & 10 outdoors	1 iTC for 64 indoor unit(s) (groups)	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							●
Advanced energy management							●
Allows free cooling						●	●
Integrate Daikin products cross pillars into Daikin BMS							●
Integrate third party products into Daikin BMS							●
Web control standard available for control via local PC							●

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems)

Hotel

	Unit control		Integrating control		Advanced control	
	BRC2/3E52C	RTD-HO	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 (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	●	●				●
Interlock with key-card	●	●				●
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						●
Web control standard available for control via local PC						●

(1) : 7 iTM plus adapters (DCM601A52) can be added to have 512 indoor groups and 80 outdoor (systems)

Office

	Unit control	Integrating control			Advanced control		
	BRC1E52A/B	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 KNX							
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							●
Web control standard available for control via local PC							●

(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

Technical cooling

	Unit	Integrating	Advanced
	DTA113B51	RTD-10	DCM601A51
	1 PCB for 4 indoor unit(s) (groups)	1 gateway for up to 8 indoor units (group)	1 iTM for 64 indoor unit(s) (groups) (1)
Automatic control of A/C	●	●	●
Back-up operation	●	●	●
Duty rotation	●	●	●
Limited control possibilities in the technical 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)

ONLINE CONTROLLER

WIRED REMOTE CONTROL
BRC1E52A

INTELLIGENT TOUCH MANAGER
DCM601A51

INFRARED REMOTE CONTROLLER

BRC944B2*/BRC1D52

Wired remote control

› 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
› Constantly monitoring of the system for malfunctions in a total of 80 components
› Immediate display of fault location and condition
› Reduction of maintenance time and costs

BRC1D52

BRC944B2

Display

› Operating mode[1]
› Heat Recovery Ventilation (HRV) in operation
› Cool / heat changeover control
› Centralised control indication
› Group control indication
› Set temperature[1]
› Air flow direction[1]
› Programmed time
› Inspection test / operation
› Fan speed[1]
› Clean air filter
› Defrost / hot start
› Malfunction

[1] Only functions marked with '1' are available on BRC944B2

ARC4*/BRC4*/BRC7*

Infrared remote control

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

ARC466A1

BRC4*/BRC7*

BRC2E52A / BRC3E52A

Simplified wired remote control developed for hotel applications

› 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
› 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

User friendly remote control with contemporary design

BRC1E52A/B

Graphical display of indicative electricity consumption (Function available in combination with 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 new round flow 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.

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
› Built-in backup power: when a power failure occurs all settings remain stored up to 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, Albanian (BRC1E52B)

Siesta individual control systems

ARCWLA / ARCWB

Overview controllers for Siesta Sky Air

Siesta Sky Air indoor units	Controllers
ACQ-D 4-way blow, ceiling mounted cassette	• Standard infrared remote control (ARCWLA) in box of decoration panel ADP125A • Wired remote control ARCWB • Optional group controller R04084124324
AHQ-C ceiling suspended	• Standard infrared remote control in box of indoor unit ARCWLA • Wired remote control ARCWB • Optional group controller R04084124324
ABQ-C concealed ceiling	• Standard wired remote control (ARCWB) in box of indoor unit • Optional group controller R04084124324

Overview of features

	Feature		ARCWB
			AHQ-C and ACQ-D Standard for ABQ-C
			
1	ON/OFF switch		Standard
2	Temperature setting	Default range 16-30°C	Standard
		Optional range 20-30°C	By dipswitch selection
		Switch between °C and °F	Standard
3	Room temperature sensor on remote control		Standard
4	Cool / Fan dry / Heat / Auto		Standard
5	Sleep mode		Standard
6	Fan Speed selection		Standard
7	Delay timer		1, 2 & 4 hours delay
8	7-days programmable timer		Standard
9	Real time clock display		Standard
10	Air swing selection	ON/OFF swing mode	Standard
		Change swing option (draft/soil prevention or standard)	Standard
11	LCD display without backlight		Standard
12	Key lock		Standard
13	Error code indication		Standard
14	IR receiver to enable compatibility with infrared remote control (disabled when lock function is activated)		Standard
15	Last state memory from indoor PCB		Standard
16	Silent mode		By dipswitch selection
17	Turbo mode		By dipswitch selection
18	Compressor test model (compressor force ON)		Standard
19	Daikin inverter error code		Standard
20	UART communication port (for Daikin protocol)		Standard
21	Backup battery		Standard

Specifications

› Dimensions (length x width x height) ARCWB: 0.15 m x 0.21 m x 0.04 m.
› ARCWB comes standard with a 10 metre cable, which can be extended to maximum cable length of 15 metres. ARCWB can only control one indoor unit at a time; group control is only possible when using option R04084124324.

Centralised control of the Sky Air and VRV system can be achieved via three user-friendly compact controls.
› These controls may be used independently, or in combination with 1 group (up to 16 indoor units), and 1 zone (several groups).
› 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 their different requirements.

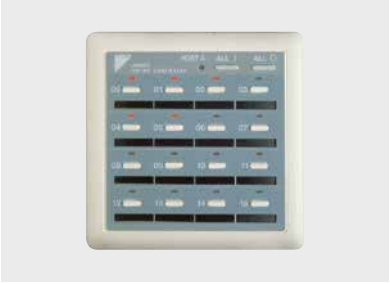
DCS302C51

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

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)

DST301B51

Schedule timer

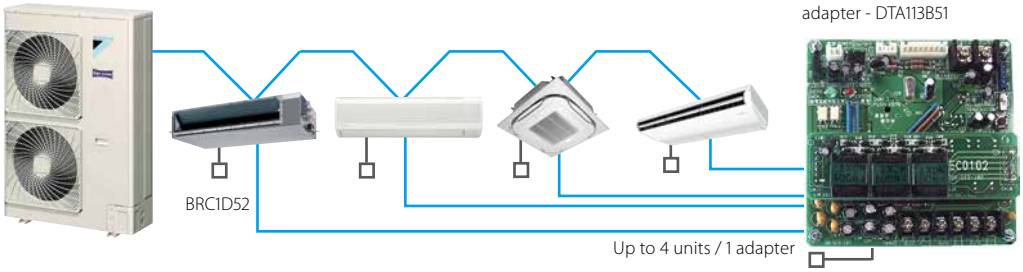
Enabling 64 groups to be programmed.

› 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)

Adapter DTA113B51

Basic solution for control of Sky Air and VRV

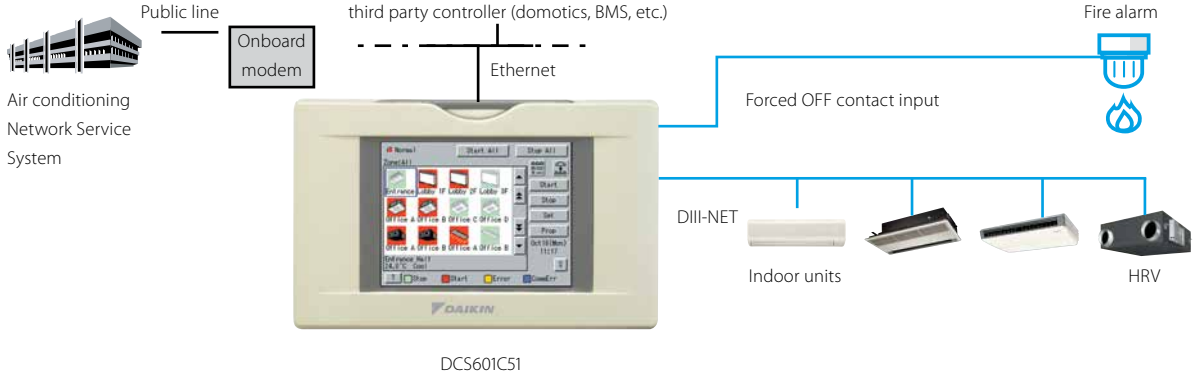
› Rotation function
› Backup operation function.



intelligent touch 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)

Management
› Enhanced history function

Control
› Individual control (set point, start/stop, fan speed) (max. 64 groups/indoor units)
› Set back shedule
› 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

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)

Connectable to
› VRV
› HRV
› Sky Air
› Split (via interface adapter)

intelligent touch Manager

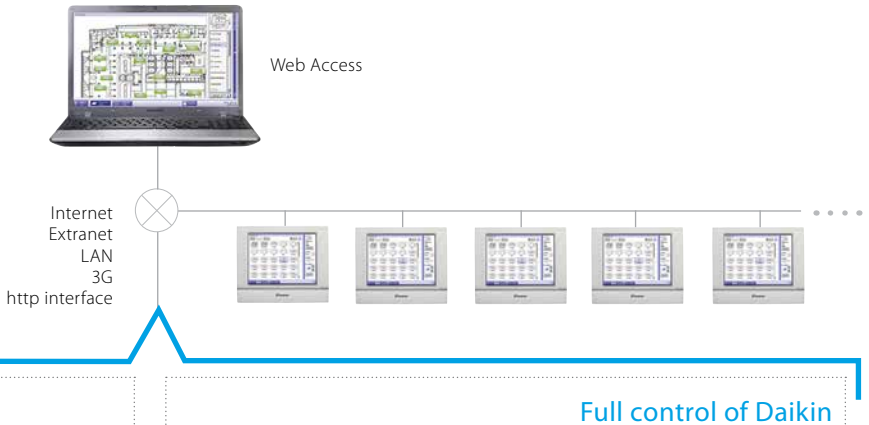
DCM601A51

Mini BMS

with full integration across all product types

- Reliable and cost-effective mini BMS
- Seamlessly integrates across Daikin range
- Integration of third party equipment

System overview



touch intelligent Manager

User-friendly

› Intuitive user interface
› Visual layout view and direct access to indoor unit main functions
› All functions directly accessible via touchscreen or web interface

Smart energy management

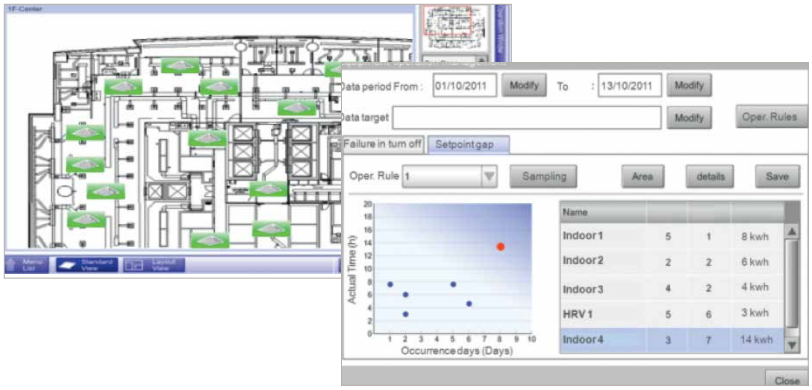
› Monitoring that energy use is according to plan
› Helps to detect sources of energy waste
› Powerful schedules guarantee correct operation throughout the year
› Save energy by interlocking A/C operation with other equipment, such as heating

Flexibility

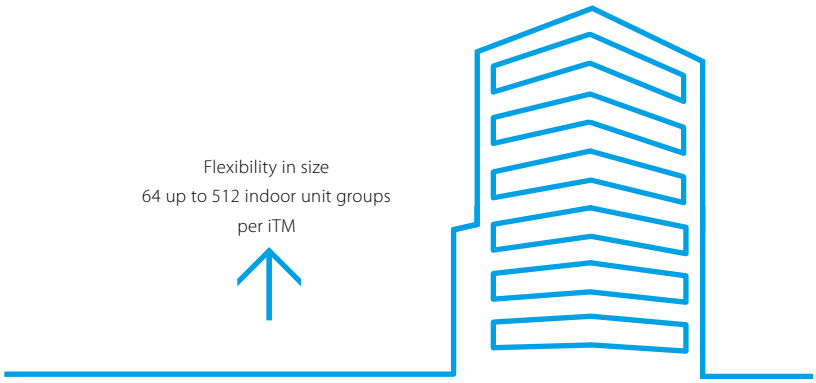
› Cross-type integration (heating, air conditioning, applied systems, refrigeration, air handling units)
› BACnet protocol for 3rd party product integration
› I/O for integrating equipment such as lights, pumps, etc. on WAGO modules
› Modular concept for small to large applications
› Control up to 512 indoor unit groups per iTM

Easy servicing and commissioning

› Remote refrigerant containment check avoiding onsite visits
› Simplified troubleshooting
› Save time on commissioning thanks to the pre-commissioning tool
› Auto registration of indoor units



Plug & play



Functions overview

Languages

› English
› French
› German
› Italian
› Spanish
› Dutch
› Portuguese

System layout

› Up to 2,560 unit groups can be controlled (ITM plus Integrator + 7 iPU (incl. iTM adaptor)
› Ethernet TCPIP

Management

› Web access
› Power Proportional Distribution (option)
› Operational history (malfunctions, operation hours, …)
› Smart energy management
- monitor if energy use is according to plan
- detect origins of energy waste
› Setback function
› Sliding temperature

Control

› Individual control (512 indoor unit groups per iTM)
› Schedule setting (Weekly schedule, yearly calender, seasonal schedule)
› Interlock control
› Setpoint limitation
› Temperature limit

Connectable to

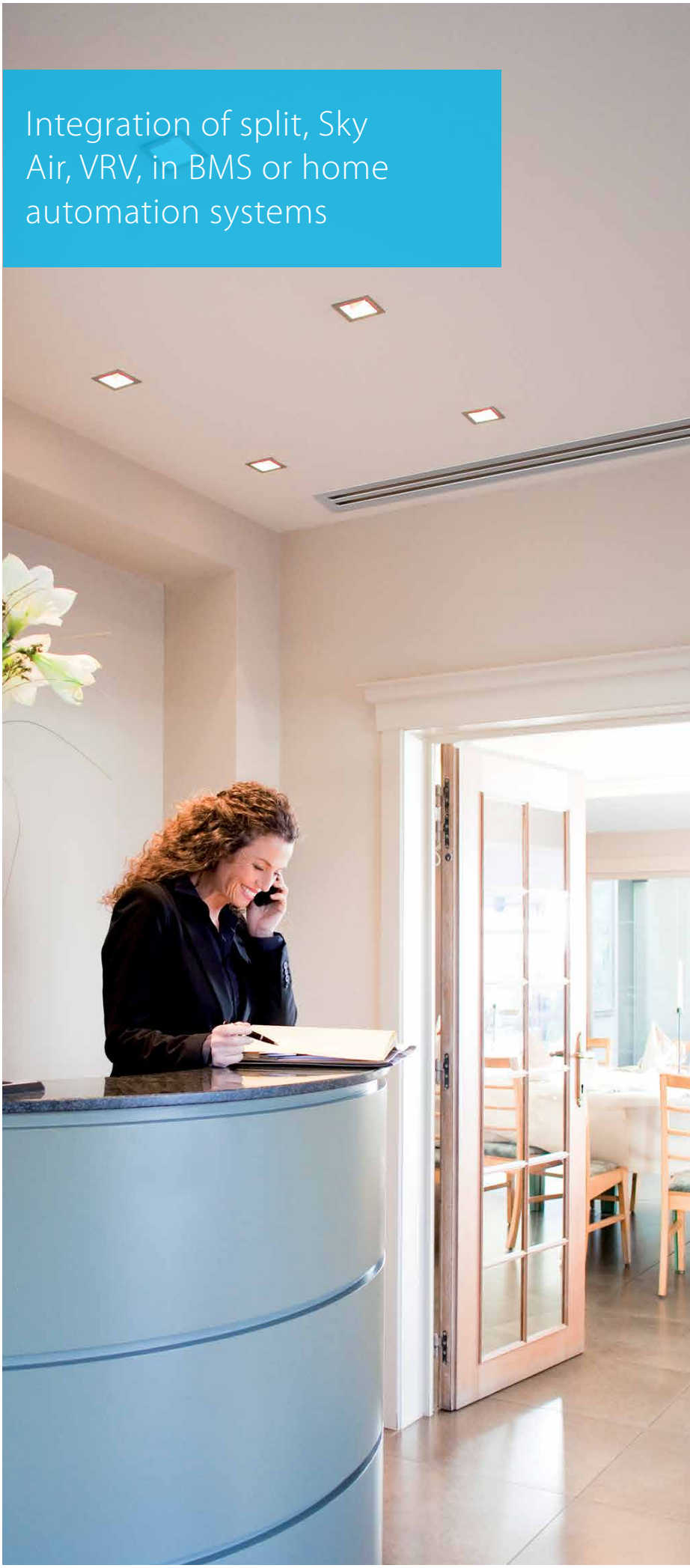
- DX Split, Sky Air, VRV
- Chillers (via POL638.70 controller)
- Daikin AHU
- Fan coils
- Daikin Altherma Flex type
- LT and HT hydroboxes
- Air curtains
- WAGO I/O
- BACnet protocol

WAGO Interface

› Modular integration of 3rd party equipment
- WAGO coupler (interface between WAGO and Modbus)
- Di module
- Do module
- Ai module
- Thermistor module
- AO module
- Pulse Input

Modbus Interface

RTD



RTD-RA

› Modbus interface for monitoring and controlling residential indoor units

RTD-NET

› Modbus interface for monitoring and controlling 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

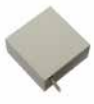
RTD-20

› Advanced control of Sky Air, VRV, VAM/VKM and air curtains
› Cloned or independent zone control
› Increased comfort with integration of CO2 sensor for fresh air volume control
› Save on running costs via
- pre/post and trade mode
- setpoint limitation
- overall shut down
- PIR sensor for adaptive deadband

RTD-HO

› Modbus interface for monitoring and controlling Sky Air, VRV, VAM and VKM
› Intelligent hotel room controller

Overview functions





Main functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
Dimensions H x W x D mm	80 x 80 x 37,5		100 x100 x 22		
Key card + window contact					✓
Set back function	✓				✓
Prohibit or restrict remote control functions (setpoint limitation, ...)	✓	✓	✓	✓**	✓
Modbus (RS485)	✓	✓	✓	✓	✓
Group control	✓(1)	✓	✓	✓	✓
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-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M,C	M	M,V,R	M	M*
Set point	M	M	M,V,R	M	M*
Mode	M	M	M,V,R	M	M*
fan	M	M	M,V,R	M	M*
Louver	M	M	M,V,R	M	M*
HRV Damper control		M	M,V,R	M	
Prohibit/Restrict functions	M	M	M,V,R	M	M*
Forced thermo off	M				

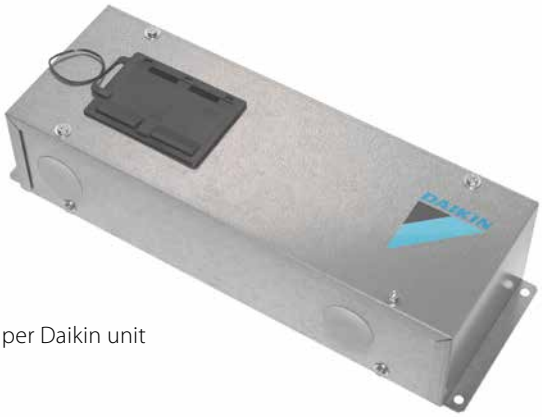
Monitoring functions	RTD-RA	RTD-NET	RTD-10	RTD-20	RTD-HO
On/Off	M	M	M	M	M
Set point	M	M	M	M	M
Mode	M	M	M	M	M
fan	M	M	M	M	M
Louver	M	M	M	M	M
RC temperature		M	M	M	M
RC mode		M	M	M	M
nbr units		M	M	M	M
Fault	M	M	M	M	M
Fault code	M	M	M	M	M
Return air temperature (Average /Min/Max)	M	M	M	M	M
Filter alarm		M	M	M	M
Termo on	M	M	M	M	M
Defrost		M	M	M	M
Coil In/Out temperature	M	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

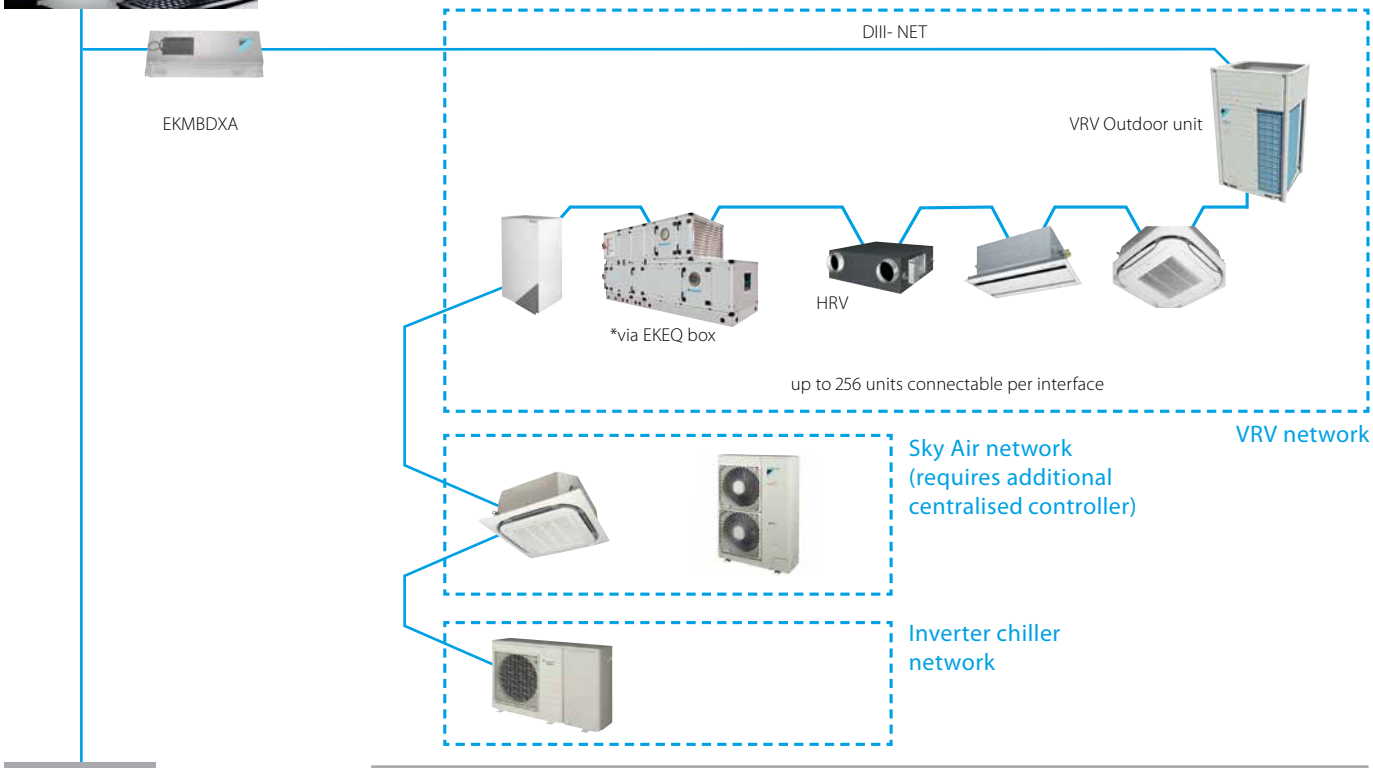
DIII-net Modbus interface

EKMBDXA

Integrated control system for seamless connection between Sky Air and VRV 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 per Daikin unit



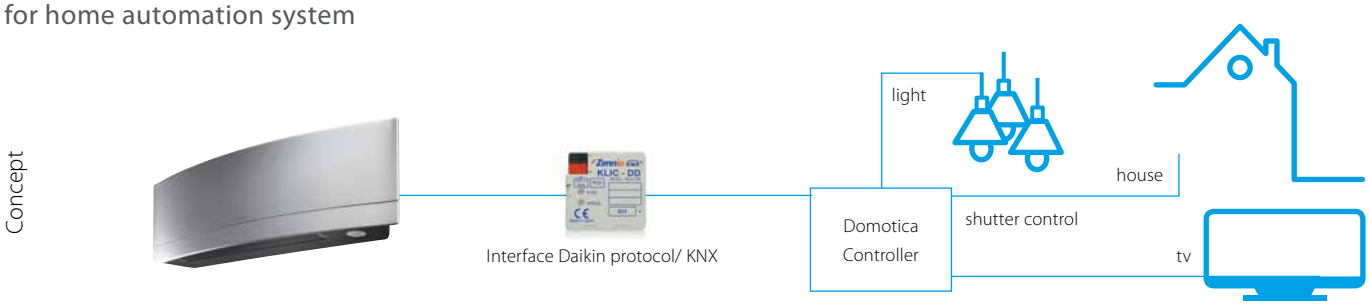
			EKMBDXA7V1
Maximum number of connectable indoor units			64
Maximum number of connectable outdoor units			10
Communication	DIII-NET - Remark		DIII-NET (F1F2)
	Protocol - Remark		2 wire; communication speed: 9600 bps or 19200 bps
	Protocol - Type		RS485 (modbus)
	Protocol - Max. Wiring length	m	500
Dimensions	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

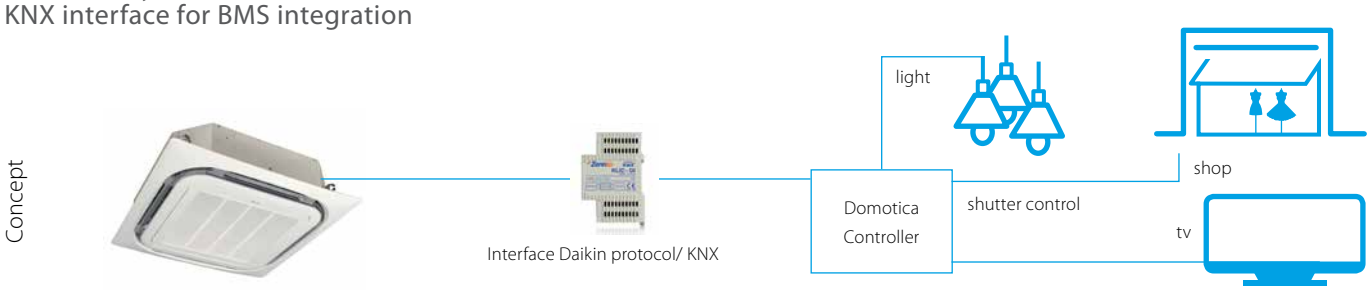
KLIC-DI

Integration of Split, Sky Air and VRV in HA/BMS systems

Connect split indoor units to KNX interface for home automation system



Connect Sky Air / VRV indoor units to KNX interface for BMS integration



KNX interface range

Integrating Daikin indoor units through the KNX interface allows several devices, such as lights and shutters, to be monitored and controlled from one central controller. One particularly important feature is the ability to programme a scenario such as 'Home leave', where the user selects a range of commands to be executed simultaneously once the scenario is selected. For instance in 'Home leave', the air conditioner is switched off, the lights are turned off, the shutters are closed and the alarm is turned on.

KNX interface for

	 KLIC-DD Size 45x45x15mm	 KLIC-DI Size 90x60x35mm	
	Split	Sky Air	VRV
Basic control			
On/Off	●	●	●
Mode	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool	Auto, heat, dry, fan, cool
Temperature	●	●	●
Fan speed levels	3 or 5 + auto	2 or 3	2 or 3
Swing	Stop or movement	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 placing of the sensor
› No need for wiring
› No need to drill holes
› Ideal for renovations

Connection diagram Daikin indoor unit PCB (FXSQ-P 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 placing of the sensor

Specifications

Dimensions (HxW)	mm	60 x 50
Weight	g	300
Length of branch wiring	m	12

PCB ADAPTERS

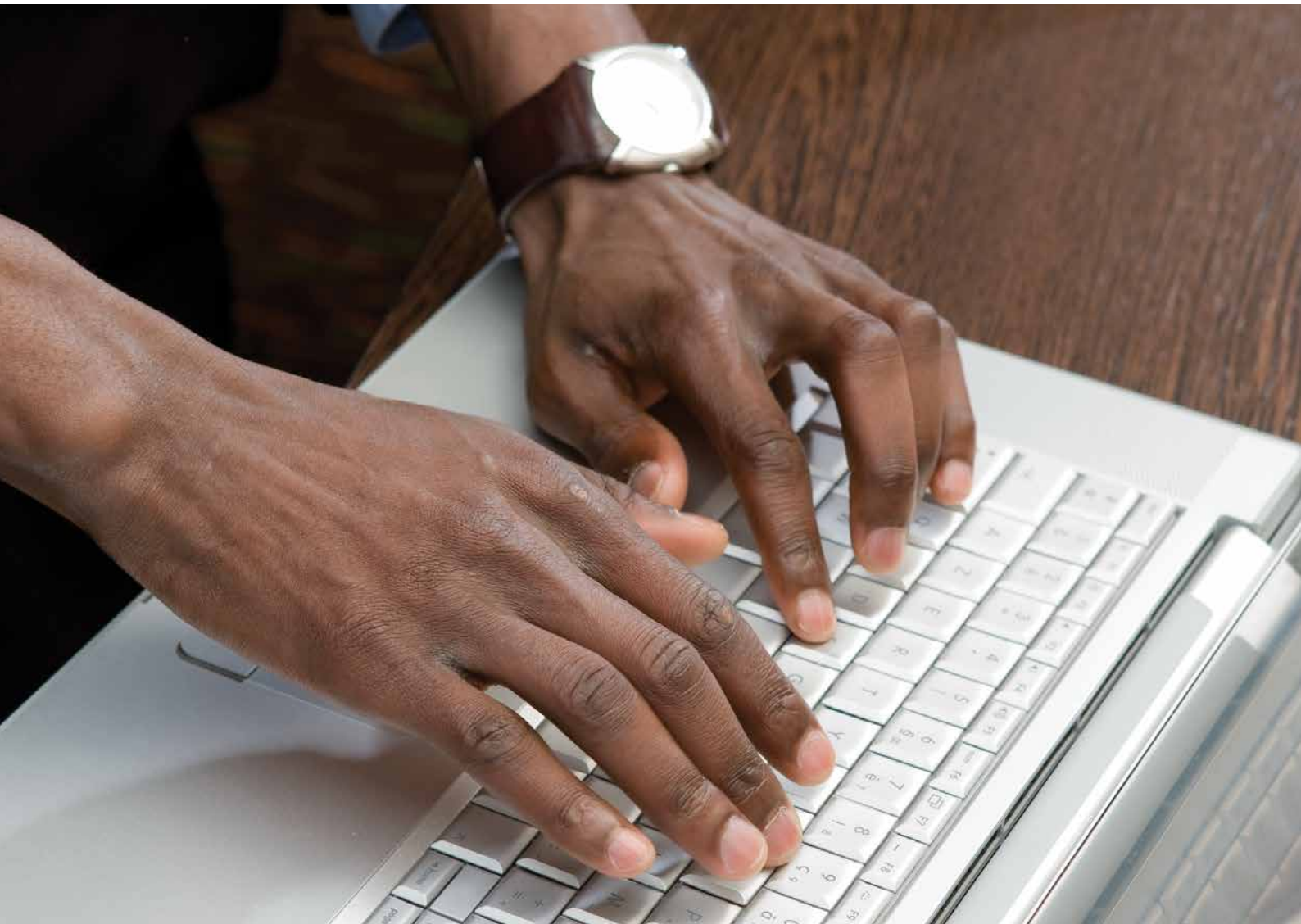
Simple solutions for unique requirements

Daikin's PCB adapters provide simple solutions to individual requirements. They are a low cost option which satisfy simple control requirements and can be used on single or multiple units.

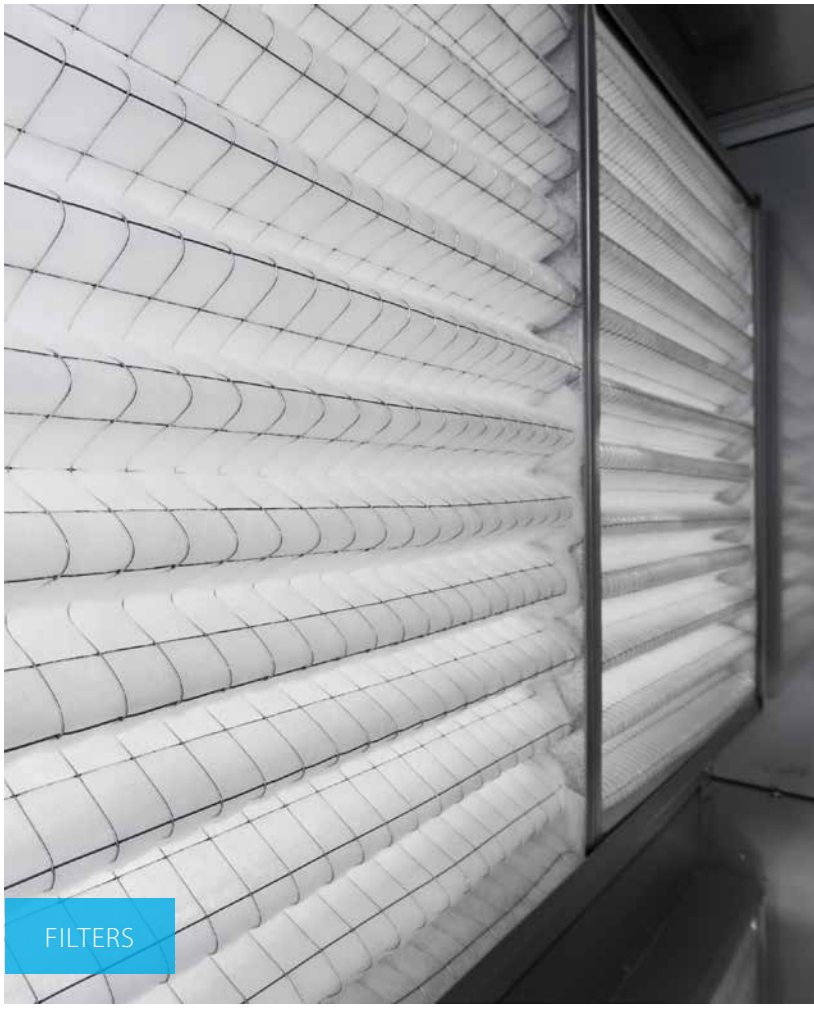
	**(E)KRP1B*** adapter for wiring	• Facilitates integration of auxiliary heating apparatus, humidifiers, fans and dampers • Powered by and installed at the indoor unit
	**KRP2A*/KRP4A*** Wiring adapter for electrical appendices	• Starts and stops up to 16 indoor units (1 group) (KRP2A* via P1 P2) remotely • Starts and stops up to 128 indoor units (64 groups) (KRP4A* via F1 F2) remotely • Alarm indication/ fire shut down • Remote temperature setpoint adjustment

Concept and benefits

› Low cost option to satisfy simple control requirements
› Used on single or multiple units



AUTO-CLEANING PANEL



FILTERS

INTELLIGENT SENSORS

Options & accessories

	INDOOR UNITS						
Description	**FCQHG-F**	**FCQG-F**	**FFQ-C**	**ACQ-D**	**FDXS-F(9)**	**FDBQ-B**	**FBQ-D**
Wired remote control	BRC1D52 BRC1E52A (3) BRC1E52B (4)	BRC1D52 BRC1E52A (3) BRC1E52B (4)	BRC1D528 BRC1E52A (3) BRC1E52B(4)(9)	ARCWB	BRC1D52 BRC1E52A BRC1E52B (4)	BRC1D52 BRC1E52A (3) BRC1E52B (4)	BRC1D52 BRC1E52A (3) BRC1E52B (4)
Intelligent touch manager	DCM601A5A	DCM601A5A	DCM601A5A	-	DCM601A5A	DCM601A5A	DCM601A5A
Infrared remote control (heat pump)	BRC7FA532F (5)	BRC7FA532F (5)	BRC7EB530W BRC7F530W BRC7F530S (8-9)	ADP125B (11)	BRC4C65	-	BRC4C65
Simplified remote control (with operation mode selector button)	-	-	BRC2E52C (12)	-	BRC2E52C (12)	BRC2E52C (12)	BRC2E52C (12)
Simplified remote control (without operation mode selector button)	-	-	BRC3E52C (12)	-	-	BRC3E52C (12)	-
Residential central remote control	-	-	-	-	-	-	-
Remote control for hotel use	BRC3A61	BRC3A61	-	-	BRC3A61	-	BRC3E52C
Centralised remote control	DCS302C51	DCS302C51	DCS302B51	-	-	-	DCS302C51
Unified ON/OFF control	DCS301B51	DCS301B51	DCS301B51	-	-	-	DCS301B51
Schedule timer	DST301B51	DST301B51	DST301B51	-	-	-	DST301B51
Adapter for wiring (interlock for fresh air intake fan)	-	-	-	-	-	-	KRP1BA59
Adapter for external ON/OFF and monitoring/for electrical appendices	KRP1B57 KRP4A53 (1)(5)	KRP1B57 KRP4A53 (1)(5)	KRP1B57 KRP4A53(6)	-	KRP4A54	-	KRP4A52 (1) KRP2A51 (1)
Interface adapter for Sky Air	-	-	-	-	-	-	DTA112B51
Installation box for adapter PCB	KRP1H98 (5)	KRP1H98 (5)	KRP1B101 KRP1BA101	-	KRP1BA101	-	KRP1B(A)101
Remote sensor	KRCS01-4	KRCS01-4	KRCS01-4	-	KRCS01-4	-	KRCS01-4B
Remote ON/OFF, forced OFF	EKRORO2	-	-	-	-	-	-
Electrical box with earth terminal (3 blocks)	KJB311A	KJB311A	-	-	KJB311A	-	-
Electrical box with earth terminal (2 blocks)	KJB212A	KJB212A	-	-	KJB212A	-	-
Electrical box with earth terminal	-	-	-	-	-	-	KJB411A
Adapter for wiring (hour meter)	EKRP1C11 (1)(5)	EKRP1C11 (1)(5)	EKRP1B2	-	-	EKRP1B2	-
Digital input adaptor	-	-	BRP7A51 (1) (13)	-	-	BRP7A54 (13)	BRP7A51
Options PCB for external electrical heater, humidifier and/or hour meter	-	-	-	-	-	-	EKRP1B2A (7)
Option PCB for group control (NIM03)	-	-	-	R04084124324	-	-	-
Mounting plate for adapter PCB	-	-	-	-	-	-	-

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) Installation box for adapter PCB (KRP1B101) is necessary; (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 decoration panel; (12) 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.; (13) Only possible in combination with simplified remote control BRC2/3E52C; (14) For residential use only. Cannot be used with other centralised control equipment (15) These options require mounting plate KRP4A96, maximally 2 optional PCBs can be mounted.(16) When installing electrica heaters, an optional PCB for external electric heaters EKRP1B2A is required for each indoor unit.

	INDOOR UNITS					
Description	**FCQHG-F**	**FCQG-F**	**FFQ-C**	**ACQ-D**	**FDBQ-B**	**FBQ-D**
Replacement long-life filter	KAFP551K160	KAFP551K160	KAFQ441BA60	-	-	-
Drain pump kit	Standard	Standard	Standard	Standard	-	Standard
L-type piping kit (upward direction)	-	-	-	-	-	-
Sealing member of air discharge outlet	KDBHQ55B140 (4)	KDBHQ55B140 (4)	BDBHQ44C60	-	-	-
Decoration panel for air discharge	-	-	-	-	-	-
Decoration panel	BYCQ140D BYCQ140DW(1) BYCQ140DG (2)(3)	BYCQ140D BYCQ140DW(1) BYCQ140DG (2)(3)	BYFQ60B3 BYFQ60C2W1W BYFQ60C2W1S (6)	ADP125A (10)	-	BYBS32D (35 class) BYBS45D (50 class) BYBS71D (60-71 class) BYBS125D (100-140 class)
Kit for mounting of decoration panel direct onto unit	-	-	-	-	-	EKBYBSD (9)
Fresh air intake kit (direct installation type)	KDDQ55B140-1 (4) KDDQ55B140-2 (6)	KDDQ55B140-1 (4) KDDQ55B140-2 (6)	KDDQ44XA60	-	-	-
Air discharge adapter for round duct	-	-	-	-	-	KDAJ25K56A (35-50 class) KDAJ25K71A (60-71 class) KDAJ25K140A (100-140 class)
Panel spacer	-	-	KDBQ44B60	-	-	-
Sensor kit	BRYQ140A (5)	BRYQ140A (5)	BRYQ60A2W BRYQ60A2S (7)	-	-	-
Noise filter	-	-	-	-	-	-

Notes: (1) 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

*Note: blue cells contain preliminary data

INDOOR UNITS								
FDQ-C	**FDQ-B**	**ABQ-C**	**FAQ-C**	**FHQ-C**	**AHQ-C**	**FUQ-C**	**FNQ-A**	**FVQ-C**
BRC1D52 BRC1E52A (3) BRC1E52B (4)	BRC1D52 BRC1E52A (3) BRC1E52B (4)	-	BRC1D52 BRC1E52A (3) BRC1E52B (4)	BRC1D52 BRC1E52A (3) BRC1E52B (4)	ARCWB	BRC1D52 BRC1E52A (3) BRC1E52B (4)	BRC1D52 BRC1E51A BRC1E52A BRC1E52B	BRC1D52 BRC1E52A (3) BRC1E52B (4)
DCM601A5A	DCM601A5A	-	DCM601A5A	DCM601A5A	-	DCM601A5A	DCM601A5A	DCM601A5A
BRC4C65	BRC4C65	-	BRC7EB518	BRC7G53	-	BRC7C58 (10)	BRC4C65	-
BRC2E52C (12)	BRC2E52C (12)	-	BRC2E52C (12)	-	-	-	BRC2E52C (12)	BRC2E52C
BRC3E52C (12)	BRC3E52C (12)	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	BRC3A61	-	-	-	BRC3E52C7 (3) (15)	BRC3A61
DCS302C51	DCS302C51	-	DCS302C51	DCS302C51	-	DCS302C51	DCS302C51	DCS302C51
DCS301B51	DCS301B51	-	DCS301B51	DCS301B51	-	DCS301B51	DCS301B51	DCS301B51
DST301B51	DST301B51	-	DST301B51	DST301B51	-	DST301B51	DST301B51	DST301B51
KRP1C64 (15)	KRP1B54	-	-	-	-	-	-	-
KRP4A51 (15)	KRP4A51 (15)	-	KRP4A51 (1)	KRP1B54 KRP4A52(1)	-	KRP4A53 (1)	KRP4A54	KRP1B57 KRP4A52
-	DTA112B51	-	-	-	-	-	-	-
-	-	-	KRP4A93	KRP1D93A	-	KRP1B97	KRP1BA101	KRP4AA95
KRCS01-4B	KRSC01-4B	-	KRCS01-1	KRCS01-4B	-	KRCS01-4	KRCS01-4B	-
EKRORO3	EKRORO	-	-	EKRORO4	-	EKRORO5	-	-
-	-	-	KJB311A	KJB311A	-	KJB311A	KJB311AA	-
-	-	-	KJB212A	KJB212A	-	KJB212A	KJB212AA	-
-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-
BRP7A54 (13)(15)	BRP7A54 (13)(15)	-	-	-	-	-	BRP7A51 (1) (13)	
EKRP1B2A (7)(15)(16)	EKRP1B2A (7)(15)(16)	-	-	-	-	-	-	-
-	-	R04084124324	-	-	R04084124324	-	-	-
KRP4A96	KRP4A96	-	-	-	-	-	-	-

INDOOR UNITS								
FDQ-C	**FDQ-B**	**ABQ-C**	**FAQ-C**	**FHQ-C**	**AHQ-C**	**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	-	-
BYBS125D(9)	BYBS125D(9)	-	-	-	-	-	-	-
EKBYBSD	EKBYBSD	-	-	-	-	-	-	-
-	-	-	-	KDDQ50A140	-	-	-	-
KDAJ25K140A	KDAJ25K140A	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	KEK26-1A	-	-	-	KEK26-1A	-

*Note: blue cells contain preliminary data

Description		RXS-L(3)	OUTDOOR UNITS			
			RZQG-L9V1/L(8)Y1	RZQSG-L3/9V1/L(8)Y1	RZQ-C	AZQS-B8V1/BY1
Central drain plug		-	-	-	KWC26B280	-
Refrigerant branch piping	For twin	-	KHRQ22M20TA (KHRQ58T) [2]	KHRQ22M20TA (KHRQ58T) [2]	KHRQ22M20TA	-
	For triple	-	KHRQ127H (KHRQ58T) [2]	KHRQ127H (KHRQ58T)[2]	KHRQ250H7	-
	For double twin	-	KHRQ22M20TA (3x) (KHRQ58T)[2]	KHRQ22M20TA (3x) (KHRQ58T)[2]	KHRQ22M20TA (x3)	-
Demand adapter kit		-	SB.KRP58M51	KRP58M51 (71 class) KRP58M51MK (Y1), SB.KRP58M51 (V1)	KRP58M51	KRP58M51 (71 class) KRP58M51MK (Y1), SB.KRP58M51 (V1)
Bottom plate heater		-	EKBPH140L7 1	-	-	-

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;

(3) For RZQG71

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

		VAM150FA	VAM250FA	VAM350FB	VAM500FB	VAM650FB	VAM800FB	VAM1000FB	VAM1500FB	VAM2000FB
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-FA/FB	EKEQFCB [2]	EKEQDCB [2]
Wired remote control	BRC1E52A/B / BRC1D52	BRC1E52A/B / BRC1D52	BRC1E52A/B / BRC1D52 [1]
VAM wired remote control	BRC301B61	-	-

Centralised control systems	VAM-FA/FB	EKEQFCB [2]	EKEQDCB [2]
Centralised remote control	DCS302C51	-	-
Unified ON/OFF control	DCS301B51	-	-
Schedule timer	DST301B51	-	-

Others	VAM150-250FA	VAM350-2000FB	EKEQFCB [2]	EKEQDCB [2]
Wiring adapter for electrical appendices (note 6)	KRP2A51	KRP2A51 (note 3)	-	-
Adapter PCB for humidifier	KRP50-2	BRP4A50A (note 4/5)	-	-
Adapter PCB for 3rd party heater	BRP4A50	BRP4A50A (note 4/5)	-	-
Remote sensor	-	-		KRCS01-1

Notes

(1) Cool/heat selector required for operation

(2) Do not connect the system to DIII-net devices (Intelligent controller, Intelligent Manager, LonWorks interface, BACnet interface…).

(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) 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		VAM150FA	VAM250FA	VAM500FB	VAM800FB	VAM800FB	VAM1500FB
		-	VAM350FB	VAM650FB	VAM1000FB	VAM1000FB	VAM2000FB

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 non pre-charged equipment: its functioning relies on fluorinated greenhouse gases
› For fully/partially charged equipment: contains 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

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.

Commercial market - literature overview

for professional network

Solution guides:

Hotel Solutions
Clear installer benefits why to choose Daikin for a hotel

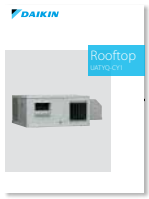
15-217

Reference books:

Product profiles:

VRV IV range
Detailed VRV IV standards and technologies benefits. Main features and specs of VRV IV product range

15-206



Rooftop UATYQ-CY1
Detailed rooftop benefits incl. UAYTQ-CY1, ECONO-AY1

15-120

Focus topics:

Replacement Technology
Clear installer benefits of VRV replacement technology

15-214

Technical cooling
Clear installer benefits why to choose Daikin for technical cooling

15-140

Product flyers:

Wired Remote Control
Detailed info on BRC1E52A/B remote control

15-306

KNX Interface
Detailed info on KLIC-DI and KLIC-DD interfaces

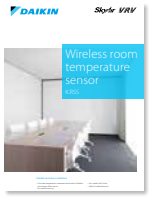
15-310

DIII-net modbus gateway
Detailed info on EKMBDXA modbus interface

15-312

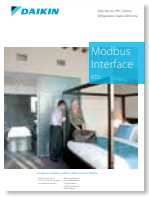
VAM electrical heater
Detailed info on electrical heater for VAM

15-311



Wireless temperature sensor
Detailed info on wireless sensor K.RSS

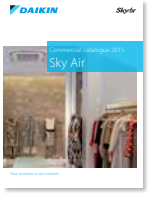
15-309



RTD modbus interface
Detailed info on RTD controls and applications

15-308

Product catalogues:



Sky Air Catalogue
Detailed technical information & benefits on Sky Air/Ventilation/ Biddle Air Curtain/Control systems/AHU

15-114

VRV Catalogue
Detailed technical information & benefits of the VRV total solution

15-200

Ventilation Catalogue
Detailed info on Ventilation products

15-203

Product portfolios:

Sky Air product portfolio
Overview of Sky air product range

15-121

VRV product portfolio
Overview of VRV total solution product range

15-201

Controls systems portfolio
Overview of all Daikin control systems

15-301

for your customers

DAIKIN
First half 2015

Commercial Solutions
Daikin offers solutions for commercial applications

15-100

Reference catalogue
Daikin commercial and industrial references

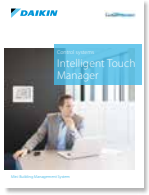
14-213

Green Buiding Solutions
Clear building owner/investor benefits why to choose Daikin for a green building, with emphasis on BREEAM

15-216

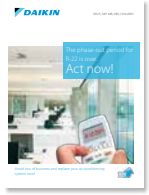
Hotel Solutions
Clear building owner/investor benefits why to choose Daikin for a hotel

15-218



Intelligent Touch Manager
Detailed benefits of Intelligent Touch Manager

15-302



Replacement technology
Clear building owner/investor benefits of replacement technology

15-215

Sky Air product leaflets
Single page leaflet with the main benefits and technical specifications of each individual Sky Air unit. Ideal for quotations

VRV product leaflets
Single page leaflet with the main benefits and technical specifications of each individual VRV unit. Ideal for quotations

DAIKIN
First half 2015

Cassette mini catalogue
Giving overview of our cassette unit product solutions
(incl. Round flow cassette FCQ(H)G-F/FXFQ-A, Fully flat cassette FFQ-C/FXZQ-A, FUQ-C/FXUQ-A, ACQ-C)

15-110

DAIKIN
First half 2015

Concealed ceiling unit mini catalogue
Catalogue giving overview of our concealed ceiling unit product solutions
(incl. FDXS-F(9), FBQ-D, FDQ-C, FDQ-B, FXDQ-M9, FXDQ-A, FXSQ-A, FXMQ-P7, FXMQ-MA)

15-106

DAIKIN
First half 2015

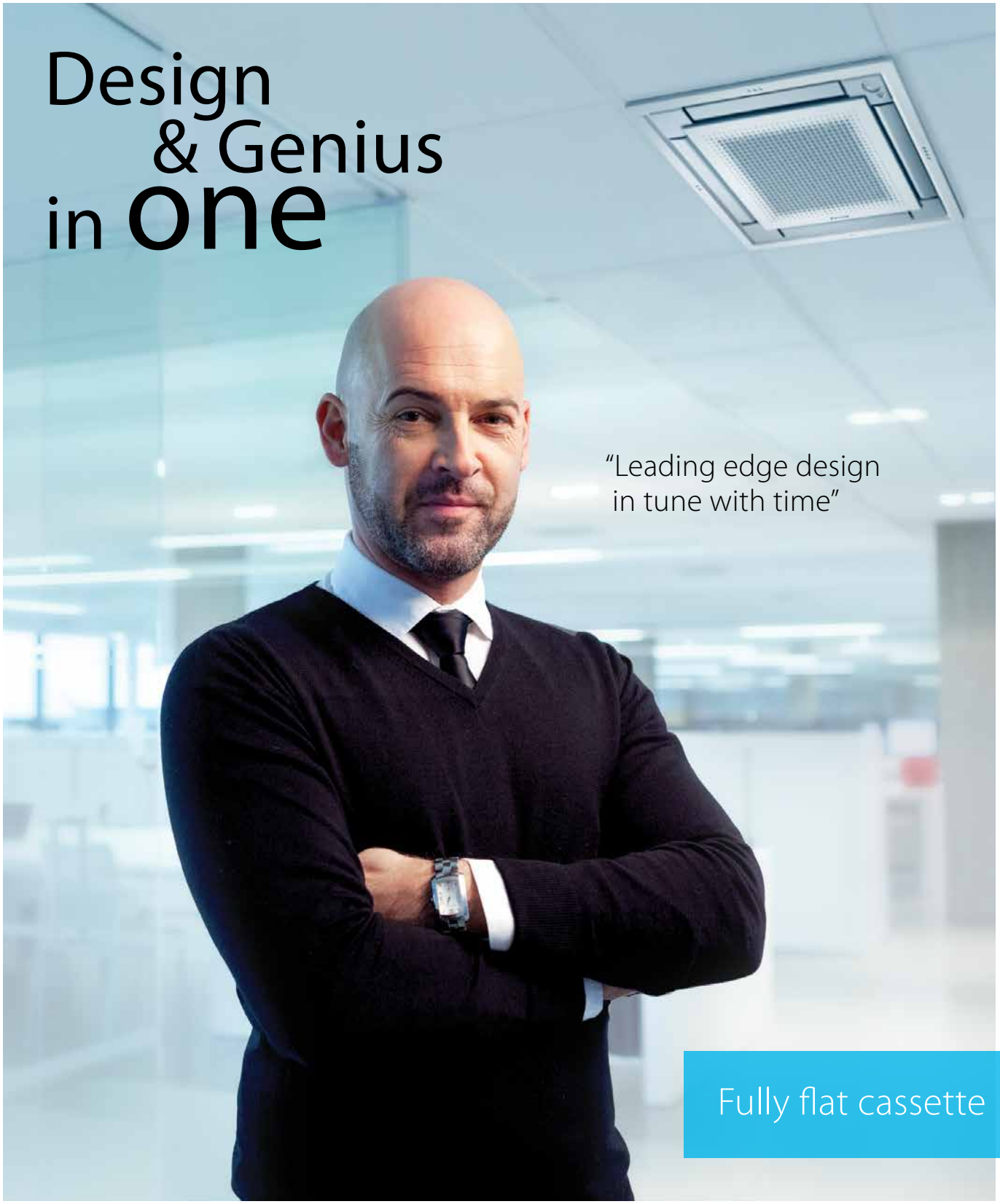
Ceiling suspended, wall mounted, floor standing units mini catalogue
Catalogue giving overview of our Ceiling suspended, wall mounted and floor standing product solutions.
(incl. FXHQ-A,FHQ-C, FXAQ-A, FAQ-C, FXNQ-A, FNQ-A, FXLQ-P, FVQ-C)

15-101

Technical documentation:

Download all technical documentation such as engineering databooks, selection software, installation and operation manuals and service manuals directly from our extranet: extranet.daikineurope.com

Design & Genius in one



Fully flat cassette

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