



FCAHG-G/FCAG-A Auto cleaning cassette

Why choose a round flow cassette?

- 360° air discharge for optimum comfort
- Intelligent sensors for maximum efficiency



More energy efficient and user-friendly than any other cassette

- › Running costs are reduced by 50% compared with standard solutions
- › Automatic filter cleaning.
- › Less time is required to maintain the filter: dust can be removed easily with a vacuum cleaner without opening the unit.

Finer mesh panel

- › For dust prone areas (i.e. clothing and book shops) a finer mesh panel (BYCQ140DGF9) ensures consistent performance and optimum air distribution
- › Clean ceilings ensured thanks to fine mesh and clean filter

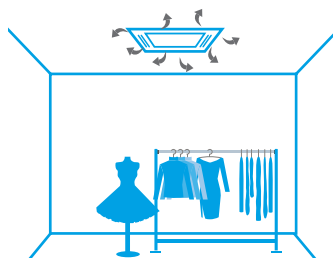


BYCQ140DG9	BYCQ140DGF9
Auto-cleaning panel	Auto-cleaning panel with fine mesh filter
White with grey louvers	White with grey louvers

Auto-cleaning cassette for maintaining the optimum store atmosphere

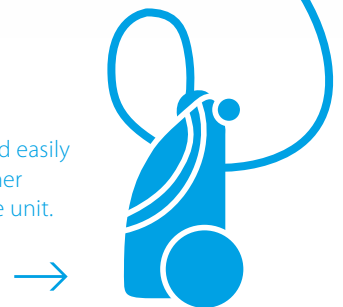


Air distribution with a clean filter



Air distribution with a dusty filter

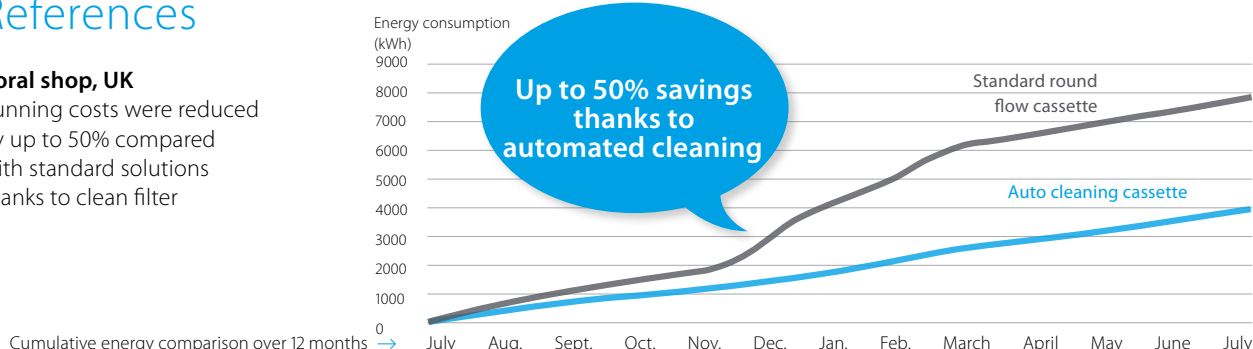
Dust can be removed easily with a vacuum cleaner without opening the unit.



References

Coral shop, UK

Running costs were reduced by up to 50% compared with standard solutions thanks to clean filter

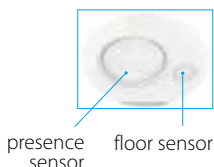


360° air discharge for improved comfort

- > Industry-first and proven design.

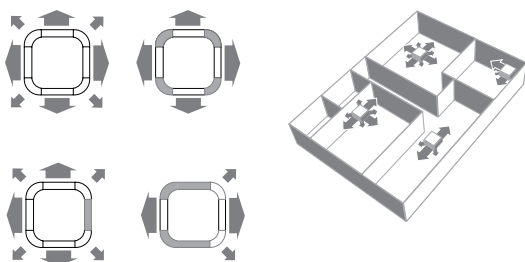
Intelligent sensors improve efficiency and comfort even more

- > The presence sensor adjusts the set point if no one is detected in the room leading to up to 27% savings. It also automatically directs air flow away from any person to avoid draught.
- > The infrared floor sensor detects the average floor temperature and ensures even temperature distribution between ceiling and floor to prevent cold feet.



Flexible installation

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



Benefits for the installer

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

Benefits for the consultant

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

Benefits for the end user

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

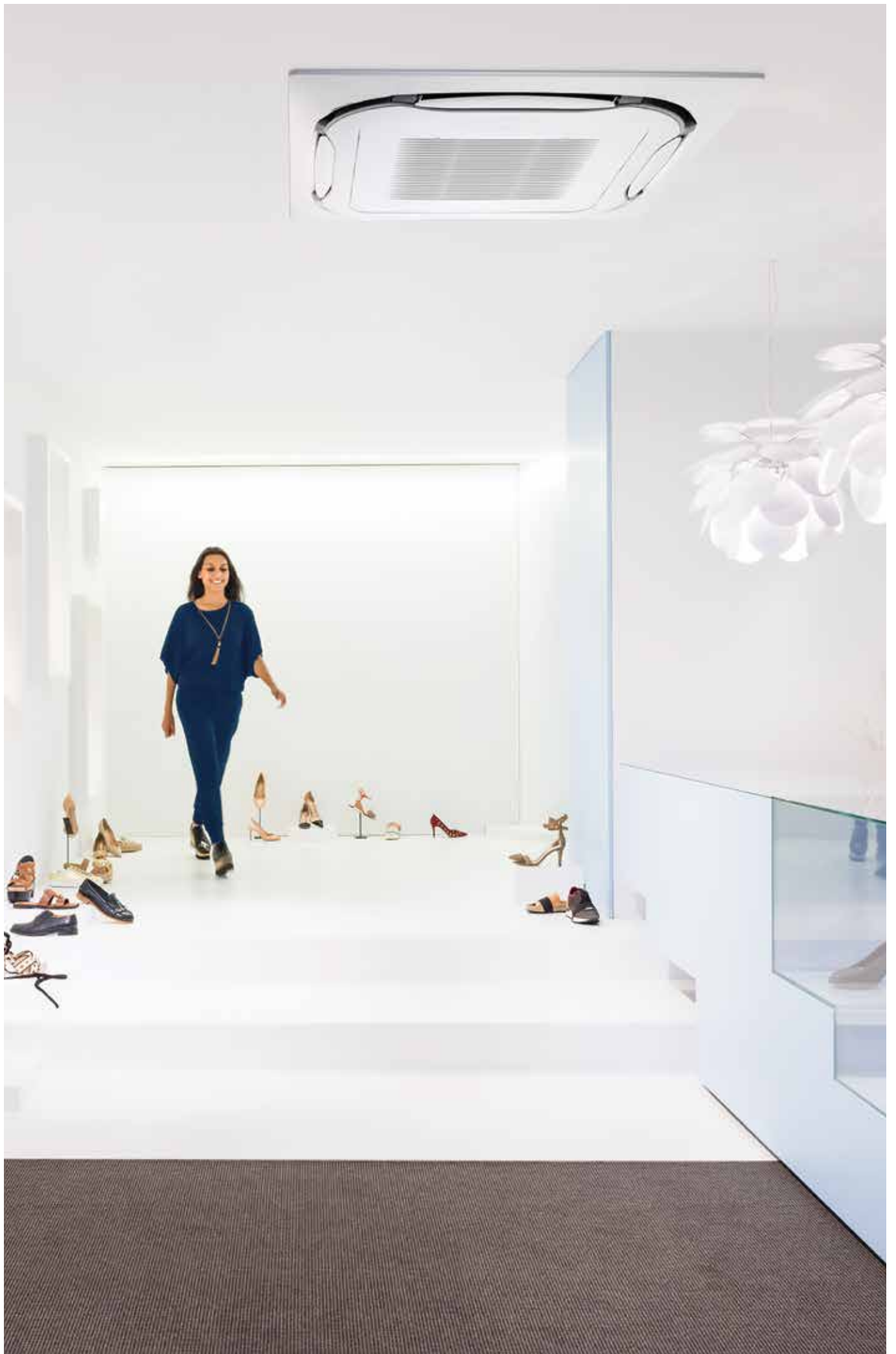
Marketing tools

- > Visit the website: https://www.daikin.eu/en_us/product-group/round-flow-cassette.html



www.youtube.com/DaikinEurope







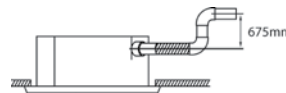
High COP, round flow cassette

360° air discharge for optimum efficiency and comfort

- High COP cassette ensures top performance, great savings in energy consumption and a comfortable environment for commercial applications
- Unified indoor unit range for R-32 and R-410A
- Combining with R-32 Bluevolution technology, reduces environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has up to lower 16% refrigerant charge
- Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine dust applications e.g. clothing shops)
- Two optional intelligent sensors improve energy efficiency and comfort.
- 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
- 5 different fan speeds available for maximum comfort
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms



Standard drain pump with 675mm lift increases flexibility and installation speed



Efficiency data		FCAHG + RZAG		71G+71MV1	100G+100MV1	125G+125MV1	140G+140MV1	71G+71MY1	100G+100MY1	125G+125MY1	140G+140MY1
Cooling capacity	Nom.	kW		6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4
Heating capacity	Nom.	kW		7.50	10.8	13.5	15.5	7.50	10.8	13.5	15.5
Seasonal efficiency (according to EN14825)	Cooling	Energy efficiency class		A++				A++			
		Pdesign	kW	6.80	9.50	12.1	13.4	6.80	9.50	12.1	13.4
	SEER		7.72	7.35	8.02	7.93	7.72	7.35	8.02	7.93	
	Annual energy consumption	kWh	308	452	905	1,014	308	452	905	1,014	
	Heating (Average climate)	Energy efficiency class		A++				A++			
Pdesign		kW	4.70		9.52		4.70		9.52		
SCOP/A			4.61	4.81	4.53	4.44	4.61	4.81	4.53	4.44	
Annual energy consumption	kWh	1,427	2,771	2,942	3,002	1,427	2,771	2,942	3,002		

Indoor unit			FCAHG		71G	100G	125G	140G	71G	100G	125G	140G
Dimensions	Unit	HeightxWidthxDepth	mm									
Weight	Unit		kg									
Air filter	Type		Resin net									
Decoration panel	Model		BYCQ140DGF9 - auto cleaning panel with fine mesh filter / BYCQ140DG9 - auto cleaning panel / BYCQ140DW - full white / BYCQ140D - white with grey louvers									
	Colour		Pure White (RAL 9010)									
	Dimensions	HeightxWidthxDepth	mm									
Weight	Unit		kg									
Fan	Air flow rate	Cooling	Low/Medium/High	m³/min	12.2/16.7/21.2	19.0/25.7/32.3	19.9/26.7/33.5	21.1/27.3/33.5	12.2/16.7/21.2	19.0/25.7/32.3	19.9/26.7/33.5	21.1/27.3/33.5
		Heating	Low/Medium/High	m³/min	12.2/16.7/21.2	19.0/25.7/32.3	19.9/26.7/33.5	21.1/27.3/33.5	12.2/16.7/21.2	19.0/25.7/32.3	19.9/26.7/33.5	21.1/27.3/33.5
Sound power level	Cooling		dB(A)	53		61		53		61		
	Heating		dB(A)	53		61		53		61		
Sound pressure level	Cooling	Low/High	dB(A)	29/36	33/44	35/45	37/45	29/36	33/44	35/45	37/45	
	Heating	Low/High	dB(A)	29/36	33/44	35/45	37/45	29/36	33/44	35/45	37/45	
Control systems	Infrared remote control		BRC7FA532F									
	Wired remote control		BRC1H51 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52									
Power supply	Phase/Frequency/Voltage		Hz/V									

Outdoor unit			RZAG		71MV1	100MV1	125MV1	140MV1	71MY1	100MY1	125MY1	140MY1
Dimensions	Unit	HeightxWidthxDepth	mm									
Weight	Unit		kg									
Sound power level	Cooling		dB(A)	64	66	69	70	65	66	69	70	
	Heating		dB(A)	49	51	52		49	51	52		
Operation range	Cooling	Ambient	Min.~Max.	°CDB								
	Heating	Ambient	Min.~Max.	°CWB								
Refrigerant	Type/GWP		R-32/675									
	Charge	kg/CO2Eq	2.95/1.99		3.75/2.53		2.95/1.99		3.75/2.53			
Piping connections	Liquid/Gas		mm									
	Piping length	OU - IU	Max.	55		85		55		85		
	System	Equivalent	Chargeless	75		100		75		100		
	Additional refrigerant charge	kg/m	See installation manual									
	Level difference	IU - OU	Max.	m								
Power supply	Phase/Frequency/Voltage		Hz/V									
Current - 50Hz	Maximum fuse amps (MFA)	A	20		32						16	

(1) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.
 (2) EER/COP according to Eurovent 2012, for use outside EU only
 (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) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.



High COP, round flow cassette

360° air discharge for optimum efficiency and comfort

- › Combination with Seasonal Smart ensures best in class quality, highest efficiency and performance
- › High COP cassette ensures top performance, great savings in energy consumption and a comfortable environment for commercial applications
- › Unified indoor unit range for R-32 and R-410A
- › Automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine dust applications e.g. clothing shops)
- › Two optional intelligent sensors improve energy efficiency and comfort.
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!
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- › 5 different fan speeds available for maximum comfort
- › Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- › Optional fresh air intake



- › Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- › Standard drain pump with 675mm lift increases flexibility and installation speed

Efficiency data		FCAHG + RZQG	71G + 71L9V1	100G + 100L9V1	125G + 125L9V1	140G + 140L9V1	71G + 71L8Y1	100G + 100L8Y1	125G + 125L8Y1	140G + 140LY1	
Cooling capacity	Nom.	kW	6.80	9.50	12.0	13.4	6.80	9.50	12.0	13.4	
Heating capacity	Nom.	kW	7.50	10.8	13.5	15.5	7.50	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 efficiency class	A++			-	A++			-	
		Pdesign	kW	6.80	9.50	12.0	-	6.80	9.50	12.0	-
		SEER		6.91	7.00	6.61	-	6.91	7.00	6.61	-
	Heating (Average climate)	Annual energy consumption	kWh	345	475	636	-	345	475	636	-
		Energy efficiency class		A+	A++		-	A+	A++		-
		Pdesign	kW	7.60	11.30	12.66	-	7.60	11.30	12.66	-
Nominal efficiency	SCOP/A		4.54	4.80	4.63	-	4.54	4.80	4.63	-	
	Annual energy consumption	kWh	2,344	3,296	3,829	-	2,344	3,296	3,829	-	
	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	-	830	1,075	1,500	-	
Energy labeling Directive		Cooling/Heating	A/A		-/-		A/A		-/-		

Indoor unit			FCAHG	71G	100G	125G	140G	71G	100G	125G	140G	
Dimensions	Unit	HeightxWidthxD	mm	288x840x840								
Weight	Unit		kg	25								
Air filter	Type			Resin net								
Decoration panel	Model	BYCQ140DGF9 - auto cleaning panel with fine mesh filter / BYCQ140DG9 - auto cleaning panel / BYCQ140DW - full white / BYCQ140D - white with grey louvers										
		Colour	Pure White (RAL 9010)									
Dimensions	Unit	HeightxWidthxD	mm	130x950x950 / 130x950x950 / 50x950x950 / 50x950x950								
Weight	Unit		kg	10.3 / 10.3 / 5.4 / 5.4								
Fan	Air flow rate	Cooling	Low/Medium/High	m³/min	12.2/16.7/21.2	19.0/25.7/32.3	19.9/26.7/33.5	21.1/27.3/33.5	12.2/16.7/21.2	19.0/25.7/32.3	19.9/26.7/33.5	21.1/27.3/33.5
		Heating	Low/Medium/High	m³/min	12.2/16.7/21.2	19.0/25.7/32.3	19.9/26.7/33.5	21.1/27.3/33.5	12.2/16.7/21.2	19.0/25.7/32.3	19.9/26.7/33.5	21.1/27.3/33.5
Sound power level	Cooling		dBA	53		61		53		61		
	Heating		dBA	53		61		53		61		
Sound pressure level	Cooling	Low/High	dBA	29/36	33/44	35/45	37/45	29/36	33/44	35/45	37/45	
	Heating	Low/High	dBA	29/36	33/44	35/45	37/45	29/36	33/44	35/45	37/45	
Control systems	Infrared remote control			BRC7FA532F								
	Wired remote control			BRC1H51 / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52								
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220								

Outdoor unit			RZQG	71L9V1	100L9V1	125L9V1	140L9V1	71L8Y1	100L8Y1	125L8Y1	140LY1
Dimensions	Unit	HeightxWidthxD	mm	990x940x320	1,430x940x320			990x940x320	1,430x940x320		
Weight	Unit		kg	69	95			80	101		
Sound power level	Cooling		dBA	64	66	67	69	64	66	67	69
	Heating	Nom.	dBA	48	50	51	52	48	50	51	52
Sound pressure level	Cooling	Nom.	dBA	50	52	53		50	52	53	
	Heating	Nom.	dBA	50	52	53		50	52	53	
Operation range	Cooling	Ambient	Min.~Max.	-15~50							
	Heating	Ambient	Min.~Max.	-20~-15.5							
Refrigerant	Type/GWP			R-410A/2,087.5							
	Charge		kg/CO2Eq	2.9/6.1	4.0/8.4			2.9/6.1	4.0/8.4		
Piping connections	Liquid/Gas		mm	9.52/15.9							
	Piping length	OU - IU	Max.	50	75			50	75		
	System	Equivalent	m	70	90			70	90		
	Chargeless		m	30							
	Additional refrigerant charge		kg/m	See installation manual							
Power supply	Level difference	IU - OU	Max.	30.0							
	Phase/Frequency/Voltage		Hz/V	1~/50/220-240				3N~/50/380-415			
Current - 50Hz	Maximum fuse amps (MFA)		A	25	40			16	25		

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. | BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel. | MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). For more detailed information on each combination, please refer to the electrical data drawing.