



Perfecting the Air

PCTPMT2301HKA



- Warning** • Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

- Notice** • About harmonics, since this product is equipped with an inverter, harmonics will be generated. If local laws require the suppression of harmonics on the building, please take harmonic suppression measures on the electrical equipment side. Please contact your local sales company for details.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

INVERTER AIR COOLED PACKAGED AIR CONDITIONERS

FLOOR STANDING TYPE DUCT TYPE



R-410A

COOLING ONLY 50Hz

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DIRECT AIR BLOW

FLOOR STANDING TYPE



DUCT CONNECTION



DUCT TYPE





OUTDOOR UNIT



Inverter Packaged Air Conditioner Line Up for Factories and Offices

Product Line Up **R-410A**

RZUR-Q Series Cooling only 50 Hz

Capacity	kW	23.5	29.3
	Btu/h	80,000	100,000
	HP	8	10
FLOOR STANDING TYPE (DIRECT AIR BLOW) <small>Specifications Page 5</small>		FVGR200QV1	FVGR250QV1
		RZUR200QY1	RZUR250QY1
OUTDOOR UNIT			

Enhanced lineup

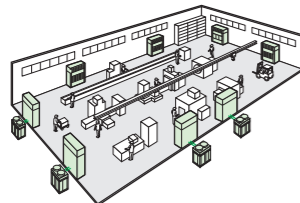
Wider capacity range with 2 new lineups of 12 and 20 HP.

Capacity	kW	23.5	29.3	35.2	46.9	52.8	58.6
	Btu/h	80,000	100,000	120,000	160,000	180,000	200,000
	HP	8	10	12	16	18	20
FLOOR STANDING TYPE (DUCT CONNECTION) <small>Specifications Page 5</small>		FVPR250QY1	FVPR300QY1	FVPR400QY1	FVPR450QY1	FVPR500QY1	
		FDR200QY1	FDR250QY1	FDR300QY1	FDR400QY1	FDR450QY1	FDR500QY1
DUCT TYPE <small>Specifications Page 6</small>							
OUTDOOR UNIT							

DIRECT AIR BLOW

Direct air blow from indoor unit with plenum

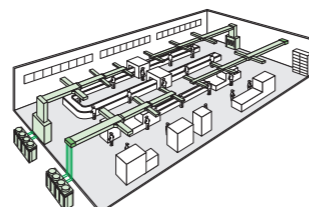
- Comfortable factory air conditioning using multiple indoor units installed in accordance with the space.
- Installation is next to walls, so units will not affect the factory layout even if the changes are made.



DUCT CONNECTION / DUCT TYPE

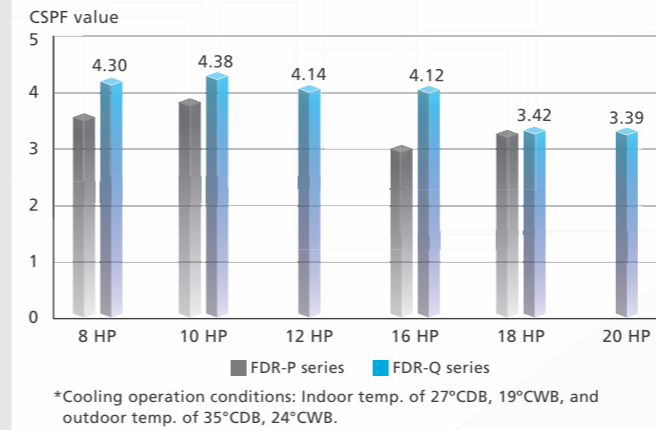
Air blow via connected ducts

- Comfortable air conditioning of the entire factory by connecting a blow duct at the top of the indoor unit.
- Note: Ducts to be procured locally.



Energy saving

CSPF improvement



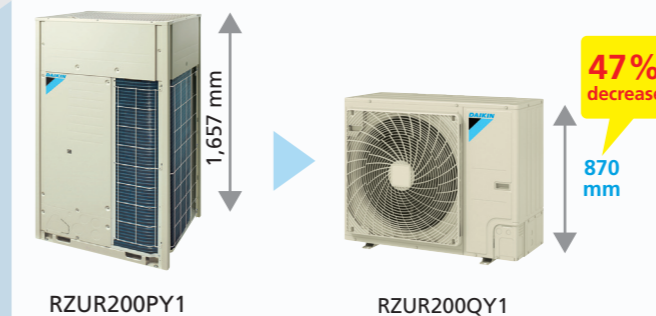
FDR-Q series provides greater energy saving due to higher CSPF* as compared to FDR-P series.

*CSPF: cooling seasonal performance factor

33.8%
increase
(for 16 HP)

Design flexibility

Compact & lightweight design

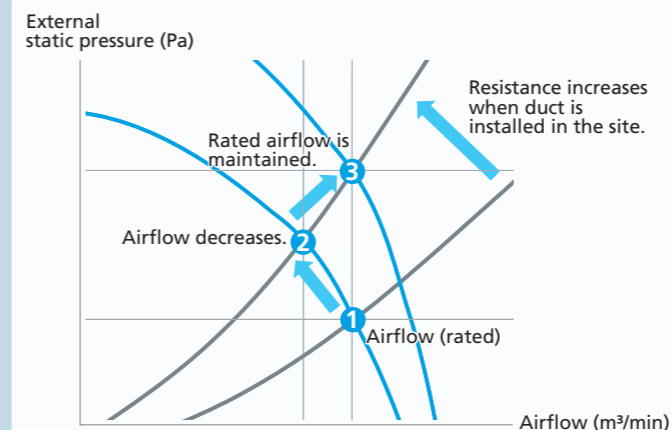


- Ideal solution that minimises both visual and sound impact
- Can be installed in a wide variety of locations and applications

The new design has been optimised for the RZUR200QY1 with the height reduced to only 870 mm.

This low height casing design provides occupants with a clear, unobstructed view of the scenery.

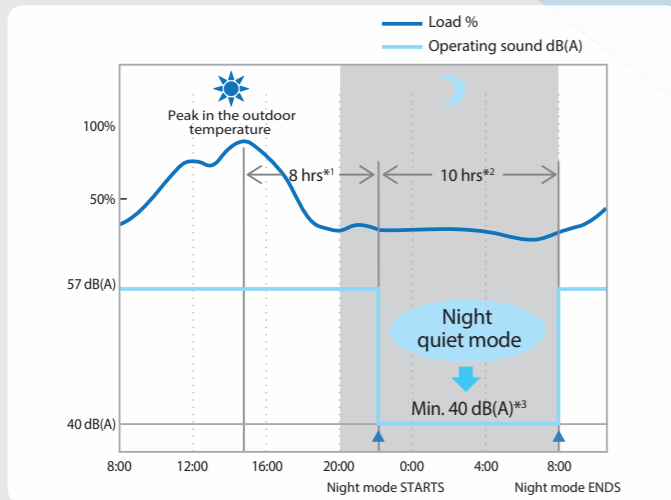
Automatic adjustment of external static pressure



The RZUR200QY1 model has the external static pressure automatic adjustment function for maintaining the rated airflow and capacity by automatically adjusting the external static pressure during the test operation to suit the resistance of the installation site.

Comfort

Nighttime quiet operation function



The nighttime quiet operation function automatically suppresses the nighttime operating sound by reducing operation capacity to maintain the quiet environment of the neighborhood. Three selectable modes are available depending on the required level.

- *1. Initial setting is 8 hours. Can be selected from 6, 8 and 10 hours.
- *2. Initial setting is 9 hours. Can be selected from 8, 9 and 10 hours.
- *3. In case of RZUR250QY1

Notes: • This function is available in setting at site.
• The operating sound in quiet operation mode is the actual value measured by our company.
• The relationship of outdoor temperature (load) and time shown above is just an example.

Reliability

Backup operation function

Compressor backup operation function

Emergency operation

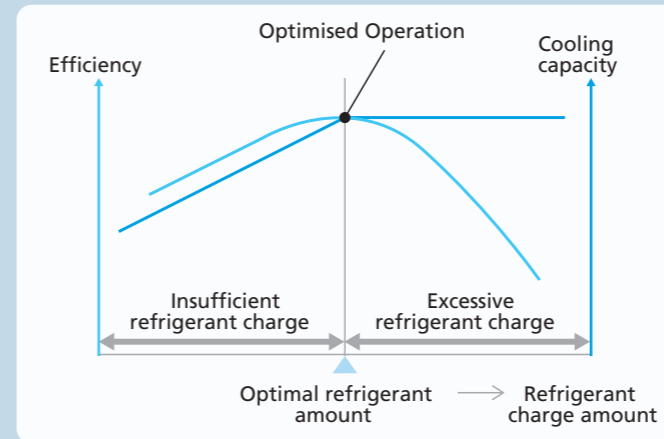
Malfunction

* For RZUR300-500QY1 models. On-site settings are required using the PCB of the outdoor unit.

Automatic refrigerant charge function

Contribute to optimised operation efficiency, higher quality and easier installation.

Optimised operation efficiency



This function prevents a capacity shortage or energy loss due to excessive or insufficient refrigerant.

Higher quality and easier installation

- 1 Calculation of necessary refrigerant amount from design drawing
- 2 Start of automatic refrigerant charge operation

Automatic Refrigerant Charge

• Automatic completion by proper refrigerant amount
• Monitoring refrigerant charging is unnecessary
• No recalculation of charge amounts due to minor design changes locally

The automatic refrigerant charge function automates the charging of the proper refrigerant amount and easy start by pressing one button.

* There are conditions in the range of ambient temperature in which the automatic refrigerant charge can be used. Refer to the installation manual for details.
* The refrigerant amount that can be automatically charged may differ from the additional refrigerant amount that is provided from calculations, but there are no problems in performance and quality.

Centralized management system extension

High efficiency integrated control

Intelligent Touch Manager

Lighting and ventilation control, energy use can be monitored and managed by one controller.

10.4 inch width touch screen

Centralized management can integrate with D-BACS system with high speed data transfer.

Centralized control is now available when using with Inverter packaged air conditioners.

Display of air filter cleaning times and self-inspection function for simple maintenance.

Enhanced varieties of factory modification

Factory Modification	Floor Standing Type		Duct Type
	Direct Air Blow	Duct Connection	
Auto restart*	○	○	○
Change fan motor and pulley	-	□	□
Discharge grill plenum chamber	○	□	□
Side discharge grill on discharge plenum chamber	□	□	-
Front suction high efficiency filter chamber	-	□	-
Front suction base flange for front suction high efficiency filter chamber	-	□	-
Suction grill for front suction high efficiency filter chamber	-	□	-
Rear suction	-	□	-
Drain pump	□	□	-
All new fresh air (Discharge temperature control)	-	□	□

○ Standard model
□ Factory modification

Note: Auto restart function can be turned ON/OFF by field setting.

Auto restart

Automatically turn on the operation unit after facing unexpected shut down.

Specifications

FLOOR STANDING TYPE

DIRECT AIR BLOW

Model Name	Indoor unit		FVGR200QV1		FVGR250QV1	
	Outdoor unit		RZUR200QY1		RZUR250QY1	
Cooling capacity ^{1,3} (Max.)	Btu/h		80,000 (81,000)		100,000 (101,000)	
	kW		23.50 (23.74)		29.30 (29.60)	
Cooling capacity ^{2,3} (Max.)	Btu/h		79,000 (80,000)		99,000 (100,000)	
	kW		23.20 (23.50)		28.90 (29.30)	
Power consumption ^{1,3}	kW		8.94		11.40	
Power consumption ^{2,3}	kW		8.89		11.33	
CSPF ²			4.12		3.96	
Indoor unit	Power supply		1 Phase, 220-240 V, 50 Hz			
	Colour		Ivory White			
	Airflow rate (H/M/L)	m ³ /min		75/66/52		
		cfm		2,650/2,330/1,840		
	Fan	Motor output		0.245x2		
		Drive		Direct Drive		
	Dimensions (HxWxD)		mm	1,870x1,170x510		
	Machine weight		kg	155		
	Sound level (H/M/L)		dB(A)	60.5/57.5/53		
	Drain		mm	PS 1B Internal thread		
Outdoor unit	Power supply		3 Phase, 380-415 V, 50 Hz			
	Colour		Ivory white			
	Compressor	Type		Hermetically sealed swing type		Hermetically sealed scroll type
		Motor output	kW	3.2x1	4.5x1	
	Airflow rate (H)	m ³ /min	126	178		
	Dimensions (HxWxD)		mm	870x1,100x460	1,657x930x765	
	Machine weight		kg	113	185	
	Sound level ⁴		dB(A)	61	57	
	Operation range		°CDB	10 to 49		
	Refrigerant charge		kg	3.8	6.7	
Refrigerant Piping	Liquid	mm	Ø 9.5 (Brazing)			
	Gas	mm	Ø 19.1 (Brazing)	Ø 22.2 (Brazing)		
Max. piping length		m	70 (equivalent length 90 m)			
Max. level difference		m	50 ⁶	50		

DUCT TYPE

Model Name	Indoor unit		FDR200QY1	FDR250QY1	FDR300QY1	FDR400QY1	FDR450QY1	FDR500QY1	
	Outdoor unit		RZUR200QY1	RZUR250QY1	RZUR300QY1	RZUR400QY1	RZUR450QY1	RZUR500QY1	
Cooling capacity ^{1,3} (Max.)	Btu/h		80,000 (81,000)	100,000 (101,000)	120,000 (122,000)	160,000 (162,000)	180,000 (183,000)	200,000 (203,000)	
	kW		23.50 (23.74)	29.30 (29.60)	35.20 (35.76)	46.90 (47.48)	52.80 (53.63)	58.60 (59.50)	
Cooling capacity ^{2,3} (Max.)	Btu/h		79,000 (80,000)	99,000 (100,000)	118,000 (120,000)	158,000 (160,000)	177,000 (180,000)	197,000 (200,000)	
	kW		23.20 (23.50)	28.90 (29.30)	34.70 (35.20)	46.30 (46.90)	52.00 (52.80)	57.70 (58.60)	
Power consumption ^{1,3}	kW		8.97	10.77	11.28	15.79	21.38	26.52	
Power consumption ^{2,3}	kW		8.92	10.70	11.19	15.69	21.22	26.39	
CSPF ²			4.30	4.38	4.14	4.12	3.42	3.39	
Indoor unit	Power supply		3 Phase, 380-415 V, 50 Hz						
	Colour		Galvanized Steel						
	Airflow rate (H)	m ³ /min		78		120		166	
		cfm		2,750		4,240		5,860	
	External static pressure ⁵		Pa	98		150		2.2	
	Fan	Motor output	kW	1.5		1.5		2.2	
		Drive		Belt Drive		Belt Drive		Belt Drive	
	Dimensions (HxWxD)		mm	500x1,330x850		625x1,980x850		760x2,195x870	
	Machine weight		kg	106		177		204	
	Sound level		dB(A)	57		59		60	
Drain		mm	PS 3/4B Internal thread		PS 1B Internal thread		PS 1B Internal thread		
Outdoor unit	Power supply		3 Phase, 380-415 V, 50 Hz						
	Colour		Ivory white						
	Compressor	Type		Hermetically sealed swing type		Hermetically sealed scroll type		Hermetically sealed scroll type	
		Motor output	kW	3.2x1	4.5x1	(3.5x1)+(3.5x1)	(4.9x1)+(4.2x1)		
	Airflow rate (H)	m ³ /min	126	178	257	297			
	Dimensions (HxWxD)		mm	870x1,100x460	1,657x930x765	1,657x1,240x765			
	Machine weight		kg	113	185	260	291		
	Sound level ⁴		dB(A)	61	57	60	65		
	Operation range		°CDB	10 to 49		10 to 49			
	Refrigerant charge		kg	3.8	6.7	8.2	11.7		
Refrigerant Piping	Liquid	mm	Ø 9.5 (Brazing)		Ø 12.7 (Brazing)		Ø 15.9 (Brazing)		
	Gas	mm	Ø 19.1 (Brazing)	Ø 22.2 (Brazing)	Ø 28.6 (Brazing)		Ø 28.6 (Brazing)		
Max. piping length		m	70 (equivalent length 90 m)						
Max. level difference		m	50 ⁶	50		50			

Notes :

*1. Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB, 24°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.

*2. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB, 24°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.

*3. Capacity are net, including a deduction for cooling for indoor fan motor heat.

*4. Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

*5. The value is the external static pressure with standard pulley.

*6. Max. 40 m if the outdoor unit is lower than the indoor unit.

Option

FLOOR STANDING TYPE

Option	Direct Air Blow	Duct Connection		
	FVGR200/250QV1	FVPR250QY1	FVPR300/400QY1	FVPR450/500QY1
Discharge grill plenum chamber (Including pulley and belt)	—	BPCV10Q	BPCV16Q	BPCV20Q
Filter chamber	—	BFU1B250	BFU1B400	BFU1B500

CONTROL SYSTEM

Option	FVGR-QY1	FVPR-QY1	FDR-QY1
Simplified remote controller	BRC2E61 (Built-in)		BRC2E61
Navigation remote controller	BRC1E63		
Intelligent touch controller	DCS601C51		
Central remote controller	DCS302CA61		
Unified ON/OFF controller	DCS301B61		
Schedule timer	DST301BA61		
Wiring adaptor for electrical appendices (Group control adaptor) ★	KRP4AA51		
Wiring adaptor for electrical appendices ★	KRP2A61		
Remote sensor (for indoor temperature)	BRC501A-6		
Mounting plate for adaptor PCB ☆	BRP20A-3		BRP20A-1

Note :

Mounting plate ☆ is necessary for each adaptor marked ★.

FLOOR STANDING TYPE

DUCT CONNECTION

Model Name	Indoor unit		FVPR250QY1	FVPR300QY1	FVPR400QY1	FVPR450QY1	FVPR500QY1
	Outdoor unit		RZUR250QY1	RZUR300QY1	RZUR400QY1	RZUR450QY1	RZUR500QY1
Cooling capacity ^{1,3} (Max.)	Btu/h		100,000 (101,000)	120,000 (122,000)	160,000 (162,000)	180,000 (183,000)	200,000 (203,000)
	kW		29.30 (29.60)	35.20 (35.76)	46.90 (47.48)	52.80 (53.63)	58.60 (59.50)
Cooling capacity ^{2,3} (Max.)	Btu/h		99,000 (100,000)	118,000 (120,000)	158,000 (160,000)	177,000 (180,000)	197,000 (200,000)
	kW		28.90 (29.30)	34.70 (35.20)	46.30 (46.90)	52.00 (52.80)	57.70 (58.60)
Power consumption ^{1,3}	kW		10.97	12.48	15.80	20.15	25.59
Power consumption ^{2,3}	kW		10.90	12.39	15.70	20.00	25.42
CSPF ²			4.08	3.33	3.82	3.71	3.72
Indoor unit	Power supply		3 Phase, 380-415 V, 50 Hz				
	Colour		Ivory White				
	Airflow rate (H)	m ³ /min		80	120	166	
		cfm		2,830	4,240	5,860	
	External static pressure ⁵		Pa	147	150	150	5,860
	Fan	Motor output	kW	1.5		2.2	
		Drive		Belt Drive		Belt Drive	
	Dimensions (HxWxD)		mm	1,740x1,170x510	1,870x1,470x720	1,870x1,810x720	
	Machine weight		kg	151	251	297	
	Sound level		dB(A)	61	67	66	
Drain		mm	PS 1B Internal thread				
Outdoor unit	Power supply		3 Phase, 380-415 V, 50 Hz				
	Colour		Ivory white				
	Compressor	Type		Hermetically sealed scroll type		Hermetically sealed scroll type	
		Motor output	kW	4.5x1	(3.5x1)+(3.5x1)	(4.9x1)+(4.2x1)	
	Airflow rate (H)	m ³ /min	178	257	297		
	Dimensions (HxWxD)		mm	1,657x930x765	1,657x1,240x765		
	Machine weight		kg	185	260	291	
	Sound level ⁴		dB(A)	57	60	65	
	Operation range		°CDB	10 to 49		10 to 49	
	Refrigerant charge		kg	6.7	8.2	11.7	
Refrigerant Piping	Liquid	mm	Ø 9.5 (Brazing)		Ø 12.7 (Brazing)		
	Gas	mm	Ø 22.2 (Brazing)	Ø 28.6 (Brazing)		Ø 15.9 (Brazing)	
Max. piping length		m	70 (equivalent length 90 m)				
Max. level difference		m	50				

Notes :

*1. Indoor temp.: 27°CDB, 19.5°CWB / outdoor temp.: 35°CDB, 24°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.

*2. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB, 24°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.

*3. Capacity are net, including a deduction for cooling for indoor fan motor heat.

*4. Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.5 m.

*5. The value is the external static pressure with standard pulley.

*6. Max. 40 m if the outdoor unit is lower than the indoor unit.