



Perfecting the Air

PCTPMT2301aprv



INVERTER AIR COOLED PACKAGED AIR CONDITIONERS

FLOOR STANDING TYPE DUCT TYPE

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.



R-410A

COOLING ONLY 50Hz



DIRECT AIR BLOW



DUCT CONNECTION



DUCT TYPE



OUTDOOR UNIT

Specifications, designs and other content appearing in this brochure are current as of June 2023 but subject to change without notice.

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Inverter Packaged Air Conditioner Line Up for Factories and Offices

Product Line Up **R-410A**

RZUR-P Series

Cooling only 50 Hz

Capacity	kW Btu/h HP	20.2 69,000 8	27.0 92,000 10	
FLOOR STANDING TYPE (DIRECT AIR BLOW)				
		FVGR200PV1(4)	FVGR250PV1(4)	
OUTDOOR UNIT				
		RZUR200PY1(4)	RZUR250PY1(4)	

New RZUR-Q Series

Cooling only 50 Hz

Enhanced lineup

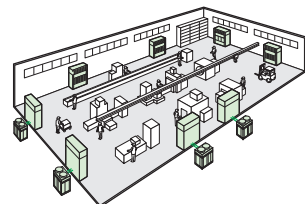
Wider capacity range with 2 new lineups of 12 and 20 HP.

Capacity	kW Btu/h HP	23.5 80,000 8	29.3 100,000 10	35.2 120,000 12	46.9 160,000 16	52.8 180,000 18	58.6 200,000 20
FLOOR STANDING TYPE (DUCT CONNECTION)							
		FVPR250QY1(4)	FVPR300QY1(4)	FVPR400QY1(4)	FVPR450QY1(4)	FVPR500QY1(4)	
DUCT TYPE							
		FDR200QY1(4)	FDR250QY1(4)	FDR300QY1(4)	FDR400QY1(4)	FDR450QY1(4)	FDR500QY1(4)
OUTDOOR UNIT							
		RZUR200QY1(4)	RZUR250QY1(4)	RZUR300QY1(4)	RZUR400QY1(4)	RZUR450QY1(4)	RZUR500QY1(4)

DIRECT AIR BLOW

Direct air blow from indoor unit with plenum

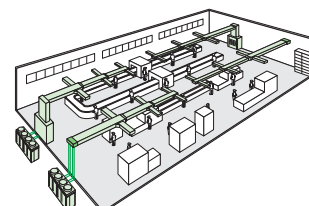
- Comfortable factory air conditioning using multiple indoor units installed in accordance with the space.
- Installation is next to walls, so units will not affect the factory layout even if the changes are made.



DUCT CONNECTION / DUCT TYPE

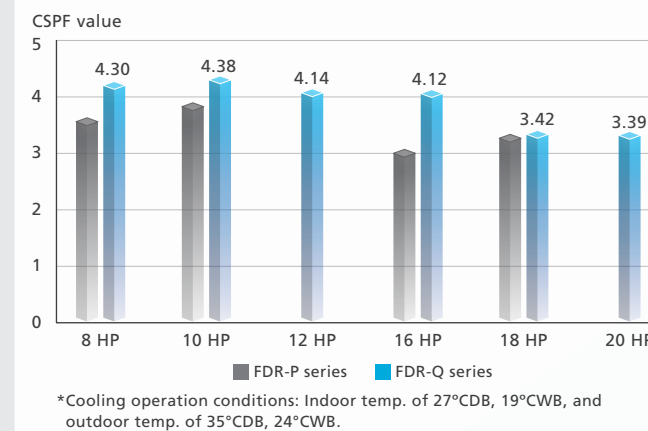
Air blow via connected ducts

- 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



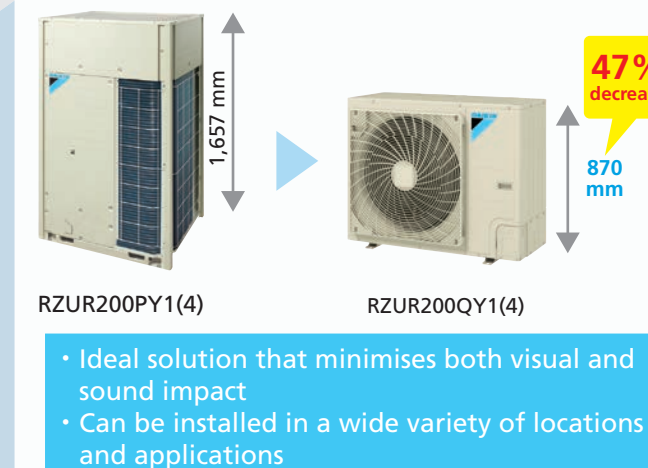
FDR-Q series provides greater energy saving due to higher CSPF* as compared to FDR-P series.

*CSPF: cooling seasonal performance factor

33.8%
increase
(for 16 HP)

Design flexibility

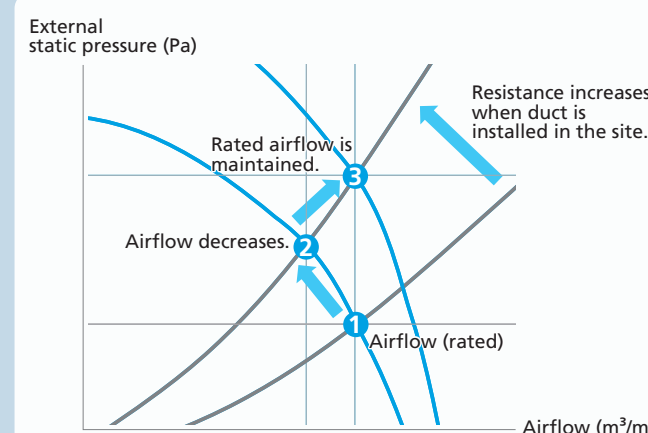
Compact & lightweight design



The new design has been optimised for the RZUR200QY1(4) with the height reduced to only 870 mm.

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

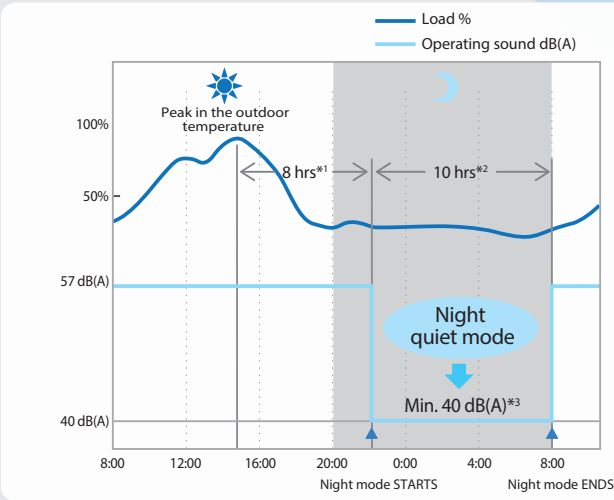
Automatic adjustment of external static pressure



The RZUR200QY1(4) 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 RZUR250PY1(4) and RZUR250QY1(4).

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(4) models. On-site settings are required using the PCB of the outdoor unit.

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.

Intelligent Manager

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.

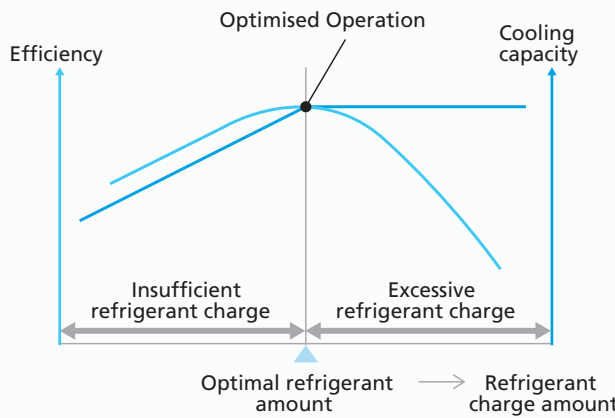
Auto restart

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

Automatic refrigerant charge function

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

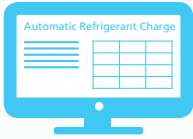
Optimised operation efficiency



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 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.

Enhanced varieties of factory modification

○ Standard model
■ New functions □ 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	□	□	-
2 step airflow by toggle switch	□	-	-
All new fresh air (Discharge temperature control)	-	□	□

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

Specifications

FLOOR STANDING TYPE

DIRECT AIR BLOW

Model Name		Indoor unit		FVGR200PV1(4)		FVGR250PV1(4)	
		Outdoor unit		RZUR200PY1(4)		RZUR250PY1(4)	
Cooling capacity ^{*1} (Max.)			Btu/h	69,000 (75,000)		92,000 (97,000)	
			kW	20.20 (21.90)		27.00 (28.40)	
Cooling capacity ^{*2} (Max.)			Btu/h	68,000 (74,000)		91,000 (96,000)	
			kW	20.00 (21.70)		26.70 (28.10)	
Power consumption ^{*1}			kW	7.27		9.68	
Power consumption ^{*2}			kW	7.25		9.64	
CSPF ^{*2}				3.84		4.20	
Indoor unit	Power supply			1 Phase, 220-240 V, 50 Hz			
	Colour			Ivory White			
	Air flow rate (H)		m ³ /min cfm	80			
				2,830			
	Fan	Motor output		0.245×2			
		Drive		Direct Drive			
	Dimensions (H×W×D)		mm	1,870×1,170×510			
	Machine weight		kg	149			
Sound level		dB(A)	61				
Drain		mm	PS 1B Internal thread				
Outdoor unit	Power supply			3 Phase, 380–415 V, 50 Hz			
	Colour			Ivory white			
	Compressor	Type	kW	Hermetically sealed scroll type			
		Motor output					
	Air flow rate (H)		m ³ /min	3.4×1		4.5×1	
	Dimensions (H×W×D)		mm	178		1,657×930×765	
	Machine weight		kg	175		185	
	Sound level ^{*4}		dB(A)	56		57	
	Operation range		°CDB	10 to 49			
	Refrigerant charge		kg	5.9		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			

FLOOR STANDING TYPE

DUCT CONNECTION

Model Name	Indoor unit			FVPR250QY1(4)	FVPR300QY1(4)	FVPR400QY1(4)	FVPR450QY1(4)	FVPR500QY1(4)	
	Outdoor unit			RZUR250QY1(4)	RZUR300QY1(4)	RZUR400QY1(4)	RZUR450QY1(4)	RZUR500QY1(4)	
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					
	Air flow rate (H)		m³/min	80	120			166	
				2,830	4,240			5,860	
	External static pressure ^{*5}		Pa	147	150				
	Fan	Motor output	kW	1.5			2.2		
	Drive			Belt Drive					
	Dimensions (H×W×D)		mm	1,740×1,170×510	1,870×1,470×720			1,870×1,810×720	
	Machine weight		kg	151	251			297	
Sound level		dB(A)	61	67			66		
Drain		mm							
Outdoor unit	Power supply			PS 1B Internal thread					
	Colour			3 Phase, 380-415 V, 50 Hz					
				Ivory white					
	Compressor	Type		Hermetically sealed scroll type					
		Motor output	kW	4.5×1	(3.5×1)+(3.5×1)	(4.9×1)+(4.2×1)			
	Air flow rate (H)		m³/min	178	257	297			
	Dimensions (H×W×D)		mm	1,657×930×765			1,657×1,240×765		
	Machine weight		kg	185	260	291			
	Sound level ^{*4}		dB(A)	57	60	65			
	Operation range		°CDB	10 to 49					
	Refrigerant charge		kg	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 22.2 (Brazing)		Ø 28.6 (Brazing)				
Max. piping length			m	70 (equivalent length 90 m)					
Max. level difference			m	50					

Note :
*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.
During actual operation, these values are normally somewhat higher as a result of ambient conditions and oil recovery mode.
When there is concern for noise the surrounding area such as residences, we recommend investigating the installation location and taking soundproofing measures.
*5. The value is the external static pressure with standard pulley.

DUCT TYPE

Model Name		Indoor unit		FDR200QY1(4)	FDR250QY1(4)	FDR300QY1(4)	FDR400QY1(4)	FDR450QY1(4)	FDR500QY1(4)	
		Outdoor unit		RZUR200QY1(4)	RZUR250QY1(4)	RZUR300QY1(4)	RZUR400QY1(4)	RZUR450QY1(4)	RZUR500QY1(4)	
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							
	Air flow 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 Drive	kW	1.5						
	Dimensions (H×W×D)		mm	500×1,330×850		625×1,980×850		760×2,195×870		
	Machine weight		kg	106		177		204		
	Sound level		dB(A)	57		59		60		
Drain			mm	PS 3/4B 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					
		Motor output	kW	3.2×1		4.5×1	(3.5×1)+(3.5×1)	(4.9×1)+(4.2×1)		
	Air flow rate (H)		m ³ /min	126		178	257	297		
	Dimensions (H×W×D)		mm	870×1,100×460		1,657×930×765		1,657×1,240×765		
	Machine weight		kg	113		185	260	291		
	Sound level ^{*4}		dB(A)	61		57	60	65		
	Operation range		°CDB	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)			
Max. piping length			m	70 (equivalent length 90 m)						
Max. level difference			m	50%		50				