

R2 (Heat Recovery) series



Simultaneous Cooling and Heating

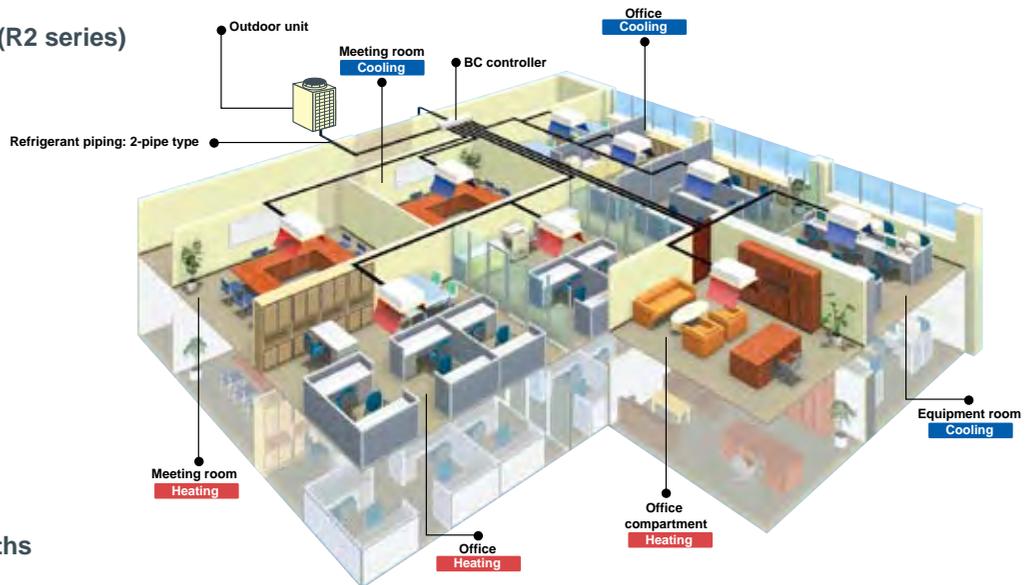
R2 series — **PURY-P YJM-A(-BS)** **PURY-EP YJM-A(-BS)**
PURY-P YSJM-A(1)(-BS) **PURY-EP YSJM-A(1)(-BS)**

The world's first two-pipe system that Simultaneously Cools and Heats

CITY MULTI R2 series offers the ultimate in freedom and flexibility. Cool one zone while heating another. Our exclusive BC controller makes two-pipe simultaneous cooling and heating possible. The BC controller is the technological heart of the CITY MULTI R2 series. It houses a liquid and gas separator, allowing the outdoor unit to deliver a mixture of hot gas for heating and liquid for cooling, all through the same pipe.

This innovation results in virtually no energy wasted by being expelled outdoors. Depending on capacity, up to 50 indoor units can be connected with up to 150% connected capacity

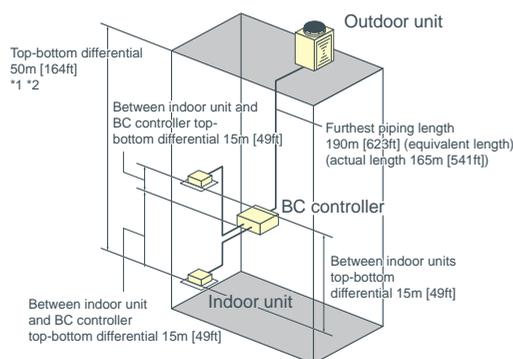
Installation image (R2 series)



System Pipe Lengths

[8-36HP (R2 series)]
 [8-28HP (High COP R2 series)]

Refrigerant Piping Lengths	Maximum meters [Feet]
Total length.....	550-800 [1,804-2,624]
<small>(P600,P650 models only; Refer to the Data book for other models.)</small>	
Maximum allowable length.....	165 (190equivalent) [541(623)]
Maximum length between outdoor and single/main BC controller..... 110 [360]	
*Maximum total length is dependent upon the distance between the outdoor unit and the single/main BC Controller.	
Maximum length between single/main BC controller and indoor..... 40-60 [131-196]	
Vertical differentials between units	
Indoor/outdoor (outdoor higher).....	50 [164]*2
Indoor/outdoor (outdoor lower).....	40 [131]*2
Indoor/BC controller (single/main)...	15 [49]
*Maximum length between single/main BC controller and indoor is dependent upon the vertical differential between the single/main BC controller and the indoor unit.	
Indoor/indoor.....	15 [49]
Main BC Controller/Sub BC Controller...	15 [49]



*1 When the outdoor unit is installed below the indoor unit, top-bottom differential is 40m [131ft].

*2 Depending on the model and installation conditions, top-bottom differential 90m [295ft] (o/u above) and 60m [196ft] (o/u below) is available. For more detailed information, please contact your nearest sales office or distributor.



Common Features in Y (Heat Pump) series & R2 (Heat Recovery) series

New Lineup Y/R2 series(YJM)



In addition to outdoor unit "S" and "L" module, a new "XL" module is introduced. The three modular form can be combined to create systems up to 50HP in Y series and up to 36HP in R2 series.

<Y Series-Standard>

HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50
Capacity	Cooling 22.4	28	33.5	40	45	50	56	63	69	73	80	85	90	96	101	108	113	118	124	130	136	140
	Heating 25	31.5	37.5	45	50	56	63	69	76.5	81.5	88	95	100	108	113	119.5	127	132	140	145	150	156.5
Module (Pattern 1)	S module	●	●	●			●+●	●+●	●	●	●+●	●+●	●	●		●+●	●+●	●	●+●	●+●	●+●	●+●
	L module			●	●				●	●	●+●	●+●	●	●		●+●	●+●	●	●+●	●+●	●+●	●+●
	XL module					●					●	●	●	●	●+●	●+●	●	●+●	●+●	●+●	●+●	●+●
Module (Pattern 2)	S module					●+●	●+●	●+●	●													
	L module								●		●+●											
	XL module										●	●	●	●								

<R2 Series-Standard>

HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
Capacity	Cooling 22.4	28	33.5	40	45	50	56	63	69	73	80	85	90	96	101
	Heating 25	31.5	37.5	45	50	56	63	69	76.5	81.5	88	95	100	108	113
Module (Pattern 1)	S module	●	●	●	●	●	●+●	●+●	●+●	●	●	●+●	●+●	●	●
	L module			●	●				●	●	●+●	●+●	●	●	
	XL module					●					●	●	●	●	●+●
Module (Pattern 2)	S module				●+●	●+●	●+●	●							
	L module								●		●+●		●		
	XL module										●	●	●		

Improved performance

Improved heating capacity at low ambient temperature ensures 70% capacity at -15°C [5°F].

Cooling operation range is extended up to 46°C [115°F] from 43°C [109°F] with conventional model.

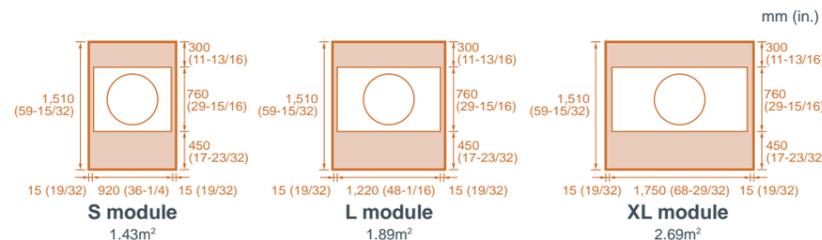
Compact Design Industry leading weight saving

The manageability of the outdoor unit has been improved due to a drastic reduction in its weight, leading to easy transportation, installation, and reduction in withstand load.

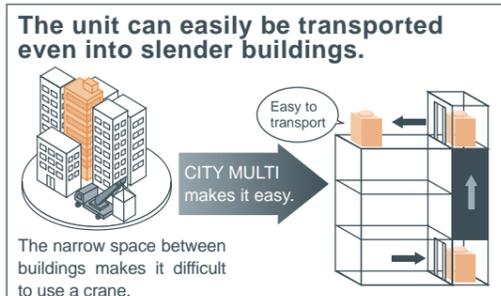
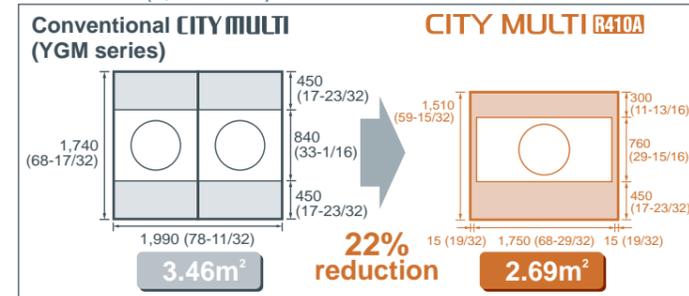


Effective Use of Space

The new models have a smaller foot print and service space requirement than previous models.



P450 model (Y,R2 series)



Low Noise Levels New Fan Design

CITY MULTI VRF systems led the introduction of larger single fan motors some ten years ago, achieving substantially lower noise levels over multiple designs.

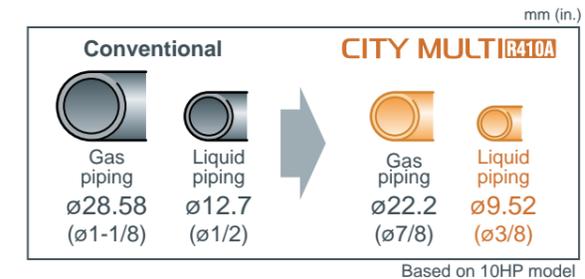
Continuing the development in the areas of blade shape and weight, Mitsubishi Electric have managed to achieve even higher performance and lower noise levels. To reduce noise levels further and comply with inner city residential noise regulations, all outdoor units include low noise mode. This function works by lowering the fan speed and compressor frequency proportionally with reduction in demand.



The compressor compartment is sealed by metal panels to attain low noise levels in all directions.

R410A Pipe Sizing

As R410A has a higher specific heat capacity than R22, the pipework is smaller. This means the pipe itself is cheaper, easier to install and less riser space is required within the building.



Blue Fin Treatment

The anti-corrosion Blue Fin treatment of the heat exchanger is especially effective in urban environments where the traffic pollutions can damage the aluminum fins reducing the capacity and life expectancy of the unit. All CITY MULTI R410A outdoor units have been treated with Blue Fin.

*Standard: Anti-corrosion Blue Fin treatment & copper tube. BS type (optional): salt-resistant cross fin & copper tube.



Easy Maintenance

Even when one of the indoor units in the system is under maintenance, the other indoor unit can still operate.

* Not applicable to all situations. * Be sure to turn off the power to the indoor unit when repairing or servicing the unit.



System Check

Ensuring simple and easy maintenance, system tests are available to check wiring, sensors and the refrigerant amount.

60Pa High Static Pressure as standard

Both Y and R2 series correspond to high static pressure of 60Pa, ideal and flexible for any type of application.

OUTDOOR UNIT

R2 Series

PURY-P YJM-A(-BS)



► Specifications

Model		PURY-P200YJM-A(-BS)	PURY-P250YJM-A(-BS)	PURY-P300YJM-A(-BS)	
Power source		3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity (Nominal)	*1 kW	22.4	28.0	33.5	
	*1 BTU / h	76,400	95,500	114,300	
	Power input kW	5.18	7.05	8.67	
	Current input A	8.7-8.3-8.0	11.9-11.3-10.8	14.6-13.9-13.4	
	COP	kW / kW	4.32	3.97	3.86
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity (Nominal)	*2 kW	25.0	31.5	37.5	
	*2 BTU / h	85,300	107,500	128,000	
	Power input kW	5.69	7.32	8.78	
	Current input A	9.6-9.1-8.7	12.3-11.7-11.3	14.8-14.0-13.5	
	COP	kW / kW	4.39	4.30	4.27
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit connectable	Total capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	
	Model / Quantity	P15~P250 / 1~20	P15~P250 / 1~25	P15~P250 / 1~30	
Sound pressure level (measured in anechoic room)		dB <A>	56	57	59
Power pressure level (measured in anechoic room)		dB <A>	76	77	79
Refrigerant piping diameter	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
	Low pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ /min	185	185	185
		L/s	3,083	3,083	3,083
		cfm	6,532	6,532	6,532
Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	
Compressor	*4 Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
	External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
	Type x Quantity		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.4	6.8	7.8
	Case heater	kW	0.035(240 V)	0.035(240 V)	0.045(240 V)
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 920 x 760	
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 36-1/4 x 29-15/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)
Net weight		kg (lbs)	240(530)	240(530)	245(541)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT R2 Series PURY-P YJM-A(-BS)



► Specifications

Model	PURY-P350YJM-A(-BS)		PURY-P400YJM-A(-BS)		PURY-P450YJM-A(-BS)	
Power source	3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity (Nominal)	*1 kW	40.0	45.0	50.0		
	*1 BTU/h	136,500	153,500	170,600		
	Power input kW	11.33	13.55	14.49		
	Current input A	19.1-18.1-17.5	22.8-21.7-20.9	24.4-23.2-22.3		
COP	kW/kW	3.53	3.32	3.45		
	Indoor W.B.	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)		
	Outdoor D.B.	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)		
Heating capacity (Nominal)	*2 kW	45.0	50.0	56.0		
	*2 BTU/h	153,500	170,600	191,100		
	Power input kW	10.89	12.75	14.58		
	Current input A	18.3-17.4-16.8	21.5-20.4-19.7	24.6-23.3-22.5		
COP	kW/kW	4.13	3.92	3.84		
	Indoor W.B.	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)		
	Outdoor W.B.	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)		
Indoor unit connectable	Total capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity		
	Model / Quantity	P15-P250 / 1-35	P15-P250 / 1-40	P15-P250 / 1-45		
Sound pressure level (measured in anechoic room)	dB <A>	60	61	62		
Power pressure level (measured in anechoic room)	dB <A>	80	81	82		
Refrigerant piping diameter	High pressure mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed		
	Low pressure mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed		
FAN	Type x Quantity	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2		
	Air flow rate	m ³ /min	225	225	360	
	L/s	3,750	6,000	6,000		
	cfm	7,945	7,945	12,712		
	Driving mechanism	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor		
	Motor output kW	0.92 x 1	0.92 x 1	0.92 x 2		
	External static press.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)		
	Type x Quantity	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor		
	Starting method	Inverter	Inverter	Inverter		
	Motor output kW	9.9	10.2	11.6		
Case heater kW	0.045(240 V)	0.045(240 V)	0.045(240 V)			
External finish	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>					
External dimension HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760		
	in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)		
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection		
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection		
	Fan motor	Thermal switch	Thermal switch	Thermal switch		
Refrigerant	Type x original charge	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)		
Net weight	kg (lbs)	270(596)	270(596)	320(706)		
Heat exchanger	Salt-resistant cross fin & copper tube					
Optional parts	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-GA1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
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Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT R2 Series PURY-P YSJM-A(1)(-BS)



► Specifications

Model	PURY-P400YSJM-A1(-BS)		PURY-P450YSJM-A1(-BS)		PURY-P500YSJM-A(-BS)	
Power source	3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity (Nominal)	*1 kW	45.0	50.0	56.0		
	*1 BTU/h	153,500	170,600	191,100		
	Power input kW	10.73	12.50	14.85		
	Current input A	18.1-17.2-16.5	21.1-20.0-19.3	25.0-23.8-22.9		
COP	kW/kW	4.19	4.00	3.77		
	Indoor W.B.	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)		
	Outdoor D.B.	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)		
Heating capacity (Nominal)	*2 kW	50.0	56.0	63.0		
	*2 BTU/h	170,600	191,100	215,000		
	Power input kW	11.62	13.30	15.10		
	Current input A	19.6-18.6-17.9	22.4-21.3-20.5	25.4-24.2-23.3		
COP	kW/kW	4.30	4.21	4.17		
	Indoor W.B.	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)		
	Outdoor W.B.	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)		
Indoor unit connectable	Total capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity		
	Model / Quantity	P15-P250 / 1-40	P15-P250 / 1-45	P15-P250 / 1-50		
Sound pressure level (measured in anechoic room)	dB <A>	59	59.5	60		
Power pressure level (measured in anechoic room)	dB <A>	79	79.5	80		
Refrigerant piping diameter	High pressure mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed		
	Low pressure mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed		
Set Model						
FAN	Type x Quantity	Propeller fan x 1				
	Air flow rate	m ³ /min	185	185	185	185
	L/s	3,083	3,083	3,083	3,083	3,083
	cfm	6,532	6,532	6,532	6,532	6,532
	Driving mechanism	Inverter-control, Direct-driven by motor				
	Motor output kW	0.92 x 1				
	External static press.	0 Pa (0 mmH ₂ O)				
	Type x Quantity	Inverter scroll hermetic compressor				
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output kW	5.4	5.4	5.4	6.8	6.8
Case heater kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.035(240 V)	
External finish	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>					
External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760				
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16				
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection				
	Compressor	Over-heat protection				
	Fan motor	Thermal switch				
Refrigerant	Type x original charge	R410A x 9.5kg (21lbs)				
Net weight	kg (lbs)	240(530)	240(530)	240(530)	240(530)	240(530)
Heat exchanger	Salt-resistant cross fin & copper tube					
Pipe between unit and distributor	High pressure mm (in.)	15.88(5/8) Brazed	15.88(5/8) Brazed	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed
	Low pressure mm (in.)	19.05(3/4) Brazed	-	19.05(3/4) Brazed	-	22.2(7/8) Brazed
Optional parts	Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
	Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
	Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
	Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT R2 Series PURY-P YSJM-A(1)(-BS)



► Specifications

Model	PURY-P500YSJM-A1(-BS)		PURY-P550YSJM-A(-BS)		PURY-P600YSJM-A(-BS)			
Power source	3-phase 4-wire 380-400-415V 50/60Hz							
Cooling capacity (Nominal)	*1 kW	56.0		63.0		69.0		
	*1 BTU / h	191,100		215,000		235,400		
	Power input kW	14.73		17.30		19.65		
	Current input A	24.8-23.6-22.7		29.2-27.7-26.7		33.1-31.5-30.3		
	COP	3.80		3.64		3.51		
Temp. range of cooling	*3 Indoor W.B.	15.0-24.0°C(59-75°F)		15.0-24.0°C(59-75°F)		15.0-24.0°C(59-75°F)		
	*3 Outdoor D.B.	-5.0-46.0°C(23-115°F)		-5.0-46.0°C(23-115°F)		-5.0-46.0°C(23-115°F)		
Heating capacity (Nominal)	*2 kW	63.0		69.0		76.5		
	*2 BTU / h	215,000		235,400		261,000		
	Power input kW	15.07		16.95		19.07		
	Current input A	25.4-24.1-23.2		28.6-27.1-26.2		32.1-30.5-29.4		
	COP	4.18		4.07		4.01		
Temp. range of heating	*3 Indoor W.B.	15.0-27.0°C(59-81°F)		15.0-27.0°C(59-81°F)		15.0-27.0°C(59-81°F)		
	*3 Outdoor W.B.	-20.0-15.5°C(-4-60°F)		-20.0-15.5°C(-4-60°F)		-20.0-15.5°C(-4-60°F)		
Indoor unit connectable	Total capacity 50-150 % of outdoor unit capacity Model / Quantity P15-P250 / 1-50		Total capacity 50-150 % of outdoor unit capacity Model / Quantity P15-P250 / 2-50		Total capacity 50-150 % of outdoor unit capacity Model / Quantity P15-P250 / 2-50			
Sound pressure level (measured in anechoic room)	dB <A>	61		61		62		
Power pressure level (measured in anechoic room)	dB <A>	81		81		82		
Refrigerant piping diameter	High pressure mm (in.)	22.2(7/8) Braze		28.58(1-1/8) Braze		28.58(1-1/8) Braze		
	Low pressure mm (in.)	28.58(1-1/8) Braze		28.58(1-1/8) Braze		28.58(1-1/8) Braze		
Set Model								
Model	PURY-P200YJM-A(-BS)		PURY-P300YJM-A(-BS)		PURY-P300YJM-A(-BS)			
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m ³ /min	185		185		185	
		L/s	3,083		3,083		3,083	
		cfm	6,532		6,532		6,532	
	Driving mechanism	Inverter-control, Direct-driven by motor						
*4 External static press.	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)			
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method	Inverter		Inverter		Inverter		
	Motor output kW	5.4		7.8		7.8		
	Case heater kW	0.035(240 V)		0.045(240 V)		0.045(240 V)		
External finish	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>							
External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760		1,710(1,650 without legs) x 920 x 760		1,710(1,650 without legs) x 920 x 760		
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16		67-3/8(65 without legs) x 36-1/4 x 29-15/16		67-3/8(65 without legs) x 36-1/4 x 29-15/16		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
	Fan motor	Thermal switch		Thermal switch		Thermal switch		
Refrigerant	Type x original charge	R410A x 9.5kg (21lbs)		R410A x 9.5kg (21lbs)		R410A x 9.5kg (21lbs)		
Net weight	kg (lbs)	240(530)		245(541)		245(541)		
Heat exchanger	Salt-resistant cross fin & copper tube							
Pipe between unit and distributor	High pressure mm (in.)	15.88(5/8) Braze		19.05(3/4) Braze		19.05(3/4) Braze		
	Low pressure mm (in.)	19.05(3/4) Braze		22.2(7/8) Braze		22.2(7/8) Braze		
Optional parts	Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1							

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor unit

OUTDOOR UNIT R2 Series PURY-P YSJM-A(1)(-BS)



► Specifications

Model	PURY-P600YSJM-A1(-BS)		PURY-P650YSJM-A(-BS)		PURY-P700YSJM-A(-BS)			
Power source	3-phase 4-wire 380-400-415V 50/60Hz							
Cooling capacity (Nominal)	*1 kW	69.0		73.0		80.0		
	*1 BTU / h	235,400		249,100		273,000		
	Power input kW	19.16		21.53		23.95		
	Current input A	32.3-30.7-29.6		36.3-34.5-33.2		40.4-38.4-37.0		
	COP	3.60		3.39		3.34		
Temp. range of cooling	*3 Indoor W.B.	15.0-24.0°C(59-75°F)		15.0-24.0°C(59-75°F)		15.0-24.0°C(59-75°F)		
	*3 Outdoor D.B.	-5.0-46.0°C(23-115°F)		-5.0-46.0°C(23-115°F)		-5.0-46.0°C(23-115°F)		
Heating capacity (Nominal)	*2 kW	76.5		81.5		88.0		
	*2 BTU / h	261,000		278,100		300,300		
	Power input kW	18.61		20.47		22.33		
	Current input A	31.4-29.8-28.7		34.5-32.8-31.6		37.6-35.8-34.5		
	COP	4.11		3.98		3.94		
Temp. range of heating	*3 Indoor D.B.	15.0-27.0°C(59-81°F)		15.0-27.0°C(59-81°F)		15.0-27.0°C(59-81°F)		
	*3 Outdoor W.B.	-20.0-15.5°C(-4-60°F)		-20.0-15.5°C(-4-60°F)		-20.0-15.5°C(-4-60°F)		
Indoor unit connectable	Total capacity 50-150 % of outdoor unit capacity Model / Quantity P15-P250 / 2-50		Total capacity 50-150 % of outdoor unit capacity Model / Quantity P15-P250 / 2-50		Total capacity 50-150 % of outdoor unit capacity Model / Quantity P15-P250 / 2-50			
Sound pressure level (measured in anechoic room)	dB <A>	62		62.5		63		
Power pressure level (measured in anechoic room)	dB <A>	82		82.5		83		
Refrigerant piping diameter	High pressure mm (in.)	28.58(1-1/8) Braze		28.58(1-1/8) Braze		28.58(1-1/8) Braze		
	Low pressure mm (in.)	28.58(1-1/8) Braze		28.58(1-1/8) Braze		34.93(1-3/8) Braze		
Set Model								
Model	PURY-P250YJM-A(-BS)		PURY-P350YJM-A(-BS)		PURY-P350YJM-A(-BS)			
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		
	Air flow rate	m ³ /min	185		225		185	
		L/s	3,083		3,750		3,083	
		cfm	6,532		7,945		6,532	
	Driving mechanism	Inverter-control, Direct-driven by motor						
*4 External static press.	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)			
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method	Inverter		Inverter		Inverter		
	Motor output kW	6.8		9.9		7.8		
	Case heater kW	0.035(240 V)		0.045(240 V)		0.045(240 V)		
External finish	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>							
External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760		1,710(1,650 without legs) x 1,220 x 760		1,710(1,650 without legs) x 920 x 760		
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16		67-3/8(65 without legs) x 48-1/16 x 29-15/16		67-3/8(65 without legs) x 36-1/4 x 29-15/16		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection		
	Fan motor	Thermal switch		Thermal switch		Thermal switch		
Refrigerant	Type x original charge	R410A x 9.5kg (21lbs)		R410A x 11.8kg (27lbs)		R410A x 9.5kg (21lbs)		
Net weight	kg (lbs)	240(530)		270(596)		245(541)		
Heat exchanger	Salt-resistant cross fin & copper tube							
Pipe between unit and distributor	High pressure mm (in.)	19.05(3/4) Braze		19.05(3/4) Braze		22.2(7/8) Braze		
	Low pressure mm (in.)	19.05(3/4) Braze		22.2(7/8) Braze		22.2(7/8) Braze		
Optional parts	Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1							

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor Unit

OUTDOOR UNIT R2 Series PURY-P YSJM-A(1)(-BS)

► Specifications



Model	PURY-P700YSJM-A1(-BS)		PURY-P750YSJM-A(-BS)		PURY-P800YSJM-A(-BS)	
Power source	3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity (Nominal)	*1 kW	80.0	85.0	90.0		
	*1 BTU / h	273,000	290,000	307,100		
	Power input kW	23.39	26.47	28.30		
	Current input A	39.4-37.5-36.1	44.6-42.4-40.9	47.7-45.3-43.7		
COP	kW / kW	3.42	3.21	3.18		
	Indoor W.B.	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)		
	Outdoor D.B.	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)		
Heating capacity (Nominal)	*2 kW	88.0	95.0	100.0		
	*2 BTU / h	300,300	324,100	341,200		
	Power input kW	21.78	24.05	26.04		
	Current input A	36.7-34.9-33.6	40.6-38.5-37.1	43.9-41.7-40.2		
COP	kW / kW	4.04	3.95	3.84		
	Indoor W.B.	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)		
	Outdoor W.B.	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)		
Indoor unit connectable	Total capacity	50-150 % of outdoor unit capacity		50-150 % of outdoor unit capacity		
	Model / Quantity	P15-P250 / 2-50		P15-P250 / 2-50		
Sound pressure level (measured in anechoic room)	dB <A>	63	63.5	64		
Power pressure level (measured in anechoic room)	dB <A>	83	83.5	84		
Refrigerant piping diameter	High pressure mm (in.)	28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		
	Low pressure mm (in.)	34.93(1-3/8) Brazed		34.93(1-3/8) Brazed		

Set Model	PURY-P350YJM-A(-BS)		PURY-P400YJM-A(-BS)		PURY-P450YJM-A(-BS)		PURY-P450YJM-A(-BS)		
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m³/min	225	225	225	225	225	225	225
		L/s	3,750	3,750	3,750	3,750	3,750	3,750	3,750
		cfm	7,945	7,945	7,945	7,945	7,945	7,945	7,945
	Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output kW	0.92 x 1		0.92 x 1		0.92 x 1		0.92 x 1	
*4 External static press.	0 Pa (0 mmH₂O)								
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method	Inverter		Inverter		Inverter		Inverter	
	Motor output kW	9.9		9.9		10.2		10.2	
	Case heater kW	0.045(240 V)		0.045(240 V)		0.045(240 V)		0.045(240 V)	
External finish	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
	External dimension HxWxD	mm		mm		mm		mm	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
Refrigerant	Type x original charge	R410A x 11.8kg (27lbs)		R410A x 11.8kg (27lbs)		R410A x 11.8kg (27lbs)		R410A x 11.8kg (27lbs)	
	Net weight	270(596)		270(596)		270(596)		270(596)	
Heat exchanger	High pressure	Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
	Low pressure	28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		28.58(1-1/8) Brazed	
Optional parts	Outdoor Twinning kit	CMY-R200VBK		CMY-R200VBK		CMY-R200VBK		CMY-R200VBK	
	Joint	CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1	

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor unit

OUTDOOR UNIT R2 Series PURY-P YSJM-A(1)(-BS)

► Specifications



Model	PURY-P800YSJM-A1(-BS)		PURY-P850YSJM-A(-BS)		PURY-P900YSJM-A(-BS)	
Power source	3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity (Nominal)	*1 kW	90.0	96.0	101.0		
	*1 BTU / h	307,100	327,600	344,600		
	Power input kW	26.62	29.26	30.23		
	Current input A	44.9-42.6-41.1	49.3-46.9-45.2	51.0-48.4-46.7		
COP	kW / kW	3.38	3.28	3.34		
	Indoor W.B.	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)		
	Outdoor D.B.	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)		
Heating capacity (Nominal)	*2 kW	108.0	113.0	113.0		
	*2 BTU / h	341,200	368,500	385,600		
	Power input kW	25.77	28.42	30.05		
	Current input A	43.5-41.3-39.8	47.9-45.5-43.9	50.7-48.1-46.4		
COP	kW / kW	3.88	3.80	3.76		
	Indoor W.B.	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)		
	Outdoor W.B.	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)		
Indoor unit connectable	Total capacity	50-150 % of outdoor unit capacity		50-150 % of outdoor unit capacity		
	Model / Quantity	P15-P250 / 2-50		P15-P250 / 2-50		
Sound pressure level (measured in anechoic room)	dB <A>	64	64.5	65		
Power pressure level (measured in anechoic room)	dB <A>	84	84.5	85		
Refrigerant piping diameter	High pressure mm (in.)	28.58(1-1/8) Brazed		28.58(1-1/8) Brazed		
	Low pressure mm (in.)	34.93(1-3/8) Brazed		41.28(1-5/8) Brazed		

Set Model	PURY-P350YJM-A(-BS)		PURY-P450YJM-A(-BS)		PURY-P450YJM-A(-BS)		PURY-P450YJM-A(-BS)		
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 2		Propeller fan x 1		Propeller fan x 2	
	Air flow rate	m³/min	225	360	225	360	360	360	360
		L/s	3,750	6,000	3,750	6,000	6,000	6,000	6,000
		cfm	7,945	12,712	7,945	12,712	12,712	12,712	12,712
	Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output kW	0.92 x 1		0.92 x 2		0.92 x 1		0.92 x 2	
*4 External static press.	0 Pa (0 mmH₂O)								
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method	Inverter		Inverter		Inverter		Inverter	
	Motor output kW	9.9		11.6		10.2		11.6	
	Case heater kW	0.045(240 V)		0.045(240 V)		0.045(240 V)		0.045(240 V)	
External finish	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
	External dimension HxWxD	mm		mm		mm		mm	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
Refrigerant	Type x original charge	R410A x 11.8kg (27lbs)		R410A x 11.8kg (27lbs)		R410A x 11.8kg (27lbs)		R410A x 11.8kg (27lbs)	
	Net weight	270(596)		320(706)		270(596)		320(706)	
Heat exchanger	High pressure	Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
	Low pressure	28.58(1-1/8) Brazed		22.2(7/8) Brazed		22.2(7/8) Brazed		22.2(7/8) Brazed	
Optional parts	Outdoor Twinning kit	CMY-R100LVBK		CMY-R200XLVBK		CMY-R200XLVBK		CMY-R200XLVBK	
	Joint	CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1	

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor Unit

OUTDOOR UNIT R2 Series - High COP PURY-EP YJM-A(-BS)



► Specifications

Model		PURY-EP200YJM-A(-BS)	PURY-EP250YJM-A(-BS)	PURY-EP300YJM-A(-BS)	PURY-EP350YJM-A(-BS)	
Power source		3-phase 4-wire 380-400-415V 50/60Hz				
Cooling capacity (Nominal)	*1 kW	22.4	28.0	33.5	40.0	
	*1 BTU / h	76,400	95,500	114,300	136,500	
	Power input kW	5.07	6.76	8.25	10.28	
	Current input A	8.5-8.1-7.8	11.4-10.8-10.4	13.9-13.2-12.7	17.3-16.4-15.8	
COP	kW / kW	4.41	4.14	4.06	3.89	
	Indoor W.B.	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	
	Outdoor D.B.	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	
Heating capacity (Nominal)	*2 kW	25.0	31.5	37.5	45.0	
	*2 BTU / h	85,300	107,500	128,000	153,500	
	Power input kW	5.56	7.15	8.60	10.58	
	Current input A	9.3-8.9-8.5	12.0-11.4-11.0	14.5-13.7-13.2	17.8-16.9-16.3	
COP	kW / kW	4.49	4.40	4.36	4.25	
	Indoor W.B.	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	
	Outdoor W.B.	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	
Indoor unit connectable	Total capacity	50-150 % of outdoor unit capacity	50-150 % of outdoor unit capacity	50-150 % of outdoor unit capacity	50-150 % of outdoor unit capacity	
	Model / Quantity	P15-P250 / 1-20	P15-P250 / 1-25	P15-P250 / 1-30	P15-P250 / 1-35	
Sound pressure level (measured in anechoic room)	dB <A>	57	60	60	61	
Power pressure level (measured in anechoic room)	dB <A>	77	80	80	81	
Refrigerant piping diameter	High pressure mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	19.05(3/4) Brazed	
	Low pressure mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed	28.58(1-1/8) Brazed	
FAN	Type x Quantity	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	
	Air flow rate	m³/min	185	225	225	360
		L/s	3,083	3,750	3,750	6,000
		cfm	6,532	7,945	7,945	12,712
	Driving mechanism	Inverter-control, Direct-driven by motor				
	Motor output kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 2	
	External static press.	0 Pa (0 mmH ₂ O)				
	Type x Quantity	Inverter scroll hermetic compressor				
	Starting method	Inverter	Inverter	Inverter	Inverter	
	Motor output kW	5.4	6.8	7.8	9.9	
Case heater kW	0.035(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)		
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
	External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection				
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection	
	Fan motor	Thermal switch	Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original charge	R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	
Net weight	kg (lbs)	240(530)	270(596)	270(596)	320(706)	
Heat exchanger		Salt-resistant cross fin & copper tube				
Optional parts	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1		
	BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	BC controller: CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1		
	Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1	Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1	Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1	Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1		
	Sub BC controller: CMB-P104, 108V, GB1, CMB-P1016V-HB1	Sub BC controller: CMB-P104, 108V, GB1, CMB-P1016V-HB1	Sub BC controller: CMB-P104, 108V, GB1, CMB-P1016V-HB1	Sub BC controller: CMB-P104, 108V, GB1, CMB-P1016V-HB1		

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT R2 Series - High COP PURY-EP YSJM-A(-BS)



► Specifications

Model		PURY-EP400YSJM-A(-BS)	PURY-EP450YSJM-A(-BS)	PURY-EP500YSJM-A(-BS)				
Power source		3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz				
Cooling capacity (Nominal)	*1 kW	45.0	50.0	56.0				
	*1 BTU / h	153,500	170,600	191,100				
	Power input kW	10.41	11.99	13.62				
	Current input A	17.5-16.6-16.0	20.2-19.2-18.5	22.9-21.8-21.0				
COP	kW / kW	4.32	4.17	4.11				
	Indoor W.B.	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)				
	Outdoor D.B.	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)				
Heating capacity (Nominal)	*2 kW	50.0	56.0	63.0				
	*2 BTU / h	170,600	191,100	215,000				
	Power input kW	11.36	12.87	14.38				
	Current input A	19.1-18.2-17.5	21.7-20.6-19.8	24.2-23.0-22.2				
COP	kW / kW	4.40	4.35	4.38				
	Indoor W.B.	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)				
	Outdoor W.B.	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)				
Indoor unit connectable	Total capacity	50-150 % of outdoor unit capacity	50-150 % of outdoor unit capacity	50-150 % of outdoor unit capacity				
	Model / Quantity	P15-P250 / 1-40	P15-P250 / 1-40	P15-P250 / 1-50				
Sound pressure level (measured in anechoic room)	dB <A>	60	62	62				
Power pressure level (measured in anechoic room)	dB <A>	80	82	82				
Refrigerant piping diameter	High pressure mm (in.)	22.2(7/8) Brazed	22.2(7/8) Brazed	22.2(7/8) Brazed				
	Low pressure mm (in.)	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed	28.58(1-1/8) Brazed				
Set Model	FAN	Type x Quantity	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	Propeller fan x 1	
		Air flow rate	m³/min	185	185	185	225	225
			L/s	3,083	3,083	3,083	3,750	3,750
			cfm	6,532	6,532	6,532	7,945	7,945
		Driving mechanism	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor		
		Motor output kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1		
		External static press.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)		
		Type x Quantity	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor		
		Starting method	Inverter	Inverter	Inverter	Inverter		
		Motor output kW	5.4	5.4	5.4	6.8		
Case heater kW	0.035(240 V)	0.035(240 V)	0.035(240 V)	0.045(240 V)				
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
	External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)			
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection	Over-heat protection, Over-current protection			
	Compressor	Over-heat protection	Over-heat protection	Over-heat protection	Over-heat protection			
	Fan motor	Thermal switch	Thermal switch	Thermal switch	Thermal switch			
Refrigerant	Type x original charge	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)			
Net weight	kg (lbs)	240(530)	240(530)	240(530)	270(596)			
Heat exchanger		Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube			
Optional parts	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1	Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1				
	BC controller: CMB-P108, 1010, 1013, 1016V-GA1	BC controller: CMB-P108, 1010, 1013, 1016V-GA1	BC controller: CMB-P108, 1010, 1013, 1016V-GA1	BC controller: CMB-P108, 1010, 1013, 1016V-GA1				
	Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1	Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1	Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1	Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1				
	Sub BC controller: CMB-P104, 108V, GB1, CMB-P1016V-HB1	Sub BC controller: CMB-P104, 108V, GB1, CMB-P1016V-HB1	Sub BC controller: CMB-P104, 108V, GB1, CMB-P1016V-HB1	Sub BC controller: CMB-P104, 108V, GB1, CMB-P1016V-HB1				

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

OUTDOOR UNIT R2 Series - High COP PURY-EP YSJM-A(1)(-BS)

► Specifications



Model	PURY-EP500YSJM-A1(-BS)		PURY-EP550YSJM-A(-BS)		PURY-EP600YSJM-A(-BS)	
Power source	3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity (Nominal)	*1 kW	56.0	63.0	69.0		
	*1 BTU / h	191,100	215,000	235,400		
	Power input kW	13.96	15.40	16.87		
	Current input A	23.5-22.3-21.5	25.9-24.6-23.8	28.4-27.0-26.0		
	COP kW / kW	4.01	4.09	4.09		
Temp. range of cooling	*3 Indoor W.B.	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)		
	*3 Outdoor D.B.	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)		
Heating capacity (Nominal)	*2 kW	63.0	69.0	76.5		
	*2 BTU / h	215,000	235,400	261,000		
	Power input kW	14.78	15.93	17.38		
	Current input A	24.9-23.7-22.8	26.8-25.5-24.6	29.3-27.8-26.8		
	COP kW / kW	4.26	4.33	4.40		
Temp. range of heating	*3 Indoor W.B.	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)		
	*3 Outdoor W.B.	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)		
Indoor unit connectable	Total capacity	50-150 % of outdoor unit capacity		50-150 % of outdoor unit capacity		
	Model / Quantity	P15-P250 / 1-50		P15-P250 / 2-50		
Sound pressure level (measured in anechoic room)	dB <A>	63	63	63		
Power pressure level (measured in anechoic room)	dB <A>	83	83	83		
Refrigerant piping diameter	High pressure mm (in.)	22.2(7/8) Braze	28.58(1-1/8) Braze	28.58(1-1/8) Braze		
	Low pressure mm (in.)	28.58(1-1/8) Braze	28.58(1-1/8) Braze	28.58(1-1/8) Braze		
Set Model						
Model	PURY-EP250YJM-A(-BS)	PURY-EP250YJM-A(-BS)	PURY-EP250YJM-A(-BS)	PURY-EP300YJM-A(-BS)	PURY-EP300YJM-A(-BS)	PURY-EP300YJM-A(-BS)
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1		Propeller fan x 1
	Air flow rate m ³ /min	225	225	225	225	225
	L/s	3,750	3,750	3,750	3,750	3,750
	cfm	7,945	7,945	7,945	7,945	7,945
	Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor
	Motor output kW	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1	0.92 x 1
	*4 External static press.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor
	Starting method	Inverter		Inverter		Inverter
	Motor output kW	6.8	6.8	6.8	7.8	7.8
	Case heater kW	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760
	in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection
	Fan motor	Thermal switch		Thermal switch		Thermal switch
Refrigerant	Type x original charge	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight	kg (lbs)	270(596)	270(596)	270(596)	270(596)	270(596)
Heat exchanger		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube
Pipe between unit and distributor	High pressure mm (in.)	19.05(3/4) Braze	19.05(3/4) Braze	19.05(3/4) Braze	19.05(3/4) Braze	19.05(3/4) Braze
	Low pressure mm (in.)	22.2(7/8) Braze	22.2(7/8) Braze	22.2(7/8) Braze	22.2(7/8) Braze	22.2(7/8) Braze
Optional parts		Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1

Notes:

*1, *2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

*3 -5°C DB (23°F DB) / -6°C WB (21°F WB) to 21°C DB (70°F DB) / 15.5°C WB (60°F WB) with cooling/heating mixed operation.

*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

*Nominal condition *1, *2 are subject to JIS B8615-1.

*Due to continuing improvement, above specification may be subject to change without notice.

Outdoor unit

OUTDOOR UNIT R2 Series - High COP PURY-EP YSJM-A(1)(-BS)

► Specifications



Model	PURY-EP600YSJM-A1(-BS)		PURY-EP650YSJM-A(-BS)		PURY-EP700YSJM-A(-BS)	
Power source	3-phase 4-wire 380-400-415V 50/60Hz					
Cooling capacity (Nominal)	*1 kW	69.0	73.0	80.0		
	*1 BTU / h	235,400	249,100	273,000		
	Power input kW	17.82	19.01	21.22		
	Current input A	30.0-28.5-27.5	32.0-30.4-29.3	35.8-34.0-32.8		
	COP kW / kW	3.87	3.84	3.77		
Temp. range of cooling	*3 Indoor W.B.	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)	15.0-24.0°C(59-75°F)		
	*3 Outdoor D.B.	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)	-5.0-46.0°C(23-115°F)		
Heating capacity (Nominal)	*2 kW	76.5	81.5	88.0		
	*2 BTU / h	261,000	278,100	300,300		
	Power input kW	18.30	19.73	22.05		
	Current input A	30.8-29.3-28.2	33.3-31.6-30.4	37.2-35.3-34.0		
	COP kW / kW	4.18	4.13	3.99		
Temp. range of heating	*3 Indoor W.B.	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)	15.0-27.0°C(59-81°F)		
	*3 Outdoor W.B.	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)	-20.0-15.5°C(-4-60°F)		
Indoor unit connectable	Total capacity	50-150 % of outdoor unit capacity		50-150 % of outdoor unit capacity		
	Model / Quantity	P15-P250 / 2-50		P15-P250 / 2-50		
Sound pressure level (measured in anechoic room)	dB <A>	63.5	63.5	64		
Power pressure level (measured in anechoic room)	dB <A>	83.5	83.5	84		
Refrigerant piping diameter	High pressure mm (in.)	28.58(1-1/8) Braze	28.58(1-1/8) Braze	28.58(1-1/8) Braze		
	Low pressure mm (in.)	28.58(1-1/8) Braze	28.58(1-1/8) Braze	34.93(1-3/8) Braze		
Set Model						
Model	PURY-EP350YJM-A(-BS)	PURY-EP350YJM-A(-BS)	PURY-EP350YJM-A(-BS)	PURY-EP350YJM-A(-BS)	PURY-EP350YJM-A(-BS)	PURY-EP350YJM-A(-BS)
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 2		Propeller fan x 2
	Air flow rate m ³ /min	225	360	225	360	360
	L/s	3,750	6,000	3,750	6,000	6,000
	cfm	7,945	12,712	7,945	12,712	12,712
	Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor
	Motor output kW	0.92 x 1	0.92 x 2	0.92 x 1	0.92 x 2	0.92 x 2
	*4 External static press.	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor
	Starting method	Inverter		Inverter		Inverter
	Motor output kW	6.8	9.9	7.8	9.9	9.9
	Case heater kW	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)	0.045(240 V)
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760	1,710(1,650 without legs) x 1,750 x 760
	in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection
	Compressor	Over-heat protection		Over-heat protection		Over-heat protection
	Fan motor	Thermal switch		Thermal switch		Thermal switch
Refrigerant	Type x original charge	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
Net weight	kg (lbs)	270(596)	320(706)	270(596)	320(706)	320(706)
Heat exchanger		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube
Pipe between unit and distributor	High pressure mm (in.)	19.05(3/4) Braze	19.05(3/4) Braze	19.05(3/4) Braze	19.05(3/4) Braze	19.05(3/4) Braze
	Low pressure mm (in.)	22.2(7/8) Braze	22.2(7/8) Braze	22.2(7/8) Braze	22.2(7/8) Braze	22.2(7/8) Braze
Optional parts		Outdoor Twinning kit: CMY-R100XLVBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Outdoor Twinning kit: CMY-R100XLVBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Outdoor Twinning kit: CMY-R100XLVBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1

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	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
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*4 External static pressure option is available (30Pa, 60Pa / 3.1mmH₂O, 6.1mmH₂O).

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Outdoor Unit