

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	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	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
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)	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
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)	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	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 2
	*4 External static press.	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	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	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	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 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	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
Optional parts	Joint	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1
	BC controller	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1
	Main BC controller	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1
	Sub BC controller	CMB-P104, 108V-GB1, CMB-P1016V-HB1	CMB-P104, 108V-GB1, CMB-P1016V-HB1	CMB-P104, 108V-GB1, CMB-P1016V-HB1	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		
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	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		
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 / 1~40	P15-P250 / 1~45	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	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 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
	Type x Quantity	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method	Inverter	Inverter	Inverter	Inverter	Inverter
Motor output kW	5.4	5.4	5.4	6.8	7.8	
Case heater kW	0.035(240 V)	0.035(240 V)	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>	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 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 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 11.8kg (27lbs)	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-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	
	BC controller	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	
	Main BC controller	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	
	Sub BC controller	CMB-P104, 108V-GB1, CMB-P1016V-HB1	CMB-P104, 108V-GB1, CMB-P1016V-HB1	CMB-P104, 108V-GB1, CMB-P1016V-HB1	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 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	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	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	
	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)	
Temp. range of cooling *3	Indoor	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	-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	
	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)	
Temp. range of heating *3	Indoor	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	-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	
		L/s	3,083	3,750	6,000	
		cfm	6,532	7,945	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 1	0.92 x 1	
	External static press. *4	Type x Quantity	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
		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	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 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	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
Optional parts	Joint	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	
	BC controller	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	
	Main BC controller	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	
	Sub BC controller	CMB-P104, 108V-GB1, CMB-P1016V-HB1	CMB-P104, 108V-GB1, CMB-P1016V-HB1	CMB-P104, 108V-GB1, CMB-P1016V-HB1	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(-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		
	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)		
Temp. range of cooling *3	Indoor	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	-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		
	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)		
Temp. range of heating *3	Indoor	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	-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>	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	
	Air flow rate	m³/min	185	185	225	
		L/s	3,083	3,083	3,750	
		cfm	6,532	6,532	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	
	External static press. *4	Type x Quantity	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)	0 Pa (0 mmH₂O)
		Starting method	Inverter	Inverter	Inverter	Inverter
	Motor output	kW	5.4	5.4	6.8	7.8
	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>	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 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 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 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	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 11.8kg (27lbs)	R410A x 11.8kg (27lbs)	
Net weight	kg (lbs)	240(530)	240(530)	270(596)	320(706)	
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-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J1	
	BC controller	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	CMB-P104, 105, 106, 108, 1010, 1013, 1016V-G1	
	Main BC controller	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	CMB-P108, 1010, 1013, 1016V-GA1	
	Sub BC controller	CMB-P104, 108V-GB1, CMB-P1016V-HB1	CMB-P104, 108V-GB1, CMB-P1016V-HB1	CMB-P104, 108V-GB1, CMB-P1016V-HB1	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-EP500YSJM-A(1)(-BS)		PURY-EP550YSJM-A(1)(-BS)		PURY-EP600YSJM-A(1)(-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			
Power pressure level (measured in anechoic room)	dB <A>	83		83			
Refrigerant piping diameter	High pressure mm (in.)	22.2(7/8) Braze		28.58(1-1/8) Braze			
	Low pressure mm (in.)	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	m³/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					
	Motor output kW	0.92 x 1		0.92 x 1		0.92 x 1	
	*4 External static press.	0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
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	
	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>		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	
	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	
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)		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	
	Low pressure mm (in.)	22.2(7/8) Braze		22.2(7/8) Braze		22.2(7/8) Braze	
Optional parts		Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102S-G2, CMY-Y102L-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-Y102S-G2, CMY-Y102L-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-Y102S-G2, CMY-Y102L-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-A(1)(-BS)		PURY-EP650YSJM-A(1)(-BS)		PURY-EP700YSJM-A(1)(-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		64			
Power pressure level (measured in anechoic room)	dB <A>	83.5		84			
Refrigerant piping diameter	High pressure mm (in.)	28.58(1-1/8) Braze		28.58(1-1/8) Braze			
	Low pressure mm (in.)	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	m³/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					
	Motor output kW	0.92 x 1		0.92 x 2		0.92 x 2	
	*4 External static press.	0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)		0 Pa (0 mmH₂O)	
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		9.9	
	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>		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 1,750 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 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)		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	
	Low pressure mm (in.)	22.2(7/8) Braze		22.2(7/8) Braze		28.58(1-1/8) Braze	
Optional parts		Outdoor Twinning kit: CMY-R100VBK Joint: CMY-Y102S-G2, CMY-Y102L-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-Y102S-G2, CMY-Y102L-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-Y102S-G2, CMY-Y102L-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