

# HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YLM-A



## ► Specifications

Model		PQRY-P200YLM-A	PQRY-P250YLM-A	PQRY-P300YLM-A
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1 kW	22.4	28.0	33.5
	*1 kcal / h	20,000	25,000	30,000
	*1 BTU / h	76,400	95,500	114,300
	Power input kW	3.71	4.90	6.04
	Current input A	6.2-5.9-5.7	8.2-7.8-7.5	10.1-9.6-9.3
EER	kW / kW	6.03	5.71	5.54
Temp. range of cooling	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)
	Circulating water °C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2 kW	25.0	31.5	37.5
	*2 kcal / h	21,500	27,100	32,300
	*2 BTU / h	85,300	107,500	128,000
	Power input kW	3.97	5.08	6.25
	Current input A	6.7-6.3-6.1	8.5-8.1-7.8	10.5-10.0-9.6
COP	kW / kW	6.29	6.20	6.00
Temp. range of heating	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)
	Circulating water °C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity	50~150% of heat source unit capacity	50~150% of heat source 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>	46	48	54
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
Circulating water	Water flow rate	m <sup>3</sup> / h	5.76	5.76
		L/min	96	96
		cfm	3.4	3.4
	Pressure drop	kPa	24	24
	Operating volume range	m <sup>3</sup> / h	3.0 ~ 7.2	3.0 ~ 7.2
Compressor	Type	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method	Inverter	Inverter	Inverter
	Motor output kW	4.8	6.2	7.7
	Case heater	kW	—	—
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension HxWxD	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550
	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)	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
Refrigerant	Type x original charge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
Net weight	kg (lbs)	172 (380)	172 (380)	172 (380)
Heat exchanger			plate type	plate type
	Water volume in plate	L	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
Optional parts	Joint: CMY-Y102SSLS-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-Y102SSLS-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-Y102SSLS-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	Water temperature	Pipe length	Level difference
Cooling	27°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

\*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

\*The ambient relative humidity of the heat source unit needs to be kept below 80%.

\*The heat source unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

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

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



# HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YLM-A



## ► Specifications

Model	PQRY-P350YLM-A		PQRY-P400YLM-A		PQRY-P450YLM-A	
Power source	3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	40.0		50.0	
		kcal / h	35,000		45,000	
	*1	BTU / h	136,500		170,600	
		Power input kW	7.14		8.03	
		Current input A	12.0-11.4-11.0		13.5-12.8-12.4	
	EER	kW / kW	5.60		5.38	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)		15.0~24.0°C (59~75°F)	
	Circulating water	°C	10.0~45.0°C (50~113°F)		10.0~45.0°C (50~113°F)	
Heating capacity (Nominal)	*2	kW	45.0		56.0	
		kcal / h	40,000		50,000	
	*2	BTU / h	153,500		191,100	
		Power input kW	7.53		8.37	
		Current input A	12.7-12.0-11.6		14.1-13.4-12.9	
	COP	kW / kW	5.97		5.72	
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)		15.0~27.0°C (59~81°F)	
	Circulating water	°C	10.0~45.0°C (50~113°F)		10.0~45.0°C (50~113°F)	
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity		P15~P250/1~35		P15~P250/1~40	
Sound pressure level (measured in anechoic room)		dB <A>	52		54	
Refrigerant piping diameter	High pressure	mm (in.)	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	
Circulating water	Water flow rate	m <sup>3</sup> / h	7.20		7.20	
		L/min	120		120	
		cfm	4.2		4.2	
	Pressure drop	kPa	44		44	
	Operating volume range	m <sup>3</sup> / h	4.5 ~ 11.6		4.5 ~ 11.6	
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Starting method		Inverter		Inverter	
	Motor output	kW	9.5		10.7	
	Case heater	kW	-		-	
External finish			Galvanized steel sheets		Galvanized steel sheets	
External dimension HxWxD		mm	1,450 x 880 x 550		1,450 x 880 x 550	
		in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)		R410A x 6.0 kg (14 lbs)	
Net weight		kg (lbs)	216 (477)		216 (477)	
Heat exchanger			plate type		plate type	
	Water volume in plate	L	5.0		5.0	
	Water pressure Max.	MPa	2.0		2.0	
Optional parts			Joint: CMY-Y102SS/LS-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/LS-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	Water temperature	Pipe length	Level difference
Cooling	27°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

\*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

\*The ambient relative humidity of the heat source unit needs to be kept below 80%.

\*The heat source unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

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

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

### Outdoor Unit

# HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YLM-A



## ► Specifications

Model		PQRY-P500YLM-A	PQRY-P550YLM-A	PQRY-P600YLM-A
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz	3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1 kW	56.0	63.0	69.0
	*1 kcal / h	50,000	55,000	60,000
	*1 BTU / h	191,100	215,000	235,400
	Power input kW	11.17	12.54	14.49
	Current input A	18.8-17.9-17.2	21.1-20.1-19.3	24.4-23.2-22.3
EER	kW / kW	5.01	5.02	4.76
Temp. range of cooling	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)
	Circulating water °C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2 kW	63.0	69.0	76.5
	*2 kcal / h	55,000	60,000	65,800
	*2 BTU / h	215,000	235,400	261,000
	Power input kW	11.43	12.27	14.51
	Current input A	19.2-18.3-17.6	20.7-19.6-18.9	24.4-23.2-22.4
COP	kW / kW	5.51	5.62	5.27
Temp. range of heating	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)
	Circulating water °C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity	50~150% of heat source unit capacity	50~150% of heat source unit capacity
	Model / Quantity	P15~P250/1~50	P15~P250/2~50	P15~P250/2~50
Sound pressure level (measured in anechoic room)	dB <A>	54	56.5	56.5
Refrigerant piping diameter	High pressure mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)
	Low pressure mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed
Circulating water	Water flow rate m <sup>3</sup> / h	7.20	11.52	11.52
	L/min	120	192	192
	cfm	4.2	6.8	6.8
	Pressure drop kPa	44	45	45
	Operating volume range m <sup>3</sup> / h	4.5 ~ 11.6	6.0 ~ 14.4	6.0 ~ 14.4
Compressor	Type	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method	Inverter	Inverter	Inverter
	Motor output kW	13.0	15.0	16.1
	Case heater kW	—	0.045 (240 V)	0.045 (240 V)
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets
External dimension HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550
	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)	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
Refrigerant	Type x original charge	R410A x 6.0 kg (14 lbs)	R410A x 11.7 kg (26 lbs)	R410A x 11.7 kg (26 lbs)
Net weight	kg (lbs)	216 (477)	246 (543)	246 (543)
Heat exchanger		plate type	plate type	plate type
	Water volume in plate L	5.0	10.0	10.0
	Water pressure Max. MPa	2.0	2.0	2.0
Optional parts		Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1	Joint: CMY-Y102SS/LS-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	Water temperature	Pipe length	Level difference
Cooling	27°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

\*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

\*The ambient relative humidity of the heat source unit needs to be kept below 80%.

\*The heat source unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

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

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



# HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YSLM-A



## ► Specifications

Model		PQRY-P400YSLM-A		PQRY-P450YSLM-A		PQRY-P500YSLM-A		
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	45.0	50.0	56.0	50,000	56,000	
		kcal / h	40,000	45,000	50,000	191,100	215,000	
	*1	BTU / h	153,500	170,600	191,100	191,100	215,000	
		Power input kW	7.70	8.78	10.12			
		Current input A	12.9-12.3-11.9	14.8-14.0-13.5	17.0-16.2-15.6			
	EER	kW / kW	5.84	5.69	5.53			
Temp. range of cooling	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)			
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)			
Heating capacity (Nominal)	*2	kW	50.0	56.0	63.0	55,000	63,000	
		kcal / h	45,000	50,000	55,000	215,000	250,000	
	*2	BTU / h	170,600	191,100	215,000	215,000	250,000	
		Power input kW	7.94	8.97	10.16			
		Current input A	13.4-12.7-12.2	15.1-14.3-13.8	17.1-16.2-15.7			
	COP	kW / kW	6.29	6.24	6.20			
Temp. range of heating	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)			
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)			
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity	50~150% of heat source 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>	49	50	51			
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			
<b>Set Model</b>								
Model		PQRY-P200YLM-A		PQRY-P250YLM-A		PQRY-P250YLM-A		
Circulating water	Water flow rate	m <sup>3</sup> / h	5.76 + 5.76		5.76 + 5.76		5.76 + 5.76	
		L/min	96 + 96		96 + 96		96 + 96	
		cfm	3.4 + 3.4		3.4 + 3.4		3.4 + 3.4	
	Pressure drop	kPa	24	24	24	24	24	24
	Operating volume range	m <sup>3</sup> / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method	Inverter		Inverter		Inverter		
	Motor output	kW	4.8	4.8	6.2	4.8	6.2	6.2
	Case heater	kW	-		-		-	
External finish	Galvanized steel sheets							
External dimension HxWxD	mm	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	1,100 x 880 x 550	
	in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP.)	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		
Refrigerant	Type x original charge	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)	
Net weight	kg (lbs)	172 (380)	172 (380)	172 (380)	172 (380)	172 (380)	172 (380)	
Heat exchanger		plate type						
	Water volume in plate	L	5.0	5.0	5.0	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0	2.0	
Optional parts		Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-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	Water temperature	Pipe length	Level difference
Cooling	27°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

\*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

\*The ambient relative humidity of the heat source unit needs to be kept below 80%.

\*The heat source unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

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

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

### Outdoor Unit

# HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YSLM-A



## ► Specifications

Model		PQRY-P550YSLM-A		PQRY-P600YSLM-A		PQRY-P700YSLM-A								
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz								
Cooling capacity (Nominal)	*1	kW	63.0	69.0	80.0									
		kcal / h	55,000	60,000	68,800									
		BTU / h	215,000	235,400	273,000									
		Power input	kW	11.55	12.84	14.73								
		Current input	A	19.4-18.5-17.8	21.6-20.5-19.8	24.8-23.6-22.7								
	EER	kW / kW	5.45	5.37	5.43									
Temp. range of cooling	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)									
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)									
Heating capacity (Nominal)	*2	kW	69.0	76.5	88.0									
		kcal / h	60,000	65,800	75,700									
		BTU / h	235,400	261,000	300,300									
		Power input	kW	11.31	12.75	14.73								
		Current input	A	19.0-18.1-17.4	21.5-20.4-19.7	24.8-23.6-22.7								
	COP	kW / kW	6.10	6.00	5.97									
Temp. range of heating	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)									
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)									
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity	50~150% of heat source unit capacity	50~150% of heat source unit capacity									
	Model / Quantity		P15~P250/2~50	P15~P250/2~50	P15~P250/2~50									
Sound pressure level (measured in anechoic room)		dB <A>	55	57	55									
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	22.2 (7/8) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)	28.58 (1-1/8) Brazed									
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	34.93 (1-3/8) Brazed	34.93 (1-3/8) Brazed									
<b>Set Model</b>														
Model		PQRY-P300YLM-A		PQRY-P250YLM-A		PQRY-P300YLM-A		PQRY-P300YLM-A		PQRY-P350YLM-A		PQRY-P350YLM-A		
Circulating water	Water flow rate	m <sup>3</sup> / h	5.76 + 5.76		5.76 + 5.76		7.20 + 7.20		7.20 + 7.20		12.0 + 12.0		4.2 + 4.2	
		L/min	96 + 96		96 + 96		120 + 120		120 + 120		120 + 120		4.2 + 4.2	
	Pressure drop	kPa	24	24	24	24	44	44	44	44	44	44	44	44
	Operating volume range	m <sup>3</sup> / h	3.0 + 3.0 ~ 7.2 + 7.2		3.0 + 3.0 ~ 7.2 + 7.2		4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type	Inverter scroll hermetic compressor				Inverter scroll hermetic compressor				Inverter scroll hermetic compressor				
	Starting method	Inverter		Inverter		Inverter		Inverter		Inverter		Inverter		
	Motor output	kW		7.7		6.2		7.7		7.7		9.5		
	Case heater	kW		-		-		-		-		-		
External finish		Galvanized steel sheets				Galvanized steel sheets				Galvanized steel sheets				
External dimension HxWxD	mm	1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		1,100 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		
	in.	43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		43-5/16 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit (COMP.)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		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		Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 5.0 kg (12 lbs)		R410A x 5.0 kg (12 lbs)		R410A x 5.0 kg (12 lbs)		R410A x 5.0 kg (12 lbs)		R410A x 6.0 kg (14 lbs)		R410A x 6.0 kg (14 lbs)		
Net weight	kg (lbs)	172 (380)		172 (380)		172 (380)		172 (380)		216 (477)		216 (477)		
Heat exchanger			plate type		plate type		plate type		plate type		plate type		plate type	
	Water volume in plate	L	5.0		5.0		5.0		5.0		5.0		5.0	
	Water pressure Max.	MPa	2.0		2.0		2.0		2.0		2.0		2.0	
Optional parts		Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1				Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1				Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-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	Water temperature	Pipe length	Level difference
Cooling	27°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

\*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

\*The ambient relative humidity of the heat source unit needs to be kept below 80%.

\*The heat source unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

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

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



# HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YSLM-A



## ► Specifications

Model		PQRY-P750YSLM-A		PQRY-P800YSLM-A	
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	85.0	90.0	
	*1	kcal / h	73,100	77,400	
		BTU / h	290,000	307,100	
	Power input	kW	15.64	16.57	
		A	26.4-25.0-24.1	27.9-26.5-25.6	
EER	kW / kW	5.43	5.43		
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	
Heating capacity (Nominal)	*2	kW	95.0	100.0	
	*2	kcal / h	81,700	86,000	
		BTU / h	324,100	341,200	
	Power input	kW	15.90	16.75	
		A	26.8-25.4-24.5	28.2-26.8-25.8	
COP	kW / kW	5.97	5.97		
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)	
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity	
	Model / Quantity	P15~P250/2~50		P15~P250/2~50	
Sound pressure level (measured in anechoic room)	dB <A>	55		55	
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		PQRY-P400YLM-A		PQRY-P350YLM-A		PQRY-P400YLM-A		PQRY-P400YLM-A		
Circulating water	Water flow rate	m <sup>3</sup> / h	7.20 + 7.20		7.20 + 7.20					
		L/min	120 + 120		120 + 120					
		cfm	4.2 + 4.2		4.2 + 4.2					
	Pressure drop	kPa	44	44	44	44				
Operating volume range	m <sup>3</sup> / h	4.5 + 4.5 ~ 11.6 + 11.6				4.5 + 4.5 ~ 11.6 + 11.6				
Compressor	Type	Inverter scroll hermetic compressor				Inverter scroll hermetic compressor				
	Starting method	Inverter		Inverter		Inverter		Inverter		
	Motor output	10.7		9.5		10.7		10.7		
	Case heater	-		-		-		-		
External finish	Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets		Galvanized steel sheets			
External dimension HxWxD	mm	1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		1,450 x 880 x 550		
	in.	57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		57-1/8 x 34-11/16 x 21-11/16		
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				High pressure sensor, High pressure switch at 4.15 MPa (601 psi)				
	Inverter circuit (COMP.)	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		
Refrigerant	Type x original charge	R410A x 6.0 kg (14 lbs)		R410A x 6.0 kg (14 lbs)		R410A x 6.0 kg (14 lbs)		R410A x 6.0 kg (14 lbs)		
Net weight	kg (lbs)	216 (477)		216 (477)		216 (477)		216 (477)		
Heat exchanger			plate type		plate type		plate type		plate type	
	Water volume in plate	L	5.0		5.0		5.0		5.0	
	Water pressure Max.	MPa	2.0		2.0		2.0		2.0	
Optional parts	Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1				Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					

### Notes:

\*1,\*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference
Cooling	27°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

\*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

\*The ambient relative humidity of the heat source unit needs to be kept below 80%.

\*The heat source unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

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

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

### Outdoor Unit

# HEAT SOURCE UNIT WR2 (Heat Recovery) Series PQRY-P YSLM-A



## ► Specifications

Model		PQRY-P850YSLM-A		PQRY-P900YSLM-A		
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	96.0	101.0		
	*1	kcal / h	82,600	86,900		
		BTU / h	327,600	344,600		
	Power input	kW	18.03	19.38		
		A	30.4-28.9-27.8	32.7-31.0-29.9		
EER	kW / kW	5.32	5.21			
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)		
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)		
Heating capacity (Nominal)	*2	kW	108.0	113.0		
	*2	kcal / h	92,900	97,200		
		BTU / h	368,500	385,600		
	Power input	kW	18.49	19.74		
		A	31.2-29.6-28.5	33.3-31.6-30.5		
COP	kW / kW	5.84	5.72			
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)		
	Circulating water	°C	10.0~45.0°C (50~113°F)	10.0~45.0°C (50~113°F)		
Indoor unit connectable	Total capacity	50~150% of heat source unit capacity		50~150% of heat source unit capacity		
	Model / Quantity	P15~P250/2~50		P15~P250/2~50		
Sound pressure level (measured in anechoic room)	dB <A>	56		57		
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed		
	Low pressure	mm (in.)	41.28 (1-5/8) Brazed	41.28 (1-5/8) Brazed		
<b>Set Model</b>						
Model		PQRY-P450YLM-A		PQRY-P400YLM-A		
Circulating water	Water flow rate	m <sup>3</sup> / h	7.20 + 7.20	7.20 + 7.20		
		L/min	120 + 120	120 + 120		
		cfm	4.2 + 4.2	4.2 + 4.2		
	Pressure drop	kPa	44	44	44	44
	Operating volume range	m <sup>3</sup> / h	4.5 + 4.5 ~ 11.6 + 11.6		4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Starting method	Inverter	Inverter	Inverter	Inverter	
	Motor output	kW	11.6	10.7	11.6	11.6
	Case heater	kW	-	-	-	-
External finish		Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	Galvanized steel sheets	
External dimension HxWxD	mm	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	1,450 x 880 x 550	
	in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP.)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor	Over-heat protection		Over-heat protection		
Refrigerant	Type x original charge	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)	
Net weight	kg (lbs)	216 (477)	216 (477)	216 (477)	216 (477)	
Heat exchanger			plate type	plate type	plate type	plate type
	Water volume in plate	L	5.0	5.0	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0	2.0	2.0
Optional parts	Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		

### Notes:

\*1,\*2 Nominal conditions

	Indoor	Water temperature	Pipe length	Level difference
Cooling	27°C D.B./19°C W.B. (81°F D.B./66°F W.B.)	30°C (86°F)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C D.B. (68°F D.B.)	20°C (68°F)		

\*The ambient temperature of the heat source unit needs to be kept below 40°C D.B.

\*The ambient relative humidity of the heat source unit needs to be kept below 80%.

\*The heat source unit should not be installed at outdoor.

\*Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.

\*Be sure to provide interlocking for the unit operation and water circuit.

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

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

