

# HEAT SOURCE UNIT WY (Heat Pump) Series PQHY-P YLM-A

NEW



## ► Specifications

Model		PQHY-P200YLM-A		PQHY-P250YLM-A		PQHY-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			
		kcal / h	20,000	25,000	30,000			
		BTU / h	76,400	95,500	114,300			
	Power input	kW	3.71	4.90	6.04			
		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			
		kcal / h	21,500	27,100	32,300			
		BTU / h	85,300	107,500	128,000			
	Power input	kW	3.97	5.08	6.25			
		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	50~130% of heat source unit capacity		50~130% of heat source unit capacity		50~130% of heat source unit capacity		
	Model / Quantity	P15~P250/1~17		P15~P250/1~21		P15~P250/1~26		
Sound pressure level (measured in anechoic room)		46		48		54		
Refrigerant piping diameter	Liquid pipe	mm (in.)	9.52 (3/8) Brazed	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 90 m)	9.52 (3/8) Brazed (12.7 (1/2) Brazed, farthest length >= 40 m)			
	Gas pipe	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	5.76			
		L/min	96	96	96			
		cfm	3.4	3.4	3.4			
	Pressure drop	kPa	24	24	24			
		Operating volume range	m <sup>3</sup> / h	3.0 ~ 7.2	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	4.8		6.2		7.7		
	Case heater	-		-		-		
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)	174 (384)		174 (384)		174 (384)		
Heat exchanger			plate type		plate type		plate type	
	Water volume in plate	L	5.0		5.0		5.0	
	Water pressure Max.	MPa	2.0		2.0		2.0	
Optional parts	Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104, 108, 1010-G		Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104, 108, 1010-G		Joint: CMY-Y102SS/LS-G2 Header: CMY-Y104, 108, 1010-G			

### 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 WY (Heat Pump) Series PQHY-P YLM-A

NEW



## ► Specifications

Model	PQHY-P350YLM-A		PQHY-P400YLM-A		PQHY-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	45.0	50.0	
		kcal / h	35,000	40,000	45,000	
	*1	BTU / h	136,500	153,500	170,600	
		Power input	kW	7.14	8.03	9.29
	Current input	A	12.0-11.4-11.0	13.5-12.8-12.4	15.6-14.8-14.3	
EER	kW / kW	5.60	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)	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	45.0	50.0	56.0	
		kcal / h	40,000	45,000	50,000	
	*2	BTU / h	153,500	170,600	191,100	
		Power input	kW	7.53	8.37	9.79
	Current input	A	12.7-12.0-11.6	14.1-13.4-12.9	16.5-15.7-15.1	
COP	kW / kW	5.97	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)	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	50~130% of heat source unit capacity		50~130% of heat source unit capacity		
	Model / Quantity	P15~P250/1~30		P15~P250/1~34		
Sound pressure level (measured in anechoic room)	Model / Quantity	P15~P250/1~30		P15~P250/1~39		
Refrigerant piping diameter	Liquid pipe	mm (in.)	12.7 (1/2) Braze	15.88 (5/8) Braze	15.88 (5/8) Braze	
	Gas pipe	mm (in.)	28.58 (1-1/8) Braze	28.58 (1-1/8) Braze	28.58 (1-1/8) Braze	
Circulating water	Water flow rate	m <sup>3</sup> / h	7.20	7.20	7.20	
		L/min	120	120	120	
		cfm	4.2	4.2	4.2	
	Pressure drop	kPa	44	44	44	
	Operating volume range	m <sup>3</sup> / h	4.5 ~ 11.6	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	11.6	
	Case heater	kW	—	—	—	
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		
	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)	217 (479)		217 (479)		
Heat exchanger	plate type		plate type		plate type	
	Water volume in plate	L	5.0	5.0	5.0	
	Water pressure Max.	MPa	2.0	2.0	2.0	
Optional parts	Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G	

### 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 WY (Heat Pump) Series PQHY-P YLM-A

NEW



## ► Specifications

Model	PQHY-P500YLM-A		PQHY-P550YLM-A		PQHY-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			
		kcal / h	50,000		55,000			
	*1	BTU / h	191,100		215,000			
		Power input kW	11.17		12.54			
		Current input A	18.8-17.9-17.2		21.1-20.1-19.3			
	EER	kW / kW	5.01		5.02			
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	63.0		69.0			
		kcal / h	55,000		60,000			
	*2	BTU / h	215,000		235,400			
		Power input kW	11.43		12.27			
		Current input A	19.2-18.3-17.6		20.7-19.6-18.9			
	COP	kW / kW	5.51		5.62			
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	50~130% of heat source unit capacity		50~130% of heat source unit capacity		50~130% of heat source unit capacity		
	Model / Quantity	P15~P250/1~43		P15~P250/2~47		P15~P250/2~50		
Sound pressure level (measured in anechoic room)	dB <A>	54		56.5		56.5		
Refrigerant piping diameter	Liquid pipe	mm (in.)	15.88 (5/8) Brazed		15.88 (5/8) Brazed		15.88 (5/8) Brazed	
	Gas pipe	mm (in.)	28.58 (1-1/8) Brazed		28.58 (1-1/8) Brazed		28.58 (1-1/8) 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)	217 (479)		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-Y202S-G2 Header: CMY-Y104, 108, 1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G		Joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104, 108, 1010-G			

### 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 WY (Heat Pump) Series PQHY-P YSLM-A

NEW



## ► Specifications

Model		PQHY-P700YSLM-A		
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	80.0	
		kcal / h	68,800	
		BTU / h	273,000	
	*1	kW	14.73	
		A	24.8-23.6-22.7	
	EER	kW / kW	5.43	
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Circulating water	°C	10.0~45.0°C (50~113°F)	
Heating capacity (Nominal)	*2	kW	88.0	
		kcal / h	75,700	
		BTU / h	300,300	
	*2	kW	14.73	
		A	24.8-23.6-22.7	
	COP	kW / kW	5.97	
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Circulating water	°C	10.0~45.0°C (50~113°F)	
Indoor unit connectable	Total capacity	50~130% of heat source unit capacity		
	Model / Quantity	P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	55	
Refrigerant piping diameter	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed	
<b>Set Model</b>				
Model		PQHY-P350YLM-A	PQHY-P350YLM-A	
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 + 4.5 ~ 11.6 + 11.6	
Compressor	Type	Inverter scroll hermetic compressor		
	Starting method	Inverter	Inverter	
	Motor output	kW	9.5	9.5
	Case heater	kW	—	—
External finish	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)		
	Inverter circuit (COMP.)	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)	217 (479)	217 (479)	
Heat exchanger	plate type			
	Water volume in plate	L	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
Optional parts	Heat Source Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G			

### 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 WY (Heat Pump) Series PQHY-P YSLM-A

NEW



## ► Specifications

Model		PQHY-P750YSLM-A		PQHY-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					
		Current input	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					
		Current input	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	50~130% of heat source unit capacity		50~130% 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	Liquid pipe	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed						
	Gas pipe	mm (in.)	34.93 (1-3/8) Brazed	34.93 (1-3/8) Brazed						
<b>Set Model</b>										
Model		PQHY-P400YLM-A		PQHY-P350YLM-A		PQHY-P400YLM-A		PQHY-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)	217 (479)		217 (479)		217 (479)		217 (479)		
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-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G				Heat Source Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G					

### 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 WY (Heat Pump) Series PQHY-P YSLM-A

NEW



## ► Specifications

Model		PQHY-P850YSLM-A		PQHY-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		
		kcal / h	82,600	86,900		
	*1	BTU / h	327,600	344,600		
		Power input	kW	18.03	19.38	
		Current input	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		
		kcal / h	92,900	97,200		
	*2	BTU / h	368,500	385,600		
		Power input	kW	18.49	19.74	
		Current input	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	50~130% of heat source unit capacity		50~130% 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	Liquid pipe	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Gas pipe	mm (in.)	41.28 (1-5/8) Brazed		41.28 (1-5/8) Brazed	
<b>Set Model</b>						
Model		PQHY-P450YLM-A		PQHY-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		
	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	
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)	217 (479)		217 (479)		
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	Heat Source Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G		Heat Source Twinning kit: CMY-Y200VBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202, 302S-G2 Header: CMY-Y104, 108, 1010-G			

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Outdoor Unit