CITYMULTI®

Model: 10-TON PQHY-P120TLMU-A

MITSUBISHI ELECTRIC

Job Name:	
System Reference:	Date:



MODULAR WATER-SOURCE VRF HEAT PUMP SYSTEM

ACCESSORIES

Joint Kit ..... For details see Pipe Accessories Submittal
Header Kit ..... For details see Pipe Accessories Submittal

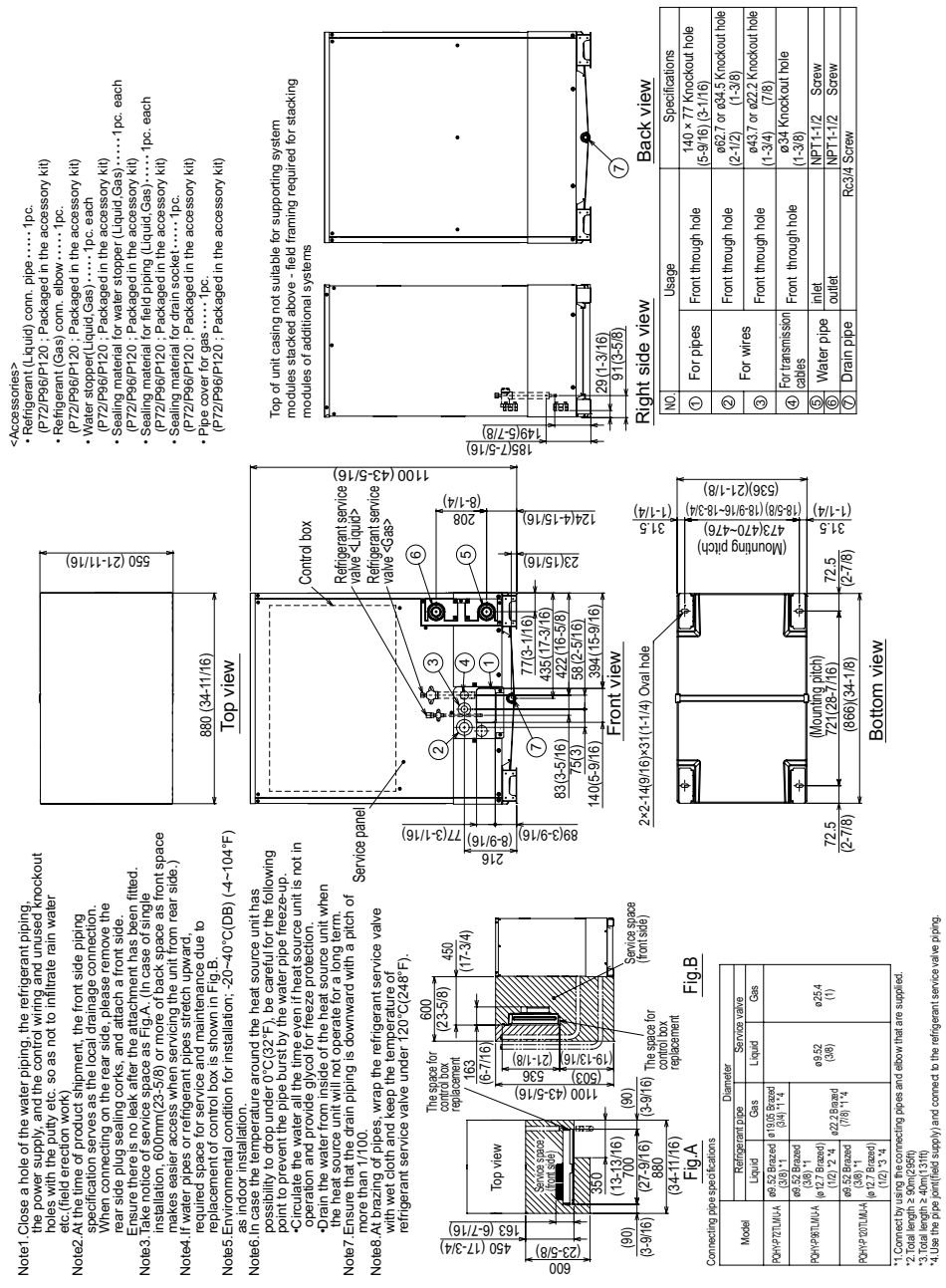
Specifications		Model Name
Unit Type		PQHY-P120TLMU-A
Nominal Cooling Capacity (208/230V)	Btu/h	120,000
Nominal Heating Capacity 208/230V)	Btu/h	135,000
Operating Temperature Range	Cooling (Indoor)	59~75° F 15~24° C) WB
	Heating (Indoor)	59~81° F (15~27° C) DB
Operating Water Temperature Range	Cooling	50~113° F (10~45° C)
	Heating	50~113° F (10~45° C)
External Dimensions (H x W x D)	In. (mm)	43-5/16 x 34-11/16 x 21-11/16 (1100 x 880 x 550)
Net Weight	Lbs. (kg)	384 (174)
External Finish		Galvanized steel sheet
Electrical Power Requirements	Voltage, Phase, Hertz	208 / 230V, 3-phase, 60Hz
Minimum Circuit Ampacity (MCA)	A	29 / 26
Maximum Overcurrent Protection (MOP)	A	50/45
Circulating Water (quality must meet regulations)		
Flow Rate	GPM / L/s	25.4 / 1.6
Pressure Drop	FT / psi	8.0 / 3.48
Operation Volume Range	GPM / L/m	13.2 - 31.7 / 50 - 120
Maximum Water Pressure	MPa / psi	2 / 290
Water-source Connection for Inlet and Outlet	In.	1-1/2 NPT
Piping Diameter (Brazed) (In. / mm)	Liquid (High Pressure)	3/8 / 9.52
	Gas (Low Pressure)	7/8 / 22.20
Max. Total Refrigerant Line Length	Ft.	984
Max. Refrigerant Line Length (Between ODU & IDU)	Ft.	541
Max. Control Wiring Length	Ft.	1,640
Indoor Unit	Total Capacity	50~130
	Model / Quantity	P6~P96/1~26
Sound Pressure Levels	dB(A)	54
Compressor Operating Range		14% - 100%
Compressor Type x Quantity		Inverter scroll hermetic compressor x 1
Refrigerant		R410A x 11 lbs. + 1 oz. (5.0 kg)
Protection Devices	High Pressure	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter Circuit	Over-heat protection, Over-current protection
	Compressor	Over-heat protection
AHRI Ratings (Ducted/Non-Ducted)	EER	13.5 / 15.9
	IEER	23.2 / 29
	COP	5.55 / 5.66

Specifications are subject to change without notice.

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Model:PQHY-P120TLMU-A- DIMENSIONS

Unit : mm(in)



Note1.Close a hole of the water piping, the refrigerant piping, the power supply, and the control wiring and unused knockout holes with the putty etc. so as not to infiltrate rain water etc.(field erection work).
Note2.At the time of product shipment, the front side piping specification serves as the local drainage connection. When connecting on the rear side, please remove the rear side plug sealing corks, and attach a front side. Ensure there is no leak after the attachment has been fitted.
Note3.Take notice of service space as Fig.A. (In case of single installation, 600mm(23-5/8) or more of back space as front space makes easier access when servicing the unit from rear side.)
Note4.If water pipes or refrigerant pipes stretch upward, required space for service and maintenance due to replacement of control box is shown in Fig.B.
Note5.Environmental condition for installation: -20~40°C(DB) (-4~104°F) as indoor installation.
Note6.In case the temperature around the heat source unit has possibility to drop under 0°C(32°F), be careful for the following point to prevent the pipe burst by the water pipe freeze-up.
•Circulate the water all the time even if heat source unit is not in operation and provide glycol for freeze protection.
•Drain the water from inside of the heat source unit when the heat source unit will not operate for a long term.
Note7.Ensure that the drain piping is downward with a pitch of more than 1/100.
Note8.At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Refrigerant pipe Diameter		Service valve Diameter	
	Liquid	Gas	Liquid	Gas
PQHY-P72TLMU-A	ø9.52 Brazed (3/8) *1	ø19.05 Brazed (3/4) *1*4	ø9.52 (3/8)	ø25.4 (1)
PQHY-P96TLMU-A	ø9.52 Brazed (3/8) *1 (ø12.7 Brazed) (1/2) *2*4	ø22.2 Brazed (7/8) *1*4		
PQHY-P120TLMU-A	ø9.52 Brazed (3/8) *1 (ø12.7 Brazed) (1/2) *3 *4			

*1.Connect by using the connecting pipes and elbow that are supplied.
*2.Total length ≤ 90m(295ft)
*3.Total length ≤ 40m(131ft)
*4.Use the pipe joint(field supply) and connect to the refrigerant service valve piping.

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COOLING & HEATING

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