

Job Name:

Schedule Reference:

Date:

ACCESSORIES

VRF HEAT PUMP WITH HEAT
RECOVERY SYSTEM

UNIT OPTION

☐ Standard Model PQRV-P216TSLMU-A1

Twinning Kit (Required - sold separately)..... CMY-Q100CBK2
 BC Controller Main CMB-P108,1012,1016NU-JA1, CMB-P1016NU-KA1
 BC Controller Sub CMB-P104,108NU-KB1
 Joint Adapter (Port Connector > 54,000 Btu/h)..... CMY-R160-J1
 Branch Joint (Downstream capacity ≤72,000 Btu/h)..... CMY-Y102SS-G2
 Branch Joint (Downstream capacity 73,000-96,000 Btu/h)..... CMY-Y102LS-G2
 T-Branch Joint (145,000 - 234,000 Btu/h) CMY-Y202S-G2
 T-Branch Joint (≥ 235,000 Btu/h) CMY-Y302S-G2
 Branch Joint (Downstream capacity ≤126,000 Btu/h) CMY-R201S-G
 Branch Joint (Downstream capacity 127,000-216,000 Btu/h)..... CMY-R202S-G
 Branch Joint (Downstream capacity 217,000-234,000 Btu/h)..... CMY-R203S-G
 Branch Joint (Downstream capacity 235,000-360,000 Btu/h)..... CMY-R204S-G
 Reducer (Between ODU and BC)..... CMY-R302S-G1
 Reducer (Between Main and Sub BC)..... CMY-R303S-G1
 Reducer (Between Main and Sub BC)..... CMY-R304S-G1
 Reducer (Between Main and Sub BC)..... CMY-R305S-G1
 Reducer (Between Main and Sub BC)..... CMY-R306S-G

Unit Type		PQRY-P1216TSLMU-A1	PQRY-P120TLMU-A1	PQRY-P96TLMU-A1
Nominal Cooling Capacity	Btu/h	216,000	120,000	96,000
Nominal Heating Capacity	Btu/h	243,000	135,000	108,000
External Dimensions (H x W x D)	In. / mm	Refer to Module Data	43-5/16 x 34-11/16 x 21-11/16 / 1,100 x 880 x 550	43-5/16 x 34-11/16 x 21-11/16 / 1,100 x 880 x 550
Net Weight	Lbs. / kg	760 / 344	380 / 172	380 / 172
Electrical Power Requirements	Voltage, Phase, Hertz	Refer to Module Data**	208/230V, 3-phase, 60Hz	
Cooling Power Input	kW	14.03	Refer to System Data	
Heating Power Input	kW	12.88		
Cooling Current (208/230V)	A	43.2 / 39.1	Refer to System Data	
Heating Current (208/230V)	A	39.7 / 35.9		
Minimum Circuit Amp. (MCA)** (*)	A	Refer to Module Data**	29 / 26**	19 / 17**
Maximum Fuse Size**	A	Refer to Module Data**	50 / 45**	30 / 25**
Circulating Water (quality must meet regulations)				
Flow Rate	GPM / L/s	50.8 / 3.2	25.4 / 1.6	25.4 / 1.6
Pressure Drop	psi	6.96	3.48	3.48
Operation Volume Range	GPM / L/s	26.4 - 63.4 / 1.6 - 4	13.2 - 31.7 / 0.8 - 2	13.2 - 31.7 / 0.8 - 2
Maximum Water Pressure	MPa / psi	4 / 580	2 / 290	2 / 290
Water-source Connections (Each for Inlet and Outlet)	In.	Refer to Module Data**	NPT1-1/2 Screw (Install strainer (more than 50 meshes) at water inlet piping of the unit)	
Piping Diameter			Refer to System Data	
From Twinning Kit to Indoor Units (Brazed) (In. / mm)	Liquid (High Pressure)	7/8 / 22.2(1-1/8 / 28.58)		
	Gas (Low Pressure)	1-1/8 / 28.58		
From Modules to Twinning Kit (Brazed) (In. / mm)	Liquid (High Pressure)	Refer to Module Data	3/4 / 19.05	3/4 / 19.05
	Gas (Low Pressure)			7/8 / 22.2
Indoor Unit	Total Capacity	50 to 150% of WSUs	Refer to System Data	
	Model / Quantity	P06 ~ P96 / 2 to 50		
Sound Pressure Levels	dB(A)	55	54	48
Compressor Operating Range		8 - 100%	Refer to System Data	
Compressor Type x Quantity		Refer to Module Data	Inverter-driven Scroll Hermetic x 1	Inverter-driven Scroll Hermetic x 1
Compressor Motor Output	kW		7.7	6.0
Compressor Crankcase Heater	kW		-	-
Refrigerant		Refer to Module Data	R410A	
Lubricant			MEL32	
High-pressure Protection Device		Refer to Module Data	601 psi / 4.15 MPa	601 psi / 4.15 MPa
Compressor / Fan Protection Device			Overheat Protection	Overheat Protection
Inverter Protection Device			Overheat / Overcurrent Protection	Overheat / Overcurrent Protection

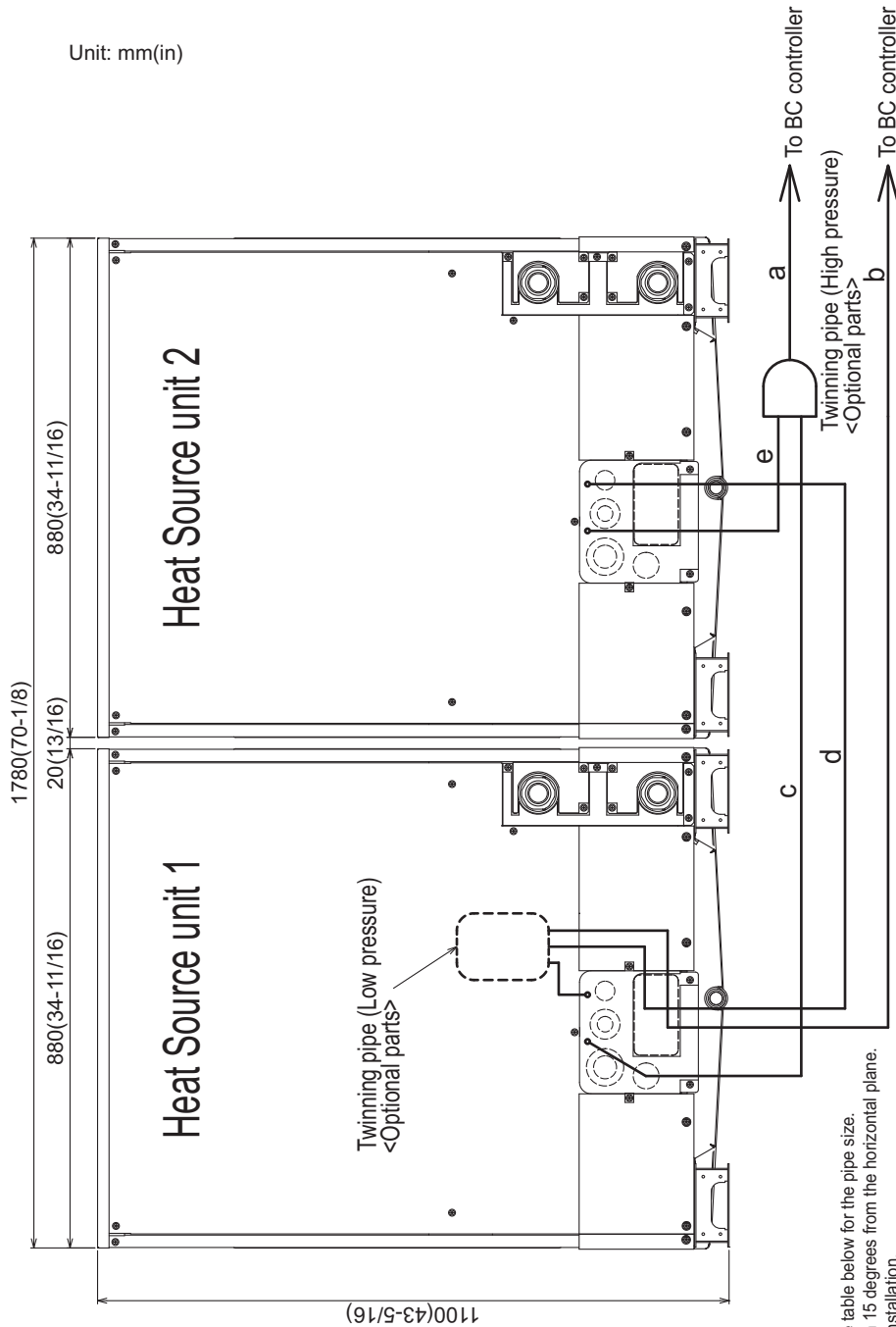
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Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved accessories for proper functioning of the unit(s).
 Use of non-MESCA supported accessories will affect warranty coverage.

Specifications are subject to change without notice.



Unit: mm(in)



- Note 1. Connect the pipes as shown in the figure above. Refer to the table below for the pipe size.
 2. Twinning pipe (high pressure) should not be tilted more than 15 degrees from the horizontal plane.
 3. See the Installation Manual for the details of Twinning pipe installation.
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

Twinning pipe connection size

Package unit name		PQRY-P144TSLMU-A1	PQRY-P168TSLMU-A1	PQRY-P192TSLMU-A1	PQRY-P216TSLMU-A1	PQRY-P240TSLMU-A1
Component unit name	Heat Source unit 1	PQRY-P72TLMU-A1	PQRY-P96TLMU-A1	PQRY-P120TLMU-A1	PQRY-P120TLMU-A1	PQRY-P120TLMU-A1
	Heat Source unit 2	PQRY-P72TLMU-A1	PQRY-P72TLMU-A1	PQRY-P96TLMU-A1	PQRY-P96TLMU-A1	PQRY-P120TLMU-A1
Twinning pipe Kit(optional parts)		CMY-Q100CBK2				
BC controller~ Twinning pipe	High pressure	ø22.2(7/8)				
	Low pressure	ø28.58(1-1/8)				

Unit model	High pressure		Low pressure	
	c or e	d	c or e	d
Twinning pipe~Heat source unit	P72	ø15.88(5/8) *2	ø19.05(3/4) *2	
	P96	ø19.05(3/4)	ø22.2(7/8)	
	P120			

*1. When the piping length is 65 m or longer, use the ø28.58(1-1/8) pipe for the part that exceeds 65 m.

*2. When the package unit name "PQRY-P168TSLMU-A1", use the ø19.05(3/4) pipe for high pressure and the ø22.2(7/8) pipe for low pressure.

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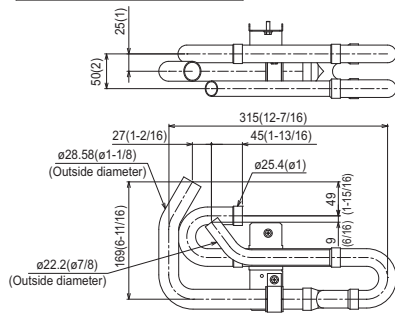
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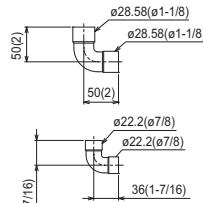
Twinning Kit: CMY-Q100CBK2

CMY-Q100CBK2

Low-pressure pipe twinning kit

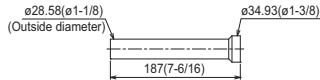


<Elbow pipe(Accessory)>

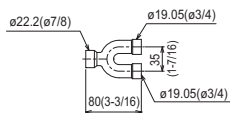


<Accessory>	Fixing screw	***1
	Insulation cover	***1
	Pipe cover (150mm(5-15/16) Length)	***2
	Pipe cover (60mm(2-3/8) Length)	***1
	Pipe cover (80mm(3-3/16) Length)	***2
	Cable tie	***2
	Water stopper	***1
	Sealing material (Small)	***1
	Sealing material (Large)	***1

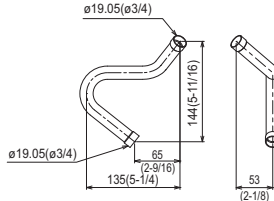
<Pipe for routing through the front (Accessory)>



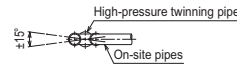
High-pressure twinning pipe



<Pipe for routing through the front (Accessory)>



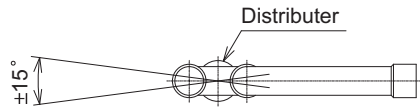
Note 1. Refer to the figure below for the installation position of the high-pressure twinning pipe.



Inclination tolerance of the high-pressure twinning pipe is $\pm 15^\circ$ relative to the ground.

2. Pipe diameter is indicated by inside diameter.

Note 1. Reference the attitude angle of the branch pipe below the fig.



The angle of the branch pipe for high pressure is within $\pm 15^\circ$

- Use the attached pipe to braze the port-opening of the distributor.
- Pipe diameter is indicated by inside diameter.

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Notes:

