CITYMULTI®

# Model: 16-TON PQHY-P192TSLMU-A

(Consists of Two PQHY-P96TLMU-A and One CMY-Y100CBK3 Twinning Kit)

MITSUBISHI ELECTRIC

| Job Name: | |
|---|---|
| System Reference: | Date: |



**MODULAR WATER-SOURCE VRF HEAT PUMP SYSTEM**

**ACCESSORIES:**

☑ Twinning Kit (required) ..... CMY-Y100CBK3
Joint Kit ..... For details see Piping Accessories Submittal
Header Kit ..... For details see Piping Accessories Submittal

| Specifications | | System | Module 1 | Module 2 |
|---|---|---|---|---|
| Unit Type | | PQHY-P192TSLMU-A-(-BS) | PQHY-P96TLMU-A-(-BS) | PQHY-P96TLMU-A-(-BS) |
| Nominal Cooling Capacity (208/230V) | Btu/h | 192,000 | 96,000 | 96,000 |
| Nominal Heating Capacity (208/230V) | Btu/h | 215,000 | 108,000 | 108,000 |
| Operating Temperature Range | Cooling (Indoor) | Refer to Module Data | 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) | Refer to Module Data | 43-5/16 x 34-11/16 x 21-11/16 (1100 x 880 x 550) | 43-5/16 x 34-11/16 x 21-11/16 (1100 x 880 x 550) |
| Net Weight | Lbs. (kg) | 768 (348) | 384 (174) | 384 (174) |
| External Finish | | Refer to Module Data | Galvanized steel sheet | |
| Electrical Power Requirements | Voltage, Phase, Hertz | Refer to Module Data** | 208 / 230V, 3-phase, 60Hz | |
| Minimum Circuit Ampacity (MCA)** | A | Refer to Module Data** | 19 / 17 | 19 / 17 |
| Maximum Overcurrent Protection (MOP)** | A | Refer to Module Data** | 30/25 | 30/25 |
| *Circulating Water (quality must meet regulations)* | | | | |
| Flow Rate | GPM / L/s | Refer to Module Data | 25.4 / 1.6 | 25.4 / 1.6 |
| Pressure Drop | FT / psi | | 8.0 / 3.48 | 8.0 / 3.48 |
| Operation Volume Range | GPM / L/m | | 13.2 - 31.7 / 50 - 120 | 13.2 - 31.7 / 50 - 120 |
| Maximum Water Pressure | MPa / psi | | 2 / 290 | 2 / 290 |
| Water-source Connection for Inlet and Outlet | In. | | 1-1/2 NPT | 1-1/2 NPT |
| *Piping Diameter (Brazed)* | | | | |
| From Twinning Kit to First Joint or Header (In. / mm) | Liquid (High Pressure) | 5/8 / 15.88 | Refer to System Data | Refer to System Data |
| | Gas (Low Pressure) | 1-1/8 / 28.58 | Refer to System Data | Refer to System Data |
| From Modules to Twinning Kit (In. / mm) | Liquid (High Pressure) | Refer to Module Data | 3/8 / 9.52 | 3/8 / 9.52 |
| | Gas (Low Pressure) | Refer to Module Data | 7/8 / 22.20 | 7/8 / 22.20 |
| Max. Total Refrigerant Line Length | Ft. | 1,640 | Refer to System Data | Refer to System Data |
| Max. Refrigerant Line Length (Bet.ODU & IDU) | Ft. | 541 | | |
| Max. Control Wiring Length | Ft. | 1,640 | | |
| Indoor Unit | Total Capacity | 50~130 | Refer to System Data | Refer to System Data |
| | Model / Quantity | P6~P96 / 1~41 | Refer to System Data | Refer to System Data |
| Sound Pressure Level | dB(A) | 51 | 48 | 48 |
| Compressor Operating Range | | 9% - 100% | Refer to System Data | Refer to System Data |
| Compressor Type x Quantity | | Refer to Module Data** | Inverter scroll hermetic compressor x 1 | Inverter scroll hermetic compressor x 1 |
| Refrigerant | | Refer to Module Data | R410A x 11 lbs. + 1 oz. (5.0 kg) | R410A x 11 lbs. + 1 oz. (5.0 kg) |
| Protection Devices | High Pressure | Refer to Module Data | 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 | | Over-heat protection, Over-current protection | Over-heat protection, Over-current protection |
| | Compressor | | Over-heat protection | Over-heat protection |
| AHRI Ratings (Ducted/Non-Ducted) | EER | 14.5 / 16.4 | Refer to System Data | |
| | IEER | 24.4 / 26.4 | Refer to System Data | |
| | COP | 5.8 / 5.57 | Refer to System Data | |

**NOTES:**

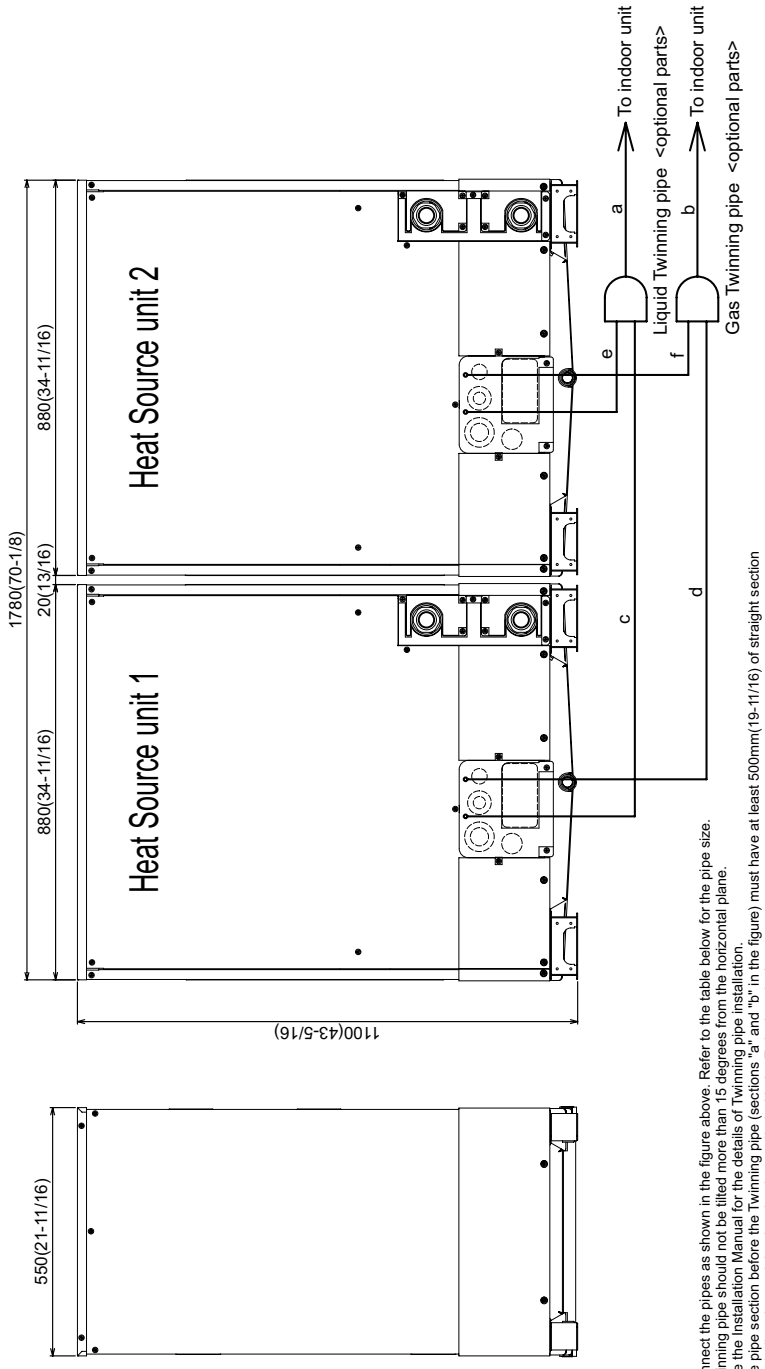
** Each individual module requires a separate electrical connection. Reference electrical data for each individual module.

Specifications are subject to change without notice.

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# Model:PQHY-P192TSLMU-A- DIMENSIONS

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 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.The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
5.Only use the Twinning pipe by Mitsubishi (optional parts).

Twinning pipe connection size

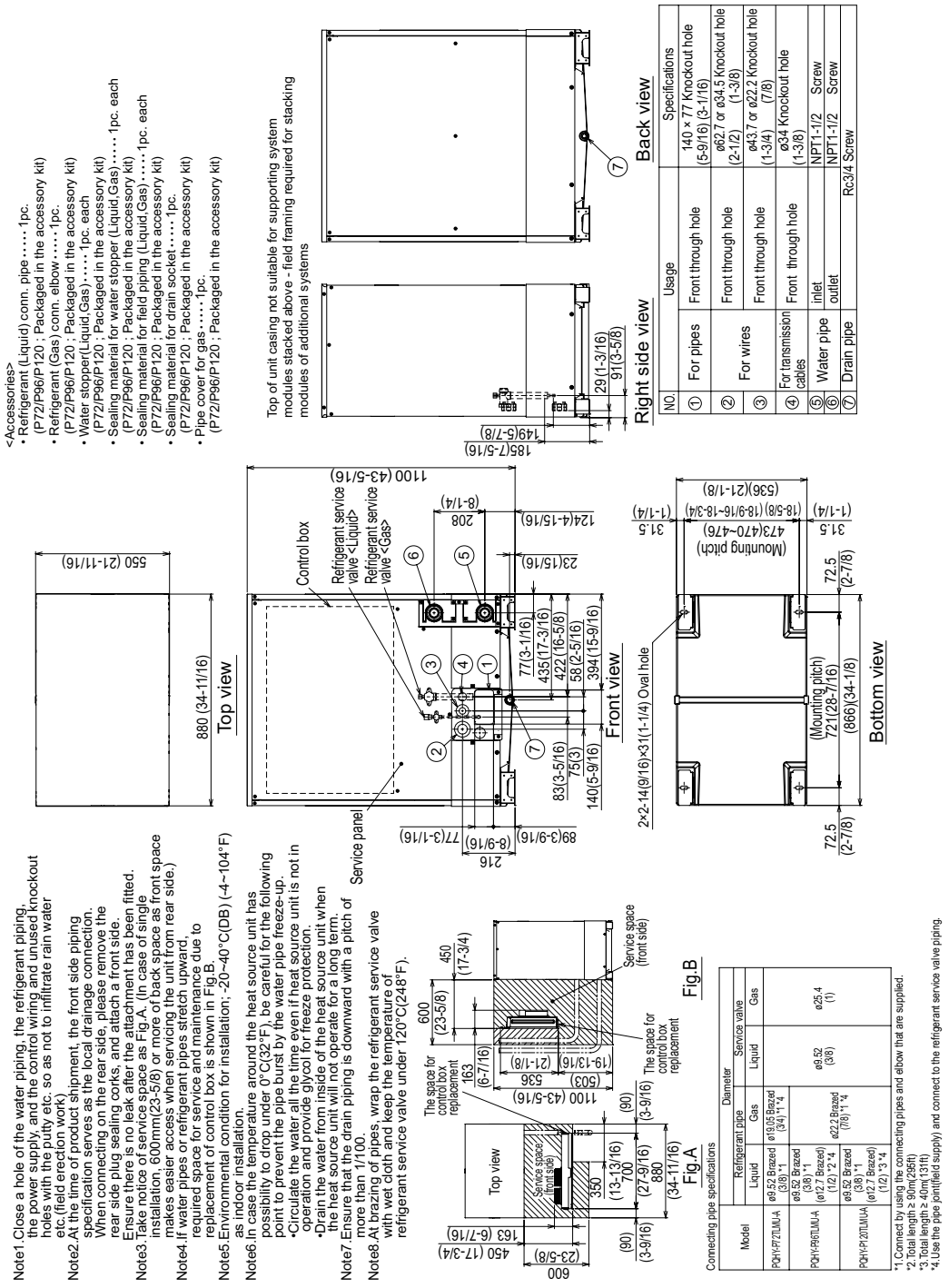
| Package unit name | | | PQHY-P144TSLMU-A | PQHY-P168TSLMU-A | PQHY-P192TSLMU-A | PQHY-P216TSLMU-A | PQHY-P240TSLMU-A |
|---|---|---|---|---|---|---|---|
| Component unit name | Heat Source unit 1 | PQHY-P72TLMU-A | PQHY-P96TLMU-A | PQHY-P96TLMU-A | PQHY-P96TLMU-A | PQHY-P120TLMU-A | PQHY-P120TLMU-A |
| | Heat Source unit 2 | PQHY-P72TLMU-A | PQHY-P72TLMU-A | PQHY-P96TLMU-A | PQHY-P96TLMU-A | PQHY-P96TLMU-A | PQHY-P120TLMU-A |
| Twinning pipe Kit(optional parts) | | | CMY-Y100CBK3 | | | | |
| Indoor unit–Twinning pipe | Liquid | a | ø12.7(1/2) | ø15.88(5/8) | | | |
| | Gas | b | ø28.58(1-1/8) | | | | |
| Twinning pipe–Heat Source unit 1 | Liquid | c | ø9.52(3/8) | | ø12.7(1/2) | | |
| | Gas | d | ø19.05(3/4) | ø22.2(7/8) | | ø12.7(1/2) | |
| Twinning pipe–Heat Source unit 2 | Liquid | e | ø9.52(3/8) | | ø12.7(1/2) | | |
| | Gas | f | ø19.05(3/4) | ø22.2(7/8) | | | |

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# Model:PQHY-P96TLMU-A- DIMENSIONS

Unit : mm(in)

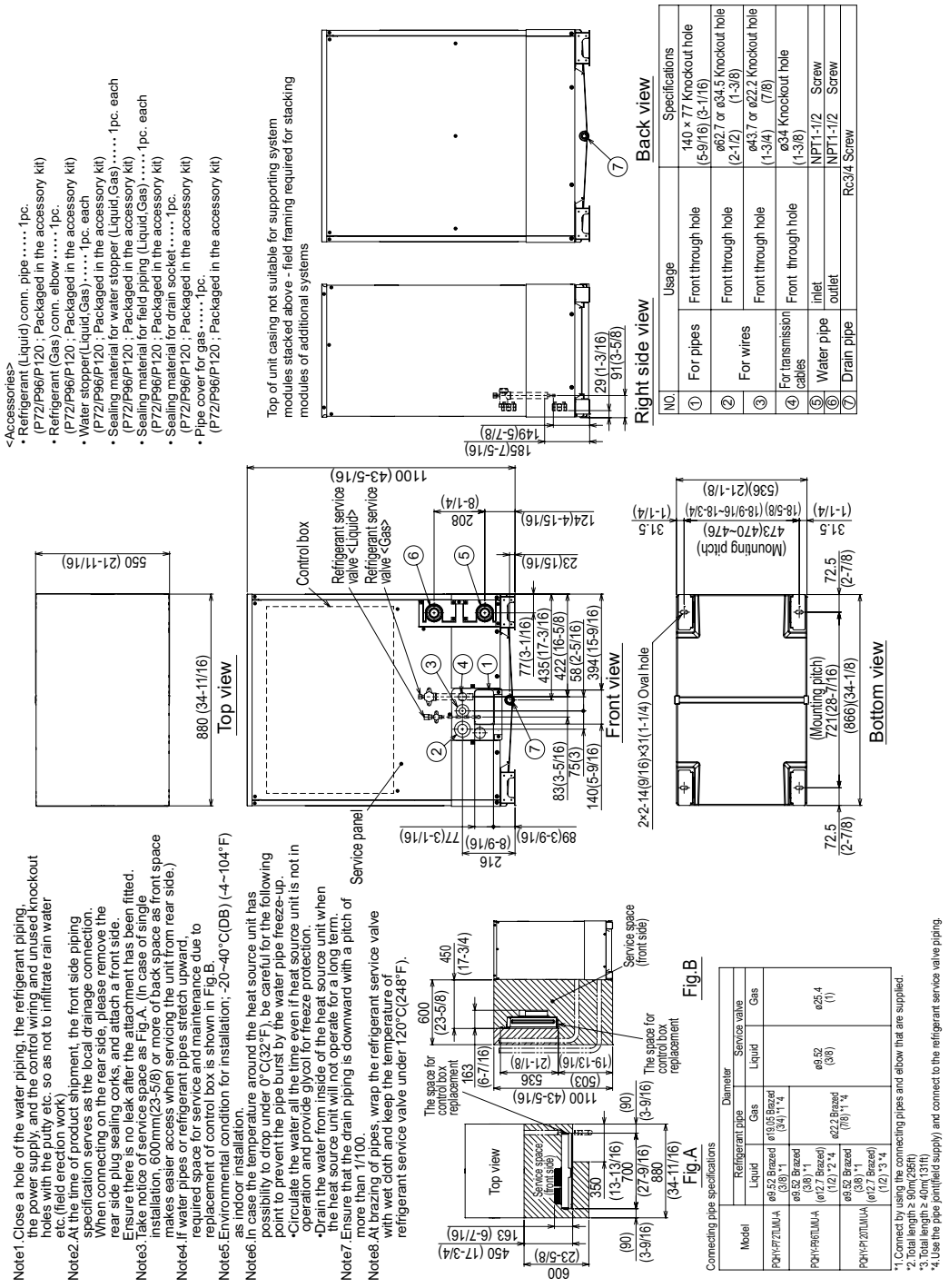



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# Model:PQHY-P96TLMU-A- DIMENSIONS

Unit : mm(in)



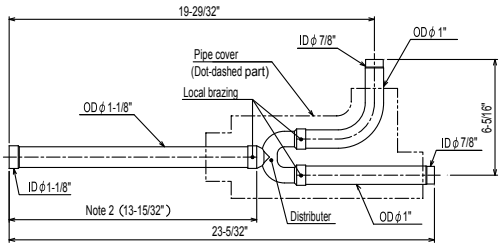

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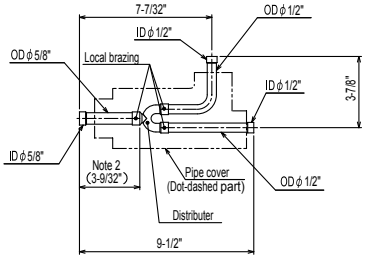
# Twinning Kit:CMY-Y100CBK3- DIMENSIONS

Unit: in.

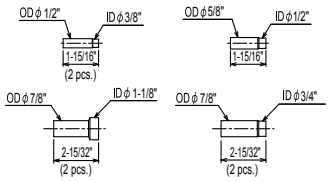
For Gas pipe:




For Liquid pipe:




<Reducer(Accessory)>




ID: Inner Diameter OD: Outer Diameter

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FORM# PQHY-P192TSLMU-A-201708

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