

P-SERIES TWINNING REQUIREMENTS

AIR-CONDITIONING, HEAT PUMP & HYPER-HEAT PUMP SYSTEMS



Job Name:





System Reference:

Date:

Indoor Units:

| | | | | | |
|---|---|---|--|---|---|
|  |  |  |  |  |  |
| PEA-A12,18AA6 | PEAD-A12,18AA7 | PLA-A12,18BA6 | PLA-A12,18EA7 | PKA-A12,18 | PVA-A12,18AA7 |

Outdoor Units:

| | | | |
|--|--|--|--|
|  |  |  |  |
| PUY/PUZ-A24, 36NHA6 PUY/PUZ-A24, 36NHA6-BS PUY/PUZ-A24NHA7 PUY/PUZ-A24NHA7-BS | PUY/PUZ-36NKA7 PUY/PUZ-36NKA7-BS | PUZ-HA24NHA1 | PUZ-HA36NHA5 PUZ-HA36NKA |

GENERAL FEATURES

- Through twinning, operate two indoor units from one outdoor unit—ideal for single area and unusually shaped rooms/zones or long narrow rooms/zone applications
- One hard-wired, wall-mounted MA Controller simultaneously controls both indoor units
- Supply power wiring is connected to the outdoor unit power supply terminals
- A-Control: Wire from S1-S2-S3 on the outdoor unit directly to indoor unit 1 and then to indoor unit 2
- Control signal is transmitted between outdoor unit and both indoor units via data over the power connections
- Required Accessory for Combining Indoor Units: MSDD-50TR-E Distribution Pipe Kit (includes one distribution pipe each for liquid and gas, and choice of joint adapters)

TWINNING REQUIREMENTS

| Outdoor Units | Indoor Units x 2 | | |
|-----------------|------------------|------------|------------|
| PUY/PUZ-A24NHA6 | PEA-A12AA6 | PKA-A12HA6 | PLA-A12BA6 |
| PUY/PUZ-A36NHA6 | PEA-A18AA6 | PKA-A18HA6 | PLA-A18BA6 |
| PUZ-HA36NKA | PEA-A18AA6 | PKA-A18HA6 | PLA-A18BA6 |

| Outdoor Units | Indoor Units x 2 | | | |
|--------------------------|------------------|-------------------------|-------------------------|------------|
| PUY/PUZ-A24NHA7 | PEAD-A12AA7 | PKA-A12HA7 PKA-A12LA | PLA-A12EA7 ¹ | PVA-A12AA7 |
| PUY/PUZ-A36NKA7 | PEAD-A18AA7 | - | PLA-A18EA7 ¹ | - |
| PUZ-HA24NHA1 | PEAD-A12AA7 | PKA-A12HA7 PKA-A12LA | PLA-A12EA7 | PVA-A12AA7 |
| PUZ-HA36NHA5/PUZ-HA36NKA | PEAD-A18AA7 | PKA-A18HA7 PKA-A18LA | PLA-A18EA7 ¹ | PVA-A18AA7 |

¹ Refer to the piping length limitation

Please refer to Twinning Application Piping Information for special case rules.

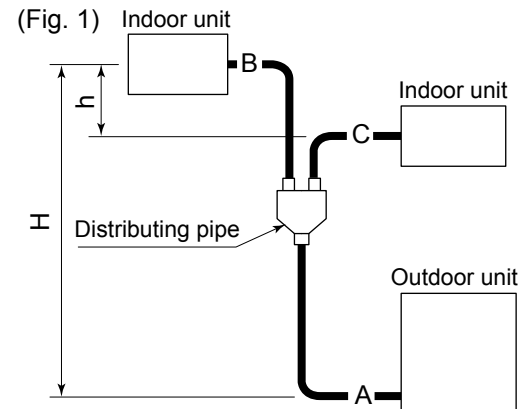
PIPE SIZE AND LIMIT TO REFRIGERANT PIPE

| Actual pipe length (m) | | Height Difference (m) | | Number of bends *2 |
|------------------------|---------------------------|-----------------------------------|-------------------------------|--------------------|
| Indoor-Outdoor | A + B + C = | Indoor-Outdoor | Indoor-Outdoor | |
| - | ± 165 ft (50m) or less | B - C = 26 ft (8m) or less | H = 98 ft (30m) or less | 15 or less |
| - | 245 ft (75m) or less | | h = 3 ft (1m) or less | |

*2 Limit the number of bends for refrigerant pipes to 8 in each of the (A+B) and (A+C) ranges.

See the installation manual provided with the main unit for details on chargeless pipe length and refrigerant additional charge amount.

- † Maximum total piping length for PUY/PUZ-A24,36:
 - with 2x PLA-A12EA7 is 59 ft (18m)
 - with 2x PLA-A18EA7 is 98 ft (30m)
 - All other combinations is 165 ft (50m)
- ‡ Maximum total piping length for PUZ-HA36 Outdoor Units: 245 ft (75m)
- Maximum height difference from IDU to IDU: 3 ft (1m)
- Maximum length difference from IDU to IDU: 26 ft (8m)
- Maximum height difference from ODU to IDUs: 100 ft (31m); note: piping lengths to each IDU unit do not have to be equal
- For the NHA6 generation: both IDUs must have the same capacity, but do not have to be the same style. (PEA, PEAD, PKA, PLA, and PVA IDUs can be combined for one system. For the NH/KA7 generation, the same indoor unit types must be used.
- Twinned IDUs operate simultaneously only; individual IDU control is not available
- One MA Controller controls both IDUs simultaneously
- Temperature setpoint is set from the MA Controller, choose one of three options on the controller to set the temperature sensing
 - Average of the data from both IDU return air sensors (factory setting)
 - Data from the return air sensor in the IDU directly connected to the MA Controller
 - Data from the sensor in the MA Controller only
- ODU is automatically controlled using Mitsubishi Electric's INVERTER Technology; compressor, frequency, and LEV position will be adjusted as needed to maintain selected room conditions
- Refer to P-Series Installation or Technical Service Manuals for wiring diagrams



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