MITSUBISHI ELECTRIC
Changes for the Better

P-SERIES

TWINNING REQUIREMENTS
FOR P-SERIES STANDARD AIR-CONDITIONING / HEAT-PUMP & HYPER HEAT-PUMP SYSTEMS

Job Name:	Location:	Date:
Purchaser:	Engineer:	
Submitted to:	For ☐Reference ☐Approval ☐Construction	
System Designation:	Schedule No.:	

Indoor Units:

 PEAD-A12,18AA7	 PLA-A12,18EA7	 PKA-A12,18HA7	 PVA-A12,18AA7

Outdoor Units:

 PUY/PUZ-A24NHA7	 PUY/PUZ-36NKA7	 PUZ-HA36NHA5

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

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 PAR-33MAA remote controller simultaneously controls both indoor units.
- Supply voltage (L1, L2) from the outdoor unit, supplies power to both indoor units through S1, S2, S3.
- A-Control: The S1, S2, S3 wire from the outdoor unit, goes 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)

Specifications are subject to change without notice.

TWINNING REQUIREMENTS

Outdoor Units	Indoor Units X 2			
PUY/PUZ-A24NHA7	PEAD-A12AA7	PKA-A12KA7	PLA-A12EA7*1	PVA-A12AA7
PUY/PUZ-A36NKA7	PEAD-A18AA7	PKA-A18KA7	PLA-A18EA7*1	PVA-A18AA7
PUZ-HA36NHA5	PEAD-A18AA7	PKA-A18KA7	PLA-A18EA7*1	PVA-A18AA7

*1 Refer to the piping length limitation

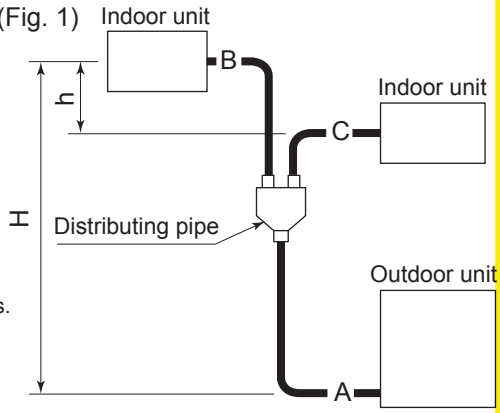
Model	PEAD-A12AA7	PEAD-A18AA7	PKA-A12HA7	PKA-A18HA7	PLA-A12EA7	PLA-A18EA7	PVA-A12AA7	PVA-A18AA7	PU(Y)(Z)-A24NHA7	P(Y)(Z)-A36NKA7	PUZ-HA36NHA5
MCA (A)	1.45	1.69	1	1	1	1	3	3	19	25	28
MOCP (A)	-	-	-	-	-	-	-	-	26	31	40
Breaker Size (A)	-	-	-	-	-	-	-	-	25	30	30

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)		Note *2
Indoor-Outdoor	A + B + C =	Indoor-Indoor	Indoor-Outdoor	Indoor-Indoor	Number of bends
PUZ-A24 PUZ-A36	50m or less	|B - C| = 8m or less	H = 30m or less	h = 1m or less	15 or less
PUY-A24/36 PUZ-HA36	75m or less				

(Fig. 1)



Note 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' (75 m)
- Maximum height difference from IDU to IDU: 3 ft (1 m)
  Maximum length difference from IDU to IDU: 26 ft (8 m)
- Maximum height difference from ODU to IDUs: 100' (31 m); note: piping lengths to each IDU unit do not have to be equal
- For the NH/KA7 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.
- Twinned IDUs operate simultaneously only; individual IDU control is not available
- One PAR-33MAA remote controller controls both IDUs simultaneously
- Temperature setpoint is set from the PAR-33MAA, 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 PAR-33MAA
  - Data from the sensor in the PAR-33MAA 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

Form # SB_P-Series_A12_A18_Twinning Kit_201801
Specifications are subject to change without notice.
www.MitsubishiElectric.ca