

SUBMITTAL DATA: PLA-A12BA4 & PUY-A12NHA4 (-BS)

12,000 BTU/H CEILING CASSETTE AIR-CONDITIONING SYSTEM

Job Name:

System Reference:

Date:



Indoor Unit: PLA-A12BA4



Outdoor Unit: PUY-A12NHA4 (-BS)

GENERAL FEATURES

- Compact side-discharge outdoor unit
- Quiet operation—indoor and outdoor units
- Built-in drain lift mechanism for condensate removal; Lifts to 33-7/16"
- Wide air flow pattern for better air distribution
- Auto wave airflow in heating mode—unit independently cycles through horizontal and vertical positions for more even heat distribution
- Independent vane adjustment
- Automatic fan speed control
- Limited warranty: five years parts and seven years compressors

UNIT OPTION

- ☐ Standard Model.....PUY-A12NHA4
- ☐ Sea Coast (BS) Model.....PUY-A12NHA4-BS

OPTIONAL ACCESSORIES

Indoor Unit

- ☐ Condensate Pump (BlueDiamond X87-711/721; 115/230V)
- ☐ Condensate Pump (Saueremann SI30-115/230; 115/230V)
- ☐ i-see Sensor Corner Panel (PAC-SA1ME)
- ☐ Multi-function Casement (PAC-SH53TM)
- ☐ Air Outlet Shutter Plates (PAC-SH51SP)
- ☐ High-efficiency [MERV 10] Filter (PAC-SH59KF; req. Multi-function Casement)

Outdoor Unit

- ☐ Drain Pan (PAC-SG63DP)
- ☐ Drain Socket (PAC-SH71DS)
- ☐ Three-pole Disconnect Switch (TAZ-MS303)
- ☐ Wind Baffle (WB-PA1)
- ☐ Air Outlet Guide (PAC-SG58SG)
- ☐ Mounting Base (DSD-400N)
- ☐ Mounting Pad (ULTRILITE1)
- ☐ Wall-mounting Brackets (CWMB1)

Controller Options

- ☐ Wireless Wall-mounted Remote Controller Kit (MHK1)**
- ☐ Portable Central Controller (MCCH1)**
- ☐ Outdoor Air Sensor (MOS1)**
- ☐ Wired Wall-mounted Controller (PAR-31MAA)**
- ☐ Simple MA Remote Controller (PAC-YT53CRAU)**
- **See Submittal for information on each option.
- ☐ M-NET Adapter (PAC-SF83MA)
- ☐ CN51 Connector for Multiple Remote Controller Adapters
- ☐ Duct Fan Controller (PAC-725AD)
- ☐ CN32 Connector for Remote On/Off (PAC-715AD)
- ☐ Remote Temperature Sensor (PAC-SE41TS)
- ☐ Remote Operation Adapter - Display and On/Off (PAC-SF40RM)
- ☐ Hand-held Wireless Remote Controller (PAR-FL32MA; req. PAR-SA9FA-E)
- ☐ Wireless Signal Receiver Module (PAR-SA9FA-E)
- ☐ Lockdown Bracket for Hand-held Controller (RCMKP1CB)
- ☐ Control/Service Tool (PAC-SK52ST)

SEACOAST PROTECTION

- External Outer Panel:
 - Phosphate coating + Acrylic-Enamel coating
- Fan Motor Support:
 - Epoxy resin coating (at edge face)
- Separator Assembly ; Valve Bed:
 - Epoxy resin coating (at edge face)
- Screws (used outer side):
 - Zinc nickel coating 5µm + Polyvinylidene chloride coating

"Blue Fin" treatment is an anti-corrosion treatment that is applied to the condenser coil to protect it against airborne contaminants..



SPECIFICATIONS: PLA-A12BA4 & PUY-A12NHA4 (-BS)

Cooling*

Rated Capacity 12,000 Btu/h
 Minimum Capacity 6,000 Btu/h
 SEER 13.5 Btu/h/W
 EER 9.5 Btu/h/W
 Total Input 1,260 W

* Rating Conditions per AHRI Standard

Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB
 Cooling | Outdoor: 95° F (35° C) DB / 75° F (24° C) WB

Electrical Requirements

Power Supply 208 / 230V, 1-Phase, 60 Hz
 Recommended Fuse/Breaker Size 15 A

Voltage

Indoor - Outdoor S1-S2 AC 208 / 230V
 Indoor - Outdoor S2-S3 DC ±24V

OPERATING CONDITIONS

		Indoor Intake Air Temp.	Outdoor Intake Air Temp.
Cooling	Maximum	95° F (35° C) DB 71° F (22° C) WB	115° F (46° C) DB
	Minimum	67° F (19° C) DB 57° F (14° C) WB	0° F** (-18° C) DB

** With optional wind baffle accessory installed. If not installed, the minimum temperature will be 23°F (-5°C) DB.

Indoor Unit

MCA 1 A
 Fan Motor (ECM) 0.51 F.L.A.
 Fan Motor Output 50 W
 Airflow (Lo - M1 - M2 - Hi) 390 - 420 - 460 - 530 Dry CFM
 350 - 390 - 420 - 490 Wet CFM
 Sound Level (Lo - M1 - M2 - Hi) 27 - 28 - 29 - 31 dB(A)
 SHF 0.84
 Moisture Removal 1.7 pt./h

DIMENSIONS	UNIT INCHES / MM	PANEL INCHES / MM
W	33-1/16 / 840	37-3/8 / 950
D	33-1/16 / 840	37-3/8 / 950
H	10-3/16 / 258	1-3/8 / 35

Weight (Unit/Grille)

lbs. 49 / 13
 kg 22 / 6
 External Finish (Grille) Munsell No. 6.4Y 8.9 / 0.4
 Field Drainpipe Size O.D. 1-1/4" / 32 mm

Outdoor Unit

Compressor DC Inverter-driven Twin Rotary
 MCA 13 A
 MOC 15 A
 Fan Motor (ECM) 0.35 F.L.A.
 Sound Pressure Level (Cooling) 46 dB(A)

DIMENSIONS	INCHES / MM
W	31-1/2 / 800
D	11-13/16 + 7/8 / 300 + 23
H	23-5/8 / 600

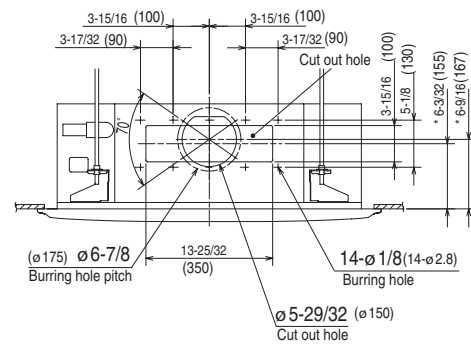
Weight 82 lbs. / 37 kg
 External Finish Munsell No. 3Y 7.8 / 1.1
 Refrigerant Type R410A
 Refrigerant Pipe Size O.D.
 Gas Side 1/2" / 12.7 mm
 Liquid Side 1/4" / 6.35 mm
 Max. Refrigerant Pipe Length 100' / 30 m
 Max. Refrigerant Pipe Height Difference 100' / 30 m
 Connection Method Flared

Notes:

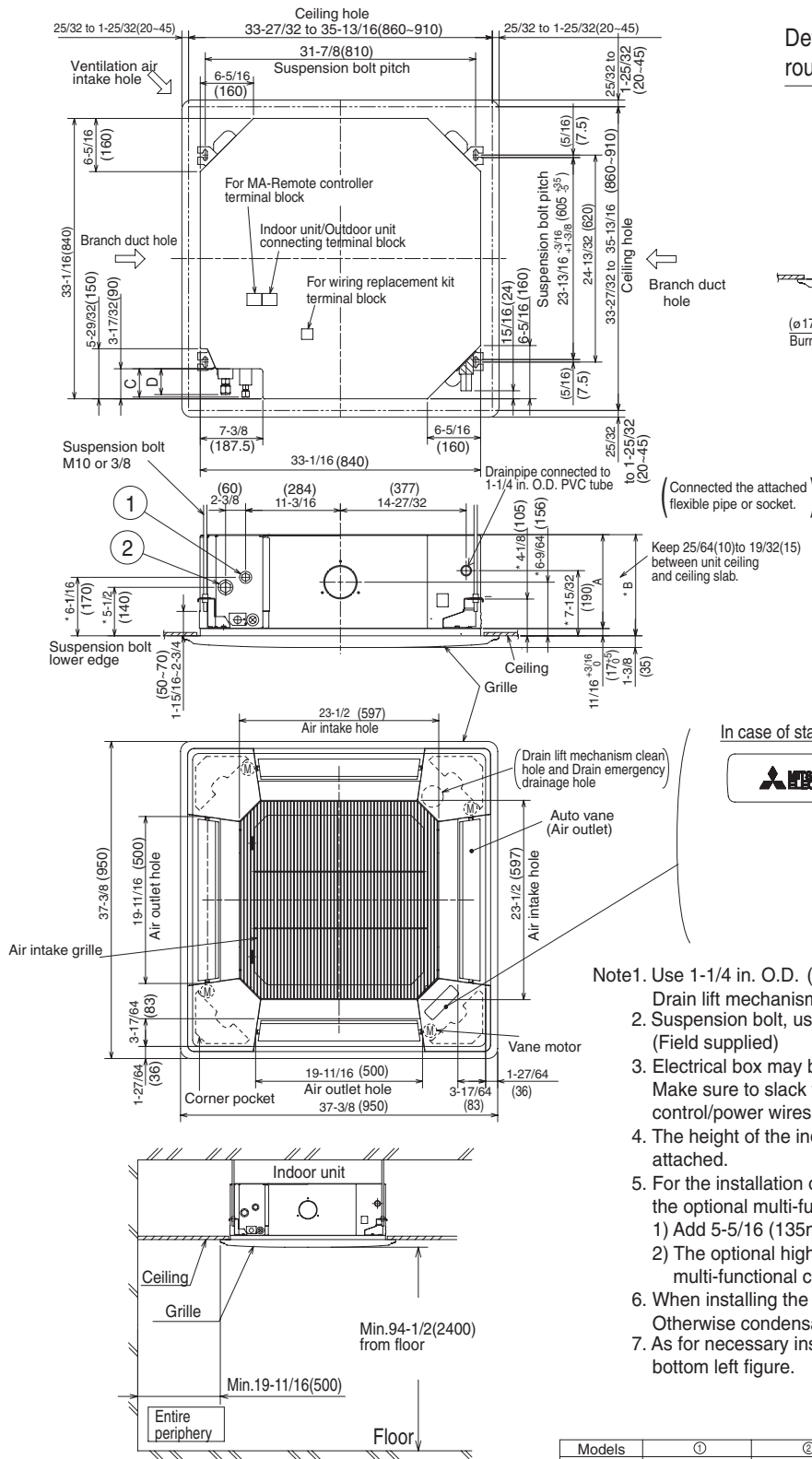
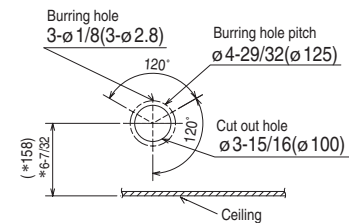
DIMENSIONS: PLA-A12BA4

Unit : inch(mm)

Detail connecting of branch duct (nominal 6" round or nominal 4 x 14" rectangular)



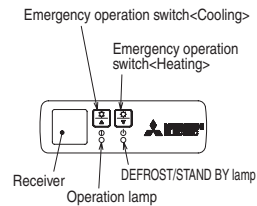
Detail drawing of ventilation air intake connection



In case of standard grille



In case of wireless remote controller

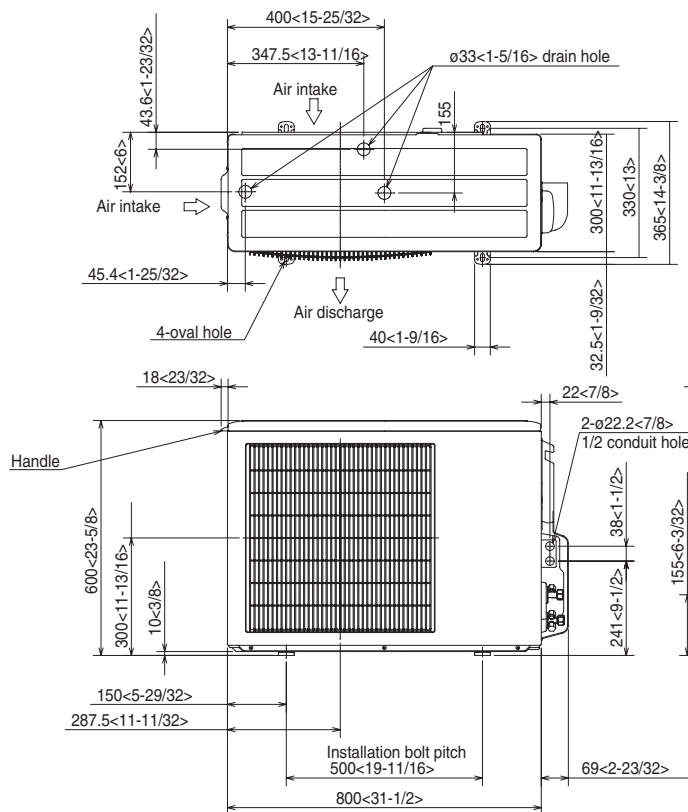


- Note 1. Use 1-1/4 in. O.D. (32) PVC TUBE.
Drain lift mechanism is included.
2. Suspension bolt, use M10 or W3/8.
(Field supplied)
3. Electrical box may be removed for service purposes.
Make sure to slack the electrical wire little bit for control/power wires connection.
4. The height of the indoor unit is adjustable with the grille attached.
5. For the installation of the optional high efficiency filter, the optional multi-functional casement is required.
 - 1) Add 5-5/16 (135mm) to the dimensions marked with an * in the figures
 - 2) The optional high efficiency filter required optional multi-functional casement.
6. When installing the branch ducts, be sure to insulate adequately.
Otherwise condensation may occur.
7. As for necessary installation/service space, please refer to the bottom left figure.

Models	①	②	A	B	C	D
PLA-A12BA PLA-A18BA	Refrigerant pipe ---ø 6.35mm Flared connection ---1/4	Refrigerant pipe ---ø 12.7mm Flared connection ---1/2	9-1/2 (241)	10-3/16 (258)	3-5/32 (80)	2-29/32 (74)
PLA-A24BA PLA-A30BA	Refrigerant pipe ---ø 9.52mm Flared connection ---3/8	Refrigerant pipe ---ø 15.88mm Flared connection ---5/8	11-1/16 (281)	11-3/4 (298)	3-11/32 (85)	3-1/2 (77)

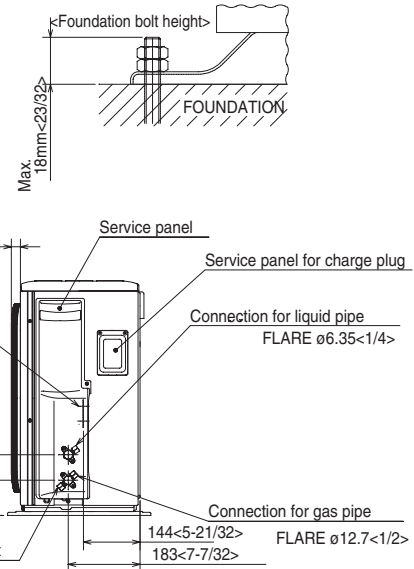
DIMENSIONS: PUY-A12NHA4 (-BS)

Unit : mm<inch>

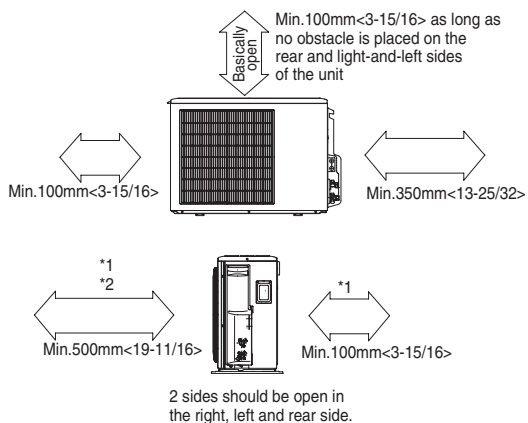


FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation M10<W3/8> bolts. (Bolts, washers and nut must be purchased locally.)



Clearance space needed around the outdoor unit



PIPING-WIRING DIRECTION

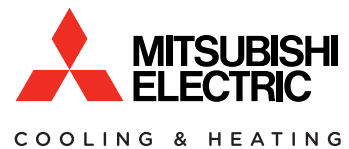
Piping and wiring connection can only be made from the back.

Minimum installation space for outdoor unit

If the unit is installed in a place where short cycle can occur, cooling and heating capacity might be reduced by 10%. Using an air outlet guide (PAC-SG58SG-E) will help deflect exhaust air and improve performance.



Intertek



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