

SUBMITTAL DATA: PLA-A30BA4 & PUZ-A30NHA4 (-BS)

30,000 BTU/H CEILING CASSETTE HEAT PUMP SYSTEM

Job Name:

System Reference:

Date:



Indoor Unit: PLA-A30BA4



Outdoor Unit: PUZ-A30NHA4 (-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.....PUZ-A30NHA4
- ☐ Sea Coast (BS) Model.....PUZ-A30NHA4-BS

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. PAC-SH53TM)

Outdoor Unit

- ☐ Drain Pan (PAC-SG64DP)
- ☐ Drain Socket (PAC-SH71DS)
- ☐ Three-pole Disconnect Switch (TAZ-MS303)
- ☐ Wind Baffle (WB-PA2)
- ☐ Air Outlet Guide (PAC-SG59SG)
- ☐ Mounting Base (DSD-400N)
- ☐ Mounting Pad (ULTRILITE2)
- ☐ 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-A30BA4 & PUZ-A30NHA4 (BS)

Cooling*

Rated Capacity 30,000 Btu/h
Minimum Capacity 12,000 Btu/h
SEER 13.6 Btu/h/W
EER 7.3 Btu/h/W
Total Input 4,100 W

Heating at 47F*

Rated Capacity 32,000 Btu/h
Minimum Capacity 12,000 Btu/h
HSPF 8.7 Btu/h/W
COP 2.78
Total Input 3,370 W

Heating at 17F*

Rated Capacity 23,000 Btu/h
Total Input 3,050 W
COP 2.20

* 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
Heating at 47° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 47° F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB
Heating at 17° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB

Electrical Requirements

Power Supply 208 / 230V, 1-Phase, 60 Hz
Recommended Fuse/Breaker Size 30 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
Heating	Maximum	80° F (27° C) DB 67° F (19° C) WB	70° F (21° C) DB 59° F (15° C) WB
	Minimum	70° F (21° C) DB 60° F (16° C) WB	12° F (-11° C) DB 10° F (-12° C) WB

** 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) 490 - 570 - 640 - 740 Dry CFM
460 - 530 - 600 - 710 Wet CFM
Sound Level (Lo - M1 - M2 - Hi) 28 - 30 - 32 - 34 dB(A)
SHF 0.73
Moisture Removal 7.2 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. 51 / 13
kg 23 / 6
External Finish 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 25 A
MOCP 40 A
Fan Motor (ECM) 0.75 F.L.A.
Sound Pressure Level
Cooling 48 dB(A)
Heating 50 dB(A)

DIMENSIONS	INCHES / MM
W	37-3/8 / 950
D	13 + 1-3/16 / 330 + 30
H	37-1/8 / 943

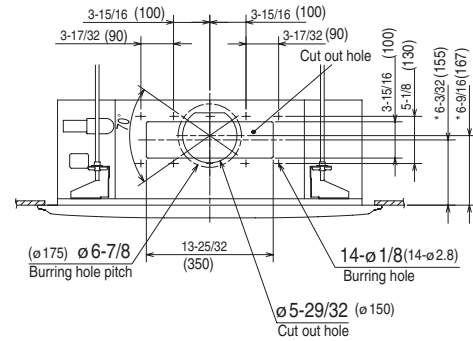
Weight 165 lbs. / 75 kg
External Finish Munsell No. 3Y 7.8 / 1.1
Refrigerant Type R410A
Refrigerant Pipe Size O.D.
Gas Side 5/8" / 15.88 mm
Liquid Side 3/8" / 9.52 mm
Max. Refrigerant Pipe Length 165' / 50 m
Max. Refrigerant Pipe Height Difference 100' / 30 m
Connection Method Flared

Notes:

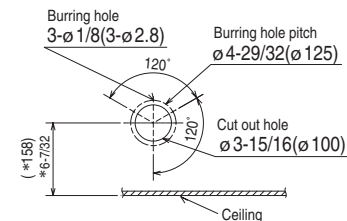
DIMENSIONS: PLA-A30BA4

Unit : inch(mm)

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



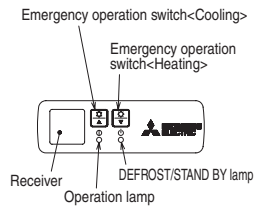
Detail drawing of ventilation air intake connection



In case of standard grille



In case of wireless remote controller

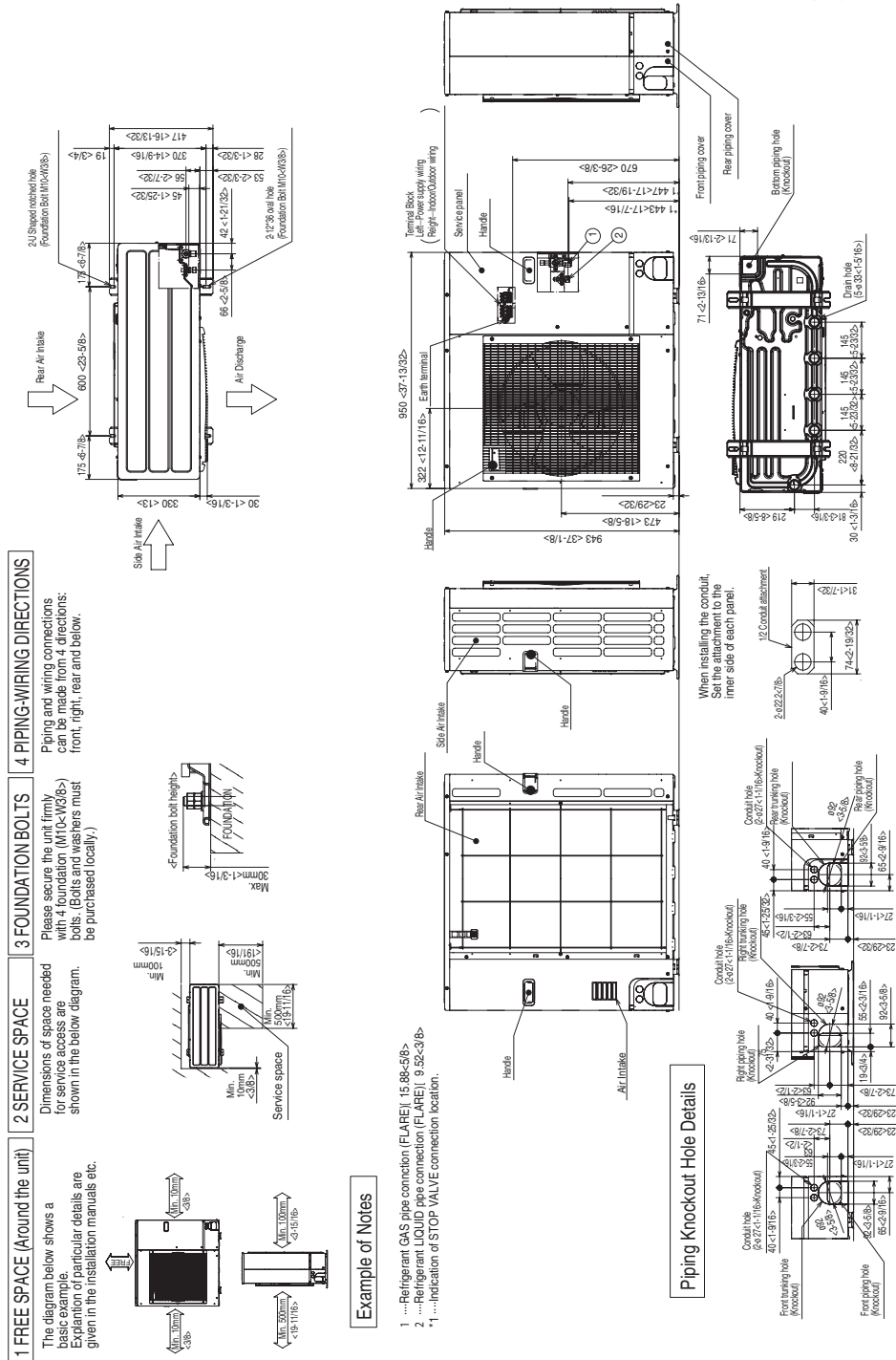


- Note1. Use 1-1/4 in. O.D. (32) PVC TUBE.
Drain lift mechanism is included.
- Suspension bolt, use M10 or W3/8. (Field supplied)
 - Electrical box may be removed for service purposes. Make sure to slack the electrical wire little bit for control/power wires connection.
 - The height of the indoor unit is adjustable with the grille attached.
 - For the installation of the optional high efficiency filter, the optional multi-functional casement is required.
 - Add 5-5/16 (135mm) to the dimensions marked with an * in the figures
 - The optional high efficiency filter required optional multi-functional casement.
 - When installing the branch ducts, be sure to insulate adequately. Otherwise condensation may occur.
 - As for necessary installation/service space, please refer to the bottom left figure.

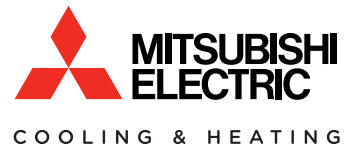
Models	①	②	A	B	C	D
PLA-A12BA PLA-A18BA	Refrigerant pipe ...ø 6.35mm Flared connection ...1/4	Refrigerant pipe ...ø 12.7mm Flared connection ...1/2	9-1/2 (241)	10-3/16 (258)	3-5/32 (80)	2-29/32 (74)
PLA-A24BA PLA-A30BA PLA-A36BA PLA-A42BA	Refrigerant pipe ...ø 9.52mm Flared connection ...3/8	Refrigerant pipe ...ø 15.88mm Flared connection ...5/8	11-1/16 (281)	11-3/4 (298)	3-11/32 (85)	3-1/32 (77)

DIMENSIONS: PUZ-A30NHA4 (-BS)

Unit : mm<inch>



Intertek



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