

SUBMITTAL DATA: PEA-A18AA4** & PUZ-A18NHA4 (-BS)

18,000 BTU/H HORIZONTAL-DUCTED HEAT-PUMP SYSTEM

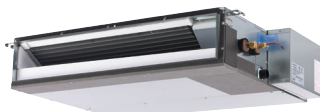
Job Name:

System Reference:

Date:

****APPLIES TO INDOOR UNIT:**

- ☐ PEA-A18AA4
- ☐ PEA-A18AA4R1.TH



Indoor Unit: PEA-A18AA4**



Outdoor Unit: PUZ-A18NHA4 (-BS)

GENERAL FEATURES

- Ducted indoor unit for residential and light commercial applications
- Ultra-thin body: 7-7/8" high
- Built-in drain mechanism for condensate removal; Lifts to 21-11/16"
- Washable air filter is included with indoor unit
- Quiet operation—both indoor and outdoor units
- Auto fan speed control; auto restart following a power outage
- Self-check function—integrated diagnostics
- Limited warranty:
 - Five years parts and seven years compressors

UNIT OPTION

- ☐ Standard Model.....PUZ-A18NHA4
- ☐ Sea Coast (BS) Model.....PUZ-A18NHA4-BS

ACCESSORIES
Indoor Unit

- ☐ Filter Box with MERV 8 Filters (FBL1-3)
- ☐ Bottom Return Plate (BRP-3)

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-FA32MA-E)
 - ☐ Wireless Signal Receiver Module (PAR-FA32MA-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: PEA-A18AA4** & PUZ-A18NHA4 (-BS)

Cooling*

Rated Capacity	18,000 Btu/h
Minimum Capacity	8,000 Btu/h
SEER	14.3 Btu/h/W
EER	8.4 Btu/h/W
Total Input	2,150 W

Heating at 47°F*

Rated Capacity	19,000 Btu/h
Minimum Capacity	8,000 Btu/h
HSPF (IV)	10.0 Btu/h/W
COP	3.61
Total Input	1,540 W

Heating at 17°F*

Rated Capacity	13,000 Btu/h
Rated Total Input	1,520 W
COP	2.51

* 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 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
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	2 A
Blower Type x Quantity	Sirocco fan x 4
Blower Motor Type	Direct-driven DC Brushless Motor
Blower Motor (ECM)	0.74 F.L.A.
Blower Motor Output	.96 W
Airflow (Lo - Med - Hi)	423 - 529 - 635 Dry CFM 381 - 476 - 572 Wet CFM
Air Filter	Polypropylene Honeycomb
External Static Pressure	0.02 - 0.06 - 0.14 - 0.20"WG
Sound Pressure Level (Lo - Med - Hi)	.30 - 34 - 38 dB(A)
SHF	0.80
Moisture Removal	3.26 pt./h

DIMENSIONS	UNIT INCHES / MM
W	46-7/8 / 1,190
D	27-9/16 / 700
H	7-7/8 / 200

Weight 62 lbs. / 28 kg
External Finish Galvanized-steel Sheet
Field Drainpipe Size O.D. 1-1/4" / 32 mm

Outdoor Unit

Compressor	DC Inverter-driven Twin Rotary
MCA	13 A
MOCP	20 A
Fan Motor (ECM)	0.35 F.L.A.
Sound Pressure Level	
Cooling	48 dB(A)
Heating	47 dB(A)

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

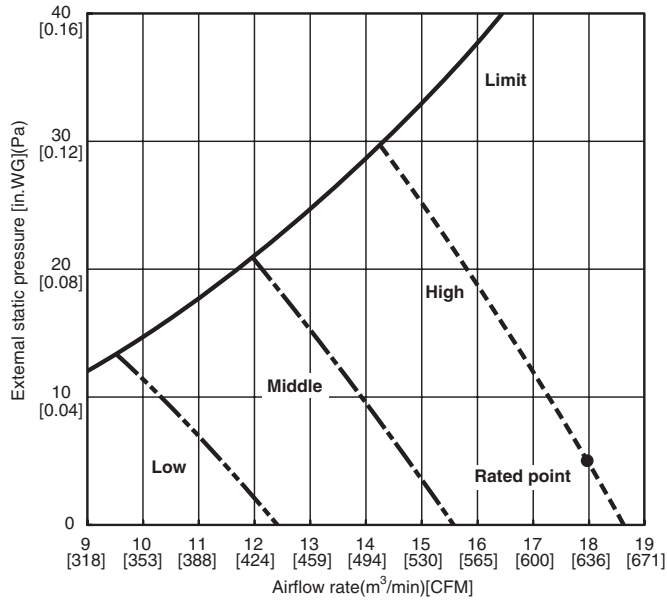
Weight 91 lbs. / 41 kg
External Finish Munsell No. 3Y 7.8 / 1.1
Refrigerant Type R410A
Refrigerant Pipe Size O.D.
Gas Side 1/2" / 12.7 mm
Liquid Side 1/4" / 6.35 mm
Max. Refrigerant Pipe Length 100' / 30 m
Max. Refrigerant Pipe Height Difference 100' / 30 m
Connection Method Flared

Notes:

INDOOR UNIT PEA-A18AA4** FAN PERFORMANCE AND AIRFLOW RATES

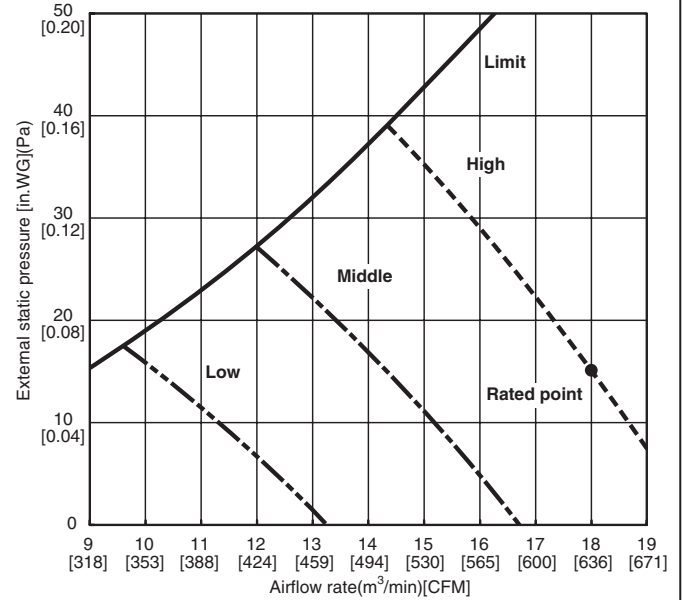
PEA-A18AA4

(External static pressure 0.020[in.WG](5Pa) 208/230V 60Hz)



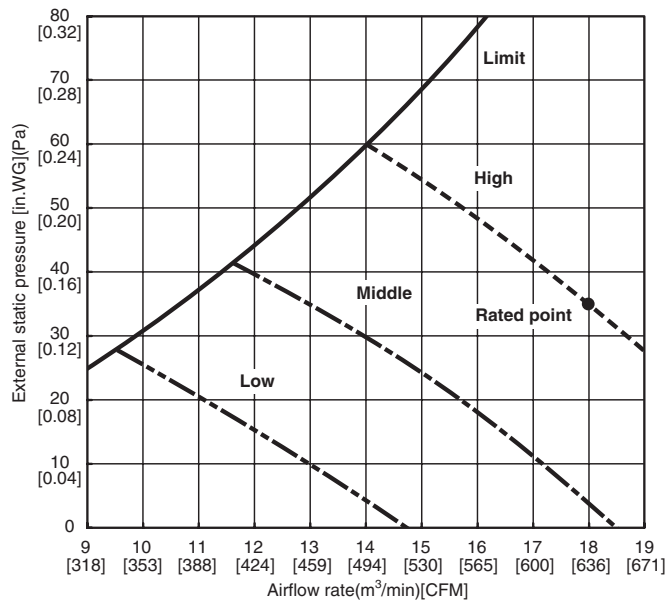
PEA-A18AA4

(External static pressure 0.060[in.WG](15Pa) 208/230V 60Hz)



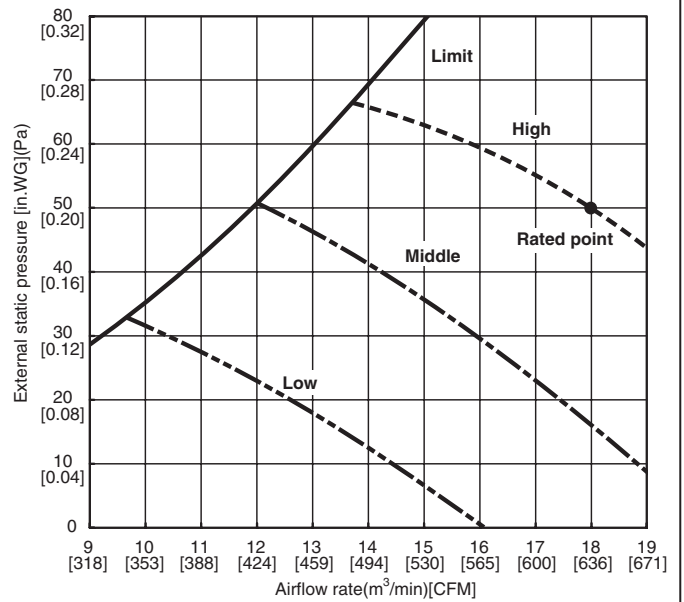
PEA-A18AA4

(External static pressure 0.140[in.WG](35Pa) 208/230V 60Hz)



PEA-A18AA4

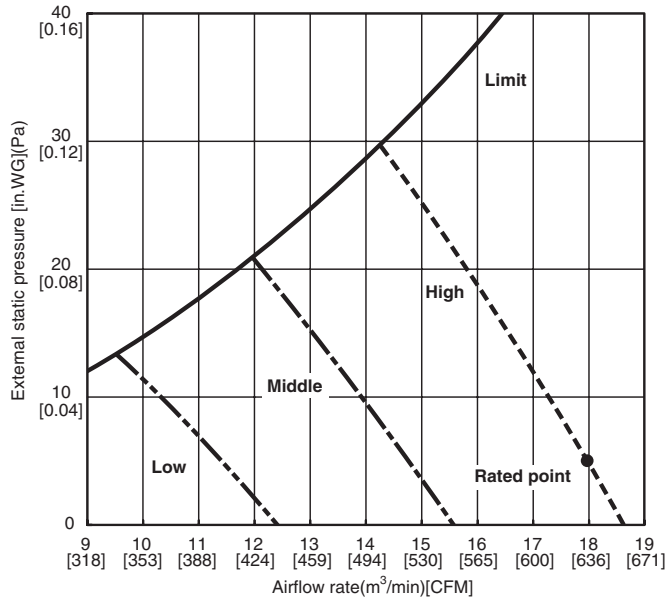
(External static pressure 0.200[in.WG](50Pa) 208/230V 60Hz)



INDOOR UNIT PEA-A18AA4** FAN PERFORMANCE AND AIRFLOW RATES

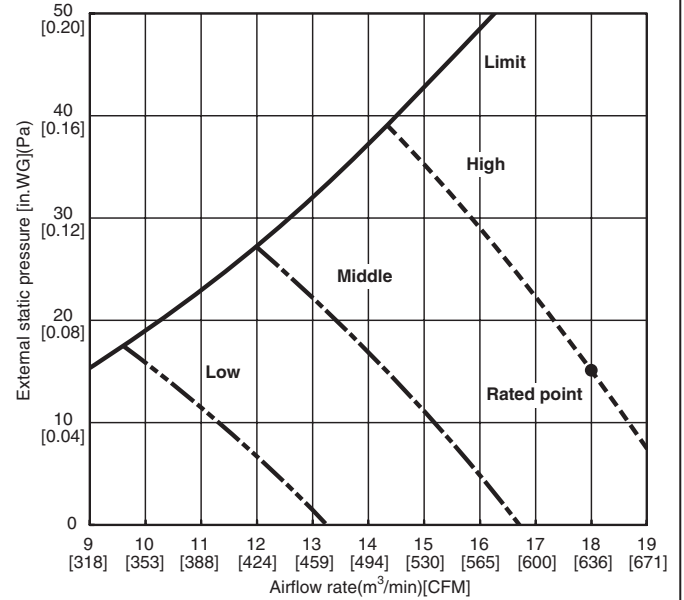
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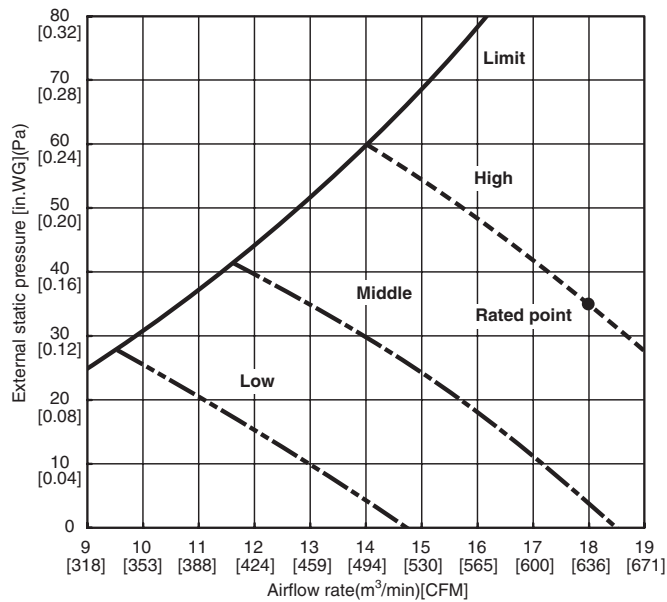
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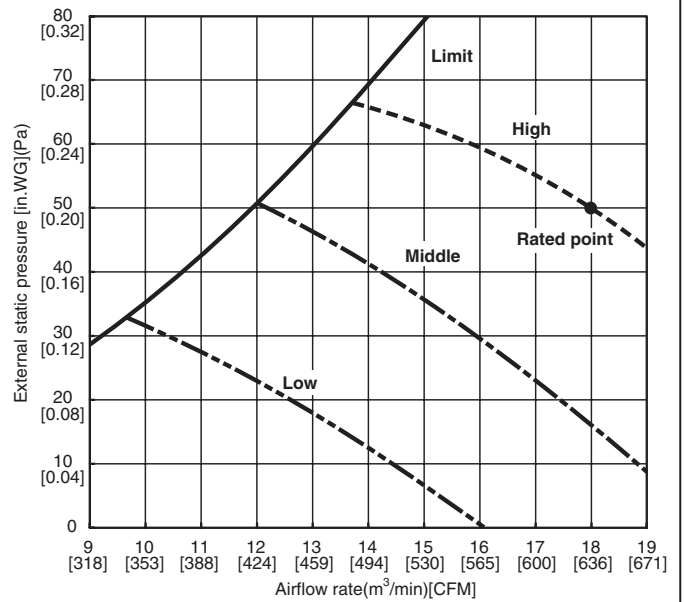
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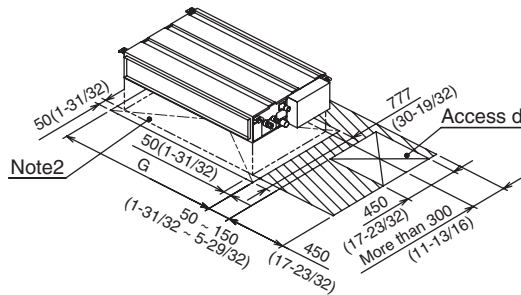
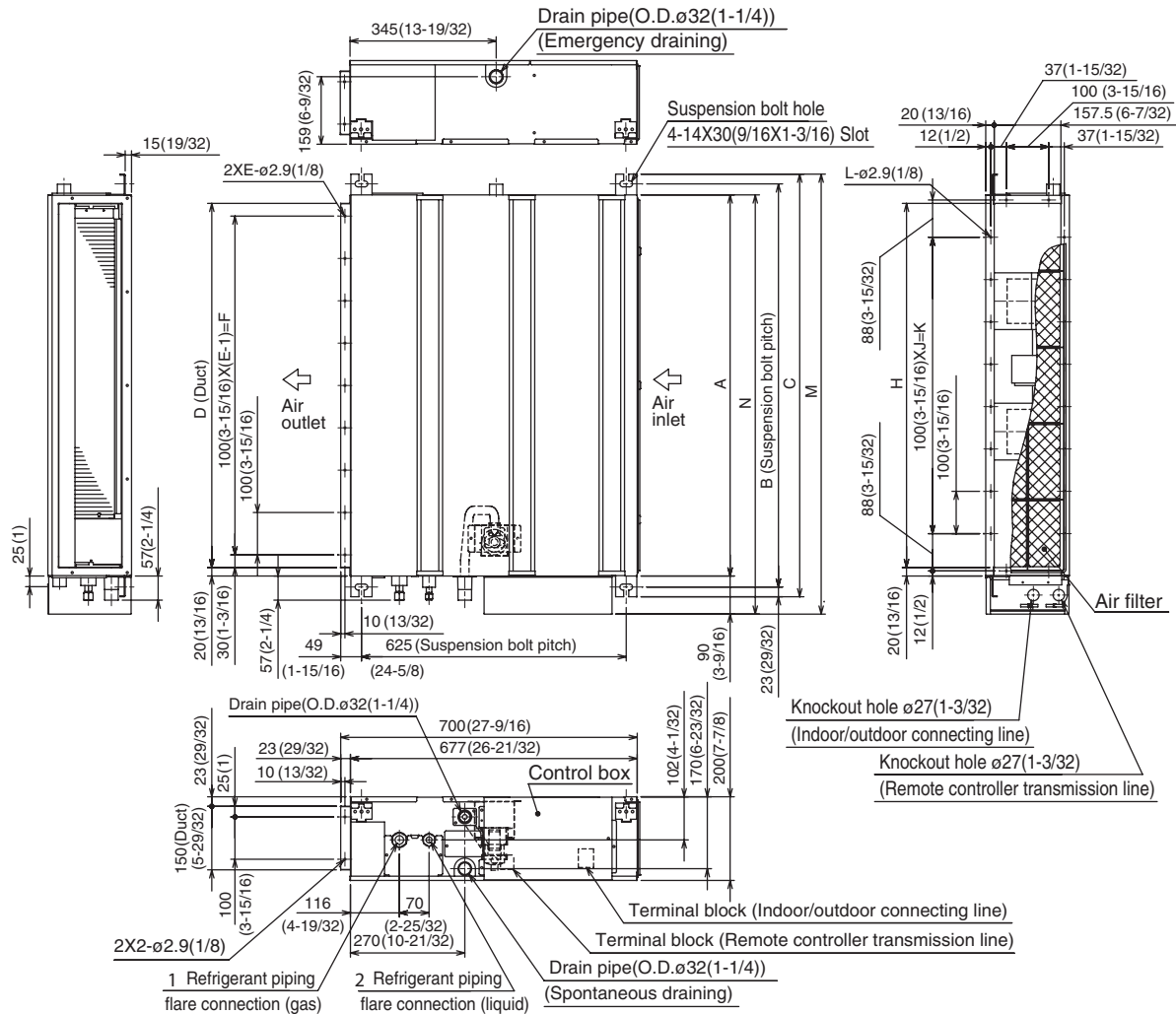
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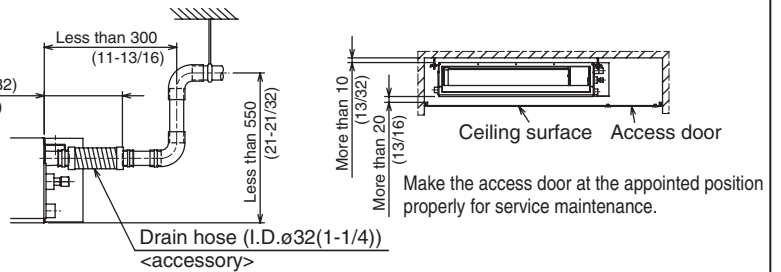


DIMENSIONS: PEA-A18AA4**

Unit : mm(in.)



Required space for service and maintenance



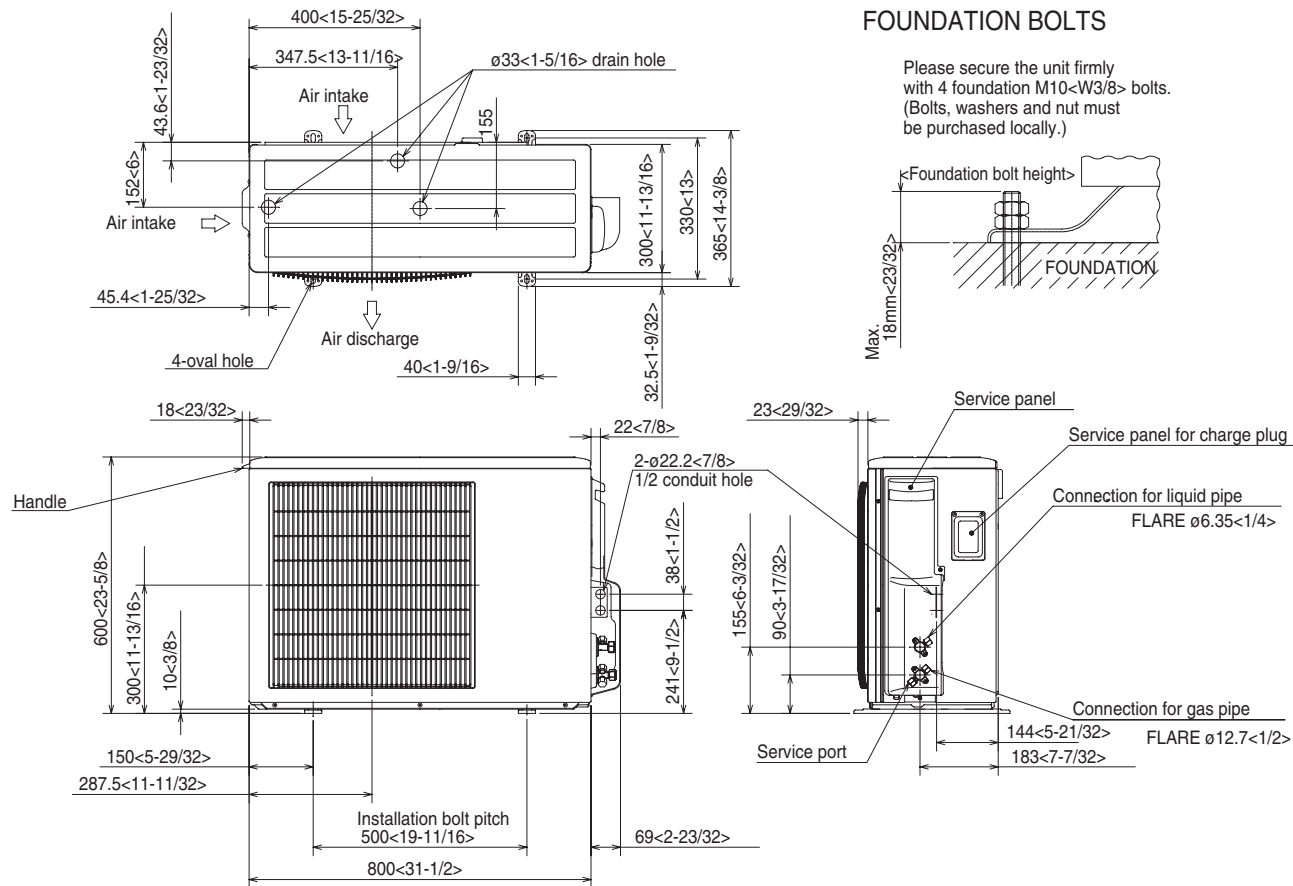
mm(in.)

Model	A	B	C	D	E	F	G	H	J	K	L	M	N	① Gas pipe	② Liquid pipe
PEA-A12AA4	900 (35-7/16)	952 (37-1/2)	998 (39-5/16)	860 (33-7/8)	9	800 (31-1/2)	1000 (39-3/8)	860 (33-7/8)	7	700 (27-9/16)	20	1039 (40-29/32)	990 (39)	ø12.7(1/2)	ø6.35(1/4)
PEA-A18AA4	1100 (43-5/16)	1152 (45-3/8)	1198 (47-3/16)	1060 (41-3/4)	11	1000 (39-3/8)	1200 (47-1/4)	1060 (41-3/4)	9	900 (35-7/16)	24	1239 (48-25/32)	1190 (46-7/8)		

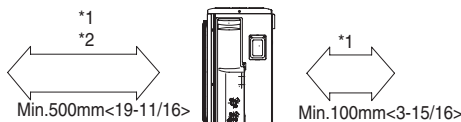
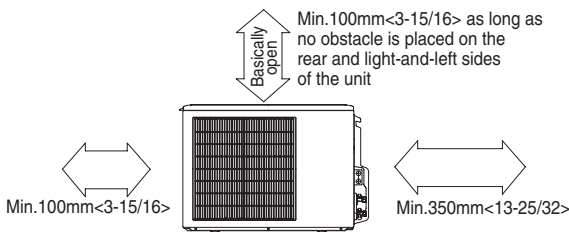
- Note1. Use M10 screw for the suspension bolt (field supply).
 Note2. Keep the service space for the maintenance at the bottom.
 3. This chart indicates for PEA-A12AA4 model, which has 2 fans.
 PEA-A18AA4 models have 4 fans.
 4. In case an inlet duct is used, remove the air filter (supply with the unit), then install the filter (field supply) at suction side.

DIMENSIONS: PUZ-A18NHA4 (-BS)

Unit : mm<inch>



Clearance space needed around the outdoor unit



2 sides should be open in the right, left and rear side.

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.



COOLING & HEATING

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