

Submittal Data: PEAD-A24AA7 & PUZ-HA24NHA1

24,000 BTU/H Horizontal-Ducted AHU Cold Climate Heat Pump System

Job Name:	Location:		
Purchaser:	Submitted By:		
Submitted To:	Reference:	Approval:	Construction:
Engineer:	Date:	Application:	



Optional Controller

Images provided for reference purposes only

Outdoor Standard Features:	Description:
Blue Fin Coating	Prolong condenser operating life
Inverter Motor	Energy efficient operation with variable speed DC motor
Built in base pan heater	Automated control to prevent premature failure of condenser coil
Auto mode	Automatically switches between heating & cooling modes
Fast Auto restart	Automatically restarts after power failure return
Auxiliary heat lock out	Prevents premature activation of aux. heat
Automated compressor cutout	Prevents inefficient operation & protects compressor
Cold climate heat pump	

Indoor Standard Features:	Description:
Unobtrusive ceiling-concealed design for short-run ductwork	
Wide ranging external static pressure (0.14-0.60 in. WG)	
Built-in condensate lift mechanism (up to 27-9/16")	
Auto fan speed mode	
Wired or wireless controllers	

Description: (Optional Accessories)	Model No.
Front Windscreen	PFR-24-30
Rear Snow Guard	PRE-24-30
Side Snow Guard	PSD-24-30
Filter Box	PAC-KE93TB-E
Filter Box with MERV 13 Filter	FBM2-3-A
Distribution Pipe used for Twinning	MSDD-50TR-E (refer to manual)

Note:

- Mitsubishi Electric Sales Canada Inc. (MESCA) supports the use of only MESCA supplied and approved components and accessories for proper functioning of the unit(s). Use of non - MESCA supported components and accessories will affect warranty coverage. MESCA recommends (A) consideration of all applicable design and application parameters and requirements specific to any project.
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Performance:

Cooling at 95°F ¹	Rated Capacity	Btu/h	24,000
	Capacity Range	Btu/h	10,000 - 24,000
	Rated Power Input	W	2,080
	Power Input Range	W	740 - 2,080
	Moisture Removal	pints/h	6.9
	Sensible Heat Factor		0.68
Heating at 47°F ²	Rated Capacity	Btu/h	25,000
	Capacity Range	Btu/h	10,000 - 28,000
	Rated Power Input	W	1,920
	Power Input Range	W	630 - 2,280
Heating at 17°F ³	Maximum Capacity	Btu/h	25,000
	Rated Capacity	Btu/h	18,000
	Capacity Range	Btu/h	NA - 25,000
	Maximum Power Input	W	3,450
	Rated Power Input	W	2,096
	Power Input Range	W	NA - 3,450
Heating at 5°F ⁴	Maximum Capacity	Btu/h	25,000
	Maximum Power Input	W	3,755
Heating at -13°F ⁵	Maximum Capacity	Btu/h	20,000
	Maximum Power Input	W	3,836

Efficiency:

SEER		16.6
EER ¹		11.5
HSPF (IV)		10.4
COP at 47°F ²	Rated Capacity	3.82
COP at 17°F ³	Maximum Capacity	2.12
COP at 5°F ⁴	Maximum Capacity	2.00

Electrical:

Power Supply		208/230V, 1Ph, 60Hz
Voltage: Indoor - Outdoor, S1-S2	V AC	AC 208/230V
Voltage: Indoor - Outdoor, S2-S3	V DC	DC 24V
Short-circuit Current Rating (SCCR)	kA	5
Recommended Fuse/Breaker Size (Outdoor)	A	25
Recommended Wire Size (Indoor - Outdoor)	AWG	14

Outdoor Operating Temperature Range:

Cooling Operation Air Temp (Maximum / Minimum)*	°F (°C)	* 0 to 115 (-18 to 46)
Cooling Operation Thermal Lock-out / Re-start Temperatures	°F (°C)	-1 / 3 (-18 / -16)
Heating Operation Air Temp (Maximum / Minimum)	°F (°C)	-13 to 75 (-25 to 24)
Heating Operation Thermal Lock-out / Re-start Temperatures	°F (°C)	-22 / -13 (-30 / -25)

AHRI Rated Conditions (Rated data is determined at a fixed compressor speed) (* Windscreens required for cooling operations below 23°F (-5°C))

¹Cooling (Indoor // Outdoor) 80°F (26.6°C) DB, 67°F (19.4°C) WB // 95°F (35°C) DB, 75°F (23.9°C) WB

²Heating at 47°F (8.3°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // 47°F (8.3°C) DB, 43°F (6.1°C) WB

³Heating at 17°F (-8.3°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // 17°F (-8.3°C) DB, 15°F (-9.4°C) WB

Rated conditions:

⁴Heating at 5°F (-15°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // 5°F (-15°C) DB, 4°F (-15.6°C) WB

⁵Heating at -13°F (-25°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // -13°F (-25°C) DB, -15°F (-26.1°C) WB

Notes:

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Indoor Unit Specifications:

MCA	A	2.63
Blower Motor Full Load Amperage	A	2.10
Blower Motor Output	W	121
External Static Pressure	in WG	0.14 - 0.20 - 0.28 - 0.40 - 0.60
Airflow Rate at Cooling, Dry	CFM	512 - 635 - 741
Airflow Rate at Cooling, Wet	CFM	472 - 595 - 701
Airflow Rate at Heating, Dry	CFM	512 - 635 - 741
Sound Pressure Level (Cooling)	dB(A)	30 - 33 - 37
Sound Pressure Level (Heating)	dB(A)	30 - 33 - 37
Drain Pipe Size	In. (mm)	1-1/4 (32)
External Finish Color		Galvanized
Unit Dimensions	W: In. (mm)	43-5/16 (1,100)
	D: In. (mm)	28-7/8 (732)
	H: In. (mm)	9-7/8 (250)
Unit Weight	Lbs. (kg)	69 (31)

Outdoor Unit Specifications:

MCA	A	17
MOCP	A	27
Fan Motor Output	W	74
Airflow Rate (Cooling/Heating)	CFM	1,940 / 1,940
Sound Pressure Level, Cooling1	dB(A)	52
Sound Pressure Level, Heating2	dB(A)	53
Refrigerant Control		LEV
Compressor Oil Type / Charge	oz.	FVC68D / 34 oz
External Finish Color		Ivory Munsell No.3Y 7.8/1.1
Unit Weight	Lbs. (kg)	190 (86)
Unit Dimensions	W: In. (mm)	37-13/32 (950)
	D: In. (mm)	12-63/64 + 63/64 (330 + 25)
	H: In. (mm)	37-1/8 (943)
Gas Pipe Size O.D. (Flared)	In. (mm)	5/8 (15.88)
Liquid Pipe Size O.D. (Flared)	In. (mm)	3/8 (9.52)
Maximum Piping Length	Ft. (m)	165 (50)
Maximum Height Difference	Ft. (m)	100 (30)

Description: (Optional Controls)

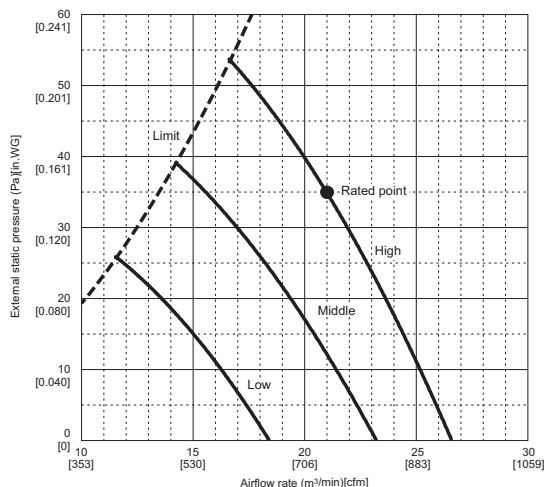
Model No.

Building automated system DDC Interface	MELCO-RETAIL-MINI
Building automated system BacNet Interface	MELCO-BEMS-MINI
MNet adapter (BacNet/LonWorks BAS sub interface)	PAC-SJ95MA-E
Simple thermostat Interface	PAC-US444CN-1
Operation/error display adapter	PAC-SA88HA-EP
Remote ON/OFF control	PAC-SE55RA-E
Remote compressor ON/OFF control	PAC-SC36NA-E
Wireless Signal Receiver	PAR-SA9CA-E
Wireless remote receiver	PAR-FA32MA-E
Wireless MA Remote Controller	PAR-FL32MA-E
Wired wall mounted remote control	PAR-40MAAU
Wireless wall mounted remote control	MHK1
Touch screen wired wall mounted control	PAR-CT01MAU-SB
Basic wired wall mounted control	PAC-YT53CRAU-J
External heat control adapter	PAC-YU25HT-G
Heater control relay	PAM-4
Deluxe thermostat interface	RMF-CA100-V1

Fan Performance and Corrected Airflow:

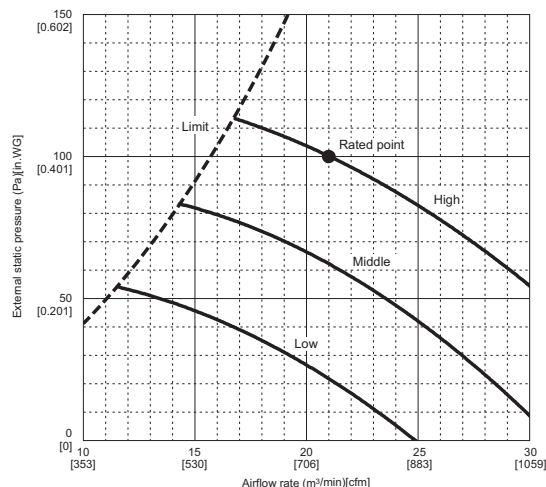
PEAD-A24AA7

(External static pressure 35Pa) 208-230V 60Hz



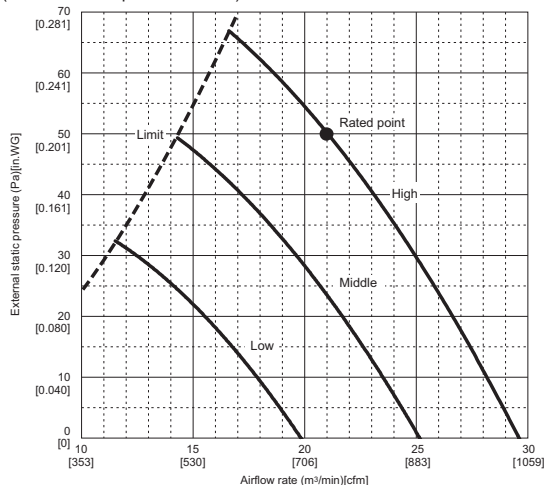
PEAD-A24AA7

(External static pressure 100Pa) 208-230V 60Hz



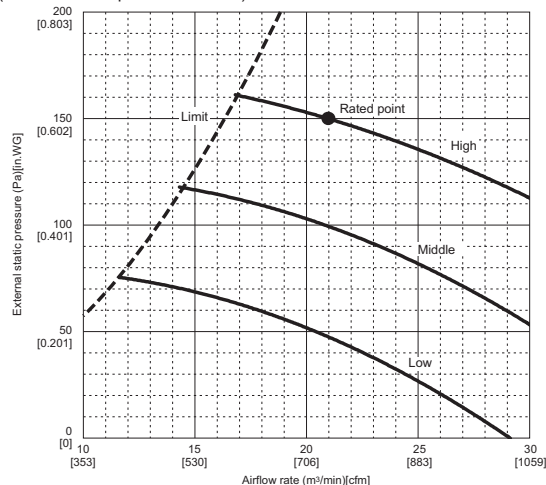
PEAD-A24AA7

(External static pressure 50Pa) 208-230V 60Hz



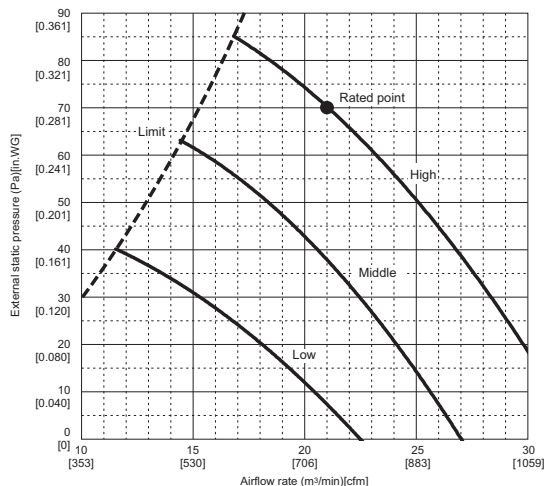
PEAD-A24AA7

(External static pressure 150Pa) 208-230V 60Hz



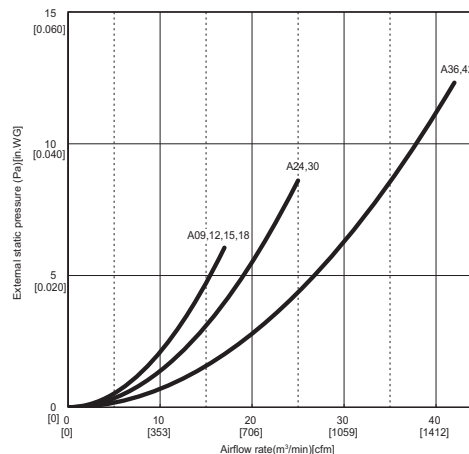
PEAD-A24AA7

(External static pressure 70Pa) 208-230V 60Hz

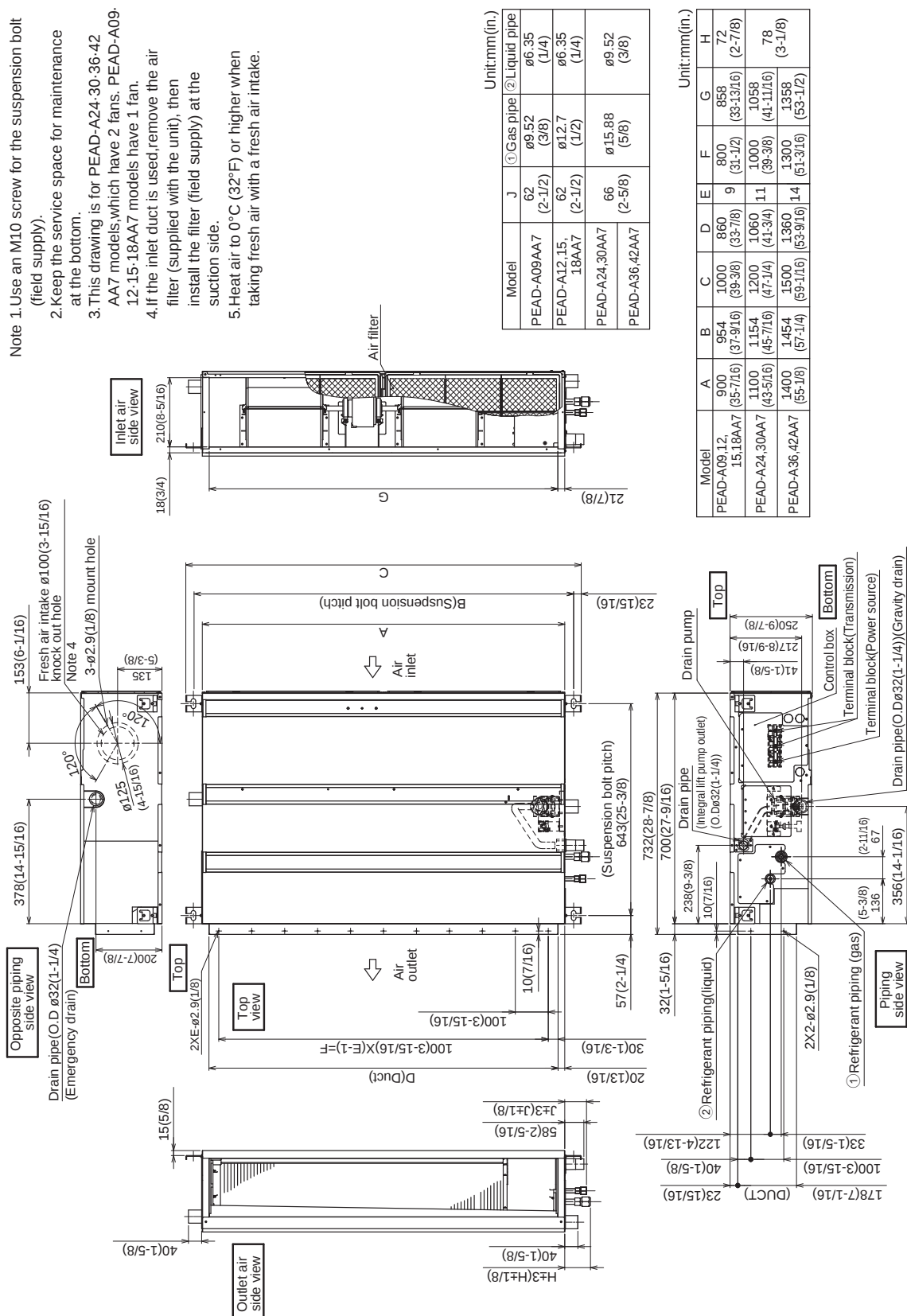


PEAD-A09,12,15,18,24,30,36,42AA7

Air filter 208-230V 60Hz



Indoor Unit Outline and Dimensions:



Note 1. Use an M10 screw for the suspension bolt (field supply).

2. Keep the service space for maintenance at the bottom.

3. This drawing is for PEAD-A24-30-36-42 AA7 models, which have 2 fans. PEAD-A09-12-15-18AA7 models have 1 fan.

4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.

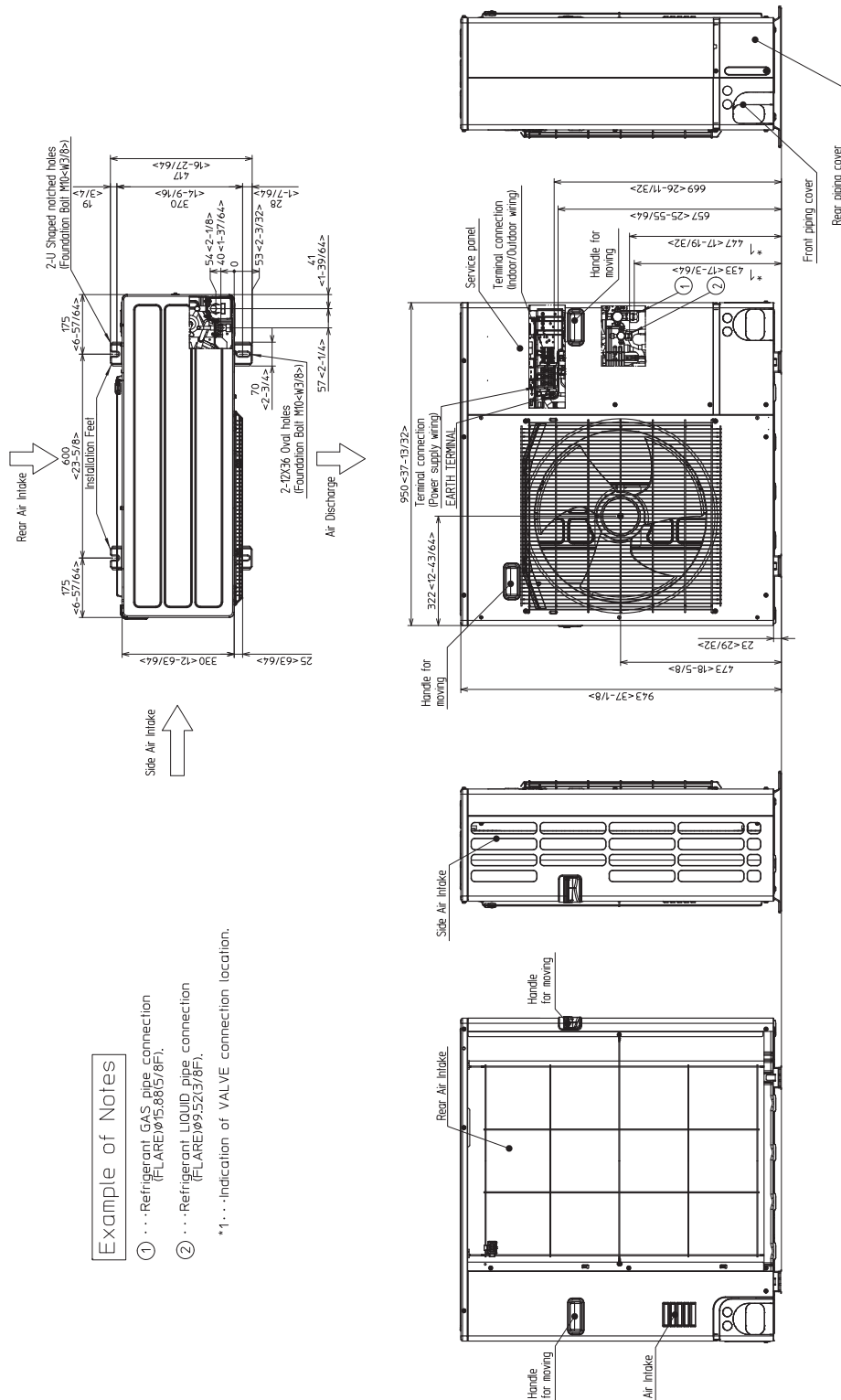
5. Heat air to 0°C (32°F) or higher when taking fresh air with a fresh air intake.

Model	J	① Gas pipe	② Liquid pipe	Unit:mm (in.)
PEAD-A09A7	62 (2-1/2)	ø5.52 (3/8)	ø6.35 (1/4)	
PEAD-A12.15, 18A7	62 (2-1/2)	ø12.7 (1/2)	ø6.35 (1/4)	
PEAD-A24.30A7	66 (2-5/8)	ø15.88 (5/8)		ø9.52 (3/8)
PEAD-A36.42A7				

Model	A	B	C	D	E	F	G	H
PEAD-A09.12	900	954	1000	860	900	800	958	72
15.18AA7	(35.7/16)	(37.9/16)	(39.3/8)	(33.7/8)	9	(31.1/2)	(33.13/16)	(2.7/8)
PEAD-A24.30AA7	1100	1154	1200	1060	1000	1058		
	(43.5/16)	(45.7/16)	(47.1/4)	(41.3/4)	11	(39.3/8)	(41.11/16)	78
PEAD-A36.42AA7	1400	1454	1500	1360	1300	1358		
	(55.1/8)	(57.1/4)	(59.1/16)	(53.9/16)	14	(51.3/16)	(53.1/2)	(3.1/8)

Outdoor Unit Outline and Dimensions:

Unit: mm<in>



Example of Notes

- ① ... Refrigerant GAS pipe connection (FLARE) Ø15.88(5/8F).
- ② ... Refrigerant LIQUID pipe connection (FLARE) Ø9.52(3/8F).

*1... Indication of VALVE connection location.

