MITSUBISHI ELECTRIC
Heating and Cooling

Submittal Data: PVA-A36AA7 & PUZ-HA36NKA

36,000 BTU/H Multi Position 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:
Multi position	Increases application in tight spaces
Less than 2% air leakage	At 1.0 in. WG, ASHRAE standard 193
Built in humidification & ventilation controls	Controls humidifier and ventilator
Direct auxiliary heat control	Heat pump system controls aux. heat
Condensate overflow fail safe	CN4F, condensate overflow safety switch connector

Description: (Optional Accessories)		Model No.
Front Windscreen	☐	CM-S-FR-NKMU (x2 required)
Front Windscreen Blocker	☐	CM-S-BLK-NKMU (x2 per box)
Rear Snow Guard	☐	SG-1-RE
Side Snow Guard	☐	SG-1-SD
Return Air Intake	☐	PV-RTN-36-42
Electric Heater Kit - 10kW	☐	EH10-MPA-LB
Electric Heater Kit - 15kW	☐	EH15-MPAS-LB
Terminal Block Kit	☐	SPTB1
Distribution Pipe used for Twinning	☐	MSDD-50TR-E (refer to manual)

Note:

1. 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.

2. Should any person change this document in any manner whatsoever without MESCA's written permission, the document shall be of no force and effect and any change shall be deemed to be a representation and warranty made by that person and not MESCA. That person, and not MESCA, shall assume full responsibility for the consequences of such changes. MESCA assumes no responsibility for any consequences in such cases.

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Performance:			
Cooling at 95°F[1]	Rated Capacity	Btu/h	33,000
	Capacity Range	Btu/h	15,500 - 36,000
	Rated Power Input	W	2,500
	Power Input Range	W	1,030 - 2,800
	Moisture Removal	pints/h	3.8
	Sensible Heat Factor		0.87
Heating at 47°F[2]	Rated Capacity	Btu/h	38,000
	Capacity Range	Btu/h	18,600 - 40,000
	Rated Power Input	W	2,850
	Power Input Range	W	1,000 - 3,070
Heating at 17°F[3]	Maximum Capacity	Btu/h	38,000
	Rated Capacity	Btu/h	24,600
	Capacity Range	Btu/h	NA - 38,000
	Maximum Power Input	W	4,895
	Rated Power Input	W	2,825
	Power Input Range	W	NA - 4,895
Heating at 5°F[4]	Maximum Capacity	Btu/h	38,000
	Maximum Power Input	W	5,651
Heating at -13°F[5]	Maximum Capacity	Btu/h	30,400
	Maximum Power Input	W	5,772

Efficiency:		
SEER		18.2
EER[1]		13.0
HSPF (IV)		11.2
COP at 47°F[2]	Rated Capacity	3.90
COP at 17°F[3]	Maximum Capacity	2.27
COP at 5°F[4]	Maximum Capacity	2.17

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	35
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))

[1]Cooling (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

[2]Heating 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

[3]Heating 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:

[4]Heating 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

[5]Heating 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	5.5
MOCP **(only used with SPTB1 powering Indoor separately)**	A	15
Blower Motor Full Load Amperage	A	4.40
Blower Motor Output	W	431
External Static Pressure	in WG	0.30 - 0.50 - 0.80
Airflow Rate at Cooling, Dry	CFM	788 - 956 - 1,125
Airflow Rate at Cooling, Wet	CFM	NA
Airflow Rate at Heating, Dry	CFM	788 - 956 - 1,125
Sound Pressure Level (Cooling)	dB(A)	32 - 36 - 40
Sound Pressure Level (Heating)	dB(A)	32 - 36 - 40
Drain Pipe Size	In. (mm)	3/4 (19)
External Finish Color		**Galvanized steel cabinet - Powder coated Slate Gray**
Unit Dimensions	W: In. (mm)	25 (635)
	D: In. (mm)	21-5/8 (548)
	H: In. (mm)	59-1/2 (1,511)
Unit Weight	Lbs. (kg)	172 (78)

Outdoor Unit Specifications:		
MCA	A	26
MOCP	A	42
Fan Motor Output	W	74 + 74
Airflow Rate (Cooling/Heating)	CFM	3,880 / 3,880
Sound Pressure Level, Cooling1	dB(A)	52
Sound Pressure Level, Heating2	dB(A)	53
Refrigerant Control		LEV
Compressor Oil Type / Charge	oz.	FV50S / 47 oz
External Finish Color		Ivory Munsell No.3Y 7.8/1.1
Unit Weight	Lbs. (kg)	261 (118)
Unit Dimensions	W: In. (mm)	41-11/32 (1,050)
	D: In. (mm)	12-63/64 + 63/64 (330 +25)
	H: In. (mm)	52-43/64 (1,338)
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)	245 (75)
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
Simple thermostat Interface	☐	PAC-US444CN-1
Operation/error display adapter	☐	PAC-SA88HA-EP
Remote ON/OFF control	☐	PAC-SE55RA-E
Remote compress ON/OFF control	☐	PAC-SC36NA-E
Wireless remote receiver	☐	PAR-FA32MA-E
Wired wall mounted remote control	☐	PAR-40MAA
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
MNet adapter (BacNet/LonWorks BAS sub interface)	☐	PAC-SJ95MA-E

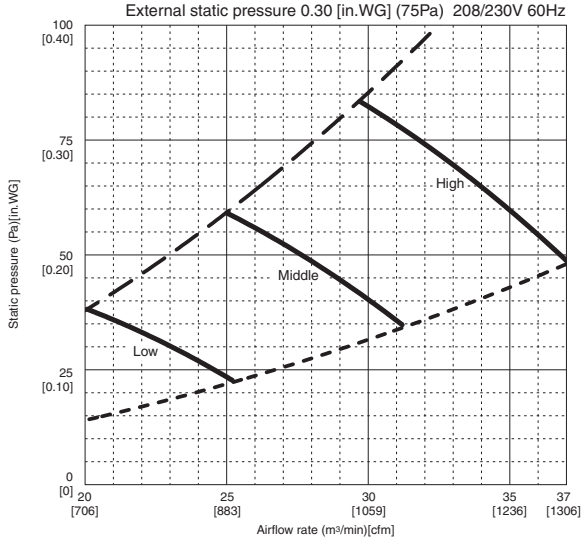
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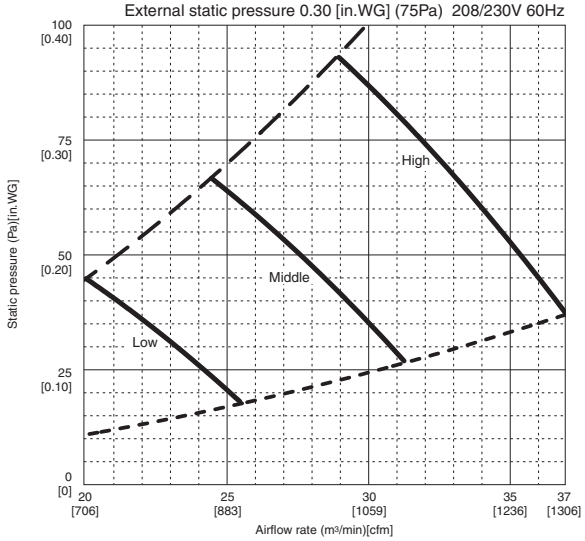
Fan Performance and Corrected Airflow:

• Vertical, Horizontal Right, Horizontal Left • Downflow

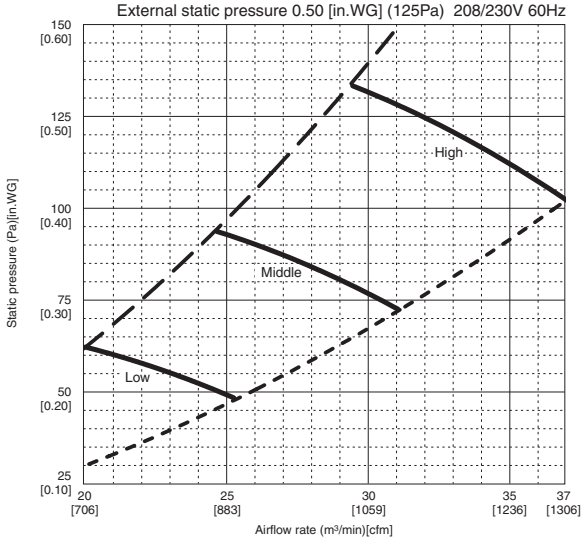
External static pressure 0.30 [in.WG] (75Pa) 208/230V 60Hz



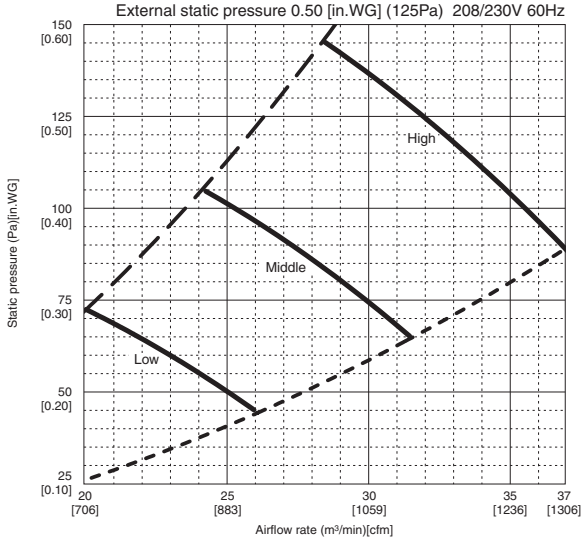
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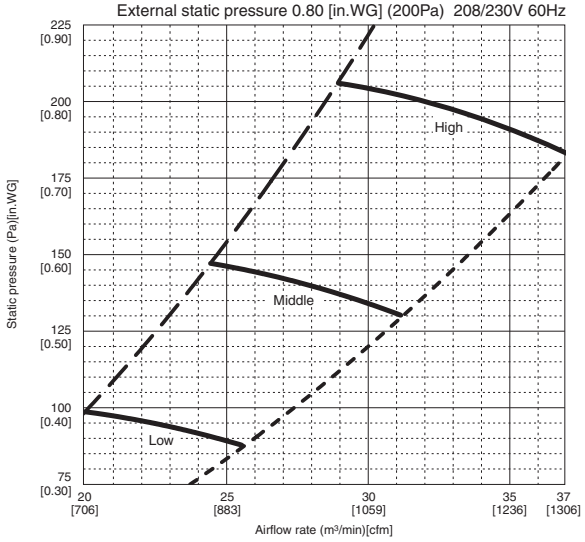
External static pressure 0.50 [in.WG] (125Pa) 208/230V 60Hz



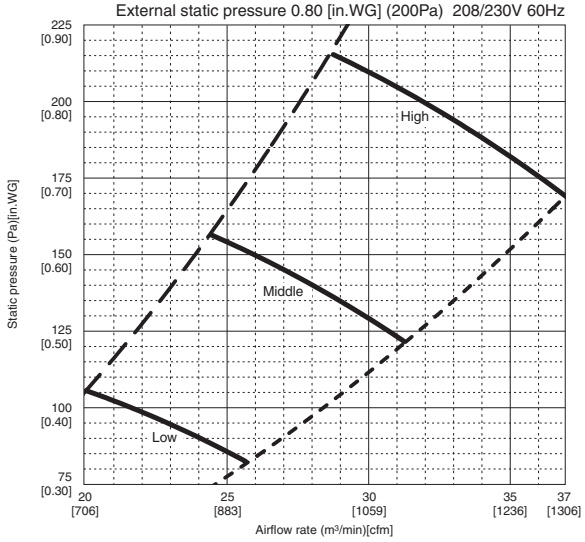
External static pressure 0.50 [in.WG] (125Pa) 208/230V 60Hz



External static pressure 0.80 [in.WG] (200Pa) 208/230V 60Hz



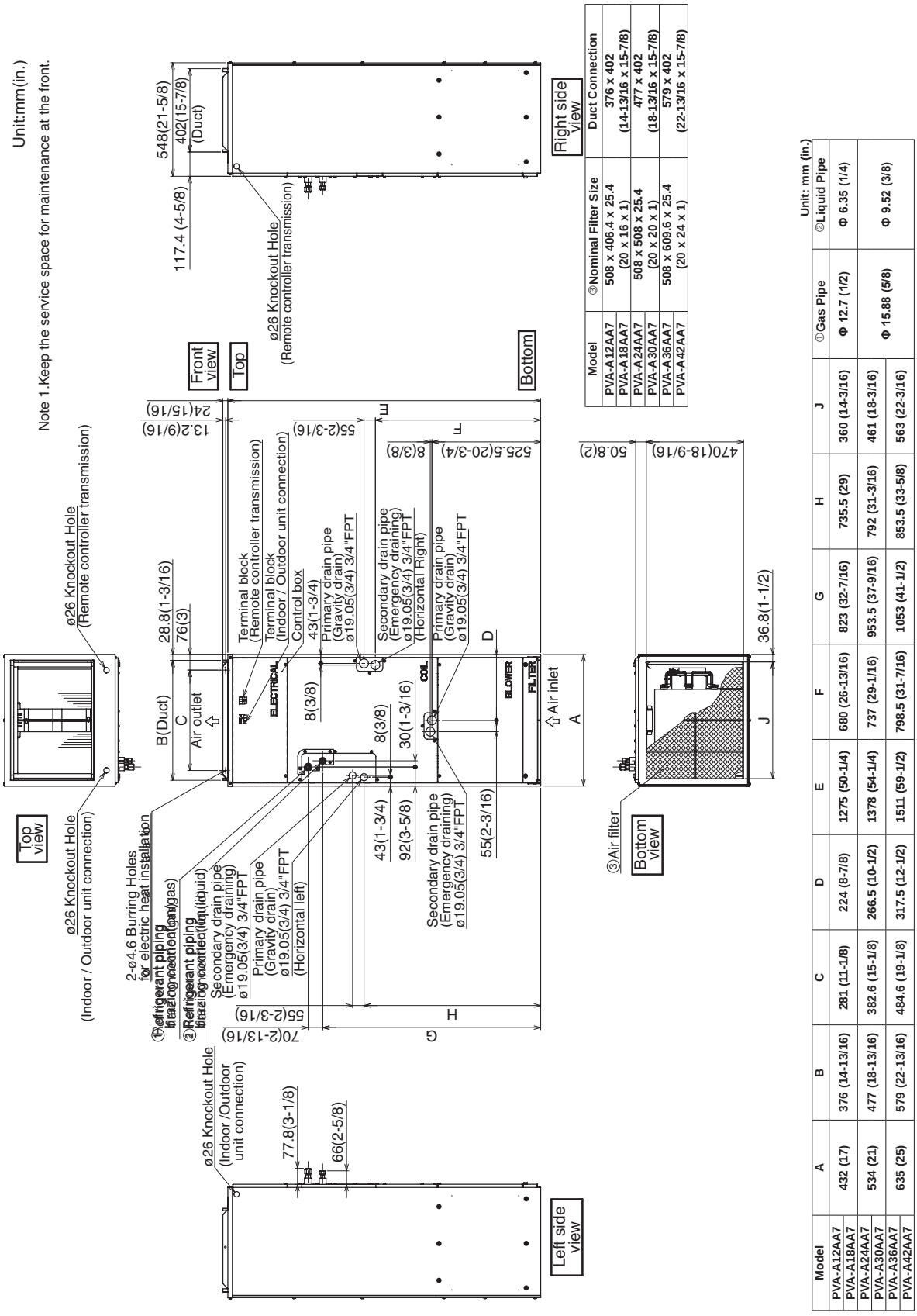
External static pressure 0.80 [in.WG] (200Pa) 208/230V 60Hz



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Indoor Unit Outline and Dimensions:



Model	Nominal Filter Size	Duct Connection
PVA-A12AA7	508 x 406.4 x 25.4 (20 x 16 x 1)	376 x 402 (14-13/16 x 15-7/8)
PVA-A18AA7		
PVA-A24AA7	508 x 508 x 25.4 (20 x 20 x 1)	477 x 402 (18-13/16 x 15-7/8)
PVA-A30AA7		
PVA-A36AA7	508 x 609.6 x 25.4 (20 x 24 x 1)	579 x 402 (22-13/16 x 15-7/8)
PVA-A42AA7		

Unit: mm (in.)

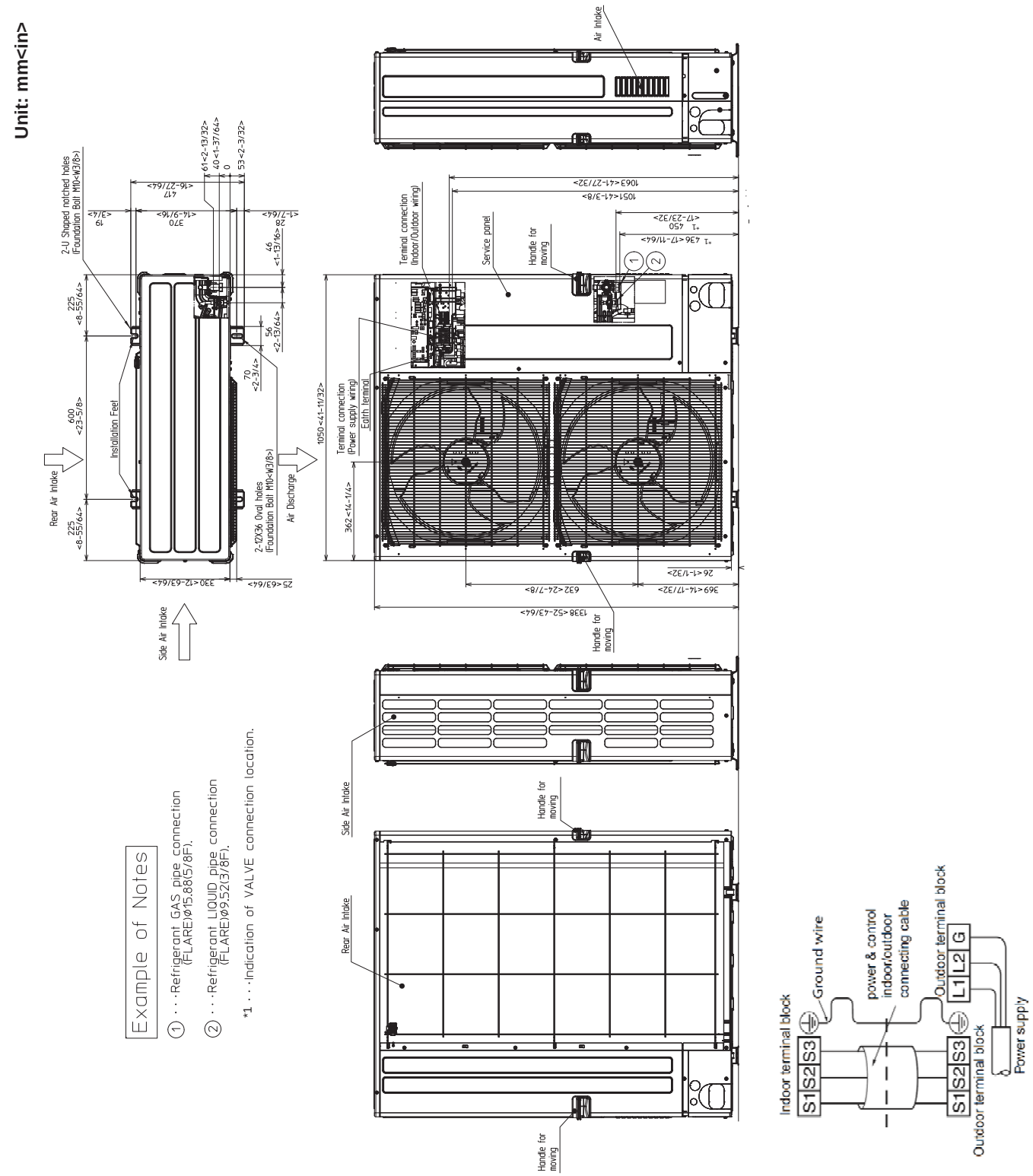
Model	A	B	C	D	E	F	G	H	J	①Gas Pipe	②Liquid Pipe
PVA-A12AA7	432 (17)	376 (14-13/16)	281 (11-1/8)	224 (8-7/8)	1275 (50-1/4)	680 (26-13/16)	823 (32-7/16)	735.5 (29)	360 (14-3/16)	Φ 12.7 (1/2)	Φ 6.35 (1/4)
PVA-A18AA7											
PVA-A24AA7	534 (21)	477 (18-13/16)	382.6 (15-1/8)	266.5 (10-1/2)	1378 (54-1/4)	737 (29-1/16)	953.5 (37-9/16)	792 (31-3/16)	461 (18-3/16)	Φ 15.88 (5/8)	Φ 9.52 (3/8)
PVA-A30AA7											
PVA-A36AA7	635 (25)	579 (22-13/16)	484.6 (19-1/8)	317.5 (12-1/2)	1511 (59-1/2)	798.5 (31-7/16)	1053 (41-1/2)	853.5 (33-5/8)	563 (22-3/16)		
PVA-A42AA7											

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Outdoor Unit Outline and Dimensions:



AHRI CERTIFIED www.ahridirectory.org Unitary Small HP AHRI Standard 210/240
Intertek
MITSUBISHI ELECTRIC Changes for the Better

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