MITSUBISHI ELECTRIC
Heating and Cooling

P-SERIES

SUBMITTAL DATA: PLA-A24EA7 & PUZ-HA24NHA

24,000 BTU/H CEILING CASSETTE HEAT PUMP SYSTEM

Job Name:	Engineer:
Purchaser:	Application:
Submitted To:	For: ☐Reference ☐Approval ☐Construction
Submitted By:	Location:
System Designation:	Schedule No.:

Indoor Unit: PLA-A24EA7

Outdoor Unit: PUZ-HA24NHA

ACCESSORIES:

Indoor Unit

- ☐ Multifunction Casement / High Efficiency Filter (PAC-SJ41TM-E / PAC-SH59KF-E)
- ☐ Grille with 3D i-see Sensor™ (PLP-40EAEU) - (Required ordered separately)
- ☐ External Heater Adaptor (PAC-SE56RA-E)

Optinal Controls

- ☐ Wireless Controller (MHK1)
- ☐ Advanced Wired Controller (PAR-40MAA)
- ☐ Simple Wired Controller (PAC-YT53CRAU)
- ☐ Thermostat Interface (PAC-US444CN)
- ☐ M-NET Adapter (PAC-SJ95MA-E)

Outdoor Unit — 11-3/4 [1-9/16] x 33-1/16 [37-13/32] x 33-1/16 [37-13/32] (298 [40] x 840 [950] x 840 [950])

- ☐ Rear Snow Guard (PRE-24-30)
- ☐ Side Snow Guard (PSD-24-30)
- ☐ Front Wind Deflector (PFR-24-30)

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s). Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.

SPECIFICATIONS:

Rated Conditions (Capacity / Input)*		
Cooling	Btu/h / W	24,000 / 1,710
Heating at 47° F (Max.)	Btu/h / W	26,000 / 1,700
Heating at 17° F (Max.)	Btu/h / W	26,000 / 3,000

* Rating Conditions per AHRI Standard:
Cooling | Indoor: 80°F (27°C) DB / 67°F (19°C) WB; 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; 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; Outdoor: 17°F (-8°C) DB / 15°F (-9°C) WB

Capacity Range		
Cooling	Btu/h	10,000 - 24,000
Heating at 47°F	Btu/h	10,000 - 28,000

Operating Range	
Cooling	0° F** to 115° F (-18° C to 46° C) DB
Heating	-13° F to 70° F (-25° C to 21° C) DB

** Windscreens required for cooling operation below 23°F (-5°C)

AHRI Efficiency Ratings	
EER	14.0
SEER	21.5
HSPF IV / V	12.0 / NA
COP at 47° F (Rated)	4.48
COP at 17° F (Max.)	2.54
COP at 5° F (Max.)	2.00

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz

Minimum Circuit Ampacity (MCA) *		ODU Breaker Size	MOCP (Outdoor)
Indoor 1 AMP	Outdoor 19 AMP	25 AMP	26 AMP

***All electrical work shall comply with National (CEC) and local codes and regulations.**

Indoor Unit		
Fan Motor (ECM)	F.L.A.	0.49
Fan Motor Output	W	120
SHF / Moisture Removal		0.86 / 3.0 pt./h
Drain Lift Mechanism (Included)	H: In.	33-7/16
Field Drainpipe Size O.D	in. (mm)	1-1/4 (32)

Outdoor Unit		
Compressor		SCROLL
Fan Motor (ECM)	F.L.A.	0.4
Fan Motor Power	W	86

Airflow Rate (Low-M1-M2-Hi)			
Indoor (Cooling)	DRY	CFM	530-640-710-810
	WET		490-600-670-770
Outdoor	DRY		1,940

Sound Pressure Level			
Indoor (Low-M1-M2-Hi)		dB(A)	28-30-33-36
Outdoor	Cooling		52
	Heating		53

External Dimensions		
Indoor (H x W x D)	In.(mm)	11-3/4 (298) x 33-1/16 (840) x 33-1/16 (840)
Grille (H x W x D)		1-9/16 (40) x 37-13/32 (950) X 37-13/32 (950)
Outdoor (H x W x D)		37-1/8 x 37-13/32 x 13 + 1-3/16 (943 x 950 x 330 + 30)

Net Weight		
Indoor Unit (Grille)	Lbs.(kg)	56 / 25 (11 / 5)
Outdoor		188 (85)

External Finish	
Indoor	White Munsel No. 6.4Y 8.9/0.4
Outdoor	Ivory Munsell No. 3Y 7.8 / 1.1

Refrigerant	R410A ; 7lbs., 11oz. (3.5kg)

Refrigerant Piping (Flared)		
Liquid (High Pressure)	In.(mm)	3/8 (9.52)
Gas (Low Pressure)		5/8 (15.88)
Maximum Total Refrigerant Pipe Length	Ft. (m)	165 (50)
Maximum Vertical Separation	Ft. (m)	100 (30)

Specifications are subject to change without notice.

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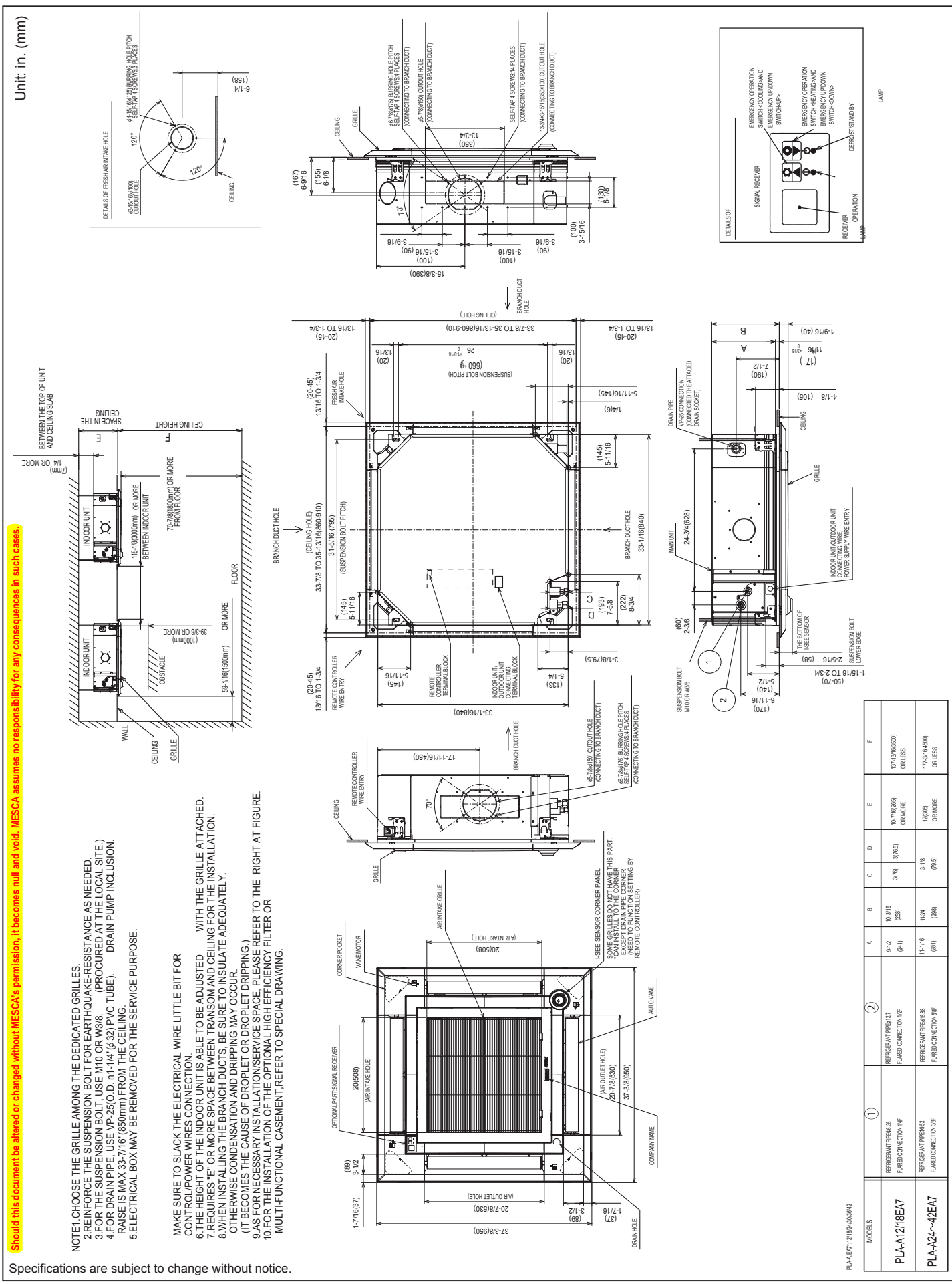
DIMENSIONS: PLA-A24EA7



NOTE1.CHOOSE THE GRILLE AMONG THE DEDICATED GRILLES.
2.REINFORCE THE SUSPENSION BOLT FOR EARTHQUAKE-RESISTANCE AS NEEDED.
3.FOR THE SUSPENSION BOLT, USE M10 OR W3/8. (PROCURED AT THE LOCAL SITE.)
4.FOR DRAIN PIPE, USE VP-25(O.D. n1-1/4"(ø 32) PVC TUBE). DRAIN PUMP INCLUSION.
RAISE IS MAX 33-7/16"(850mm) FROM THE CEILING.
5.ELECTRICAL BOX MAY BE REMOVED FOR THE SERVICE PURPOSE.

MAKE SURE TO SLACK THE ELECTRICAL WIRE LITTLE BIT FOR CONTROL/POWER WIRES CONNECTION.
6.THE HEIGHT OF THE INDOOR UNIT IS ABLE TO BE ADJUSTED WITH THE GRILLE ATTACHED.
7.REQUIRES "H" OR MORE SPACE BETWEEN TRANSOM AND CEILING FOR THE INSTALLATION.
8.WHEN INSTALLING THE BRANCH DUCTS, BE SURE TO INSULATE ADEQUATELY.
OTHERWISE CONDENSATION AND DRIPPING MAY OCCUR.
(IT BECOMES THE CAUSE OF DROPLET OR DROPLET DRIPPING.)
9.AS FOR NECESSARY INSTALLATION/SERVICE SPACE, PLEASE REFER TO THE RIGHT AT FIGURE.
10.FOR THE INSTALLATION OF THE OPTIONAL HIGH EFFICIENCY FILTER OR MULTI-FUNCTIONAL CASEMENT,REFER TO SPECIAL DRAWING.

MODELS	①	②	A	B	C	D	E	F
PLA-A12/18EA7	REFRIGERANT PIPE Ø6.35 FLARED CONNECTION 1/4"	REFRIGERANT PIPE Ø12.7 FLARED CONNECTION 1/2"	9-1/2 (241)	10-3/16 (258)	3(76)	3(765)	10-7/16(265) OR MORE	137-13/16(3500) OR LESS
PLA-A24~42EA7	REFRIGERANT PIPE Ø9.52 FLARED CONNECTION 3/8"	REFRIGERANT PIPE Ø15.88 FLARED CONNECTION 5/8"	11-1/16 (281)	11/34 (286)	3-1/8 (79.5)		12(309) OR MORE	177-3/16(4500) OR LESS

PLA-A.EA7*-12/18/24/30/36/42

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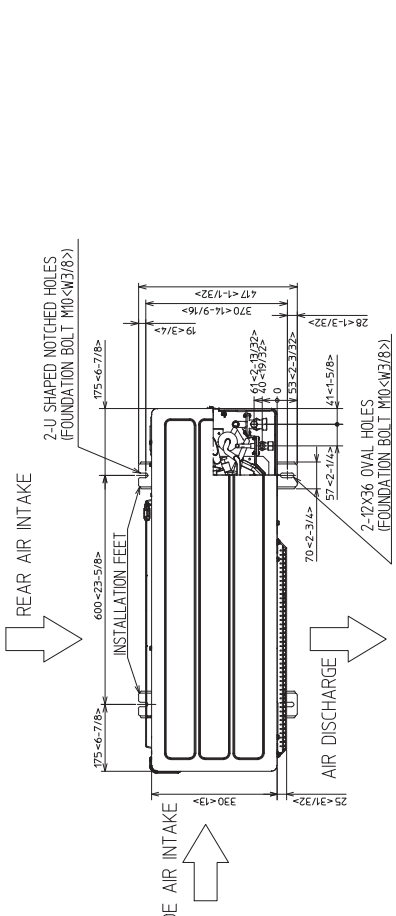
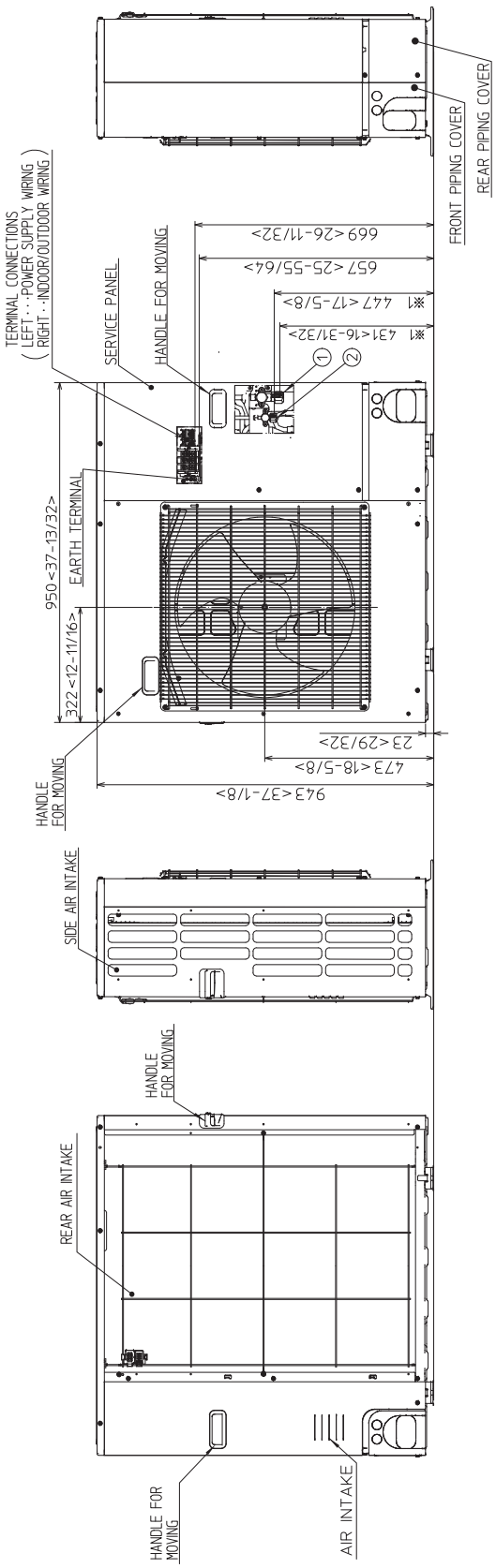
DIMENSIONS: PUZ-HA24NHA

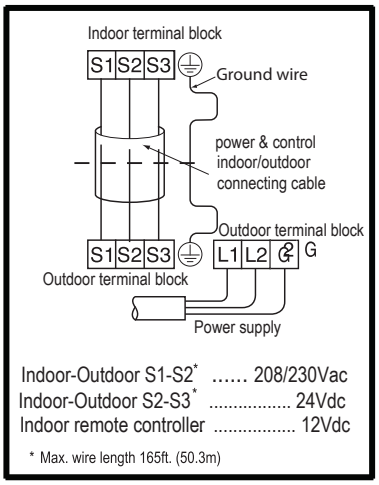
Unit: mm (in.)





EXAMPLE OF NOTES

① ···REFRIGERANT GAS PIPE CONNECTION (FLARE)Ø15.88 (5/8F)
② ···REFRIGERANT LIQUID PIPE CONNECTION (FLARE)Ø 9.52 (3/8F)
※1 ···INDICATION OF STOP VALVE CONNECTION LOCATION.



Indoor-Outdoor S1-S2* 208/230Vac
Indoor-Outdoor S2-S3* 24Vdc
Indoor remote controller 12Vdc

* Max. wire length 165ft. (50.3m)

AHRI CERTIFIED www.ahridirectory.org Unitary Small HP AHRI Standard 210/240 Certification applies only when the complete system is listed with AHRI.

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Changes for the Better

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