

SUBMITTAL DATA: PLA-A12EA7 & PUZ-A12NKA7

12,000 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-A12EA7



Outdoor Unit: PUZ-A12NKA7 (-BS)

UNIT OPTION:

Standard Model.....PUZ-A12NKA7
 Seacoast (BS) Model.....PUZ-A12NKA7-BS

ACCESSORIES:

Indoor Unit

Multifunction Casement / High Efficiency Filter (PAC-SJ41TM-E / PAC-SH59KF-E)
 Grille with 3D i-see Sensor™ (PLP-41EAEU) - (Required ordered separately)
 External Heater Adaptor (PAC-SE56RA-E)

Optional Controls

Wireless Controller (MHK1)
 Advanced Wired Controller (PAR-40MAA)
 Simple Wired Controller (PAC-YT53CRA)
 Thermostat Interface (PAC-US444CN)
 Wireless Remote Controller (PAR-FL32MA)(Requires Signal Receiver (PAR-SR4LU-E))
 M-NET Adapter (PAC-SJ96MA-E)

Outdoor Unit

Front Wind Guard (PFR-12-18)
 Side Wind Guard (PSD-12-18) Rear Wind Guard (PRE-12-18)

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	12,000 / 730
Heating at 47°F	Btu/h / W	14,000 / 830
Heating at 17°F	Btu/h / W	10,100 / 1,170

* 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	5,800 - 12,000
Heating at 47°F	Btu/h	5,500 - 20,000

Operating Range		
Cooling	0°F** (-18°C) to 115°F (46°C) DB	
Heating	12°F (-11°C) to 70°F (21°C) DB	

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

AHRI Efficiency Ratings		
EER		16.4
SEER		27.0
HSPF IV / V		12.8 / 8.8
COP at 47° F		4.94
COP at 17° F		2.53

Specifications are subject to change without notice.

Electrical Power Requirements	208 / 230V, 1-Phase, 60 Hz
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Minimum Circuit Ampacity (MCA) *	Breaker Size	MOCP (Outdoor)
Indoor 1 AMP	Outdoor 11 AMP	15 AMP
		28 AMP

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

Indoor Unit		
Fan Motor (ECM)	F.L.A.	0.36
Fan Motor Output	W	50
SHF / Moisture Removal		0.89 / 1.2 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		DC INVERTER-driven Twin Rotary
Fan Motor (ECM)	F.L.A.	0.5
Fan Motor Power	W	46

Airflow Rate (Low-M1-M2-Hi)			
Indoor (Cooling)	DRY	CFM	420-460-490-530
	WET		380-420-450-490
Outdoor	DRY		1,590

Sound Pressure Level		
Indoor (Low-M1-M2-Hi)		27-28-29-30
Outdoor	Cooling	dB(A)
	Heating	
		44
		46

External Dimensions		
Indoor (H x W x D)	In. (mm)	10-3/16 [1-9/16] x 33-3/32 [37-13/32] x 33-3/32 [37-13/32]
Grille ([H x W x D])		(258 [40] x 840 [950] x 840 [950])
Outdoor (H x W x D)		24-13/16 x 31-13/16 + 7/16 x 11-3/16 (630 x 809 + 62 x 300)

Net Weight		
Indoor (Unit / Grille)	Lbs.(kg)	46 / 11 (21 / 5)
Outdoor		93 (42)

External Finish	
Indoor	Munsell 1.0Y 9.2/0.2
Outdoor	Ivory Munsell No. 3Y 7.8 / 1.1

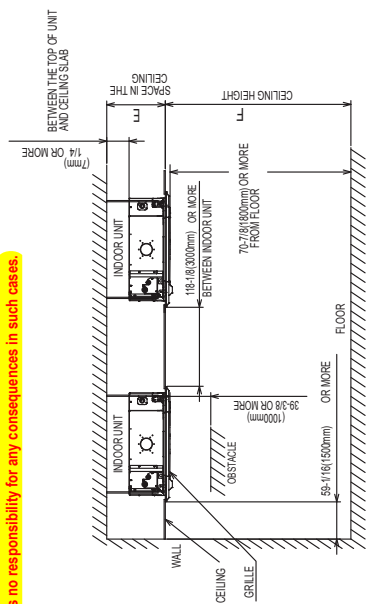
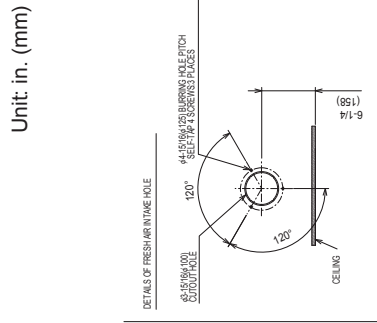
Refrigerant	R410A ; 4lbs., 7oz. (2.0kg)
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Refrigerant Piping (Flared)		
Liquid (High Pressure)	In. (mm)	1/4 (6.35)
Gas (Low Pressure)		1/2 (12.7)
Maximum Total Refrigerant Pipe Length	Fl. (m)	100 (30)
Maximum Vertical Separation	Fl. (m)	100 (30)

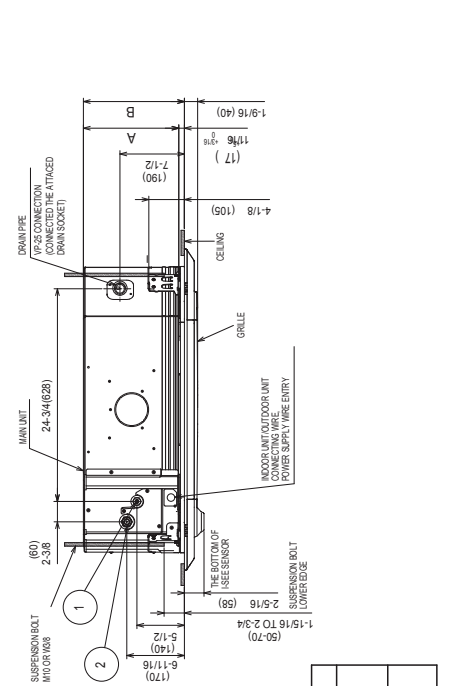
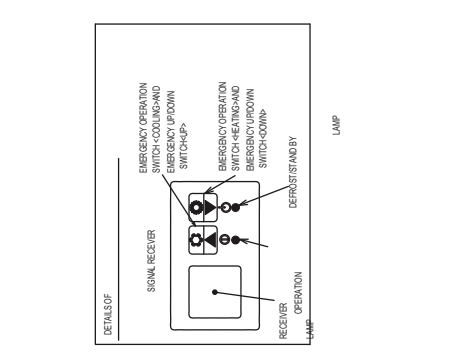
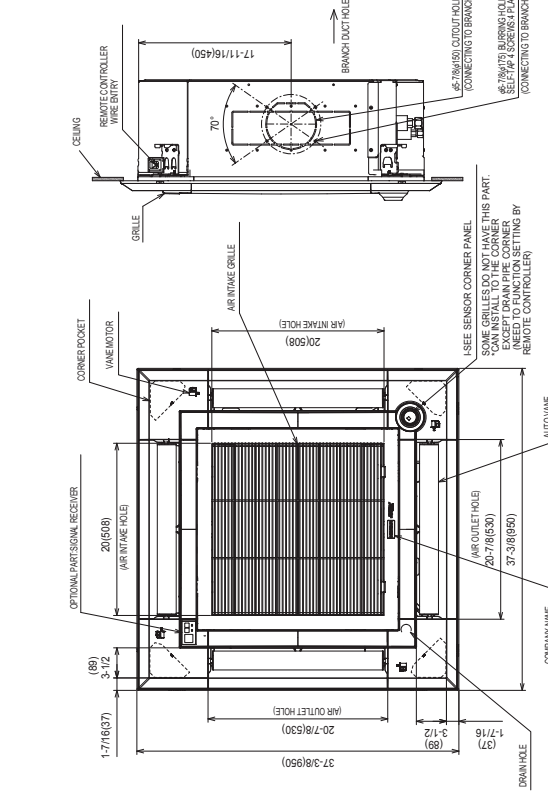
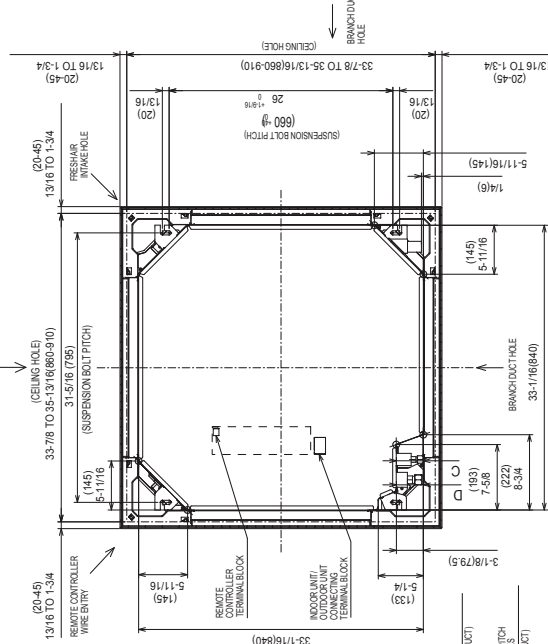
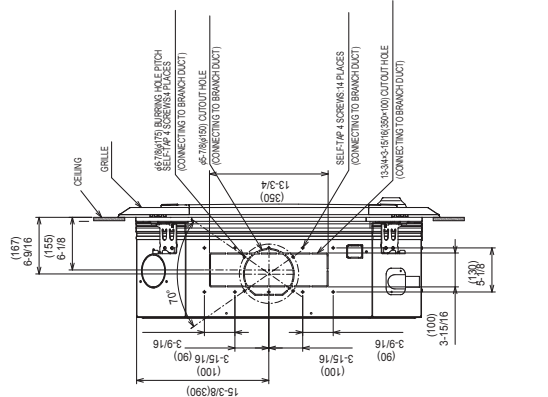
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DIMENSIONS: PLA-A12EA7

Unit in. (mm)



- 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-250 D. n-1/4 (32) PVC TUBE. DRAIN PUMP INCLUSION.
 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 "E" OR MORE SPACE BETWEEN TRANSOM AND CEILING FOR THE INSTALLATION.
 8. WHEN INSTALLING THE BRANCH DUCTS, BE SURE TO INSULATE ADEQUATELY.
 9. OTHERWISE CONDENSATION AND DRIPPING MAY OCCUR (IT BECOMES THE CAUSE OF DROPLET OR DRIPPING).
 10. AS FOR NECESSARY INSTALLATION/SERVICE SPACE, PLEASE REFER TO THE RIGHT AT FIGURE.
 11. FOR THE INSTALLATION OF THE OPTIONAL HIGH EFFICIENCY FILTER OR MULTI-FUNCTIONAL CASEMENT, REFER TO SPECIAL DRAWING.



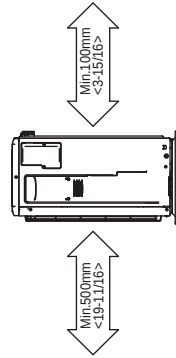
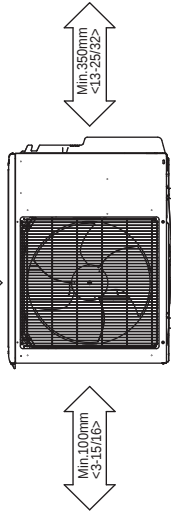
MODELS	①	②	A	B	C	D	E	F
PLA-A12/18EA7	REFRIGERANT PIPES 1/2 FLARED CONNECTION 1/4"	REFRIGERANT PIPES 1/2 FLARED CONNECTION 1/4"	9-1/2 (241)	10-3/16 (258)	3-7/8 (98)	3-7/8 (98)	10-7/16 (265) OR MORE	13-13/16 (350) OR LESS
PLA-A24~42EA7	REFRIGERANT PIPES 3/8 FLARED CONNECTION 3/8"	REFRIGERANT PIPES 3/8 FLARED CONNECTION 3/8"	11-1/16 (281)	11-1/16 (281)	3-1/8 (79)	3-1/8 (79)	12-3/8 (315) OR MORE	17-3/16 (450) OR LESS

DIMENSIONS: PUZ-A12NKA7

Unit: mm (in.)

Free space around the outdoor unit
(basic example)

100mm<3-15/16> or more as long as no obstacle is placed on the rear and right-and-left sides of the unit

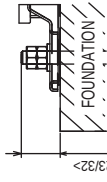


2 sides should be open in the right, left and rear side.

FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10<W3/8>) bolts. (Bolts, washers and nut must be purchased locally).

<Foundation bolt height>



Max.

2-U Shaped notched holes
(Foundation Bolt M10<W 3/8>)

drain hole
ø 42

Installation bolt pitch
500<19-11/16>

404.5<15-15/16>

48<1-29/32>

360<14-3/16>

330<13>

300<11-13/16>

32.5<1-9/32>

22<7/8>

2-10x21 oval hole
(Foundation Bolt M10
<W 3/8>)

40<1-19/32>

630<24-13/16>

320<12-5/8>

154.5<6-3/32>

8.5<11/32>

310<12-7/32>

809<31-7/8>

62<2-15/32>

2-ø22.2<7/8>
1/2 conduit hole

