

Submission Data: PCA-A30KA7-TH & PUZ-HA30NKA

30,000 BTU/H Ceiling-Suspended 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:
Vane, Louver and Vent control
Lossnay connections and control
Daily and Weekly ON/OFF timers
Emergency operation
Wash filter notification
Auto fan speed mode
Wired and Wireless control options

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
High Efficiency Filter Element	PAC-SH89KF-E
Drain Pump	PAC-SH84DM-E

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.
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Performance:

Cooling at 95°F ¹	Rated Capacity	Btu/h	30,000
	Capacity Range	Btu/h	14,300 - 30,000
	Rated Power Input	W	2,380
	Power Input Range	W	960 - 2,380
	Moisture Removal	pints/h	8.3
	Sensible Heat Factor		0.69
Heating at 47°F ²	Rated Capacity	Btu/h	32,000
	Capacity Range	Btu/h	14,400 - 35,000
	Rated Power Input	W	2,930
	Power Input Range	W	970 - 3,440
Heating at 17°F ³	Maximum Capacity	Btu/h	32,000
	Rated Capacity	Btu/h	22,200
	Capacity Range	Btu/h	NA - 32,000
	Maximum Power Input	W	4,665
	Rated Power Input	W	2,855
	Power Input Range	W	NA - 4,665
Heating at 5°F ⁴	Maximum Capacity	Btu/h	32,000
	Maximum Power Input	W	5,332
Heating at -13°F ⁵	Maximum Capacity	Btu/h	25,600
	Maximum Power Input	W	5,447

Efficiency:

SEER		17.9
EER ¹		12.6
HSPF (IV)		9.4
COP at 47°F ²	Rated Capacity	3.20
COP at 17°F ³	Maximum Capacity	2.00
COP at 5°F ⁴	Maximum Capacity	1.75

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))

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	1.00
Blower Motor Full Load Amperage	A	95
Blower Motor Output	W	0.54
Airflow Rate at Cooling, Dry	CFM	565 - 600 - 635 - 705
Airflow Rate at Cooling, Wet	CFM	530 - 565 - 600 - 670
Airflow Rate at Heating, Dry	CFM	565 - 600 - 635 - 705
Sound Pressure Level (Cooling)	dB(A)	35 - 37 - 39 - 41
Sound Pressure Level (Heating)	dB(A)	35 - 37 - 39 - 41
Drain Pipe Size	In. (mm)	1-1/32 (26)
External Finish Color		White Munsell 6.4Y 8.9/0.4
Unit Dimensions	W: In. (mm)	50-3/8 (1,280)
	D: In. (mm)	26-3/4 (680)
	H: In. (mm)	9-1/16 (230)
Unit Weight	Lbs. (kg)	71 (32)

Outdoor Unit Specifications:

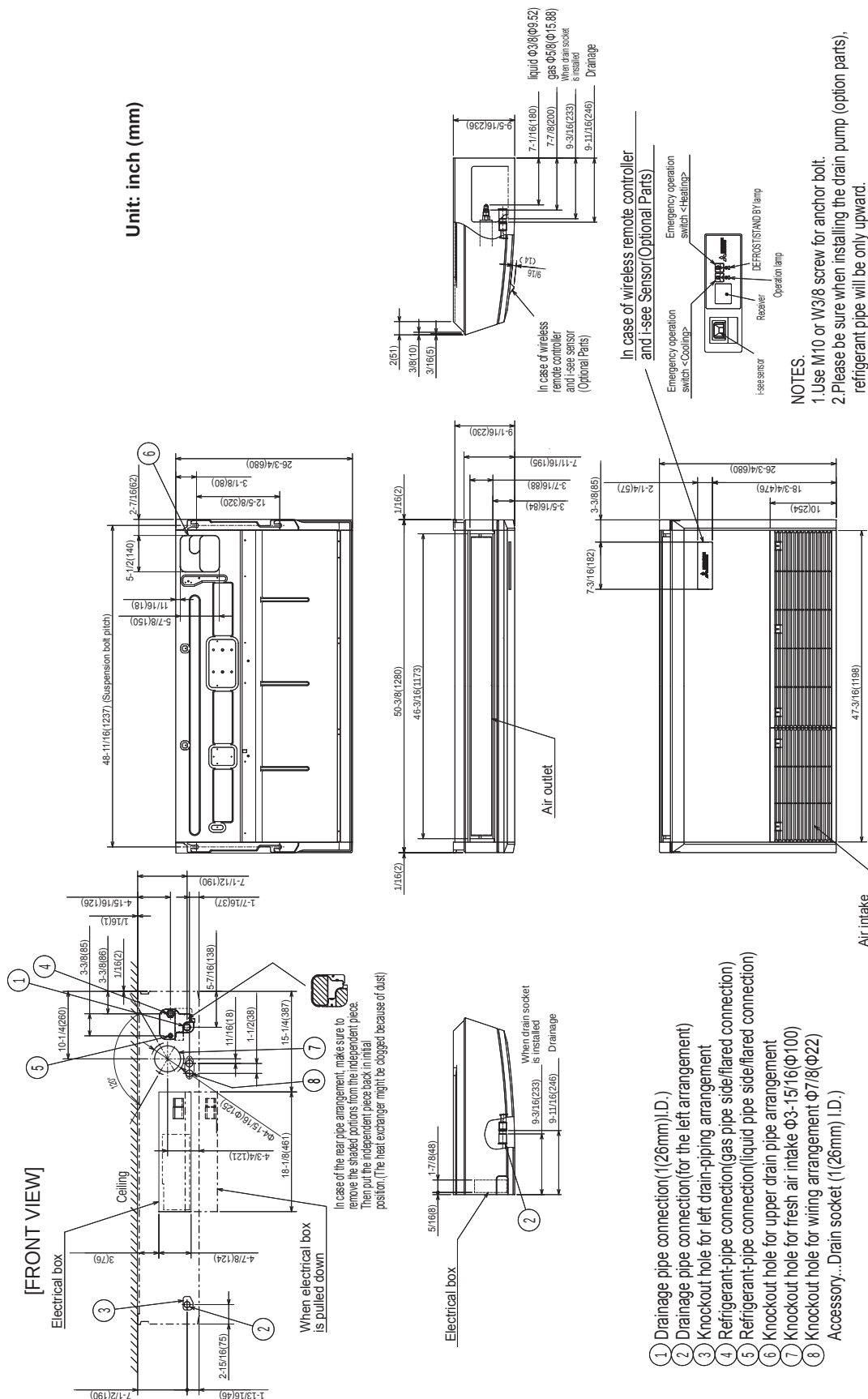
MCA	A	24
MOCP	A	40
Fan Motor Output	W	74 + 74
Airflow Rate (Cooling/Heating)	CFM	3,880 / 3,880
Sound Pressure Level, Cooling1	dB(A)	52
Sound Pressure Level, Heating2	dB(A)	53
Refrigerant Control		LEV
Compressor Oil Type / Charge	oz.	FV50S / 47 oz
External Finish Color		Ivory Munsell No.3Y 7.8/1.1
Unit 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
Operation/error display adapter	PAC-SA88HA-EP
Remote ON/OFF control	PAC-SE55RA-E
Remote compress ON/OFF control	PAC-SC36NA-E
Wireless remote control	PAR-FL32MA-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-SE56RA-E
Remote Operation Adapter	PAC-SF40RM-E
Controller kit w/ i-see sensor	PAR-SA92MW-E
Controller kit (send / receive only)	PAR-SL93B-E
i-see Sensor	PAC-SH91MK-E
Heater control relay	PAM-4
Deluxe thermostat interface	RMF-CA100-V1
MNet adapter (BacNet/LonWorks BAS sub interface)	PAC-SJ95MA-E

Indoor Unit Outline and Dimensions:



Outdoor Unit Outline and Dimensions:

