PCA-A24KA7 & PUZ-HA24NHA1
24,000 BTU/H CEILING-SUSPENDED INDOOR UNIT
24,000 BTU/H HYPER-HEATING UNIVERSAL OUTDOOR

MITSUBISHI ELECTRIC
HEATING & AIR CONDITIONING

Job Name:

System Reference: Date:

Indoor Unit PCA-A24KA7

Outdoor Unit PUZ-HA24NHA1

INDOOR UNIT FEATURES
- Airflow settings for high and low ceiling applications
- Knock-out for outside-air intake
- Optional i-see Sensor™ for air distribution and energy saving
- Auto fan speed mode
- Filter status indicator
- Easy-to-clean, washable filter
- Suspends from ceiling for quick and easy installation
- Ideal for larger retail stores, classrooms, and restaurants
- Multiple control options available:
  - kumo cloud® smart device app for remote access
  - Third-party interface options
  - Wired or wireless controllers

OUTDOOR UNIT FEATURES
- Variable speed INVERTER-driven compressor
- Wide heating range: heating performance down to -13°F (average of 80% heating capacity)
- High speed heating at start up: Hyper-Heating INVERTER® reduces the time for heating at start up by about half compared to standard models
- Pre-charged with refrigerant volume for piping length up to 70 ft.
- High pressure/temperature protection
- Built-in base pan heater

Specifications are subject to change without notice.

SPECIFICATIONS: PCA-A24KA7 & PUZ-HA24NHA1

Cooling at 95°F[1]	Maximum Capacity	BTU/H	24,000
	Rated Capacity	BTU/H	23,000
	Minimum Capacity	BTU/H	10,000
	Maximum Power Input	W	1,920
	Rated Power Input	W	1,840
	Moisture Removal	Pints/h	5.6
	Sensible Heat Factor		0.73
	Power Factor [208V / 230V]	%	95.0 / 95.0
Heating at 47°F[2]	Maximum Capacity	BTU/H	28,000
	Rated Capacity	BTU/H	26,000
	Minimum Capacity	BTU/H	10,000
	Maximum Power Input	W	2,300
	Rated Power Input	W	2,050
	Power Factor [208V / 230V]	%	94.0 / 94.0
Heating at 17°F[3]	Maximum Capacity	BTU/H	26,000
	Rated Capacity	BTU/H	17,700
	Maximum Power Input	W	3,750
	Rated Power Input	W	2,146
Heating at 5°F[4]	Maximum Capacity	BTU/H	26,000
	Maximum Power Input	W	4,176
Heating at -13°F[7]	Maximum Capacity	BTU/H	20,800
Efficiency	SEER2		18.7
	EER2[1]		12.5
	HSPF2 [IV]		9.5
	COP at 47°F[2]		3.71
	COP at 17°F at Maximum Capacity[3]		2.0
	COP at 5°F at Maximum Capacity[4]		1.8
Electrical	Voltage, Phase, Frequency		208/230, 1, 60
	Guaranteed Voltage Range	V AC	198 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208/230
	Voltage: Indoor - Outdoor, S2-S3	V DC	24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Oudoor)	A	25
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Power Supply		Indoor unit is powered by the outdoor unit
Indoor Unit	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.54
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	530–565–600–670
	Airflow Rate at Cooling, Wet	CFM	495–530–565–635
	Airflow Rate at Heating, Dry	CFM	530–565–600–670
	Sound Pressure Level [Cooling]	dB[A]	33–35–37–40
	Sound Pressure Level [Heating]	dB[A]	33–35–37–40
	Drain Pipe Size	In. [mm]	1-1/32 [26]
	Coating on Heat Exchanger		—
	External Finish Color		White Munsell 6.4Y 8.9/0.4
	Unit Dimensions	W x D x H: In. [mm]	50-3/8 x 26-3/4 x 9-1/16 [1,280 x 680 x 230]
	Package Dimensions	W x D x H: In. [mm]	53-1/8 x 29-15/16 x 12-5/8 [1,350 x 760 x 320]
	Unit Weight	Lbs. [kg]	71 [32]
	Package Weight	Lbs. [kg]	82 [37]
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 72 WB / 68 DB, 61 WB
	Heating Intake Air Temp [Maximum / Minimum]	°F	77 DB / 59 DB

NOTES:
AHRI Rated Conditions
(Rated data is determined at a fixed compressor speed)

[1]Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB
[2]Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB
[3]Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB

Conditions

[4]Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB
[7]Heating at -13°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -13 DB, -14 WB

* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
 • Wind baffles required to operate below 23°F DB in cooling mode.
 • Refer to wind baffle documentation for further information.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
 • System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

SPECIFICATIONS: PCA-A24KA7 & PUZ-HA24NHA1

Outdoor Unit	MCA	A	17.0
	MOCP	A	27
	Fan Motor Output	W	74
	Airflow Rate [Cooling / Heating]	CFM	1940 / 1940
	Refrigerant Control		LEV
	Defrost Method		Reverse Cycle
	Sound Pressure Level, Cooling[1]	dB(A)	52
	Sound Pressure Level, Heating[2]	dB(A)	53
	Compressor Type		Scroll
	Compressor Model		DNB28FBAMT
	Compressor Rated Load Amps	A	9
	Compressor Locked Rotor Amps	A	18.0
	Compressor Oil [Type // Charge]	oz.	FVC68D // 34
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions	W x D x H: In. [mm]	37-13/32 x 14-3/16 x 37-1/8 [950 x 360 x 943]
	Package Dimensions	W x D x H: In. [mm]	41 x 18 x 41 [1040 x 450 x 1033]
	Unit Weight	Lbs. [kg]	190 [86]
	Package Weight	Lbs. [kg]	210 [95]
Outdoor Unit Operating Temperature Range	Cooling Air Temp [Maximum / Minimum]*	°F	115 DB / 0 DB
	Heating Air Temp [Maximum / Minimum]	°F	70 DB, 59 WB / -13 DB, -13 WB
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-22 / -13
Refrigerant	Type		R410A
	Pre-Charged Refrigerant Amount	Lbs, oz	7.0, 11.0
	Maximum Pre-Charged Piping Length	Ft. [m]	70.0 [21.0]
	Additional Refrigerant Charge Per Additional Piping Length	oz./Ft. [g/m]	0.7 [65]
Piping	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]
	Maximum Number of Bends		15

NOTES:
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(Rated data is determined at a fixed compressor speed)

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[3]Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB

Conditions

[4]Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 4 WB
[7]Heating at -13°F (Indoor // Outdoor)	°F	70 DB, 60 WB // -13 DB, -14 WB

* Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):
  • Wind baffles required to operate below 23°F DB in cooling mode.
  • Refer to wind baffle documentation for further information.

**Outdoor Unit Operating Temperature Range (Cooling Thermal Lock-out / Re-start Temperatures; Heating Thermal Lock-out / Re-start Temperatures):
  • System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

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INDOOR UNIT ACCESSORIES: PCA-A24KA7

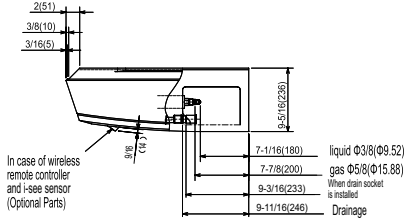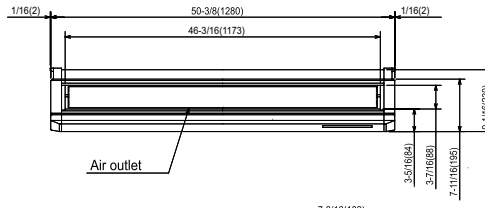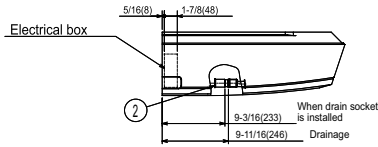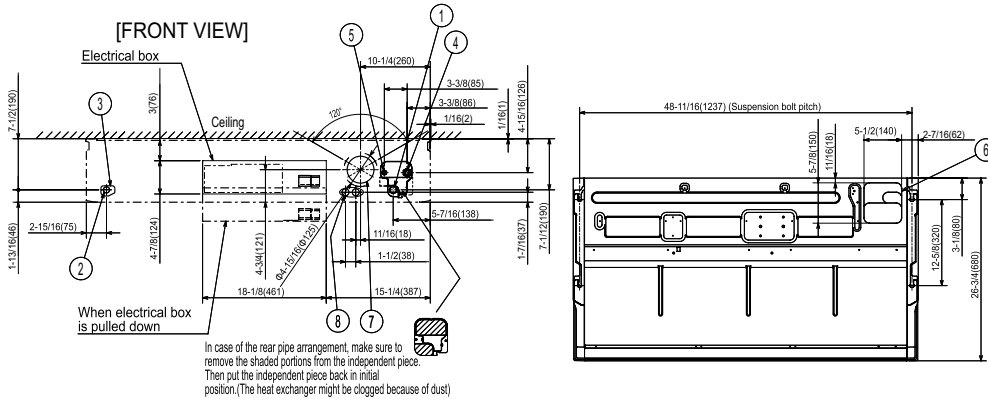| Category	Description	Model
Control Interface	CN24 Relay Kit	☐ CN24RELAY-KIT-CM3
	IT Extender	☐ PAC-WHS01IE-E
	kumo station® for kumo cloud®	☐ PAC-WHS01HC-E
	Procon BACnet® and Modbus® Interface	☐ PAC-UKPRC001-CN-1
	Remote Operation Adapter‡	☐ PAC-SF40RM-E
	Thermostat Interface	☐ PAC-US444CN-1
	Thermostat Interface	☐ PAC-US445CN-1
	USNAP Adapter	☐ PAC-WHS01UP-E
Remote Sensor	Flush Mount Remote Temperature Sensor	☐ PAC-USSEN002-FM-1
	Flush Mount Temperature Sensor	☐ PAC-USSEN001-FM-1
	Remote Temperature Sensor	☐ PAC-SE41TS-E
	Wireless temperature and humidity sensor for kumo cloud®	☐ PAC-USWHS003-TH-1
Wired Remote Controller	Deluxe Wired MA Remote Controller†	☐ PAR-40MAAU
	Simple Ductless Wired Remote Controller	☐ PAC-SDW01RC-1
	Simple MA Remote Controller†	☐ PAC-YT53CRAU-J
	Touch MA Controller†	☐ PAR-CT01MAU-SB
Wireless Remote Controller	kumo touch™ RedLINK™ Wireless Controller	☐ MHK2
	Lockdown bracket for remote controller	☐ RCMKP1CB
	Wireless MA Receiver	☐ PAR-FA32MA-W
	Wireless MA Remote Controller	☐ PAR-FL32MA-E
	Wireless Receiver Kit	☐ PAR-SL93B-E
	Wireless Receiver Kit with i-See sensor™	☐ PAR-SA92MW-E
Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	☐ X87-721
	Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor	☐ X87-835
	Refco Condensate Pump (100-240 VAC) up to 120,000 BTU/H	☐ COMBI
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - Black	☐ TAZ-MS303
Filter	65% Medium Efficiency Filter (MERV 8)	☐ PAC-SH89KF-E
Lineset	10' x 3/8" x 10' x 5/8" Lineset (Twin-Tube Insulation)	☐ MPLS385812T-10
	100' x 3/8" x 100' x 5/8" Lineset (Twin-Tube Insulation)	☐ MPLS385812T-100
	15' x 3/8" x 15' x 5/8" Lineset (Twin-Tube Insulation)	☐ MPLS385812T-15
	30' x 3/8" x 30' x 5/8" Lineset (Twin-Tube Insulation)	☐ MPLS385812T-30
	50' x 3/8" x 50' x 5/8" Lineset (Twin-Tube Insulation)	☐ MPLS385812T-50
	65' x 3/8" x 65' x 5/8" Lineset (Twin-Tube Insulation)	☐ MPLS385812T-65

NOTES:
‡PAC-SF40RM-E (Unable to use with wireless remote controller)

OUTDOOR UNIT ACCESSORIES: PUZ-HA24NHA1

|			
Air Outlet Guide	Air Outlet Guide (1 Piece)	☐	PAC-SG59SG-E
Control/Service Tool	Control/Service Tool	☐	PAC-SK52ST
Hail Guards	Hail Guard	☐	HG-A6
M-NET Converter	M-NET Converter	☐	PAC-SJ85MA-E
	M-NET Converter	☐	PAC-SJ95MA-E
Mounting Pad	Condensing Unit Mounting Pad: 24" x 42" x 3"	☐	ULTRILITE2
Stand	18" Single Fan Stand	☐	QSMS1801M
	24" Single Fan Stand	☐	QSMS2401M
	Condenser Wall Bracket	☐	QSWB2000M-1
	Condenser Wall Bracket - Stainless Steel Finish	☐	QSWBSS
	Outdoor Unit Stand — 12" High	☐	QSMS1201M
Wind Baffle	Front Wind Baffle	☐	WB-PA5
	Rear Wind Baffle	☐	WB-RE5
	Side Advanced Wind Baffle	☐	WB-SD5

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Unit: inch (mm)

[FRONT VIEW]

Electrical box
Ceiling

When electrical box
is pulled down

In case of the rear pipe arrangement, make sure to
remove the shaded portions from the independent piece.
Then put the independent piece back in initial
position.(The heat exchanger might be clogged because of dust)

48-11/16(1237) (Suspension bolt pitch)

Electrical box

When drain socket
is installed
Drainage

Air outlet

In case of wireless
remote controller
and i-see sensor
(Optional Parts)

liquid Φ3/8(Φ9.52)
gas Φ5/8(Φ15.88)
When drain socket
is installed
Drainage

In case of wireless remote controller
and i-see Sensor(Optional Parts)

Emergency operation
switch <Cooling>

Emergency operation
switch <Heating>

i-see sensor
Receiver
DEFROST/STAND BY lamp
Operation lamp

Air intake

① Drainage pipe connection(1(26mm)I.D.)
② Drainage pipe connection(for the left arrangement)
③ Knockout hole for left drain-piping arrangement
④ Refrigerant-pipe connection(gas pipe side/flared connection)
⑤ Refrigerant-pipe connection(liquid pipe side/flared connection)
⑥ Knockout hole for upper drain pipe arrangement
⑦ Knockout hole for fresh air intake Φ3-15/16(Φ100)
⑧ Knockout hole for wiring arrangement Φ7/8(Φ22)
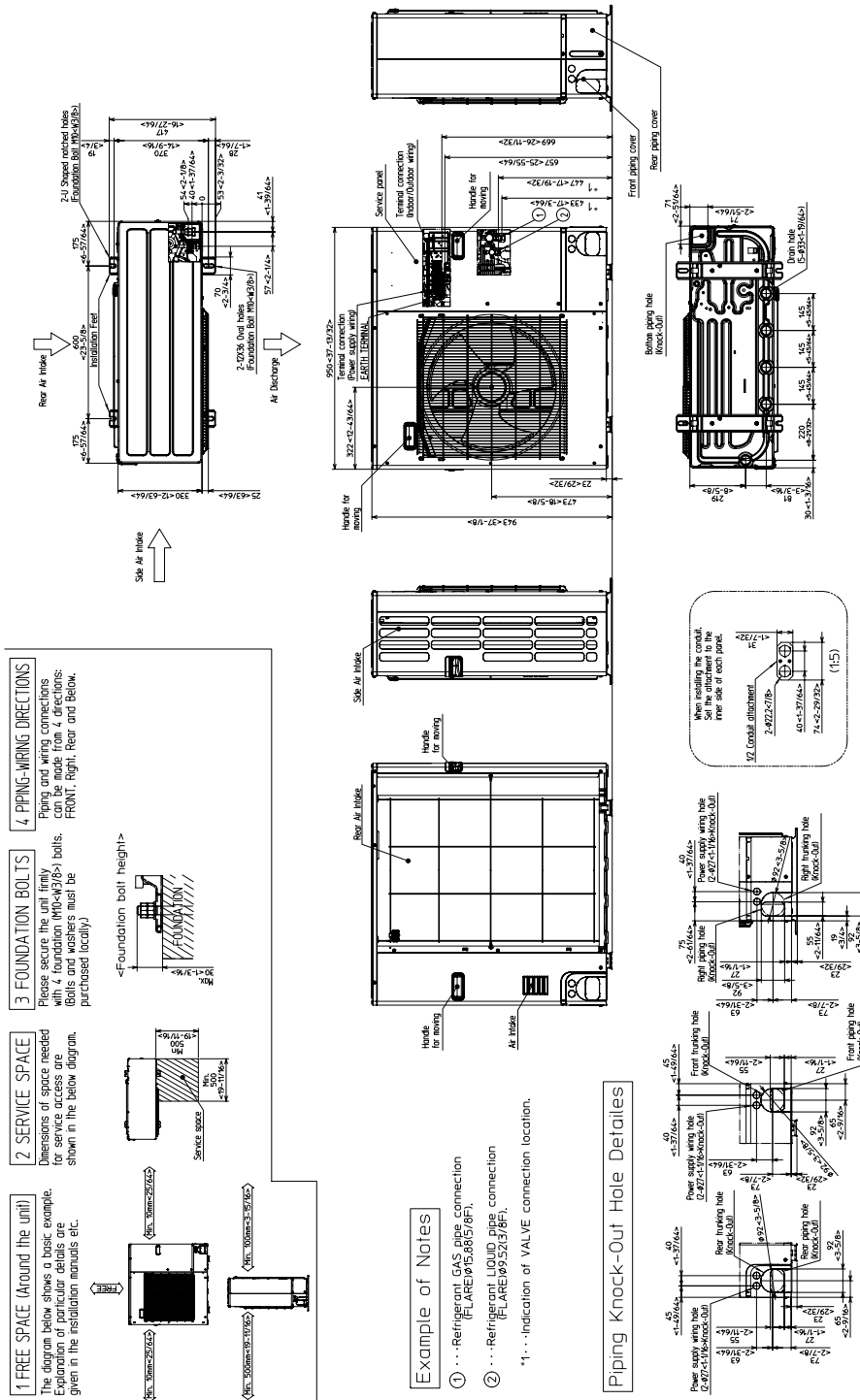　Accessory...Drain socket (1(26mm) I.D.)
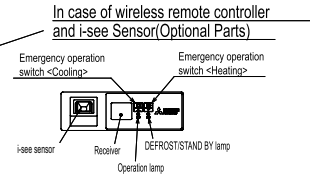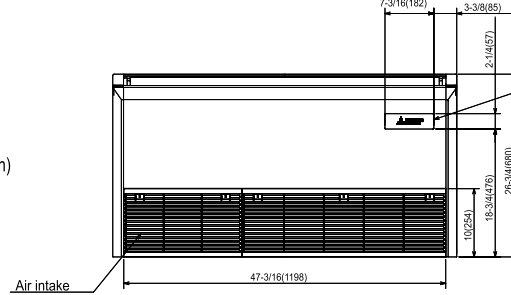
NOTES.
1.Use M10 or W3/8 screw for anchor bolt.
2.Please be sure when installing the drain pump (option parts),
　refrigerant pipe will be only upward.

Unit: mm<in>

1 FREE SPACE (Around the unit)
The diagram below shows a basic example. Explanation of particular details are given in the installation manuals etc.

2 SERVICE SPACE
Dimensions of space needed for service access are shown in the below diagram.

3 FOUNDATION BOLTS
Please secure the unit firmly with 4 foundation (M10<ø3/8>) bolts. (Bolts and washers must be purchased locally.)

4 PIPING-WIRING DIRECTIONS
Piping and wiring connections can be made from 4 directions: FRONT, Right, Rear and Below.

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.

Piping Knock-Out Hole Details

1340 Satellite Boulevard Suwanee, GA 30024
Toll Free: 800-433-4822 www.mehvac.com

FORM# PCA-A24KA7 & PUZ-HA24NHA1 - 202307

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