

PLA-A24EA8 & PUZ-A24NHA7
24,000 BTU/H 3' X 3' CEILING CASSETTE
24,000 BTU/H HEAT PUMP UNIVERSAL OUTDOOR



Job Name:

System Reference:

Date:



Indoor Unit.....PLA-A24EA8

Outdoor Unit.....PUZ-A24NHA7



INDOOR UNIT FEATURES

- Space-efficient ductless installation
- Equipped with 3D i-see Sensor® for enhanced comfort and energy efficiency
- Airflow settings for high and low ceiling applications
- Individual vane settings for direct/indirect airflow control or variable airflow patterns
- Knockouts for outside-air intake and branch-duct run
- Filter indicator signal
- Easy-to-clean, washable filter (optional high-efficiency filter available - requires multi-function casement)
- Built-in condensate lift mechanism
- Ideal for retail shops, classrooms, office spaces, conference centers, building lobbies, and more
- 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
- Pre-charged with refrigerant volume for piping length up to 70 ft
- Low ambient cooling down to 0°F providing 100% capacity
- 24-hour continuous operation (cooling mode)
- High pressure protection
- Fast restart
- Superior energy and operational efficiency
- Seacoast protection*
 - External Outer Panel: Phosphate coating + Acrylic-Enamel coating
 - Fan Motor Support: Epoxy resin coating (at edge face)
 - Separator Assembly Valve Bed: Epoxy resin coating (at edge face)
 - Blue Fin treatment is an anti-corrosion treatment that is applied to the Heat exchanger coil to protect it against airborne contaminants.
 - Heat exchanger coil and base panel rated for 2,000 hours in accordance with ASTM B117 testing

*Seacoast protection standard from 2022 production

SPECIFICATIONS: PLA-A24EA8 & PUZ-A24NHA7

Cooling at 95°F ¹	Maximum Capacity	BTU/H	24,000
	Rated Capacity	BTU/H	24,000
	Minimum Capacity	BTU/H	10,000
	Maximum Power Input	W	1,670
	Rated Power Input	W	1,670
	Moisture Removal	Pints/h	3.0
	Sensible Heat Factor		0.86
Heating at 47°F ²	Power Factor [208V / 230V]	%	94.3 / 94.3
	Maximum Capacity	BTU/H	29,000
	Rated Capacity	BTU/H	26,000
	Minimum Capacity	BTU/H	9,000
	Maximum Power Input	W	2,070
	Rated Power Input	W	1,750
Heating at 17°F ³	Power Factor [208V / 230V]	%	95.1 / 95.1
	Maximum Capacity	BTU/H	17,400
	Rated Capacity	BTU/H	14,900
	Maximum Power Input	W	1,670
Heating at 5°F ⁴	Rated Power Input	W	1,600
	Maximum Capacity	BTU/H	13,000
Efficiency	Maximum Power Input	W	1,400
	SEER2		24.7
	EER2 ¹		14.3
	HSPF2 [I/V]		9.3
	COP at 47°F ²		4.35
	COP at 17°F at Maximum Capacity ³		3.06
Electrical	COP at 5°F at Maximum Capacity ⁴		2.72
	ENERGY STAR® Certified		Yes
	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
Indoor Unit	Recommended Fuse/Breaker Size (Outdoor)	A	25
	Recommended Wire Size [Indoor - Outdoor]	AWG	12
	Power Supply		Indoor unit is powered by the outdoor unit
	MCA	A	1.0
	Fan Motor Full Load Amperage	A	0.28
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	530–640–710–810
	Airflow Rate at Cooling, Wet	CFM	490–600–670–770
	Airflow Rate at Heating, Dry	CFM	530–640–710–810
	Sound Pressure Level [Cooling]	dB[A]	28–30–33–36
	Sound Pressure Level [Heating]	dB[A]	28–30–33–36
	Drain Pipe Size	In. [mm]	1-1/4 [32]
	Condensate Lift Mechanism, Maximum Distance	In. [mm]	33-7/16 [850]
	Coating on Heat Exchanger		—
	External Finish Color		White Munsell 6.4Y 8.9/0.4
Indoor Unit Operating Temperature Range	Unit Dimensions	W x D x H: In. [mm]	33-1/16 x 33-1/16 x 11-3/4 [840 x 840 x 298]
	Package Dimensions	W x D x H: In. [mm]	34-19/64 x 35-35/64 x 16-37/64 [871 x 903 x 421]
	Unit Weight	Lbs. [kg]	57 [26]
	Package Weight	Lbs. [kg]	89 [40]
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp [Maximum / Minimum]*	°F	90 DB, 72 WB / 66 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)

¹Cooling (Indoor // Outdoor)

²Heating at 47°F (Indoor // Outdoor)

³Heating at 17°F (Indoor // Outdoor)

°F 80 DB, 67 WB // 95 DB, 75 WB

°F 70 DB, 60 WB // 47 DB, 43 WB

°F 70 DB, 60 WB // 17 DB, 15 WB

Conditions

⁴Heating at 5°F (Indoor // Outdoor)

°F 70 DB, 60 WB // 5 DB, 4 WB

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

• Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.

» Wind baffles required to operate below 23°F DB in cooling mode.

» Heat pump system with wind baffle: 0°F - 115°F.

» 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.

***Blue Fin Coating Standard from 2022 production:

• PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U*****

• PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 12U*****

SPECIFICATIONS: PLA-A24EA8 & PUZ-A24NHA7

Outdoor Unit	MCA	A	19.0
	MOCP	A	26
	Fan Motor Output	W	74
	Airflow Rate [Cooling / Heating]	CFM	1940 / 1940
	Refrigerant Control		Linear expansive valve
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger		Blue Fin Coating***
	Sound Pressure Level, Cooling ¹	dB(A)	47
	Sound Pressure Level, Heating ²	dB(A)	48
	Compressor Type		DC INVERTER-driven Twin Rotary
	Compressor Model		SNB172FWHM1
	Compressor Rated Load Amps	A	7
	Compressor Locked Rotor Amps	A	11.0
	Compressor Oil [Type // Charge]	oz.	FV50S // 23
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		N/A
	Unit Dimensions	W x D x H: In. [mm]	37-13/32 x 13 (+1-3/16) x 37-1/8 [950 x 330 (+30) x 943]
	Package Dimensions	W x D x H: In. [mm]	41 x 18 x 43 [1040 x 1040 x 450]
	Unit Weight	Lbs. [kg]	153 [69]
	Package Weight	Lbs. [kg]	179 [81]
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 / -4 DB, -4 WB
	Heating Thermal Lock-out / Re-start Temperatures**	°F	-13 / -4
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]	3.5 [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:

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

*Indoor/Outdoor Unit Operating Temperature Range (Cooling Air Temp [Maximum / Minimum]):

- Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
 - » Wind baffles required to operate below 23°F DB in cooling mode.
 - » Heat pump system with wind baffle: 0°F - 115°F.
 - » 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):

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***Blue Fin Coating Standard from 2022 production:

- PU(Y/Z)-A(12/18)NKA7 - Beginning with serial number 12U*****
- PU(Y/Z)-A(24/30/36/42)NKA7 - Beginning with serial number 12U*****

INDOOR UNIT ACCESSORIES: PLA-A24EA8

Control Interface	Airzone Wired Blueface Controller (White)	AZZBSBLUEZEROCB
	Airzone Wired Lite Controller (White)	AZZBSLITECB
	Airzone Wireless Lite Controller (White)	AZZBSLITERB
	Airzone Wireless Think Controller (White)	AZZBSTHINKRB
	Backup Heat Relay Kit Adapter for CN24 or CN152 on ducted models	CN24RELAY-KIT-CM3
	IT Extender for kumo station™	PAC-WHS01IE-E
	kumo station™ for kumo cloud®	PAC-WHS01HC-E
	On/Off Input Adapter for CN32 and Forced Fan Operation Input Adapter for SWE	PAC-715AD
	Operation and Error Status Output Adapter	PAC-SF40RM-E
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	USNAP Adapter for Demand Response	PAC-WHS01UP-E
	Wireless Interface for kumo cloud®	PAC-USWHS002-WF-2
	Flush Mount Remote Temperature Sensor for SEZ, SLZ, SVZ and all P-Series models	PAC-USSEN002-FM-1
Remote Sensor	Wall Mount Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humidity sensor for kumo cloud®	PAC-USWHS003-TH-1
	Simple Ductless Wired Remote Controller	PAC-SDW01RC-1
Wired Remote Controller	Simple MA Remote Controller	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller	PAR-CT01MAU-SB
	kumo touch™ RedLINK™ Wireless Controller & Receiver kit	MHK2
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	Universal Wireless MA Handheld Remote Controller	PAR-FL32MA-E
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	Wireless Handheld Remote Controller for SLZ, PLA, and PLFY models	PAR-SL101A-E
	Wireless Receiver for PAR-SL101A-E on PLA-EA7 and PLFY-NEMU models	PAR-SR4LU-E
	Wireless Remote Receiver Panel	PAR-SR3LA-E
Casement	Multi-function Casement	PAC-SJ41TM-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
	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
	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
	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
Filter	High Efficiency Filter Element**	PAC-SH59KF-E
i-see Sensor® Panel	Grille with 3D i-see Sensor®	PLP-41EAEU
Lineset		Lineset 3/8x5/8
	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
Shutter Plate	Shutter Plate	PAC-SJ37SP-E
Space Panel	Space Panel	PAC-SJ38AS-E

NOTES:

*PAC-SF40RM-E (Unable to use with wireless remote controller)

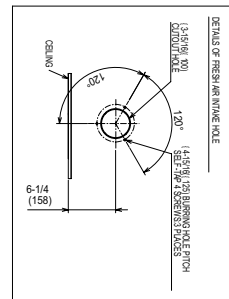
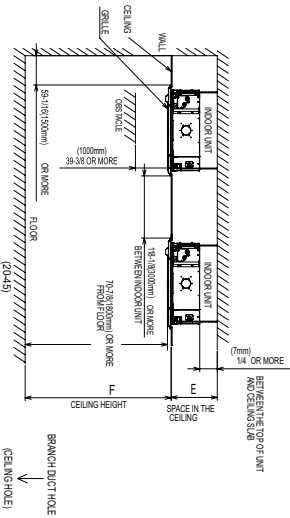
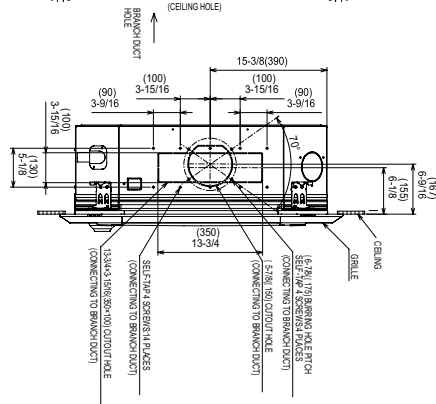
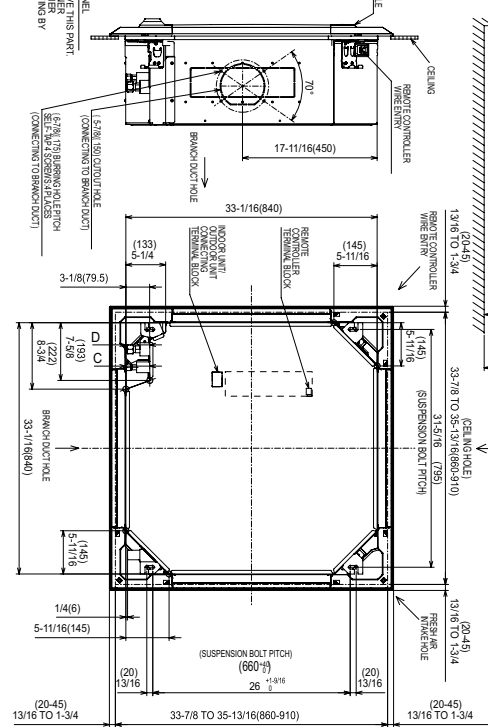
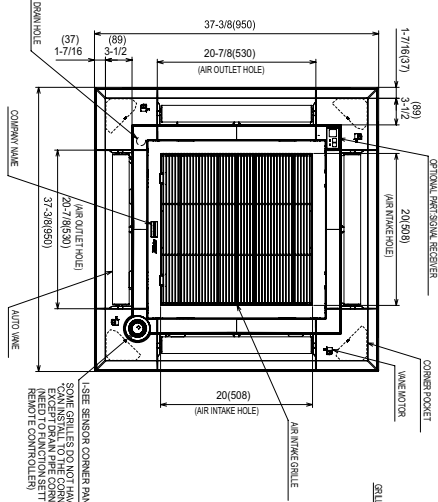
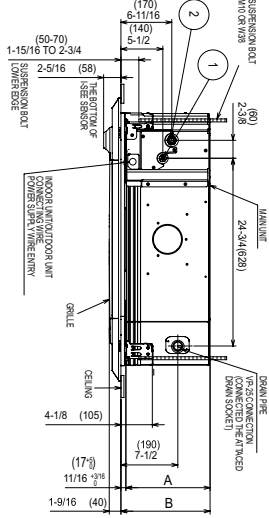
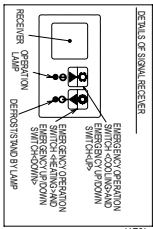
OUTDOOR UNIT ACCESSORIES: PUZ-A24NHA7

Air Outlet Guide	Air Outlet Guide (1 Piece)	PAC-SG59SG-E
Centralized Drain Pan	Drain Pan	PAC-SG64DP-E
Control/Service Tool	Control/Service Tool	PAC-SK52ST
	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	USB Conversion Cable for PAC-USCMS-MN-1	M21EC1397
Hail Guards	Hail Guard	HG-A6
M-NET Converter	M-NET Converter	PAC-SJ95MA-E
	M-Net Interface for P-Series	PAC-SJ85MA-E
Mini-Split Wire	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S144-250
	14 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW144-250
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S144-50
	14 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW144-50
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	S164-250
	16 Gauge, 4 wire MiniSplit Cable—250 ft. roll	SW164-250
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	S164-50
	16 Gauge, 4 wire MiniSplit Cable—50 ft. roll	SW164-50
Mounting Pad	Condensing Unit Mounting Pad: 24" x 42" x 3"	ULTRILITE2
Snow/Rain Diverter	Snow/Rain Diverter	SRD-4
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

INDOOR UNIT DIMENSIONS: PLA-A24EA8

Unit: inch (mm)

MODELS	①	②	A	B	C	D	E	F
1218/2420/3642 KBTU/H								
1218 KBTU/H	REFRIGERANT PIPES 3/32	REFRIGERANT PIPES 1/2	9-12	10-13/16	3/8	3/16 5/8	1/4-1/16 (655)	137-1316 (6500)
2410 KBTU/H	FLUID CONNECTION 1/4"	FLUID CONNECTION 1/2"	(241)	(284)			OR LESS	
2410/3642 KBTU/H	REFRIGERANT PIPES 3/32	REFRIGERANT PIPES 1/2	11-16	13-16	3/8	3/16	1/4-1/16 (655)	177-1316 (6500)
	FLUID CONNECTION 3/8"	FLUID CONNECTION 1/2"	(281)	(284)	(793)		OR LESS	



NOTE: CHOOSE THE STRIP ALONG THE DEDICATED GUTTERS.
2. REMOVE THE SUSPENSION SLAT FOR AIRFLOW RESISTANCE AS NEEDED.
(PROCEED AT THE LOCAL SITE.)

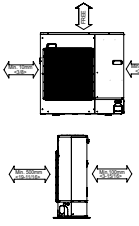
4. FOR MAIN LINE, USE 3/4" (20.0 x 1.41) 303 PAVE TUBE.
5. REMOVE THE SUSPENSION SLAT FOR AIRFLOW RESISTANCE AS NEEDED.
6. SELECT THE 3/4" (20.0 x 1.41) 303 PAVE TUBE FROM THE CELL, GUTTER, AND TANK. MAKE SURE THE TUBE IS THE SAME LENGTH AND PURPOSE.
7. REMOVE THE SUSPENSION SLAT FOR AIRFLOW RESISTANCE AS NEEDED.
8. CONTROL POWER WIRE CONNECTION.
9. REMOVE THE SUSPENSION SLAT FOR AIRFLOW RESISTANCE AS NEEDED.
10. WITH THE GUTTER ATTACHED
2. REQUIRE THE 2" OR MORE SPACE BETWEEN TRANSDUCER AND CELL FOR THE INSTALLATION
(IT BECOMES THE CASE OF DRIFT OR DRIFT, IT DRIFTS)
11. REMOVE THE SUSPENSION SLAT FOR AIRFLOW RESISTANCE AS NEEDED.
12. OTHERWISE, CONVECTION AND DRIFTING MAY OCCUR.
13. REMOVE THE SUSPENSION SLAT FOR AIRFLOW RESISTANCE AS NEEDED.
14. RIGHT AT FIGURE
15. FOR THE INSTALLATION OF THE OPTIMAL HIGH EFFICIENCY FILTER OR
16. WITH FUNCTIONAL, DESIGNER, THEN TO SPECIAL DRAWING

OUTDOOR UNIT DIMENSIONS: PUZ-A24NHA7

Unit: mm<in>

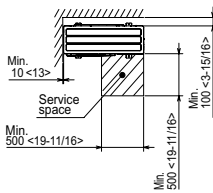
1 FREE SPACE (Around the unit)

The diagram below shows a basic example.
Explanation of particular details are given in the installation manuals etc.



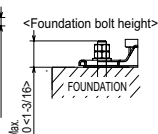
2 SERVICE SPACE

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



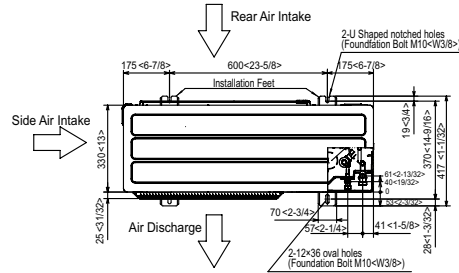
3 FOUNDATION BOLTS

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



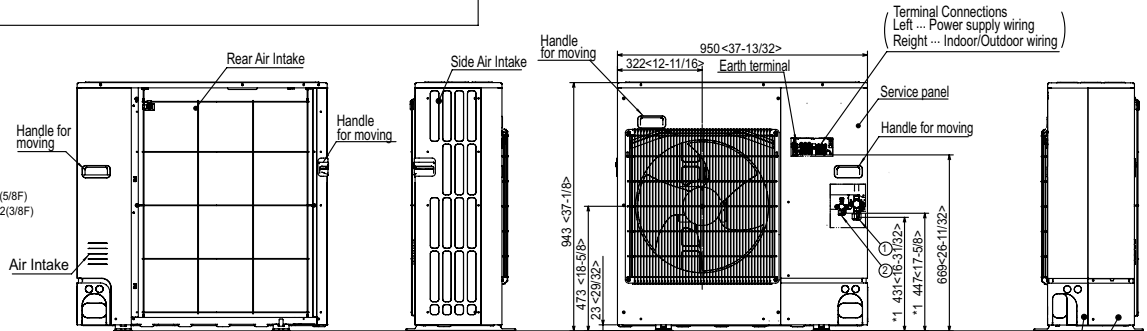
4 PIPING-WIRING DIRECTIONS

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

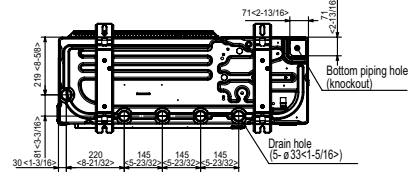
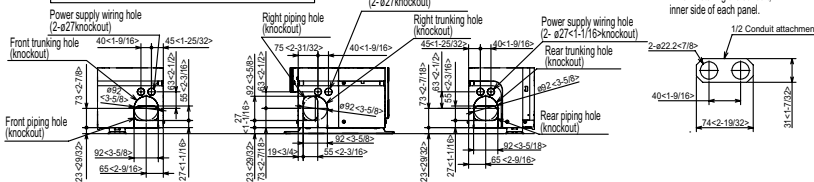


Example of Notes

- ① --- Refrigerant GAS pipe connection (FLARE) ø15.88(5/8F)
- ② --- Refrigerant LIQUID pipe connection (FLARE) ø9.52(3/8F)
- *1 --- Indication of STOP VALVE connection location.



Piping knockout Hole Details



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

FORM# PLA-A24EA8 & PUZ-A24NHA7 - 202408

