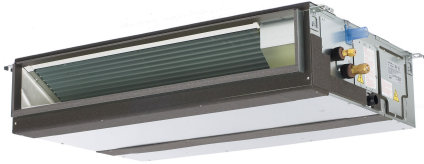


Job Name:

System Reference:

Date:

Indoor Unit:
PEAD-A24AA7



Outdoor Unit:
PUZ-HA24NHA



INDOOR UNIT FEATURES

- Unobtrusive ceiling-concealed design for short-run ductwork.
- Wide ranging external static pressure (0.14-0.60 in. WG)
- Built-in condensate lift mechanism (up to 27'-9/16")
- Auto fan speed mode
- Optional FB Series filter boxes for easy access and service
- Ideal for residential homes, retail shopping centers, larger classrooms, office complexes, conference ballrooms, fitness centers, and more

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
- Power receiver pre-charged with refrigerant volume for piping length up to 70 ft.
- High pressure/temperature protection

SPECIFICATIONS: PEAD-A24AA7 & PUZ-HA24NHA

Cooling ¹	Maximum Capacity		BTU/H	24,000
	Rated Capacity		BTU/H	24,000
	Minimum Capacity		BTU/H	10,000
	Maximum Power Input		W	2,080
	Rated Power Input		W	2,080
	Moisture Removal		Pints/h	6.9
	Sensible Heat Factor			0.68
	Power Factor		%	93
Heating at 47°F ²	Maximum Capacity		BTU/H	28,000
	Rated Capacity		BTU/H	25,000
	Minimum Capacity		BTU/H	10,000
	Maximum Power Input		W	2,280
	Rated Power Input		W	1,920
	Power Factor		%	92
Heating at 17°F ³	Maximum Capacity		BTU/H	25,000
	Rated Capacity		BTU/H	18,000
	Maximum Power Input		W	3,450
	Rated Power Input		W	1,920
Heating at 5°F ⁴	Maximum Capacity		BTU/H	25,000
	Maximum Power Input		W	3,650
Efficiency	SEER			16.6
	EER ¹			11.5
	HSPF (IV)			11.0
	COP at 47°F ²			3.80
	COP at 17°F ³			2.12
	ENERGY STAR® Certified (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body)			No
Electrical	Voltage, Phase, Frequency			208 / 230V, 1-phase, 60 Hz
	Guaranteed Voltage Range		V AC	198 – 253
	Voltage: Indoor - Outdoor, S1-S2		V AC	208 / 230
	Voltage: Indoor - Outdoor, S2-S3		V DC	24
	Voltage: Indoor - Remote controller			Optional
	Recommended Fuse/Breaker Size (Outdoor)		A	25
	Recommended Wire Size (Indoor - Outdoor)		AWG	14
Indoor Unit	MCA		A	2.63
	Fan Motor Full Load Amperage		A	2.10
	Fan Motor Output		W	121
	Airflow Rate, Dry		CFM	512-635-741
	Airflow Rate, Wet		CFM	472-595-701
	External Static Pressure		in.WG	0.14-0.2-0.28-0.4-0.6
	Sound Pressure Level		dB(A)	30-33-37
	Drain Pipe Size		In. (mm)	1-1/4 (32)
	Condensate Lift Mechanism, Maximum Distance		In. (mm)	27-9/16 (700)
	Heat Exchanger Type			Plate fin coil
	External Finish Color			Galvanized sheets
	Unit Dimensions	W: In. (mm)	43-5/16 (1,100)	
		D: In. (mm)	28-7/8 (732)	
		H: In. (mm)	9-7/8 (250)	
	Package Dimensions	W: In.	53-3/16	
		D: In.	34-11/16	
		H: In.	13-7/16	

SPECIFICATIONS: PEAD-A24AA7 & PUZ-HA24NHA

	Unit Weight	Lbs. (kg)	69 (31)
	Package Weight	Lbs.	82
Indoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)	°F	90 DB, 73 WB / 67 DB, 59 WB
	Heating Intake Air Temp (Maximum / Minimum)	°F	83 DB / 50 DB
Outdoor Unit	MCA	A	19
	MOCP	A	26
	Fan Motor Full Load Amperage	A	0.40
	Fan Motor Output	W	86
	Airflow Rate	CFM	1,940
	Refrigerant Control		Linear expansive valve
	Defrost Method		Reverse Cycle
	Heat Exchanger Type		Plate Fin Coil
	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
	Compressor Oil Type // Charge	Lbs, oz	FVC68D // 7,11
	External Finish Color		Ivory Munsell 3Y 7.8/1.1
	Base Pan Heater		n/a
	Unit Dimensions	W: In. (mm)	37-13/32 (950)
		D: In. (mm)	13 + 1-3/16 // (330 + 30)
		H: In. (mm)	37-1/8 // (943)
	Package Dimensions	W: In.	41-15/16 (1,040)
		D: In.	18 (450)
		H: In.	41-11/16 (1,033)
	Unit Weight	Lbs. (kg)	188 (85)
	Package Weight	Lbs.	206 (93)
Outdoor Unit Operating Temperature Range	Cooling Intake Air Temp (Maximum / Minimum)	°F	115 DB / 23° DB
	Heating Intake Air Temp (Maximum / Minimum)	°F	70 DB / -13 DB
	Thermal Lock-out / Re-start Temperatures**	°F	-17 / -13
Refrigerant	Type		R410A
	Charge	Lbs, oz	7 lbs, 11 oz
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 // -4 DB, -5 WB

Notes

*Wind baffles required to operate below 23°F DB in cooling mode. PUZ with wind baffle: 0°F - 115°F.

**System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.

ACCESSORIES: PEAD-A24AA7

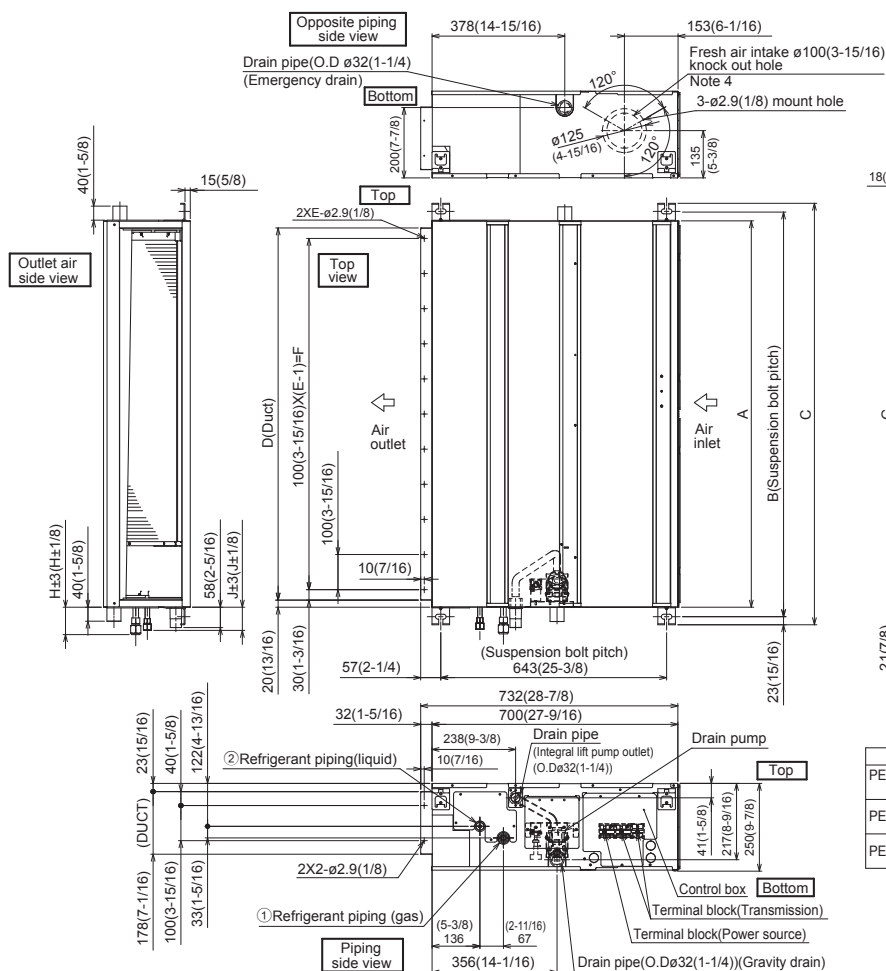
Filter Box with MERV 13 Filters	□ FBM2-3-A
Wireless Signal Receiver	□ PAR-SA9CA-E
Wireless Signal Receiver	□ PAR-FA32MA-W
Wireless Remote Controller	□ PAR-FL32MA-E
kumo touch™ RedLINK™ Wireless Controller	□ MHK2
Deluxe MA Remote Controller	□ PAR-40MAAU
Simple MA Controller	□ PAC-YT53CRAU-J
Touch MA Controller	□ PAR-CT01MAU-SB
Airzone ZBS Wired Blueface Principal Controller White	□ AZZBSBLUEFACECB
Airzone ZBS Wired Think Controller White	□ AZZBSTHINKCB
Airzone ZBS Wireless Think Controller White	□ AZZBSTHINKRB
Airzone ZBS Wired Lite Controller White	□ AZZBSLITECB
Airzone ZBS Wireless Lite Controller White	□ AZZBSLITERB
Wired Remote Sensor	□ PAC-SE41TS-E
Wireless Temperature and Humidity Sensor	□ PAC-USWHS003-TH-1
Flush Mount Remote Temperature Sensor	□ PAC-USSEN001-FM-1
Wireless Interface 2	□ PAC-USWHS002-WF-2
Thermostat Interface	□ PAC-US444CN-1
kumo station®	□ PAC-WHS01HC-E
USNAP Interface	□ PAC-WHS01UP-E
IT Extender	□ PAC-WHS01IE-E
BACnet® and MODBUS® Interface	□ PAC-UKPRC001-CN-1
External Fan / Heater Control Relay Adapter	□ CN24RELAY-KIT-CM3
Connector cable for remote display	□ PAC-SA88HA-EP
Wire for Remote on/off with CN32 connector	□ PAC-715AD
Lockdown Bracket for Hand-held Remote Controllers	□ RCMKP1CB
Remote Operation Adapter ¹	□ PAC-SF40RM-E
Blue Diamond Sensor Extension Cable — 15 Ft.	□ C13-103
MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir & Sensor	□ X87-835 - 110 to 250V
Advanced Blue Diamond Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	□ X87-721 - 208/230V
(30A/600V/UL) [fits 2" X 4" utility box] - Black	□ TAZ-MS303
(30A/600V/UL) [fits 2" X 4" utility box] - White	□ TAZ-MS303W

¹ Unable to use with wireless remote controller

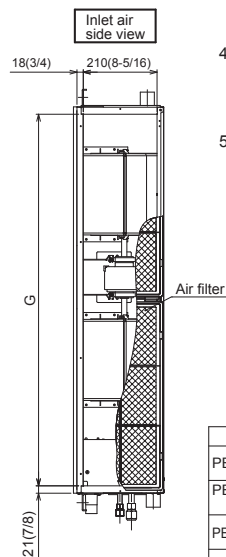
ACCESSORIES: PUZ-HA24NHA

Air Outlet Guide	□ PAC-SG59SG-E
Front Wind Baffle	□ WB-PA5
Side Advanced Wind Baffle	□ WB-SD5
Rear Advanced Wind Baffle	□ WB-RE5
Drain Socket	□ PAC-SG61DS-E
Centralized Drain Pan	□ PAC-SG64DP-E
M-NET Converter	□ PAC-SJ85MA-E
M-NET Converter	□ PAC-SJ95MA-E
Control/Service Tool	□ PAC-SK52ST
Hail Guard	□ HG-A6
Condensing Unit Mounting Pad 24" x 42" x 3"	□ ULTRILITE2
Outdoor Unit Stand—12" High	□ QSMS1201M
Outdoor Unit Stand—18" High	□ QSMS1801M
Outdoor Unit Stand—24" High	□ QSMS2401M
Heavy Duty Wall Mounting Bracket for Outdoor Units—Coated Steel	□ QSWB2000M-1
Heavy Duty Wall Mounting Bracket for Outdoor Units—316 Series Stainless Steel	□ QSWBSS
3/8" x 5/8" x 10' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-10
3/8" x 5/8" x 15' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-15
3/8" x 5/8" x 30' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-30
3/8" x 5/8" x 50' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-50
3/8" x 5/8" x 65' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-65
3/8" x 5/8" x 100' / 1/2" Lineset (Twin-Tube Insulation)	□ MPLS385812T-100

DIMENSIONS: PEAD-A24AA7



- Note 1. Use an M10 screw for the suspension bolt (field supply).
2. Keep the service space for maintenance at the bottom.
3. This drawing is for PEAD-A24·30·36·42 AA7 models, which have 2 fans. PEAD-A09·12·15·18AA7 models have 1 fan.
4. If the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at the suction side.
5. Heat air to 0°C (32°F) or higher when taking fresh air with a fresh air intake.



Unit:mm(in.)

Model	J	① Gas pipe	② Liquid pipe
PEAD-A09AA7	62 (2-1/2)	$\phi 9.52$ (3/8)	$\phi 6.35$ (1/4)
PEAD-A12, 15, 18AA7	62 (2-1/2)	$\phi 12.7$ (1/2)	$\phi 6.35$ (1/4)
PEAD-A24, 30AA7	66 (2-5/8)	$\phi 15.88$ (5/8)	$\phi 9.52$ (3/8)
PEAD-A36, 42AA7			

Unit:mm(in.)

Model	A	B	C	D	E	F	G	H
PEAD-A09, 12, 15, 18AA7	900 (35-7/16)	954 (37-9/16)	1000 (39-3/8)	860 (33-7/8)	9 (3/8)	800 (31-1/2)	858 (33-13/16)	72 (2-7/8)
PEAD-A24, 30AA7	1100 (43-5/16)	1154 (45-7/16)	1200 (47-1/4)	1060 (41-3/4)	11 (7/16)	1000 (39-3/8)	1058 (41-11/16)	78 (3-1/8)
PEAD-A36, 42AA7	1400 (55-1/8)	1454 (57-1/4)	1500 (59-1/16)	1360 (53-9/16)	14 (11/16)	1300 (51-3/16)	1358 (53-1/2)	

Unit: mm<inch>

4. PIPING-WIRING DIRECTIONS

PIPING AND WIRING CONNECTIONS CAN BE MADE FROM 4 DIRECTIONS. FRONT, RIGHT, REAR AND BELOW.

3. FOUNDATION BOLTS

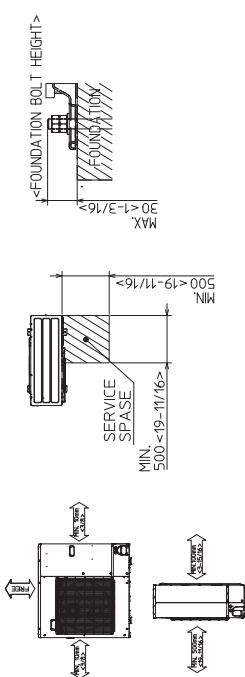
PLEASE SECURE THE UNIT FIRMLY WITH 4 FOUNDATION BOLT (M10x3/8) BOLTS. BOLTS AND WASHERS MUST BE PURCHASED LOCALLY.

2. SERVICE SPACE

DIMENSIONS OF SPACE NEEDED FOR SERVICE ACCESS ARE SHOWN IN THE BELOW DIAGRAM. (BOLTS AND WASHERS MUST BE PURCHASED LOCALLY.)

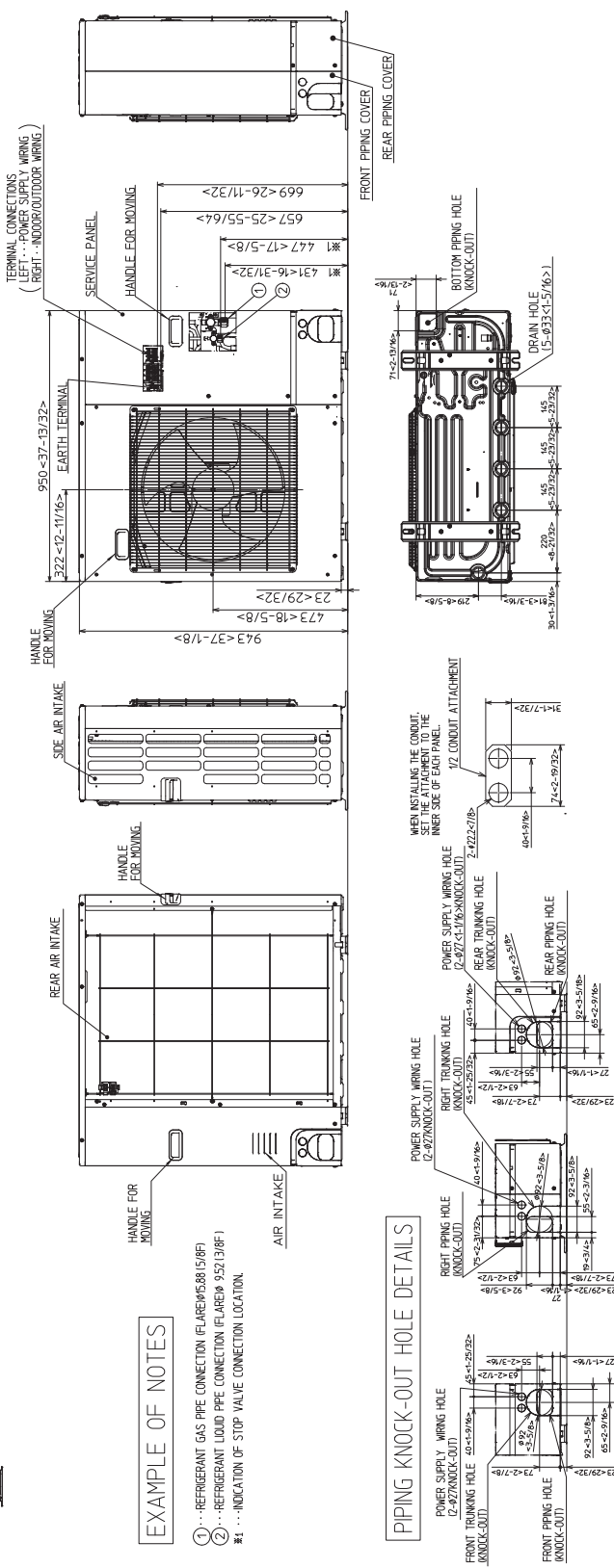
1. FREE SPACE (AROUND THE UNIT)

THE DIAGRAM BELOW SHOWS A BASIC EXAMPLE. EXPLANATION OF PARTICULAR DETAILS ARE GIVEN IN THE INSTALLATION MANUALS ETC.



EXAMPLE OF NOTES

- ① ...REFRIGERANT GAS PIPE CONNECTION (FLARE#15/8F)
- ② ...REFRIGERANT LIQUID PIPE CONNECTION (FLARE# 9/52 (3/8")
- #1 ... INDICATION OF STOP VALVE CONNECTION LOCATION



PIPING KNOCK-OUT HOLE DETAILS

