PEAD-AA18NL & SUZ-AA18NLHZ
18,000 BTU/H HORIZONTAL-DUCTED INDOOR UNIT
16,400 BTU/H HYPER HEAT PUMP OUTDOOR UNIT

Job Name:			
System Reference:		**Date:**	

INDOOR Unit ... PEAD-AA18NL

OUTDOOR Unit ... SUZ-AA18NLHZ

INDOOR UNIT FEATURES

- Wi-Fi Optional: A Wireless Interface Adapter can be ordered as an accessory for field installation.
- Four Speed Fan: Adjust the fan between four speed settings to optimal comfort.
- Auto Changeover: The unit will automatically switch between heating and cooling modes to maintain your desired temperature.
- Condensate Lift Mechanism: Reduces the need for an additional pump to remove condensate. Units with a condensate lift mechanism also include an overflow safety switch.
- Light Commercial: Light commercial applications include small offices, restaurants, and retail.

OUTDOOR UNIT FEATURES

- H2i® Hyper-Heating: 100% heating capacity down to 5° F .
- Inverter Driven Compressor: Inverter technology uses only the precise amount of energy needed to keep a space comfortable.
- Blue Fin Coating: Anti-corrosion coating that protects the outdoor heat exchanger against salt, sulfur, and other airborne contaminants that impact the efficiency and performance of the outdoor units.
- Base Pan Heater: This advanced base pan heater helps to prevent interrupted operation due to water freezing after a defrost cycle, ensuring your warmth and comfort during colder weather.
- Seacoast Protection: An anti-corrosion treatment applied to the aluminum fins of the heat exchanger of the outdoor unit to protect against corrosion caused by salt, sulfur, and other airborne contaminants, especially in coastal and industrial areas.

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SPECIFICATIONS: PEAD-AA18NL & SUZ-AA18NLHZ

Cooling at 95F[1]	Maximum Capacity	Btu/h	18000
	Rated Capacity	Btu/h	18000
	Minimum Capacity	Btu/h	5500
	Maximum Power Input	W	1410
	Rated Power Input	W	1410
	Moisture Removal	Pints/h	2.90
	Sensible Heat Factor		0.82
	Power Factor [208V / 230V]	%	95 / 95
Heating at 47F[2]	Maximum Capacity	Btu/h	23500
	Rated Capacity	Btu/h	20000
	Minimum Capacity	Btu/h	8300
	Maximum Power Input	W	1910
	Rated Power Input	W	1542
	Power Factor [208V / 230V]	%	97 / 97
Heating at 17F[3]	Maximum Capacity	Btu/h	20000
	Rated Capacity	Btu/h	13100
	Maximum Power Input	W	2590
	Rated Power Input	W	1380
Heating at 5F[5]	Maximum Capacity	Btu/h	20000
	Maximum Power Input	W	2590
Heating at -13F[9]	Maximum Capacity	Btu/h	12100
Efficiency	SEER2		17.30
	EER2[1]		12.70
	HSPF2 [IV]		10
	COP at 47°F[2]		3.80
	COP at 17°F at Maximum Capacity[3]		2.20
	COP at 5°F at Maximum Capacity[5]		2
	COP at -13°F at Maximum Capacity[9]		1.61
	ENERGY STAR® Certified		Yes
Electrical	Voltage, Phase, Frequency	V AC / V AC , ø , Hz	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	12-24
	Short-circuit Current Rating [SCCR]	kA	5
	Recommended Fuse/Breaker Size (Outdoor)	A	30
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	2.25
	Fan Motor Output	W	121
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	403 , 424 , 512 , 600
	Airflow Rate at Heating, Dry	CFM	403 , 424 , 512 , 600
	Sound Pressure Level [Cooling]	dB (A)	28 , 29 , 34 , 37
	Sound Pressure Level [Heating]	dB (A)	28 , 29 , 34 , 37
	External Static Pressure	in.WG	0.14 , 0.20 , 0.28 , 0.40 , 0.60
	Drain Pipe Size O.D.	inch [mm]	1-1/4 [32]
	Condensate Lift Mechanism, Max Height	inch [mm]	27-9/16 [700]
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-7/16 x 28-7/8 x 9-7/8 [900 x 732 x 250]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	46-1/8 x 35-7/16 x 13 [1170 x 900 x 330]
	Unit Weight	lbs [kg]	60 [27]
	Package Weight	lbs [kg]	71 [32]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	95 , 73 / 66 , 59
	Heating Intake Air Temp [Maximum / Minimum]	°FDB	83 / 50
Outdoor Unit	MCA	A	25
	MOCP	A	42
	Fan Motor Output	W	50

Notes

[1]Cooling at 95°F (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
[5]Heating at 5°F (Indoor // Outdoor) °F 70 DB, 60 WB // 5 DB, 4 WB
[9]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]): • Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions.
[**]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 and automatically restarts at these temperatures.
[3]Nominal capacity only. Actual capacity output varies based on the system specific configuration

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Outdoor Unit	Airflow Rate Cooling	CFM	2193
	Airflow Rate Heating	CFM	1949
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling[1]	dB (A)	54
	Sound Pressure Level, Heating[2]	dB (A)	55
	Compressor Type		Twin Rotary
	Compressor Model		SRB172FQHMT
	Compressor Oil [Type // Charge]	// oz	RM68EH // 14.5
	External Finish Color		Munsell No.3Y 7.8/1.1
	Base Pan Heater		Built-in
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	33-1/16 x 13 x 34-5/8 [840 x 330 x 880]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	38-5/8 x 16-9/16 x 39 [980 x 420 x 990]
	Unit Weight	lbs [kg]	115 [52.2]
	Package Weight	lbs [kg]	133 [60.3]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	-1 / 3
	Heating Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	75 , 65 / -13 , -14
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-22.5 / -14
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs	3
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.60]
	Additional Refrigerant Charge Per Additional Piping Length	oz/ft	0.22
Piping	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Gas Pipe Size O.D. [Flared]	inch [mm]	1/2 [12.72]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	50 [15]
	Maximum Number of Bends		10

Notes

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INDOOR UNIT ACCESSORIES: PEAD-AA18NL

Condensate	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
	Refco Condensate Pump 100-240V up to 120k BTU/h	COMBI
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Sauermann Condensate Pump 120-230V up to 60k BTU/h	SI30-230
	Blue Diamond MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH	X86-003
	Blue Diamond MegaBlue Condensate Pump with Reservoir Sensor 115-230V up to 170k BTU/h	X87-835
	Blue Diamond MaxiBlue Condensate Pump with Reservoir Sensor 115-230V up to 48k BTU/h	X88-721
Control Interface	Operation and Error Status Output Adapter	PAC-SF40RM-E
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	kumo station® for Comfort app	PAC-WHS01HC-E
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
	IT Extender	PAC-WHS01IE-E
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Airzone Wireless Think Controller White	AZZBSTHINKRB
Control Wire	202PR 1PR shielded 1PR plenum wire for Airzone 100 ft reel	CW2042S2-100
	202PR shielded 1PR plenum wire for Airzone 500 ft reel	CW2042S2-500
Disconnect Switch	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
Filter Box	Filter Box with 2" thick pleated MERV 13 Filters	FBM2-2-A
Lineset	1/4 x 1/2 Lineset Twin-Tube Insulation - 30 feet	MLS141212T-30
	1/4 x 1/2 Lineset Twin-Tube Insulation - 100 feet	MLS141212T-100
	1/4 x 1/2 Lineset Twin-Tube Insulation - 65 feet	MLS141212T-65
	1/4 x 1/2 Lineset Twin-Tube Insulation - 50 feet	MLS141212T-50
	1/4 x 1/2 Lineset Twin-Tube Insulation - 15 feet	MLS141212T-15
Remote Sensor	Wall Mount Remote Temperature Sensor	PAC-SE41TS-E
	Wireless temperature and humidity sensor for Comfort app	PAC-USWHS003-TH-1
	Flush Mount Remote Temperature Sensor for SEZ SLZ SVZ and all P-Series models	PAC-USSEN002-FM-1
Terminal Signal Adapter	Backup Heat Relay Kit	CN24RELAY-KIT-CM3
	Connector and wire for On/Off and Fan command using CN32	PAC-715AD
	Connector and wire for On/Off and Error status using CN51 and CN52	PAC-725AD
Wired Remote Controller	Simple MA Remote Controller	PAC-YT53CRAU-J
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Deluxe Wired MA Remote Controller	PAR-42MAAUB
	Touch MA Remote Controller	PAR-CT01MAU-SB
Wireless Remote Controller	Wireless Remote Contoller	PAR-SL101A-E
	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	Wireless MA Handheld Remote Controller (requires PAR-FA32MA-E)	PAR-FL32MA-E
	Universal Wireless Receiver for PAR-FL32MA-E	PAR-FA32MA-W
	Wireless RedLINK™ Remote Controller	MHK2

Notes

[1]Unable to use with Wireless Handheld Remote Controller
[1]Requires MAC-334IF-E Interface to connect MA controller

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OUTDOOR UNIT ACCESSORIES: SUZ-AA18NLHZ

Air Outlet Guide	Air Outlet Guide	☐ MAC-890SG-E
Control/Service Tool	Maintenance Tool Interface	☐ PAC-USCMS-MN-1
	M- & P-Series Maintenance Tool Cable Set	☐ M21EC0397
Drain Socket	Drain Socket	☐ MAC-871DS
Hail Guards	Hail Guard	☐ HG-A7
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	☐ SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	☐ S144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	☐ S144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	☐ SW144-250
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	☐ ULTRILITE1
Muffler	Muffler	☐ MAC-002MF-E
Snow/Rain Diverter	SnowRain Diverter	☐ SRD-3
Stand	24 Single Fan Stand	☐ QSMS2401M
	18 Single Fan Stand	☐ QSMS1801M
	Condenser Wall Bracket	☐ QSWB2000M-1
	Outdoor Unit Stand 12 High	☐ QSMS1201M
	Condenser Wall Bracket - Stainless Steel Finish	☐ QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	☐ DSD-400P
Notes		

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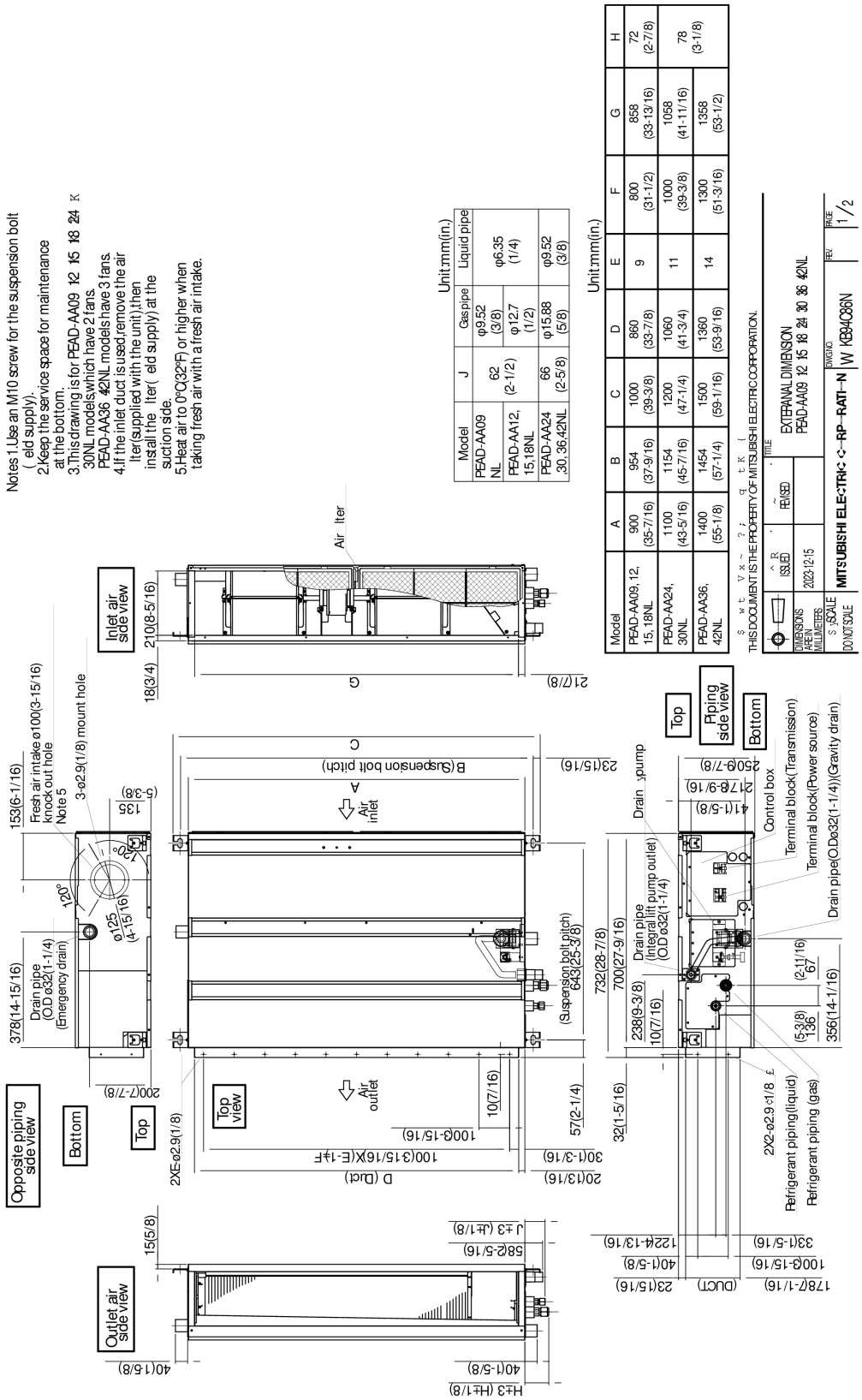
INDOOR UNIT DIMENSIONS: PEAD-AA18NL



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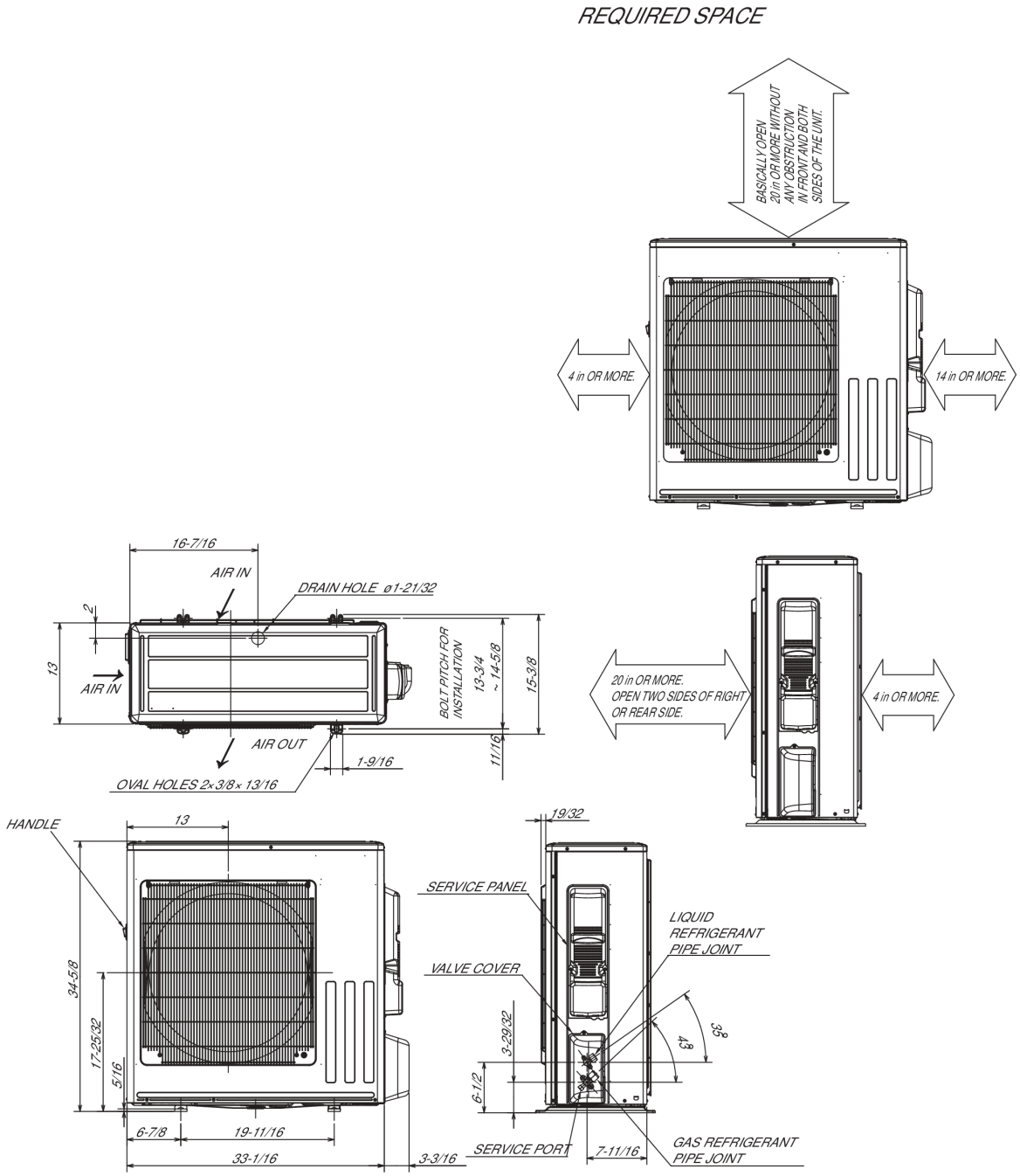

REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED ø6.35 (1/4")
	GAS REFRIGERANT PIPE	AA09/12 : FLARED ø9.52 (3/8") AA15/18 : FLARED ø12.7 (1/2") AA24/30/36 : FLARED ø15.88 (5/8")

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