

MSZ-EX12NLW & SUZ-AA12NLHZ
12,000 BTU/H WALL-MOUNTED INDOOR UNIT
12,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



INDOOR Unit.....MSZ-EX12NLW

OUTDOOR Unit.....SUZ-AA12NLHZ

INDOOR UNIT FEATURES

- Dual Barrier Coating: Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the inner surface of the indoor unit.
- Econo Cool: Temporarily adjusts airflow to maintain comfort while using less energy.
- Five Speed Fan: Adjust the fan between five speed settings to optimal comfort.
- Horizontal Vane Control: Horizontal Vane Control allows the indoor unit vanes to be moved left right to provide even temperatures throughout a space.
- Multi Zone: A multi-zone unit provides personalized comfort control to multiple spaces.
- Smart Set: : Smart Set conveniently adjusts to the preferred preset temperature by pressing a single button on the remote control.

OUTDOOR UNIT FEATURES

- Inverter Driven Compressor: Inverter technology uses only the precise amount of energy needed to keep a space comfortable.
- Seacoast Protection: Designed to protect against the corrosive effects of environments that are in close proximity to the sea.
- Hot Start: The system will warm up before blowing air, preventing blasts of cold air at start-up.
- H2i® Hyper-Heating: 100% heating performance down to 5° F with guaranteed heating down to -13° F.
- Freeze 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.
- Flash Injection: Flash Injection enables optimum compressor performance when it is running at higher speeds to maintain indoor comfort during cold temperatures.
- 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.

SPECIFICATIONS: MSZ-EX12NLW & SUZ-AA12NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	12,000
	Rated Capacity	Btu/h	12,000
	Minimum Capacity	Btu/h	4,800
	Maximum Power Input	W	850
	Rated Power Input	W	850
	Moisture Removal	Pints/h	1.90
	Sensible Heat Factor	-	0.82
Heating at 47F ²	Power Factor [208V / 230V]	% / %	99 / 99
	Maximum Capacity	Btu/h	18,000
	Rated Capacity	Btu/h	15,000
	Minimum Capacity	Btu/h	8,300
	Maximum Power Input	W	1,490
	Rated Power Input	W	1,150
	Power Factor [208V / 230V]	% / %	95 / 95
Heating at 17F ³	Maximum Capacity	Btu/h	15,000
	Rated Capacity	Btu/h	9,400
	Maximum Power Input	W	1,670
	Rated Power Input	W	1,040
Heating at 5F ⁵	Maximum Capacity	Btu/h	15,000
	Maximum Power Input	W	2,198
Heating at -13F ⁹	Maximum Capacity	Btu/h	9,100
Efficiency	SEER2		17.60
	EER2 ¹		14.10
	HSPF2 [IV]		10
	COP at 47°F ²		3.80
	COP at 17°F at Maximum Capacity ³		2.60
	COP at 5°F at Maximum Capacity ⁵		2.00
	COP at -13°F at Maximum Capacity ⁹		1.63
Electrical	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency	V AC / V AC , ø , Hz	208 / 230 , 1 , 60
	Guaranteed Voltage Range	V AC - 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
Indoor Unit	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Fan Motor Output	W	30
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	143 , 164 , 228 , 305 , 391
	Airflow Rate at Cooling, Wet	CFM	128 , 147 , 205 , 274 , 352
	Airflow Rate at Heating, Dry	CFM	143 , 164 , 205 , 244 , 479
	Sound Pressure Level [Cooling]	dB (A)	21 , 24 , 29 , 36 , 42
	Sound Pressure Level [Heating]	dB (A)	21 , 24 , 30 , 38 , 46
	Drain Pipe Size O.D.	inch [mm]	5/8 [16]
	Dual Barrier Coating on Heat Exchanger		Yes
	External Finish Color		0.7PB 9.2/0.4
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	34-13/16 x 7-11/16 x 11-3/4 [885 x 195 x 299]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	35-5/8 x 14-3/16 x 10-11/16 [980 x 360 x 270]
	Unit Weight	lbs [kg]	26 [11.50]
	Package Weight	lbs [kg]	29 [13]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	90 , 73 / 66 , 59
	Heating Intake Air Temp [Maximum / Minimum]	°FDB / °FDB	83 / 50
NOTES			
¹ Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)			
² Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)			
³ Heating at 17°F (Indoor: 70°F DB, 60°F WB // Outdoor: 17°F DB, 15°F WB)			
⁵ Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)			
⁹ Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F 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.			

SPECIFICATIONS: MSZ-EX12NLW & SUZ-AA12NLHZ

Outdoor Unit	MCA	A	25
	MOCP	A	42
	Fan Motor Output	W	50
	Airflow Rate Cooling	CFM	2,193
	Airflow Rate Heating	CFM	1,949
	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]	Type // oz	RM68EH // 14.54
	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 [52.16]
	Package Weight	lbs [kg]	133 [60.33]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB / °FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB / °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 / °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	Gas Pipe Size O.D. [Flared]	inch [mm]	3/8 [9.52]
	Liquid Pipe Size O.D. [Flared]	inch [mm]	1/4 [6.35]
	Maximum Piping Length	ft [m]	100 [30]
	Maximum Height Difference	ft [m]	50 [15]
	Maximum Number of Bends		10

NOTES

¹Cooling at 95°F (Indoor: 80°F DB, 67°F WB // Outdoor: 95°F DB, 75°F WB)

²Heating at 47°F (Indoor: 70°F DB, 60°F WB // Outdoor: 47°F DB, 43°F WB)

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

⁴Heating at 5°F (Indoor: 70°F DB, 60°F WB // Outdoor: 5°F DB, 4°F WB)

⁵Heating at -13°F (Indoor: 70°F DB, 60°F WB // Outdoor: -13°F DB, -14°F 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):

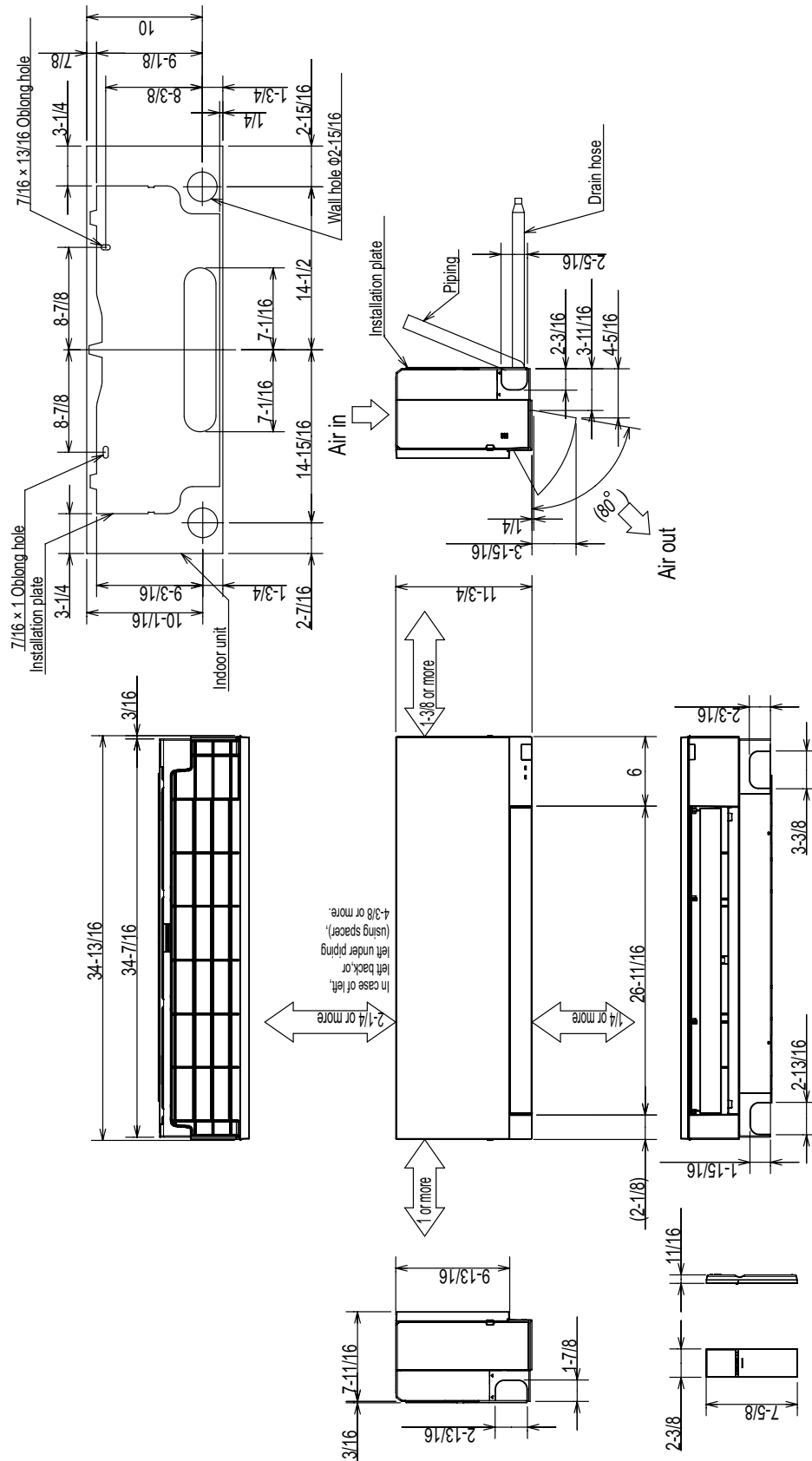
• System cuts out in heating mode and automatically restarts at these temperatures.

INDOOR UNIT ACCESSORIES: MSZ-EX12NLW

Condensate	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	Refco Condensate Pump 100-240V up to 120k BTU/h	COMBI
	Sauermann Condensate Pump	SI30-230
	Blue Diamond Sensor Extension Cable — 15 Ft.	C13-103
	Blue Diamond MicroBlue Condensate Pump with Fascia Kit 115-230V up to 18k BTU/h	X86-011
	Drain Pan Level Sensor/Control	SS610E
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	X87-711
	Blue Diamond MicroBlue Condensate Pump 115-230V up to 18k BTU/h	X86-003
	Refco Condensate Removal Pump with Wall Mount Enclosure 120-240V up to 120k BTU/h	GOBI-II
	Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor	X87-835
Control Interface	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
	kumo station® for Comfort app	PAC-WHS01HC-E
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	IT Extender	PAC-WHS01IE-E
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	M-Net I/O Control Interface for M-Series ²	MAC-334IF-E
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
Disconnect Switch	(30A/600V/UL) [fits 2" X 4" utility box] - White	TAZ-MS303W
	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
Filter	Microparticle Filter	MAC-EMF515FT-E
	Electro Static Anti-allergy Enzyme Filter	MAC-2320FT-E
Lineset	50 x 1/4 x 50 3/8 Lineset Twin-Tube Insulation	MLS143812T-50
	65 x 1/4 x 65 3/8 Lineset Twin-Tube Insulation	MLS143812T-65
	15 x 1/4 x 15 3/8 Lineset Twin-Tube Insulation	MLS143812T-15
	30 x 1/4 x 30 3/8 Lineset Twin-Tube Insulation	MLS143812T-30
Remote Sensor	Wireless temperature and humidity sensor for Comfort app	PAC-USWHS003-TH-1
	Remote Temperature Sensor for MFZ MLZ and MSZ models	M21EAA307
Terminal Signal Adapter	CN24 Relay Kit	CN24RELAY-KIT-CM3
Wired Remote Controller	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Deluxe MA Wired Remote Controller ¹	PAR-42MAAUB
	Simple MA Remote Controller ¹	PAC-YT53CRAU-J
	Touch MA Controller ¹ ¹	PAR-CT01MAU-SB
Wireless Remote Controller	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
	Wireless RedLINK™ Remote Controller	MHK2
NOTES ¹ Requires MAC-334IF-E Interface to connect MA controller ² Allows IDU Connection to MA Controller: *Deluxe MA Remote Controller *Simple MA Controller *Touch MA Controller		

OUTDOOR UNIT ACCESSORIES: SUZ-AA12NLHZ

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 Cable250 ft roll	SW144-250
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW144-50
	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
Muffler	Muffler	MAC-001MF-E
Port Adaptor	Adaptor 1/2 x 3/8	PAC-SK88RJ-E
Snow/Rain Diverter	SnowRain Diverter	SRD-3
Stand	18 Single Fan Stand	QSMS1801M
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1201M
	24 Single Fan Stand	QSMS2401M
	Condenser Wall Bracket	QSWB2000M-1
NOTES		



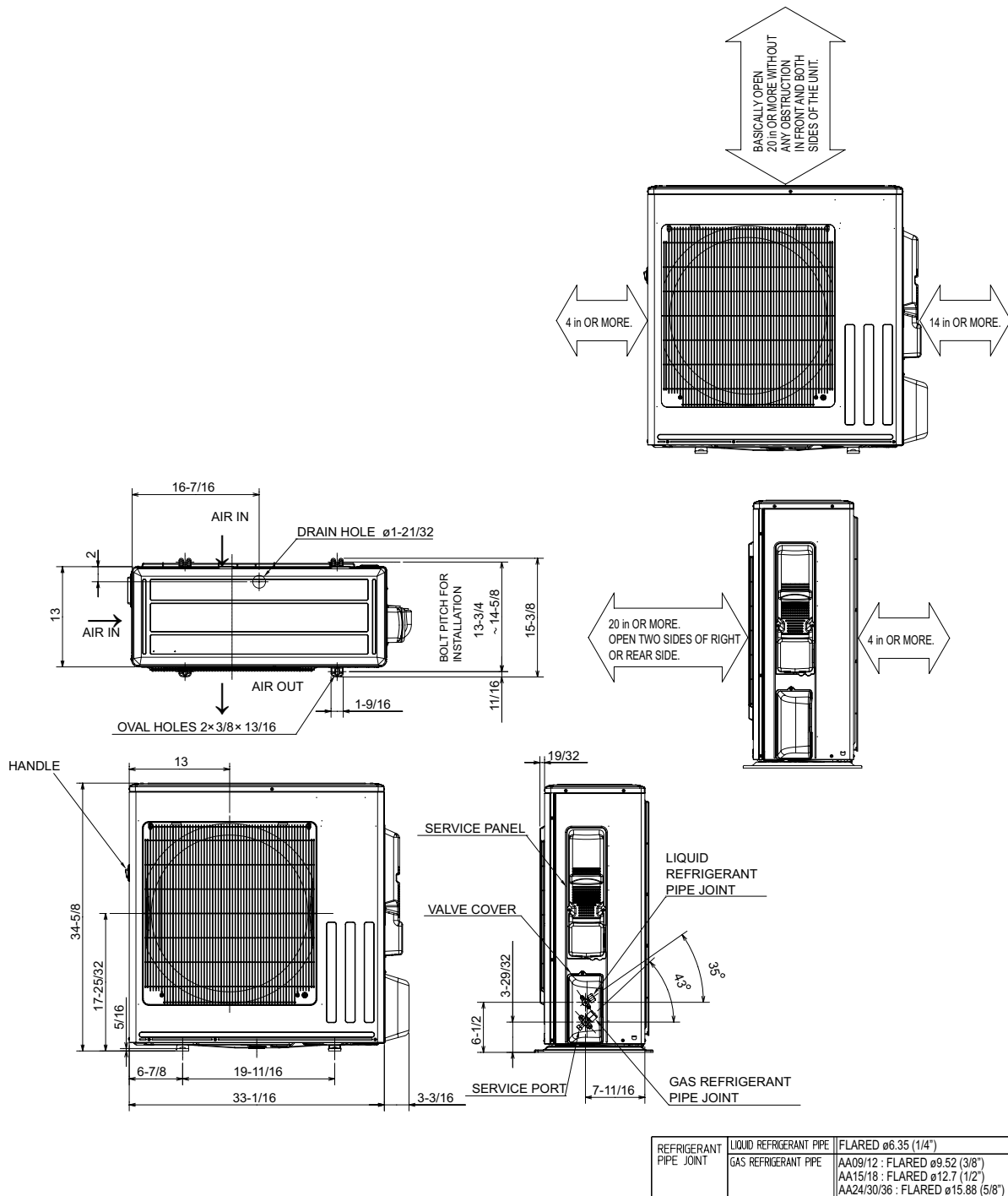
MSZ-EX15/18NL

Insulation	φ1-7/16 O.D
Liquid line	φ1/4 - 19-11/16 (Flared connection φ1/4)
Gas line	φ3/8 - 16-15/16 (Flared connection φ1/2)
Drain hose	Insulation φ1-1/8 Connected part φ5/8 O.D active length 5-3/8

Note: Extension pipe size refer to the specifications table.

OUTDOOR UNIT DIMENSIONS: SUZ-AA12NLHZ

REQUIRED SPACE



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