MSZ-FX09NL & MUZ-FX09NLHZ
9,000 BTU/H WALL-MOUNTED INDOOR UNIT
9,000 BTU/H H2I SUMO™ HYPER-HEATING INVERTER OUTDOOR UNIT

Job Name:

System Reference: Date:





INDOOR Unit MSZ-FX09NL

OUTDOOR Unit MUZ-FX09NLHZ

INDOOR UNIT FEATURES

- Smart Dry Plus Mode: The Smart Dry+ mode intelligently provides precise humidity control with minimal over-cooling of the space.
- Wi-Fi Enabled: Wi-Fi enabled units pair with the Comfort app for complete control over temperature, fan speeds, modes, schedules, and more.
- Multi Zone: A multi-zone unit provides personalized comfort control to multiple spaces.
- Dual Barrier Fusion: Dual Barrier Fusion reduces the collection of contaminants like dust, fibers, smoke, and oil on the vane of the indoor unit. Dual Barrier Fusion's shielding power is fused directly into the material of the vanes during manufacturing.
- 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.
- Advanced Frost Detection: Advanced Frost Detection provides longer continuous heating during frigid temperatures, maintaining comfort by reducing the number of defrost cycles.
- 3D i-see Sensor® (Built-in) : This advanced sensor scans the room for occupancy, then adjusts temperature and airflow based on user preferences, and saves energy when a room is empty.

OUTDOOR UNIT FEATURES

- Flash Injection: Flash Injection enables optimum compressor performance when it is running at higher speeds to maintain indoor comfort during cold temperatures.
- 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.
- H2i sumo™ Hyper-Heating: 100% heating performance at outdoor temperatures -10° F with guaranteed operation down to -22° F.
- Hot Start: The system will warm up before blowing air, preventing blasts of cold air at start-up.
- 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.
- 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.

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SPECIFICATIONS: MSZ-FX09NL & MUZ-FX09NLHZ

Cooling at 95F[1]	Maximum Capacity	Btu/h	15,000
	Rated Capacity	Btu/h	9,000
	Minimum Capacity	Btu/h	2,500
	Maximum Power Input	W	1,580
	Rated Power Input	W	490
	Moisture Removal	Pints/h	0
	Sensible Heat Factor	-	1
	Power Factor [208V / 230V]	% / %	87 / 88
Heating at 47F[2]	Maximum Capacity	Btu/h	21,300
	Rated Capacity	Btu/h	12,000
	Minimum Capacity	Btu/h	3,100
	Maximum Power Input	W	2,130
	Rated Power Input	W	710
	Power Factor [208V / 230V]	% / %	94 / 93
Heating at 17F[3]	Maximum Capacity	Btu/h	16,300
	Rated Capacity	Btu/h	7,700
	Maximum Power Input	W	2,000
	Rated Power Input	W	650
Heating at 5F[5]	Maximum Capacity	Btu/h	14,700
	Maximum Power Input	W	1,950
Heating at -5F[7]	Maximum Capacity	Btu/h	14,500
Heating at -10F[8]	Maximum Capacity	Btu/h	12,000
Heating at -22F[10]	Maximum Capacity	Btu/h	8,700
Efficiency	SEER2		33.10
	EER2[1]		18.35
	HSPF2 [IV]		13.30
	COP at 47°F[2]		4.95
	COP at 17°F at Maximum Capacity[3]		2.38
	COP at 5°F at Maximum Capacity[5]		2.20
	COP at -5°F at Maximum Capacity[7]		2.04
	COP at -10°F at Maximum Capacity[8]		2
	ENERGY STAR® Certified		Yes
Electrical	Voltage, Phase, Frequency	V AC / V AC , ø , Hz	208 / 230 , 1 , 60
	Guaranteed Voltage Range	V AC - V AC	187 - 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 (Outdoor)	A	15
	Recommended Wire Size [Indoor - Outdoor]	AWG	14
Indoor Unit	MCA	A	1
	Fan Motor Output	W	40
	Fan Motor Type		DC Motor
	Airflow Rate at Cooling, Dry	CFM	198 , 233 , 311 , 406 , 526
	Airflow Rate at Cooling, Wet	CFM	168 , 198 , 264 , 345 , 447
	Airflow Rate at Heating, Dry	CFM	177 , 247 , 311 , 406 , 477
	Sound Pressure Level [Cooling]	dB (A)	20 , 23 , 29 , 36 , 44
	Sound Pressure Level [Heating]	dB (A)	20 , 24 , 29 , 36 , 42
	Dual Barrier Coating on Heat Exchanger		Yes
	Dual Barrier Coating on Fan		Yes
	External Finish Color		Munsell 1.0Y 9.2/0.2
	Unit Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	39 -9/32 x 9-3/4 x 12 [998 x 247 x 305]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	43 -5/16 x 12-3/4 x 15-3/4 [1,100 x 330 x 400]
	Unit Weight	lbs [kg]	31.40 [14.20]
	Package Weight	lbs [kg]	36.40 [16.50]
IDU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	90 , 73 / 67 , 57
	Heating Intake Air Temp [Maximum / Minimum]	°FDB / °FDB	80 / 70

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)
[7]Heating at -5°F (Indoor: 70°F DB, 60°F WB // Outdoor: -5°F DB, -6°F WB)
[8]Heating at -10°F (Indoor: 70°F DB, 60°F WB // Outdoor: -10°F DB, -11°F WB)
[10]Heating at -22°F (Indoor: 70°F DB, 60°F WB // Outdoor: -22°F DB, -23°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.

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SPECIFICATIONS: MSZ-FX09NL & MUZ-FX09NLHZ

Outdoor Unit	MCA	A	14
	MOCP	A	15
	Fan Motor Output	W	55
	Airflow Rate Cooling	CFM	1,815
	Airflow Rate Heating	CFM	1,321
	Defrost Method		Reverse Cycle
	Coating on Heat Exchanger (Bluefin, Sea Coast)		Yes , Yes
	Sound Pressure Level, Cooling[1]	dB (A)	49
	Sound Pressure Level, Heating[2]	dB (A)	49
	Compressor Type		Twin Rotary
	Compressor Model		SRB140FQHMT
	Compressor Oil [Type // Charge]	Type // oz	RM68EH // 11.80
	External Finish Color		Munsell 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]	31-1/2 x 11-1/4 x 28-1/8 [800 x 285 x 714]
	Package Dimensions (W x D x H)	inch x inch x inch [mm x mm x mm]	37 x 15 x 35 [940 x 380 x 890]
	Unit Weight	lbs [kg]	89 [40.4]
	Package Weight	lbs [kg]	103.50 [46.90]
ODU Operating Temp. Range	Cooling Intake Air Temp [Maximum / Minimum*]	°FDB / °FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB / °FDB	-4 / 0
	Heating Intake Air Temp [Maximum / Minimum]	°FDB , °FWB / °FDB , °FWB	75 , 65 / -22 , -23.8
	Heating Thermal Lock-out / Re-start Temperatures**	°FDB / °FDB	-34 / -23
Refrigerant	Type		R454B
	Pre-Charged Refrigerant Amount	lbs , oz	2 , 12
	Maximum Pre-Charged Piping Length	ft [m]	25 [7.50]
	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]	65 [20]
	Maximum Height Difference	ft [m]	40 [12]
	Maximum Number of Bends		10

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)
[7]Heating at -5°F (Indoor: 70°F DB, 60°F WB // Outdoor: -5°F DB, -6°F WB)
[8]Heating at -10°F (Indoor: 70°F DB, 60°F WB // Outdoor: -10°F DB, -11°F WB)
[10]Heating at -22°F (Indoor: 70°F DB, 60°F WB // Outdoor: -22°F DB, -23°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.

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INDOOR UNIT ACCESSORIES: MSZ-FX09NL

Condensate	Drain Pan Level Sensor/Control	SS610E
	Blue Diamond (MegaBlue Advanced) Condensate Pump w/ Reservoir & Sensor	X87-835
	Sauermann Condensate Pump	SI30-230
	Refco Condensate Pump 100-240V up to 120k BTU/h	COMBI
	Blue Diamond MicroBlue Condensate Pump with Fascia Kit 115-230V up to 18k BTU/h	X86-011
	Blue Diamond (MaxiBlue Advanced) Mini Condensate Pump w/ Reservoir & Sensor (110V) up to 48,000 BTU/H [recommended]	X87-711
	Blue Diamond (Advanced) Mini Condensate Pump w/ Reservoir & Sensor (208/230V) [recommended]	X87-721
	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 Sensor Extension Cable — 15 Ft.	C13-103
Control Interface	Procon BACnet® and Modbus® Interface	PAC-UKPRC001-CN-1
	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	kumo station® for Comfort app	PAC-WHS01HC-E
	IT Extender	PAC-WHS01IE-E
	Wireless Interface 2 for Comfrot app	PAC-USWHS002-WF-2
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	M-Net I/O Control Interface for M-Series [2]	MAC-334IF-E
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	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	Platinum Deodorizing Filter	MAC-3010FT-E
Lineset	15 x 1/4 x 15 3/8 Lineset Twin-Tube Insulation	MLS143812T-15
	65 x 1/4 x 65 3/8 Lineset Twin-Tube Insulation	MLS143812T-65
	30 x 1/4 x 30 3/8 Lineset Twin-Tube Insulation	MLS143812T-30
	50 x 1/4 x 50 3/8 Lineset Twin-Tube Insulation	MLS143812T-50
Remote Sensor	Remote Temperature Sensor for MFZ MLZ and MSZ models	M21EAA307
	Wireless temperature and humidity sensor for Comfort app	PAC-USWHS003-TH-1
Terminal Signal Adapter	CN24 Relay Kit	CN24RELAY-KIT-CM3
Wired Remote Controller	Deluxe MA Wired Remote Controller [1]	PAR-42MAAUB
	Touch MA Controller† [1]	PAR-CT01MAU-SB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller [1]	PAC-YT53CRAU-J
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

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OUTDOOR UNIT ACCESSORIES: MUZ-FX09NLHZ

Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
Mini-Split Wire	14 Gauge 4 wire MiniSplit Cable250 ft roll	S144-250
	16 Gauge 4 wire MiniSplit Cable50 ft roll	S164-50
	14 Gauge 4 wire MiniSplit Cable50 ft roll	S144-50
	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	16 Gauge 4 wire MiniSplit Cable250 ft roll	S164-250
	16 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW164-250
	16 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW164-50
	14 Gauge 4 wire Armored MiniSplit Cable50 ft roll	SW144-50
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
Snow/Rain Diverter	SnowRain Diverter	SRD-1
Stand	24 Single Fan Stand	QSMS2401M
	Condenser Wall Bracket - Stainless Steel Finish	QSWBSS
	Condenser Wall Bracket	QSWB2000M-1
	Outdoor Unit 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1201M
	18 Single Fan Stand	QSMS1801M
NOTES		

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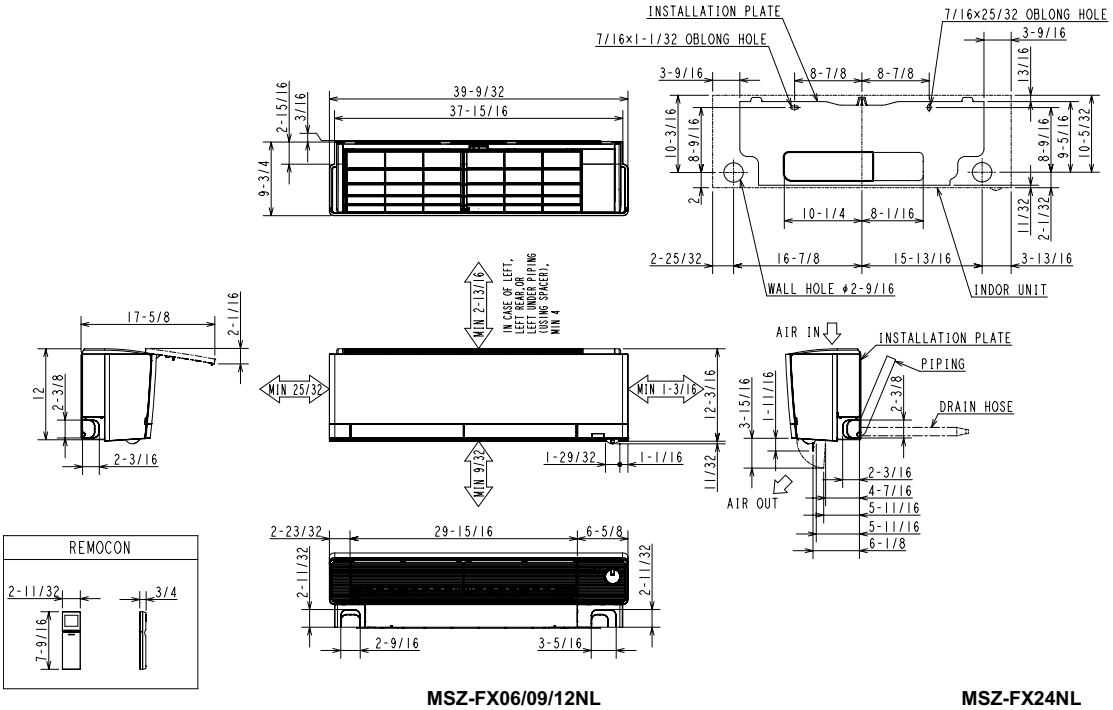
INDOOR UNIT DIMENSIONS: MSZ-FX09NL

MSZ-FX06NL-U1
MSZ-FX09NL-U1
MSZ-FX12NL-U1
MSZ-FX15NL-U1
MSZ-FX18NL-U1
MSZ-FX24NL-U1



MSZ-FX06/09/12NL

PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø3/8 - 17-3/4 (FLARED CONNECTION ø3/8)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

MSZ-FX15/18NL

PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø3/8 - 17-3/4 (FLARED CONNECTION ø1/2)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

MSZ-FX24NL

PIPING	INSULATION	ø1-9/16 O.D
	LIQUID LINE	ø1/4 - 19-11/16 (FLARED CONNECTION ø1/4)
	GAS LINE	ø15/32 - 17-3/4 (FLARED CONNECTION ø5/8)
DRAIN HOSE		INSULATION ø1-5/32 CONNECTED PART ø5/8 O.D

*The diameter of the gas line piping is ø3/8 in one spot.

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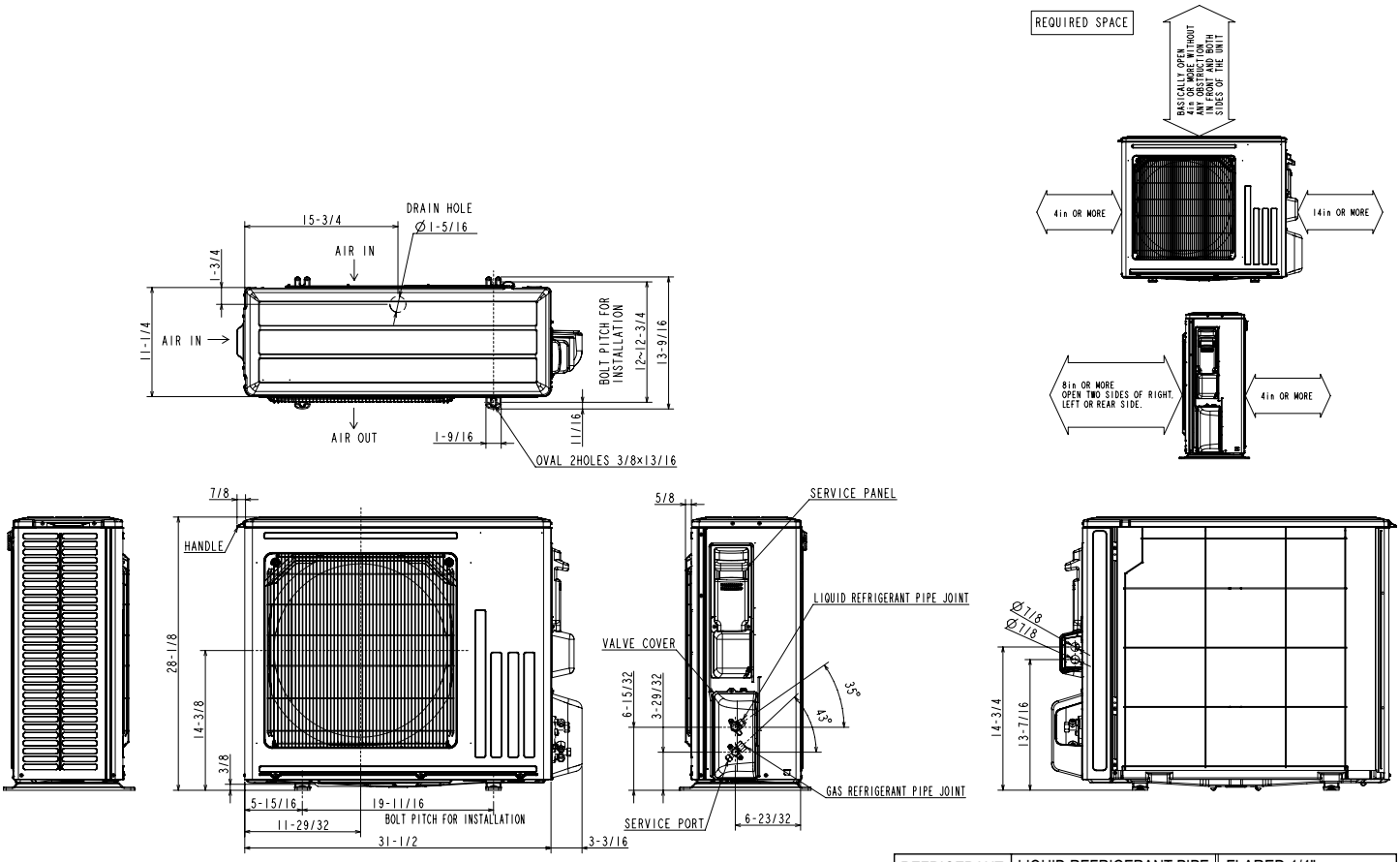
OUTDOOR UNIT DIMENSIONS: MUZ-FX09NLHZ

MUZ-FX06NLHZ-U1
MUZ-FX09NLHZ-U1
MUZ-FX12NLHZ-U1



REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED 1/4"
	GAS REFRIGERANT PIPE	FLARED 3/8"

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