

MSZ-EX09NLW & SUZ-AA09NLHZ
9,000 BTU/H WALL-MOUNTED INDOOR UNIT
9,000 BTU/H HYPER HEAT PUMP OUTDOOR UNIT



Job Name:

System Reference:

Date:



Indoor Unit.....MSZ-EX09NLW

Outdoor Unit.....SUZ-AA09NLHZ



INDOOR UNIT FEATURES

- Dual Barrier Coating: The patented Dual Barrier Coating reduces the collection of contaminants like dust, fibers, smoke, and oil on the inner surface of the heat pump, resulting in optimal airflow and easier maintenance.
- Econo Cool: Econo Cool temporarily and automatically adjusts the airflow based on heat exchanger temperature. The set temperature is increased slightly, which saves energy, while maintaining comfort.
- Modern, sleek design
- Multiple control options including: Back-lit screen hand-held Remote Controller (provided with unit), comfort app, third-party interfaces and both wired and wireless controllers

OUTDOOR UNIT FEATURES

- Blue Fin Coating: 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.
- Built-in base pan heater
- Hot-Start Technology: Hot-Start Technology ensures the fan only activates once the heat exchanger is warm, preventing cold air blasts during start-up.
- Hyper-Heating INVERTER® (H2i®): 100% heating capacity down to 5° F with guaranteed heating down to -13° F.
- Joint Lap DC Motor: Innovative Joint Lap DC Motor leads to high efficiency and reliability
- Outdoor unit directed power: The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns
- Pulse Amplitude Modulation technology: Pulse Amplitude Modulation technology enhances energy efficiency by adjusting the power supply to optimize compressor performance, ensuring precise capacity control and reduced energy consumption.
- Quiet operation: Quiet operation units are as quiet as a typical conversation, and most indoor units are whisper quiet.

SPECIFICATIONS: MSZ-EX09NLW & SUZ-AA09NLHZ

Cooling at 95F ¹	Maximum Capacity	Btu/h	9,000
	Rated Capacity	Btu/h	9,000
	Minimum Capacity	Btu/h	4,800
	Maximum Power Input	W	710
	Rated Power Input	W	710
	Moisture Removal	Pints/h	0.3
	Sensible Heat Factor	-	0.96
Heating at 47F ²	Power Factor [208V / 230V]	%	91 / 91
	Maximum Capacity	Btu/h	15,000
	Rated Capacity	Btu/h	12,000
	Minimum Capacity	Btu/h	8,300
	Maximum Power Input	W	1,160
	Rated Power Input	W	900
	Power Factor [208V / 230V]	%	94 / 94
Heating at 17F ³	Maximum Capacity	Btu/h	12,000
	Rated Capacity	Btu/h	7,300
	Maximum Power Input	W	1,250
	Rated Power Input	W	860
Heating at 5F ⁴	Maximum Capacity	Btu/h	12,000
	Maximum Power Input	W	1,758
Heating at -13F ⁵	Maximum Capacity	Btu/h	7,300
Efficiency	SEER2		17.4
	EER2 ¹		12.6
	HSPF2 [IV]		10
	COP at 47°F ²		3.9
	COP at 17°F at Maximum Capacity ³		2.8
	COP at 5°F at Maximum Capacity ⁴		2
	COP at -13°F at Maximum Capacity ⁵		1.87
Electrical	ENERGY STAR® Certified		Yes
	Voltage, Phase, Frequency	V AC / V AC, , 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	25
Indoor Unit	Recommended Wire Size [Indoor - Outdoor]	AWG	14
	Fan Motor Output	W	30
	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, 448
	Sound Pressure Level [Cooling]	dB (A)	21, 23, 29, 36, 42
	Sound Pressure Level [Heating]	dB (A)	21, 24, 29, 37, 45
	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]
	Fan Motor Type		DC Motor
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	80 / 70

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.

SPECIFICATIONS: MSZ-EX09NLW & SUZ-AA09NLHZ

Outdoor Unit	MCA	A	24
	MOCP	A	41
	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]
ODU Operating Temp. Range	Unit Weight	lbs [kg]	115 [52.16]
	Package Weight	lbs [kg]	133 [60.33]
	Cooling Intake Maximum Air Temp [Maximum / Minimum*]	°FDB	115 / 14
	Cooling Thermal Lock-out / Re-start Temperatures**	°FDB	-1 / 3
	Heating Air Temp [Maximum / Minimum]	°FDB, °FWB / °FDB, °FWB	75, 65 / -13, -14
Refrigerant	Heating Thermal Lock-out / Re-start Temperatures**	°FDB	-22.5 / -14
	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.

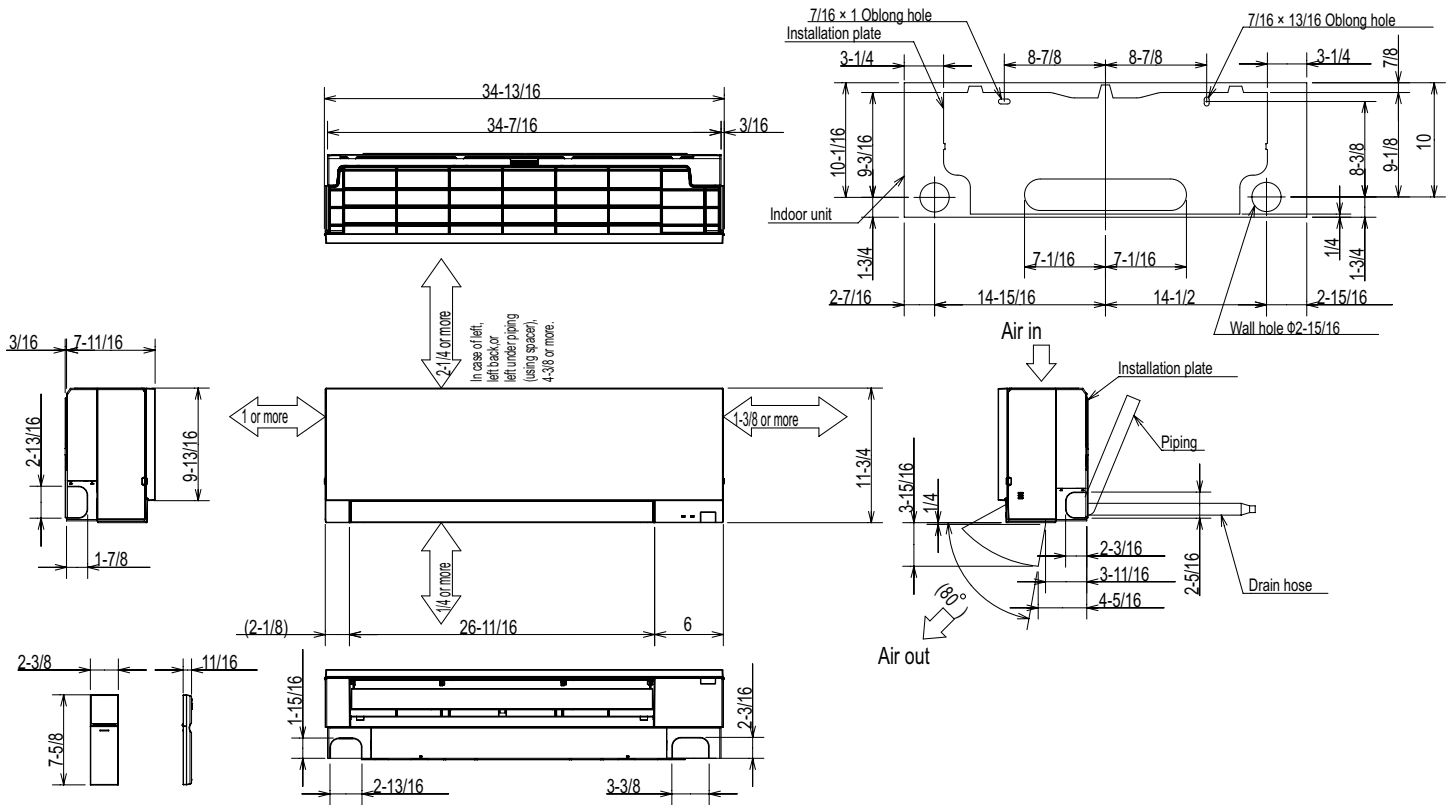
INDOOR UNIT ACCESSORIES: MSZ-EX09NLW

Control Interface	Airzone Wired Blueface Controller Black	AZZBSBLUEZEROCN
	Airzone Wired Blueface Controller White	AZZBSBLUEZEROCB
	Airzone Wireless Lite Controller Black	AZZBSLITERN
	Airzone Wireless Lite Controller White	AZZBSLITERB
	Airzone Wireless Think Controller Black	AZZBSTHINKRN
	Airzone Wireless Think Controller White	AZZBSTHINKRB
	IT Extender for kumo station	PAC-WHS01IE-E
	kumo station for the Comfort app	PAC-WHS01HC-E
	M-Net I/O Control Interface for M-Series ²	MAC-334IF-E
	Procon BACnet and Modbus Interface	PAC-UKPRC001-CN-1
	Thermostat Interface for 3rd Party Thermostats	PAC-US445CN-1
	Wireless Interface Adapter for the Comfort app	PAC-USWHS002-WF-2
Wired Remote Controller	Deluxe Wired MA Remote Controller ¹	PAR-42MAAUB
	Simple Direct Wired Remote Controller	PAC-SDW01RC-1
	Simple MA Remote Controller ¹	PAC-YT53CRAU-J
	Touch MA Wired Remote Controller ¹	PAR-CT01MAU-SB
Filter	Electro Static Anti-allergy Enzyme Filter	MAC-2320FT-E
	Microparticle Filter	MAC-EMF515FT-E
Condensate	Blue Diamond (Slim Fascia Kit) Condensate Pump w/ Reservoir & Sensor	X86-011
	Blue Diamond Advanced Mini Condensate Pump w Reservoir Sensor 208230V recommended	X87-721
	Blue Diamond MaxiBlue Advanced Mini Condensate Pump w Reservoir Sensor 110V up to 48000 BTUH recommended	X87-711
	Blue Diamond MegaBlue Advanced Condensate Pump w Reservoir Sensor	X87-835
	Blue Diamond MicroBlue Mini Condensate Pump 110208230V up to 18000 BTUH	X86-003
	Blue Diamond Sensor Extension Cable 15 Ft	C13-103
	Drain Pan Level SensorControl	SS610E
	Refco Condensate Pump 100-240 VAC	GOBI-II
	Refco Condensate Pump 100-240 VAC up to 120000 BTUH	COMBI
Lineset	Sauermann Condensate Pump	SI30-230
	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
	50 x 1/4 x 50 3/8 Lineset Twin-Tube Insulation	MLS143812T-50
Disconnect Switch	65 x 1/4 x 65 3/8 Lineset Twin-Tube Insulation	MLS143812T-65
	30A600VUL fits 2 X 4 utility box - Black	TAZ-MS303
Wireless Remote Controller	30A600VUL fits 2 X 4 utility box - White	TAZ-MS303W
	Lockdown Bracket for Wireless Handheld Remote Controllers	RCMKP1CB
Remote Sensor	RedLINK Wireless Remote Controller	MHK2
	Remote Temperature Sensor for MFZ MLZ and MSZ models	M21EAA307
Power Supplies and Auxiliary Components	Wireless temperature and humidity sensor for the Comfort app	PAC-USWHS003-TH-1
	Backup Heat Relay Kit Adapter for CN24 or CN152 Connector	CN24RELAY-KIT-CM3
Drain Hose	Flexible Mini-Split Drain Hose	DRX-16
NOTES ² Allows IDU Connection to MA Controller: Deluxe MA Remote Controller Simple MA Controller Touch MA Controller ¹ Requires MAC-334IF-E Adapter ¹ Requires MAC-334IF-E Adapter ¹ Requires MAC-334IF-E Adapter		

OUTDOOR UNIT ACCESSORIES: SUZ-AA09NLHZ

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 3-14 inch Mounting Base Pair - Plastic	DSD-400P
	Outdoor Unit Stand 12 High	QSMS1201M
Muffler	Muffler for Connection to SLZ	MAC-001MF-E
Mini-Split Wire	14 Gauge 4 wire Armored MiniSplit Cable250 ft roll	SW144-250
	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
Drain Socket	Drain Socket	MAC-871DS
Mounting Pad	Condensing Unit Mounting Pad 16 x 36 x 3	ULTRILITE1
Control/Service Tool	M- & P-Series Maintenance Tool Cable Set	M21EC0397
	Maintenance Tool Interface	PAC-USCMS-MN-1
Air Outlet Guide	Air Outlet Guide	MAC-886SG-E
Snow/Rain Diverter	SnowRain Diverter	SRD-3
NOTES		

INDOOR UNIT DIMENSIONS: MSZ-EX09NLW



MSZ-EX09/12NL

Piping	Insulation	Ø1-7/16 O.D
	Liquid line	Ø1/4 - 19-11/16 (Flared connection Ø1/4)
	Gas line	Ø3/8 - 16-15/16 (Flared connection Ø3/8)
Drain hose		Insulation Ø1-1/8 Connected part Ø5/8 O.D active length 15-3/8

Note: Extension pipe size refer to the specifications table.

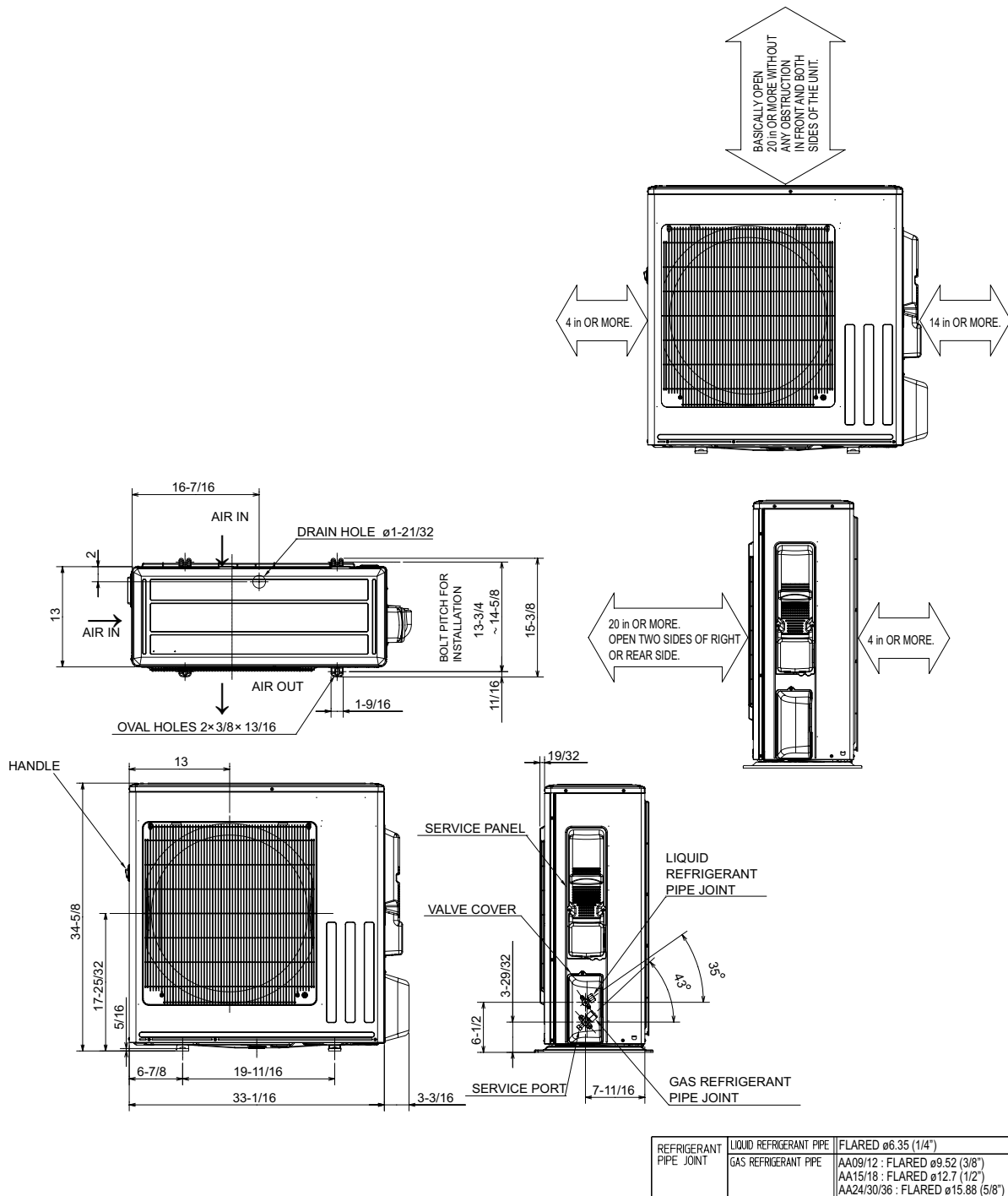
MSZ-EX15/18NL

Piping	Insulation	Ø1-7/16 O.D
	Liquid line	Ø1/4 - 19-11/16 (Flared connection Ø1/4)
	Gas line	Ø3/8 - 16-15/16 (Flared connection Ø1/2)
Drain hose		Insulation Ø1-1/8 Connected part Ø5/8 O.D active length 15-3/8

Note: Extension pipe size refer to the specifications table.

OUTDOOR UNIT DIMENSIONS: SUZ-AA09NLHZ

REQUIRED SPACE



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