

Job Name:		Location:	
Purchaser:		Submitted By:	
Submitted To:		Engineer:	
Date:		Application:	

Reference Approval Construction



Basic product info.

IDU Model Number	MSZ-FX12NL
ODU Model Number	MUZ-FX12NLHZ2
AHRI Certificate	216798016

Performance: Cooling at 95F (35C)

Cooling 95F Maximum Capacity	16100	Btu/h
Cooling 95F Rated Capacity	12000	Btu/h
Cooling 95F Minimum Capacity	2500	Btu/h
Cooling Maximum Power Input	1660	W
Cooling Rated Power Input	780	W
Cooling Minimum Power Input	160	W
Moisture removal at AHRI Cooling Rating Conditions	1.3	Pints/h
Sensible Heat Factor at AHRI Cooling Rating Conditions	0.88	-

Performance: Heating at 47F (8.3C)

Heating 47F Maximum Capacity	23000	Btu/h
Heating 47F Rated Capacity	13200	Btu/h
Heating 47F Maximum Power Input	2140	W
Heating 47F Rated Power Input	920	W
Heating 47F Minimum Power Input	180	W
COP 47F at Rated Condition	4.2	
Heating 47F Minimum Capacity	3100	Btu/h

Performance: Heating at 17F (-8.3C)

Heating 17F Maximum Capacity	18200	Btu/h
Heating 17F Rated Capacity	9300	Btu/h
Heating 17F Minimum Capacity	2080	Btu/h
Heating 17F Maximum Power Input	2140	W
Heating 17F Rated Power Input	800	W
Heating 17F Minimum Power Input	240	W
COP 17F at Maximum capacity	2.48	
COP 17F at Rated Condition	3.4	

Performance: Heating at 5F (-15C)

Heating 5F Rated Capacity (H4Full)	6270	Btu/h
Heating 5F Minimum Capacity (H4Full)	1850	Btu/h
Heating 5F Maximum Power Input (H4Full)	2140	W
Heating 5F Rated Power Input (H4Full)	520	W
Heating 5F Minimum Power Input (H4Full)	240	W
COP 5F at Maximum capacity (H4Full)	2.2	
Heating 5F Maximum Capacity (H4Full)	16200	Btu/h

Performance: Heating at -5F (-20.6C)

Heating -5F Minimum Capacity	1620	Btu/h
Heating -5F Maximum Power Input	2080	W
Heating -5F Minimum Power Input	230	W
COP -5F at Maximum Capacity	2.04	
Heating -5F Maximum Capacity	14500	Btu/h

Performance: Heating at -10F (-23.3C)

Heating -10F Maximum Capacity	13200	Btu/h
Heating -10F Minimum Capacity	1510	Btu/h
Heating -10F Maximum Power Input	1920	W
Heating -10F Minimum Power Input	220	W

Performance: Heating at -22F (-30C)

Heating -22F Maximum Capacity	8700	Btu/h
Heating -22F Maximum Power Input	1410	W
Heating -22F Minimum Power Input	160	W
COP -22F at Maximum Capacity	1.8	
Heating -22F Minimum Capacity	1000	Btu/h

ODU Operating Temp. Range

Cooling Thermal Re-start Temp	0	
Cooling Thermal Lock-out Temp	-4	
Heating Thermal Re-start Temp	-23	
Heating Thermal Lock-out Temp	-34	
Cooling Thermal Re-start Temp (C)	-17.8	C
Cooling Thermal Re-start Temp (F)	0 / -17.8	F° / C°
Cooling Thermal Lock-out Temp (C)	-20.1	C
Cooling Thermal Lock-out Temp (F)	-4 / -20	F° / C°
Heating Thermal Re-start Temp (C)	-30.3	C
Heating Thermal Re-start Temp (F)	-23 / -30.6	F° / C°
Heating Thermal Lock-out Temp (C)	-36.7	C
Heating Thermal Lock-out Temp (F)	-34 / -36.7	F° / C°

Rebates

Energy Star 6.1 Certified	Yes	
Energy Star 6.1 Cold Climate Certified	Yes	
NEEP Certification	Yes	

Efficiency

SEER2	29.9	
EER2	15.4	
HSPF2 (IV)	12.4	
HSPF2 (V)	12	

Electrical

Phase	1	
Short-circuit Current Rating (SCCR)	5	kA
Recommended Fuse/Breaker Size	15	
ODU Minimum Circuit Ampacity (MCA)	14	A
ODU Maximum Over Current Protection (MOCP) = MOP = Maximum Fuse	24	A
IDU Minimum Circuit Ampacity (MCA) if Powered Separate	1	A
Rated Voltage (Max)	230	V AC
Rated Voltage (Min)	208	V AC

Indoor Unit

IDU Airflow Rate at Cooling, Dry 1	198	CFM
IDU Airflow Rate at Cooling, Dry 2	247	CFM
IDU Airflow Rate at Cooling, Dry 3	311	CFM
IDU Airflow Rate at Cooling, Dry 4	406	CFM
IDU Airflow Rate at Cooling, Dry 5	526	CFM
IDU Airflow Rate at Cooling, Wet 1	168	CFM
IDU Airflow Rate at Cooling, Wet 3	264	CFM
IDU Airflow Rate at Cooling, Wet 4	345	CFM
IDU Airflow Rate at Cooling, Wet 5	447	CFM
IDU Airflow Rate at Heating 1	177	CFM
IDU Airflow Rate at Heating 2	247	CFM
IDU Airflow Rate at Heating 3	311	CFM
IDU Airflow Rate at Heating 4	406	CFM
IDU Airflow Rate at Heating 5	477	CFM
IDU SPL at Cooling 4	36	dB (A)
IDU SPL at Heating 5	42	dB (A)
External Finish (Munsell No. in case painting)	Munsell 1.0Y 9.2/0.2	
IDU Unit Dimension W	39 5/16	inch
IDU Unit Dimension D	9 3/4	inch
IDU Unit Dimension H	12	inch
IDU Unit Weight	31.4	lbs
Drain Pipe Size (Outer size)	10/16	inch
IDU Airflow Rate at Cooling, Wet 2	210	CFM

Outdoor Unit

ODU Fan Motor Full Load Amperage (FLA) (if data available)	0.76	A
ODU Fan Motor Output	0.1	HP
Base Pan Heater installed (Built-in or Optional)	Built-in	
ODU Unit Dimension W	31 8/16	inch
ODU Unit Dimension D	11 4/16	inch
ODU Unit Dimension H	28 2/16	inch
ODU Unit Weight	88.5	lbs

Piping

Liquid Pipe Size O.D. [Flared]	1/4	inch
Maximum Piping Length	65	ft
Maximum Height Difference	40	ft
Gas Pipe Size O.D. [Flared]	3/8	inch

Refrigerant

Refrigerant Type	R454B	
Pre-charged Refrigerant Amount	12	oz
Maximum Pre-charged Piping Length	25	ft
Pre-charged Refrigerant Amount (kg)	1.25	
Pre-charged Refrigerant Amount (lbs)	2	
Pre-charged Refrigerant Amount (oz)	12	

Accessories

Handheld Remote Controller English	MAC-FL110M-E	
Handheld Remote Controller French	MAC-FL210M-E	
Wall Mount controller	PAR-42MAACAB (REQUIRES SYSTEM INTERFACE)	
Simple Wall MA Controller	PAC-YT53CRAU-J	
Simple CN105 Controller	PAC-SDW01	
Deodorizing Filter	MAC-3010FT-E	
Microparticle Catching Filter	MAC-EMF515T-E	
Electrostatic Anti-allergy Enzyme Filter	MAC-2310FT-E	
System Interface (Full Control)	MAC-334IF-E	
System Interface (Functional Control)	MAC-497IF-E	
NA T-STAT interface	RMF-CA200	
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AHRI Rated Conditions (Rated data is determined at a fixed compressor speed) (* Windscreens required for cooling operations below 23°F (-5°C))

¹ Cooling (Indoor // Outdoor) 80°F (26.6°C) DB, 67°F (19.4°C) WB // 95°F (35°C) DB, 75°F (23.9°C) WB

² Heating at 47°F (8.3°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // 47°F (8.3°C) DB, 43°F (6.1°C) WB

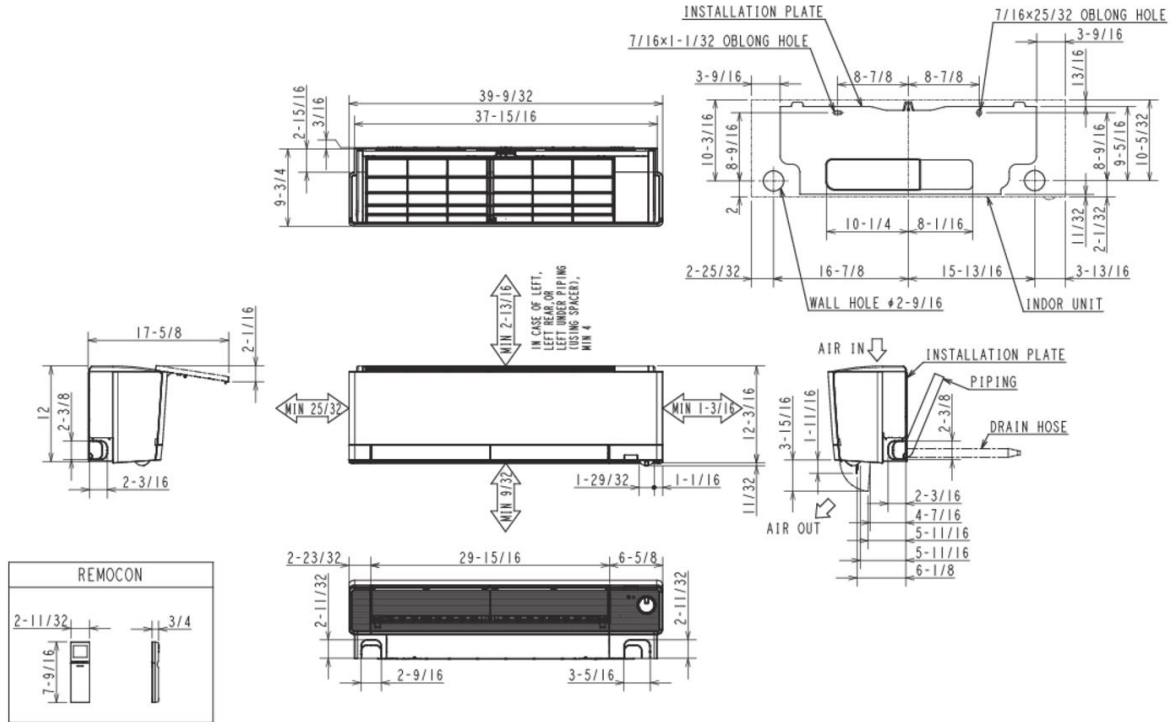
³ Heating at 17°F (-8.3°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // 17°F (-8.3°C) DB, 15°F (-9.4°C) WB

tHeating at 5°F (-15°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // 5°F (-15°C) DB, 4°F (-15.6°C) WB

uHeating at -4°F (-20°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // -4°F (-20°C) DB, -15°F (-26.1°C) WB

MSZ-FX12NL

Unit: inch



MSZ-FX06/09/12NL

PIPING	INSULATION	ø 1-9/16 O.D
	LIQUID LINE	ø 1/4 - 19-11/16 (FLARED CONNECTION ø 1/4)
	GAS LINE	ø 3/8 - 17-3/4 (FLARED CONNECTION ø 3/8)
DRAIN HOSE	INSULATION	ø 1-5/32
	CONNECTED PART	ø 5/8 O.D

MSZ-FX24NL

PIPING	INSULATION	ø 1-9/16 O.D
	LIQUID LINE	ø 1/4 - 19-11/16 (FLARED CONNECTION ø 1/4)
	GAS LINE	ø 15/32 - 17-3/4* (FLARED CONNECTION ø 5/8)
DRAIN HOSE	INSULATION	ø 1-5/32
	CONNECTED PART	ø 5/8 O.D

MSZ-FX15/18NL

PIPING	INSULATION	ø 1-9/16 O.D
	LIQUID LINE	ø 1/4 - 19-11/16 (FLARED CONNECTION ø 1/4)
	GAS LINE	ø 3/8 - 17-3/4 (FLARED CONNECTION ø 1/2)
DRAIN HOSE	INSULATION	ø 1-5/32
	CONNECTED PART	ø 5/8 O.D

*The diameter of the gas line piping is ø 3/8 in one spot.

MUZ-FX12NLHZ2

Unit: inch

