

Job Name:	
Purchaser:	
Submitted To:	
Date:	

Location:	
Submitted By:	
Engineer:	
Application:	

Reference Approval Construction



Basic product info.

IDU Model Number	MSZ-FX09NL
ODU Model Number	MUZ-FX09NLHZ2
AHRI Certificate	216798015

Performance: Cooling at 95F (35C)

Cooling 95F Rated Capacity	9000	Btu/h
Cooling 95F Minimum Capacity	2500	Btu/h
Cooling Maximum Power Input	1580	W
Cooling Rated Power Input	490	W
Cooling Minimum Power Input	160	W
Moisture removal at AHRI Cooling Rating Conditions	0	Pints/h
Sensible Heat Factor at AHRI Cooling Rating Conditions	1	-
Cooling 95F Maximum Capacity	15000	Btu/h

Performance: Heating at 47F (8.3C)

Heating 47F Maximum Capacity	21000	Btu/h
Heating 47F Rated Capacity	12000	Btu/h
Heating 47F Maximum Power Input	2130	W
Heating 47F Rated Power Input	710	W
COP 47F at Rated Condition	4.94	
Heating 47F Minimum Power Input	180	W
Heating 47F Minimum Capacity	3100	Btu/h

Performance: Heating at 17F (-8.3C)

Heating 17F Maximum Capacity	16300	Btu/h
Heating 17F Rated Capacity	7700	Btu/h
Heating 17F Minimum Capacity	2000	Btu/h
Heating 17F Maximum Power Input	2000	W
Heating 17F Rated Power Input	650	W
Heating 17F Minimum Power Input	240	W
COP 17F at Maximum capacity	2.38	
COP 17F at Rated Condition	3.46	

Performance: Heating at 5F (-15C)

Heating 5F Maximum Capacity (H4Full)	14700	Btu/h
Heating 5F Rated Capacity (H4Full)	5700	Btu/h
Heating 5F Minimum Capacity (H4Full)	1800	Btu/h
Heating 5F Maximum Power Input (H4Full)	1950	W
Heating 5F Rated Power Input (H4Full)	400	W
Heating 5F Minimum Power Input (H4Full)	240	W
COP 5F at Maximum capacity (H4Full)	2.2	

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

Heating -5F Maximum Capacity	14500	Btu/h
Heating -5F Minimum Capacity	1580	Btu/h
Heating -5F Maximum Power Input	2080	W
Heating -5F Minimum Power Input	220	W
COP -5F at Maximum Capacity	2.04	

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

Heating -10F Maximum Capacity	12000	Btu/h
Heating -10F Minimum Capacity	1470	Btu/h
Heating -10F Maximum Power Input	1750	W
Heating -10F Minimum Power Input	210	W

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

Heating -22F Maximum Capacity	8700	Btu/h
Heating -22F Minimum Capacity	980	Btu/h
Heating -22F Maximum Power Input	1410	W
Heating -22F Minimum Power Input	150	W
COP -22F at Maximum Capacity	1.8	

ODU Operating Temp. Range

Heating Thermal Lock-out Temp	-34	
Cooling Thermal Re-start Temp	0	
Cooling Thermal Lock-out Temp	-4	
Heating Thermal Re-start Temp	-23	
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	33.1	
EER2	18.35	
HSPF2 (IV)	13.3	
HSPF2 (V)	12.1	

Electrical

Rated Voltage (Min)	208	V AC
Rated Voltage (Max)	230	V AC
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

Indoor Unit

IDU Airflow Rate at Cooling, Dry 1	198	CFM
IDU Airflow Rate at Cooling, Dry 2	233	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 2	198	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 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 1	168	CFM
IDU Airflow Rate at Heating 5	477	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

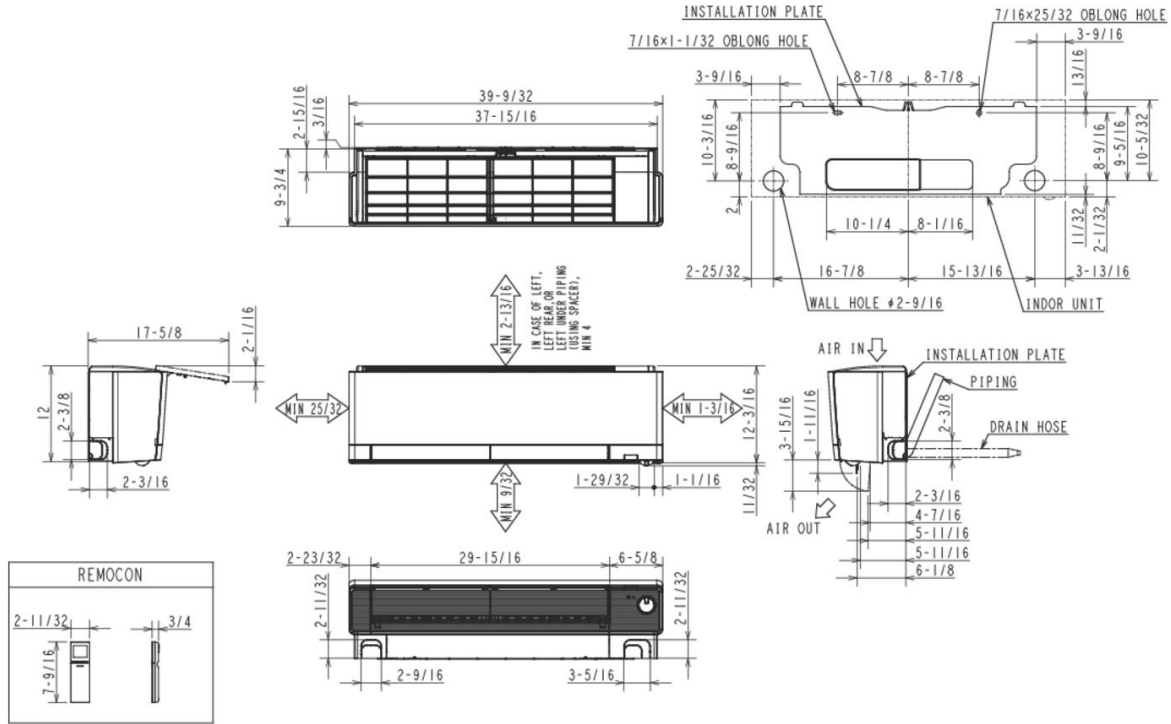
Handheld Remote Controller English	MAC-FL110M-E	
Handheld Remote Controller French	MAC-FL210M-E	
Simple Wall MA Controller	PAC-YT53CRAU-J	
Simple CN105 Controller	PAC-SDW01	
Deodorizing Filter	MAC-3010FT-E	
Microparticle Catching Filter	MAC-EMF515T-E	
Electrostatic Anti-allergy Enzyme Filter	MAC-2310FT-E	
System Interface (Full Control)	MAC-334IF-E	
System Interface (Functional Control)	MAC-497IF-E	
NA T-STAT interface	RMF-CA200	
Wall Mount controller	PAR-42MAACAB (REQUIRES SYSTEM INTERFACE)	
NA T-STAT Interface	RMF-CA200	

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-FX09NL

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-FX09NLHZ2

Unit: inch

