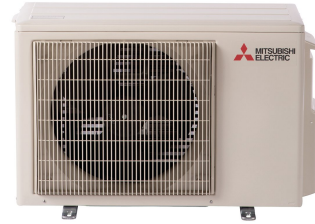


Job Name:	
Purchaser:	
Submitted To:	
Date:	

Location:	
Submitted By:	
Engineer:	
Application:	

Reference Approval Construction



Basic product info.

IDU Model Number	MSZ-HX09NL
ODU Model Number	MUZ-HX09NLH2
AHRI Certificate	216801493

Performance: Cooling at 95F (35C)

Cooling 95F Minimum Capacity	3600	Btu/h
Cooling Maximum Power Input	1100	W
Cooling Rated Power Input	720	W
Cooling Minimum Power Input	240	W
Moisture removal at AHRI Cooling Rating Conditions	1.6	Pints/h
Sensible Heat Factor at AHRI Cooling Rating Conditions	0.8	-
Cooling 95F Rated Capacity	9000	Btu/h
Cooling 95F Maximum Capacity	11000	Btu/h

Performance: Heating at 47F (8.3C)

Heating 47F Maximum Capacity	11200	Btu/h
Heating 47F Rated Capacity	10900	Btu/h
Heating 47F Minimum Capacity	4000	Btu/h
Heating 47F Maximum Power Input	1400	W
Heating 47F Rated Power Input	900	W
Heating 47F Minimum Power Input	280	W
COP 47F at Maximum Capacity	2.34	
COP 47F at Rated Condition	3.54	

Performance: Heating at 17F (-8.3C)

Heating 17F Maximum Capacity	7200	Btu/h
Heating 17F Rated Capacity	6800	Btu/h
Heating 17F Minimum Capacity	1880	Btu/h
Heating 17F Maximum Power Input	1230	W
Heating 17F Rated Power Input	820	W
Heating 17F Minimum Power Input	320	W
COP 17F at Maximum capacity	1.7	
COP 17F at Rated Condition	2.42	

Performance: Heating at 5F (-15C)

Heating 5F Maximum Capacity (H4Full)	7700	Btu/h
Heating 5F Rated Capacity (H4Full)	5180	Btu/h
Heating 5F Maximum Power Input (H4Full)	1250	W
Heating 5F Rated Power Input (H4Full)	510	W
Heating 5F Minimum Power Input (H4Full)	330	W
COP 5F at Maximum capacity (H4Full)	1.8	
COP 5F at Rated capacity (H4Full)	2.96	
Heating 5F Minimum Capacity (H4Full)	2010	Btu/h

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

Heating -5F Maximum Capacity	6420	Btu/h
Heating -5F Minimum Power Input	330	W
COP -5F at Maximum Capacity	1.48	
Heating -5F Maximum Power Input	1260	W
Heating -5F Minimum Capacity	1680	Btu/h

ODU Operating Temp. Range

Cooling Thermal Re-start Temp	3	
Cooling Thermal Lock-out Temp	-1	
Heating Thermal Re-start Temp	-4	
Heating Thermal Lock-out Temp	-14	
Cooling Thermal Re-start Temp (F)	3 / -16.1	F° / C°
Cooling Thermal Lock-out Temp (F)	-1 / -18.3	F° / C°
Heating Thermal Re-start Temp (C)	-20.1	C
Heating Thermal Re-start Temp (F)	-4 / -20	F° / C°
Heating Thermal Lock-out Temp (C)	-25.6	C
Heating Thermal Lock-out Temp (F)	-14 / -25.6	F° / C°
Cooling Thermal Re-start Temp (C)	-16.3	C
Cooling Thermal Lock-out Temp (C)	-18.5	C

Rebates

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

Efficiency

SEER2	20	
EER2	12.5	
HSPF2 (IV)	10	
HSPF2 (V)	9.7	

Electrical

Rated Voltage (Min)	208	V AC
Rated Voltage (Max)	230	V AC
Recommended Fuse/Breaker Size	15	
ODU Minimum Circuit Ampacity (MCA)	10	A
ODU Maximum Over Current Protection (MOCP) = MOP = Maximum Fuse	17	A
IDU Minimum Circuit Ampacity (MCA) if Powered Separate	1	A

Indoor Unit

IDU Airflow Rate at Cooling, Dry 1	144	CFM
IDU Airflow Rate at Cooling, Dry 2	211	CFM
IDU Airflow Rate at Cooling, Dry 3	296	CFM
IDU Airflow Rate at Cooling, Dry 4	379	CFM
IDU Airflow Rate at Cooling, Wet 1	129	CFM
IDU Airflow Rate at Cooling, Wet 2	190	CFM
IDU Airflow Rate at Cooling, Wet 3	267	CFM
IDU Airflow Rate at Cooling, Wet 4	342	CFM
IDU Airflow Rate at Heating 2	221	CFM
IDU Airflow Rate at Heating 3	317	CFM
IDU Airflow Rate at Heating 4	390	CFM
IDU SPL at Cooling 4	43	dB (A)
External Finish (Munsell No. in case painting)	Munsell 0.7PB 9.2/0.4	
IDU Unit Dimension W	33	inch
IDU Unit Dimension D	9 4/16	inch
IDU Unit Dimension H	11 1/16	inch
IDU Unit Weight	20	lbs
IDU Airflow Rate at Heating 1	144	CFM
Drain Pipe Size (Outer size)	11/16	inch

Outdoor Unit

ODU Fan Motor Full Load Amperage (FLA) (if data available)	0.71	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	21 5/8	inch
ODU Unit Weight	65	lbs

Piping

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

Refrigerant

Refrigerant Type	R454B	
Maximum Pre-charged Piping Length	25	ft
Pre-charged Refrigerant Amount (kg)	0.63	
Pre-charged Refrigerant Amount (lbs)	1.4	
Pre-charged Refrigerant Amount (oz)	22.2	

Accessories

Handheld Remote Controller English	MAC-FL115M-E	
Handheld Remote Controller French	MAC-FL215M-E	
Wall Mount controller	PAR-42MAACAB (REQUIRES SYSTEM INTERFACE)	
Simple Wall MA Controller	PAC-YT53CRAU-J	
Simple CN105 Controller	PAC-SDW01	
Microparticle Catching Filter	MAC-EMF515T-E	
Electrostatic Anti-allergy Enzyme Filter	MAC-2320FT	
System Interface (Full Control)	MAC-334IF-E	
System Interface (Functional Control)	MAC-497IF-E	
NA T-STAT interface	RMF-CA200	
Wi-Fi Adapter	PAC-USWHS002	
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

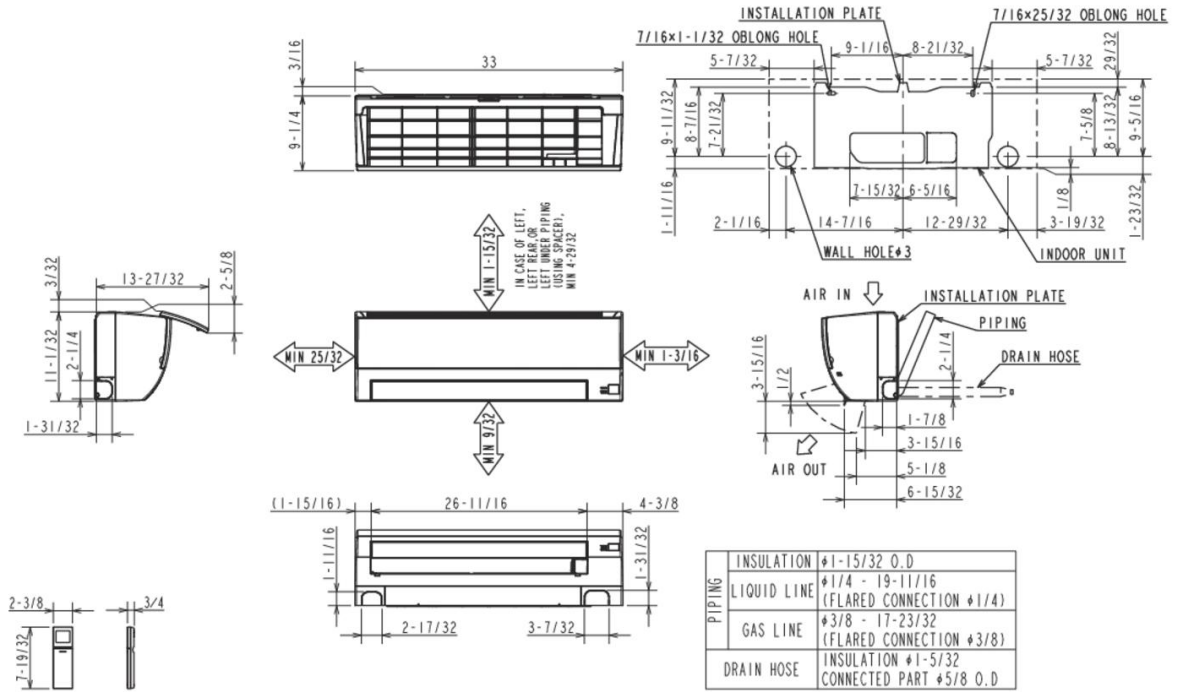
³ Heating at 17°F (-8.3°C) (Indoor // Outdoor) 70°F (21.1°C) DB, 60°F (15.6°C) WB // 17°F (-8.3°C) DB, 15°F (-9.4°C) WB

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-HX09NL

Unit: inch

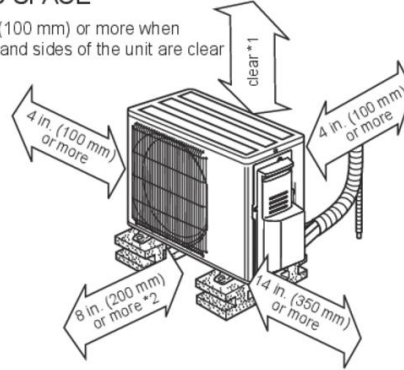


MUZ-HX09NLH2

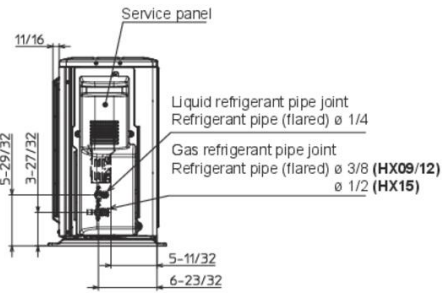
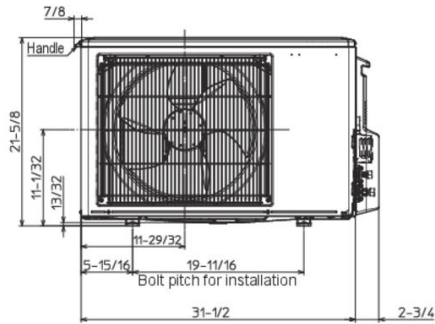
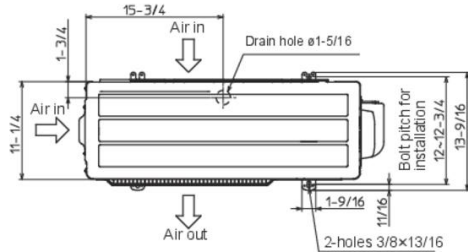
Unit: inch

REQUIRED SPACE

*1 4 in. (100 mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear



REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED 1/4"
	GAS REFRIGERANT PIPE	FLARED 3/8" (HX09/12) 1/2" (HX15)