MSZ-D LARGE WALL-MOUNT AIR SYSTEMS

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1. INDOOR UNITS

- MSZ-D30NA-8
- MSZ-D36NA-8

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2. OUTDOOR UNITS

- MUZ-D30NA-1
- MUZ-D36NA-1

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3. SYSTEM

- Wall-mounted indoor unit for residential application
- Standard Hybrid Catechin Prefilter and anti-allergy enzyme filter for high air-purification abilities
- Updated sleek, compact indoor unit design
- Remote-controlled wide airflow enables ideal horizontal air distribution
- Self-check function -- onboard diagnostics
- Advanced microprocessor control
- Auto restart following a power outage
- Hand-held Wireless Remote Controller
- Anti-allergy Enzyme Filter
- Limited warranty: five years parts and seven years compressor

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MSZ-D30NA-8 MSZ-D36NA-8

Model name			MSZ-D30NA-8	MSZ-D36NA-8
Power supply	V, phase, Hz		208/230 , 1 , 60	
Capacity Rated (Minimum ~ Maximum)	Cooling ❄1	Btu/h	30,700 (9,800 ~ 30,700)	32,000/33,200 (9,800 ~ 32,000) / (9,800 ~ 33,200)
	Heating 47 ❄1		32,600 (8,700 ~ 34,000)	35,200 (8,700 ~ 36,000)
Capacity	Heating 17 ❄2	Btu/h	20,800	22,800
Power consumption Rated (Minimum ~ Maximum) (TOTAL)	Cooling ❄1	W	3,850 (620 ~ 3,850)	4,140/4,360 (620 ~ 4,140) / (620 ~ 4,360)
	Heating 47 ❄1		3,360 (520 ~ 3,600)	3,840 (520 ~ 4,100)
Power consumption	Heating 17 ❄2	W	2,620	3,000
EER ❄1 [SEER] ❄3	Cooling		8.0 [14.5]	7.7/7.6[14.5]
HSPF IV(V) ❄4	Heating		8.2 (6.7)	8.2 (6.7)
COP	Heating ❄1		2.84	2.69
Max. fuse size (time delay)/ Disconnect switch		A	15	
Min. circuit ampacity		A	1.0	
Fan Motor (ECM)		F.L.A	0.76	
Airflow Low - Med. - High - Powerful	COOL Dry (Wet)	CFM	389 - 639 - 848 - 887 (350 - 576 -763 - 798)	
	HEAT Dry		445 - 639 - 848 - 887	445 - 639 - 848 - 887
Moisture removal		pt./h	9.9	11.9
Sensible Heat Factor			0.64	0.62
Sound level Low - Med. - High - Powerful	Cooling	dB(A)	32 - 42 - 49 -51	
	Heating		34 - 42 - 49 - 50	34 - 42 - 49 - 50
Cond. drain connection O.D.		in.	5/8	
Dimensions	W	in.	46-1/16	
	D		11-5/8	
	H		14-3/8	
Weight		lb.	40	
External finish			Munsell 1.0Y 9.2/0.2	
Remote controller			Wireless type	
Control voltage (by built-in transformer)			12-24 VDC	

NOTE : Test conditions are based on ARI 210/240.

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3-1. SPECIFICATIONS

MUZ-D30NA-1 MUZ-D36NA-1

Item	Model name		MSZ-D30NA-8	MSZ-D36NA-8
Outdoor unit model			MUZ-D30NA-1	MUZ-D36NA-1
Power supply	V , phase , Hz		208/230 , 1 , 60	
Max. fuse size (time delay)		A	25	
Min. circuit ampacity		A	21	
Fan Motor (ECM)		F.L.A	0.93	
Compressor	Model		TNB220FMCHT	
		R.L.A	16	
		L.R.A	20	
	Refrigeration oil	cc	870 (NEO22)	
Refrigerant control			Linear expansion valve	
Sound level ❊1	Cooling	dB(A)	55	56
	Heating		57	57
Defrost method			Reverse cycle	Reverse cycle
Dimensions	W	in.	33-1/16	
	D		13	
	H		33-7/16	
Weight		lb.	141	141
External finish			Munsell 3Y 7.8/1.1	
Remote controller			Wireless type	
Control voltage (by built-in transformer)			12 - 24 VDC	
Refrigerant piping			Not supplied	
Refrigerant pipe size (Min. wall thickness)	Liquid	in.	3/8 (0.0315)	
	Gas		5/8 (0.0394)	
Connection method	Indoor		Flared	
	Outdoor			
Between the indoor & outdoor units	Height difference	ft.	50	
	Piping length		100	
Refrigerant charge (R410A)			4 lb.	4 lb.

NOTE: Test conditions are based on ARI 210/240.

❊1: Rating conditions (Cooling) — Indoor: 80˚FDB, 67˚FWB, Outdoor: 95˚FDB, (75˚FWB) Rated frequency
(Heating) — Indoor: 70˚FDB, 60˚FWB, Outdoor: 47˚FDB, 43˚FWB Rated frequency

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Efficiency Ratings

Outdoor Unit	Indoor Unit	SEER	EER	HSPF	COP @ 47° F	COP @ 17° F
WALL-MOUNT HEAT PUMP						
MUZ-D30NA-1	MSZ-D30NA-8	14.5	8	8.2	2.84	2.33
MUZ-D36NA-1	MSZ-D36NA-8	14.5	7.6	8.2	2.69	2.23
Note:	Efficiency values based on AHRI 210/240 test method.					

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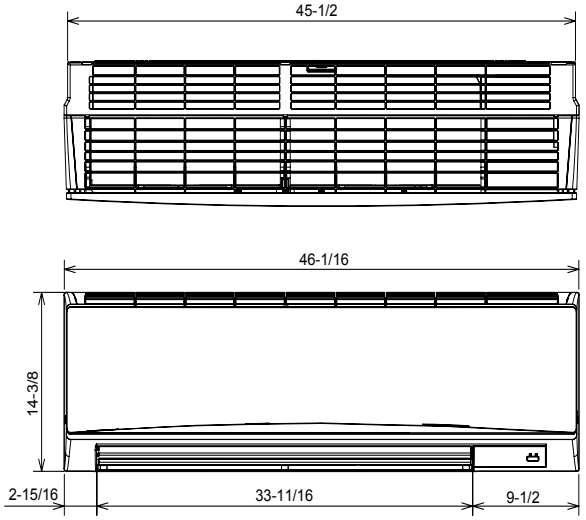
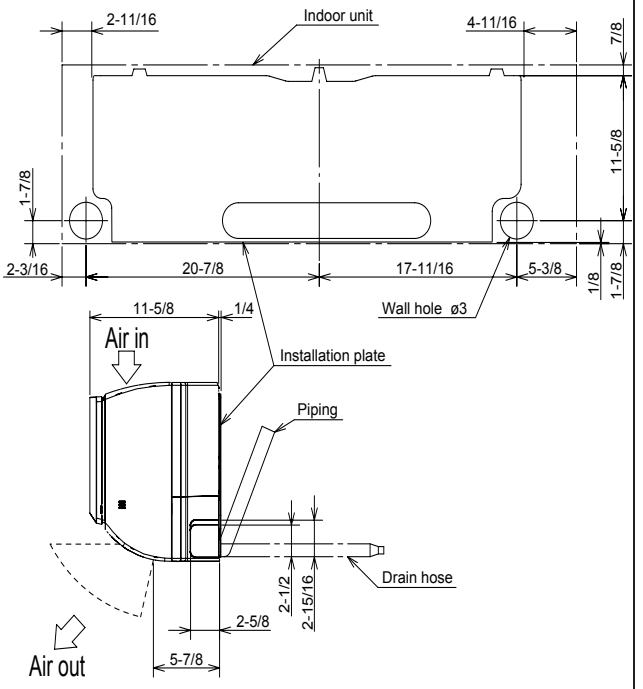
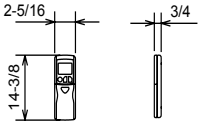
3-2. EXTERNAL DIMENSIONS

Unit: inch

MSZ-D30NA-8 MSZ-D36NA-8

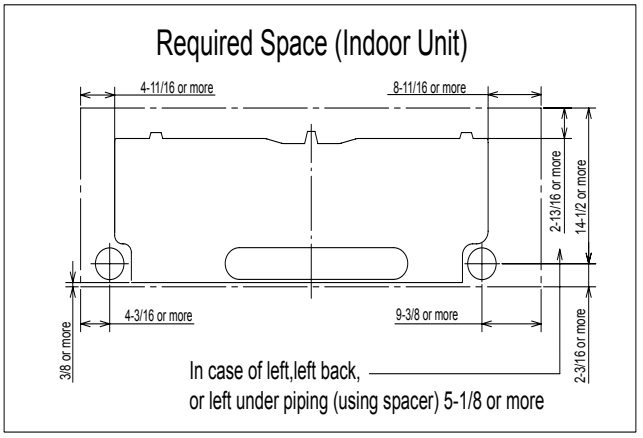






Wireless remote controller

	Piping	Insulation
Liquid line	ø3/8 19-11/16 (Flared connection ø3/8)	ø1-1/4 O.D ø9/16 I.D
Gas line	ø5/8 16-7/8 (Joint connection ø5/8)	ø1-15/16 O.D ø1-1/4 I.D
Joint	ø5/8 (Flared connection ø5/8)	ø1-15/16 O.D ø1-1/4 I.D
Drain hose	Inslation ø1-1/8 Connected part ø9/16 O.D	



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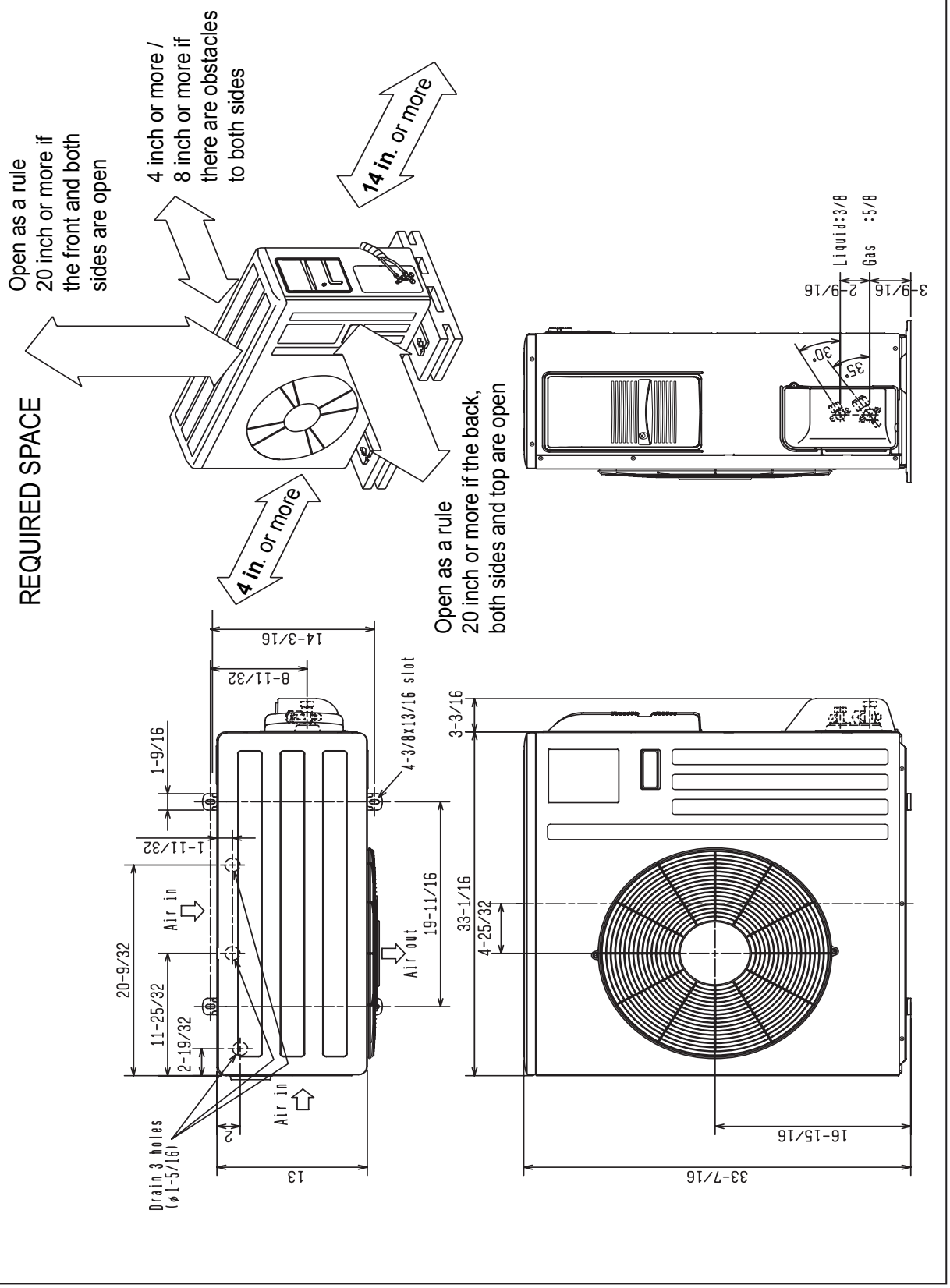
3-2. EXTERNAL DIMENSIONS

MUZ-D30NA-1 MUZ-D36NA-1

Unit: inch



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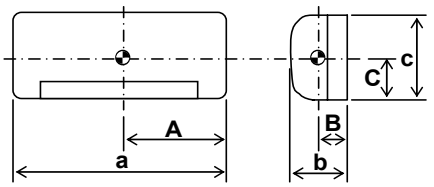
3-3. CENTER OF GRAVITY

MSZ-D30NA-8 MSZ-D36NA-8

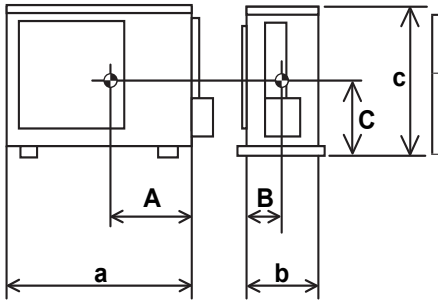
Unit: inch(mm)



Model name	A	B	C	a	b	c
MSZ-D30NA-8 MSZ-D36NA-8	18-1/8 (460)	7-1/2 (190)	7-1/2 (190)	46-1/16 (1170)	11-5/8 (295)	14-3/8 (365)

MUZ-D30NA-1 MUZ-D36NA-1

Unit: inch(mm)



Model name	A	B	C	a	b	c
MUZ-D30NA-1 MUZ-D36NA-1	11-13/16 (300)	5-7/8 (150)	13-3/8 (340)	33-1/16 (840)	13 (330)	33-7/16 (850)

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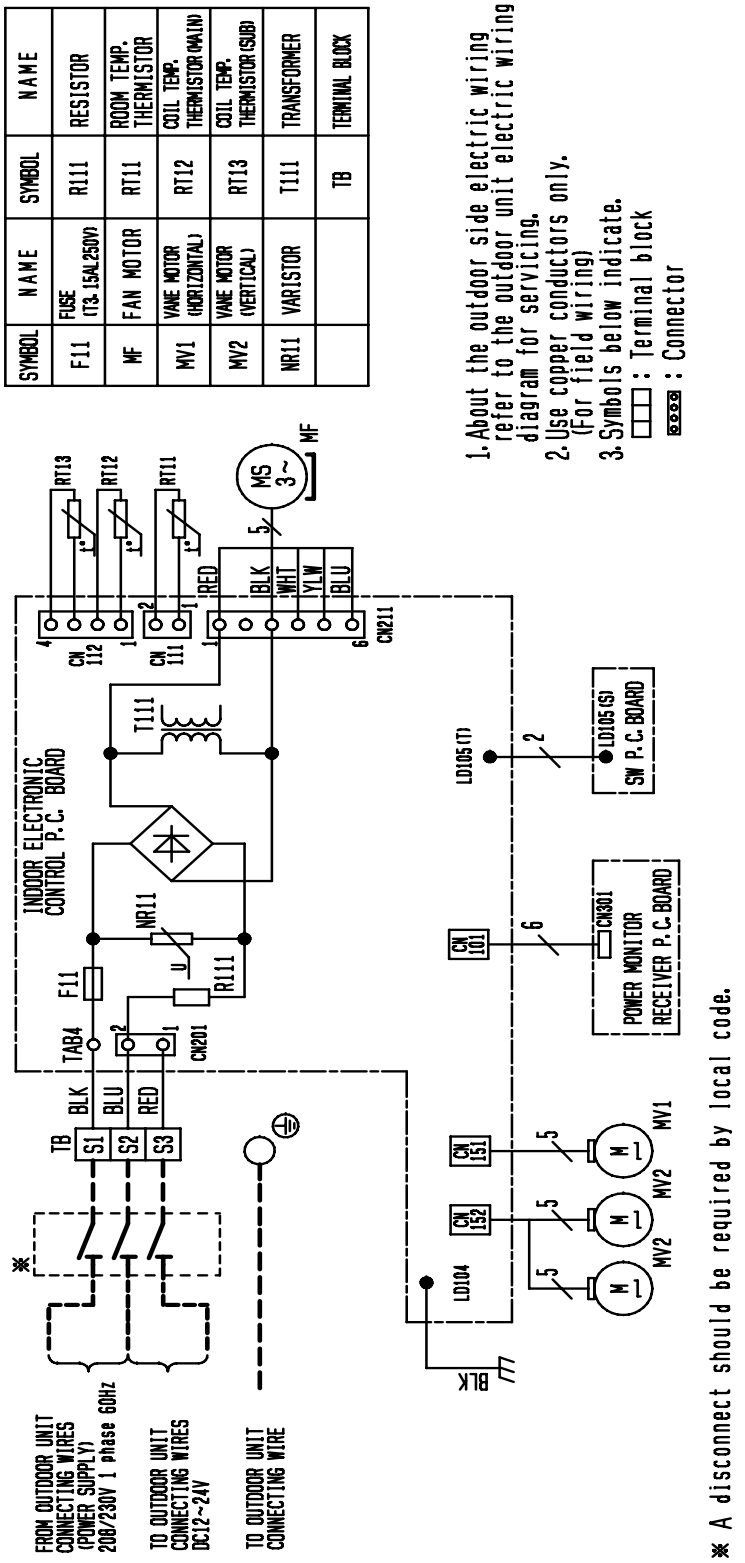
MSZ-D30NA-8 MSZ-D36NA-8



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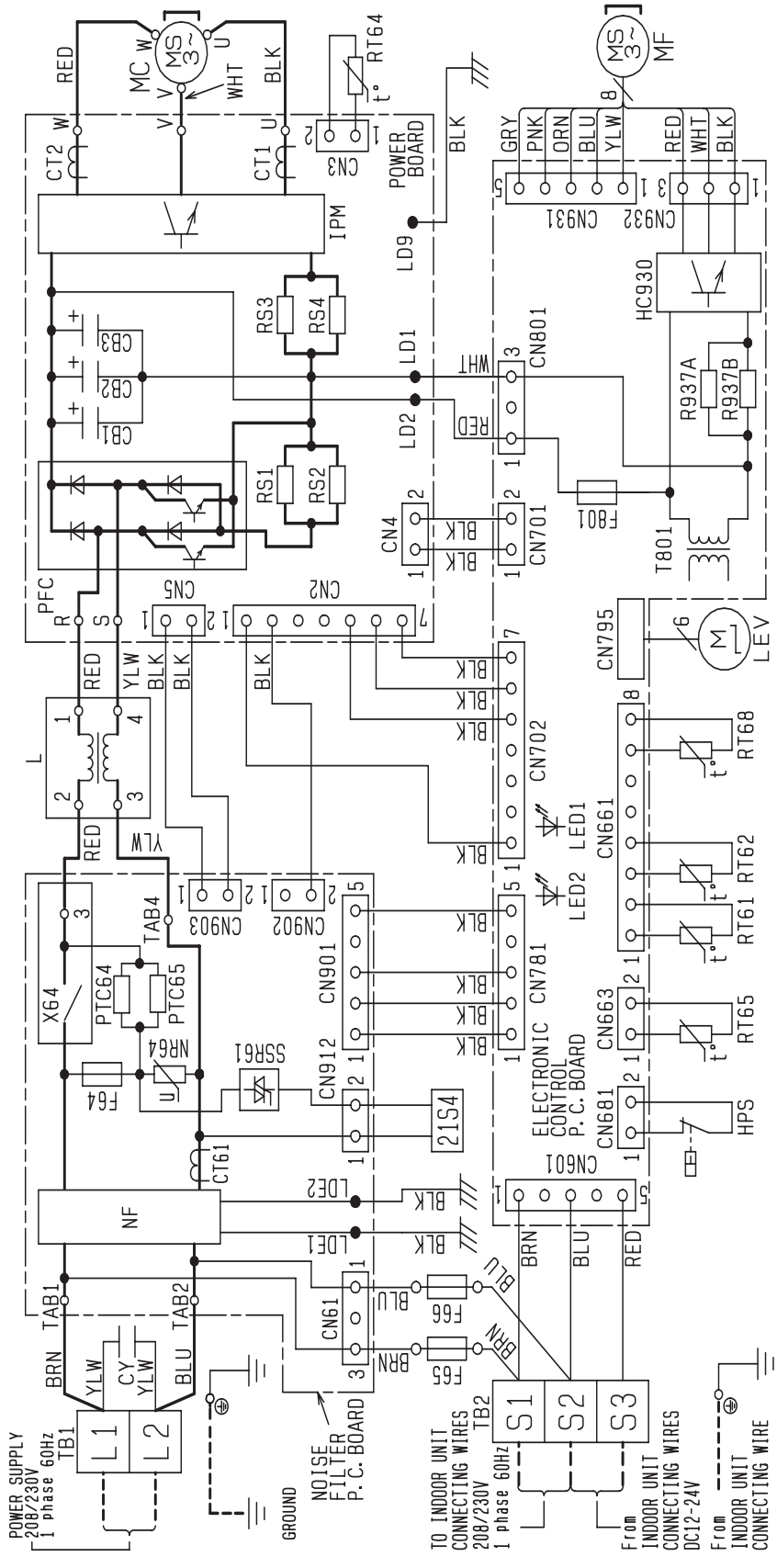
3-4. ELECTRICAL WIRING DIAGRAMS

MUZ-D30NA-1 MUZ-D36NA-1



SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR
CT1, 2	CURRENT TRANSFORMER
CT61	CURRENT TRANSFORMER
CY	CAPACITOR
F64	FUSE(T2AL250V)
F65, F66	FUSE(T6.3AL250V)
F801	FUSE(T3.15AL250V)
HC930	INTELLIGENT POWER MODULE
HPS	HIGH PRESSURE SWITCH
IPM	INTELLIGENT POWER MODULE

SYMBOL	NAME
L	REACTOR
LEV	EXPANSION VALVE
MC	COMPRESSOR
MF	FAN MOTOR
NF	NOISE FILTER
NR64	VARISTOR
PFC	POWER FACTOR CONTROLLER
RS1~4	RESISTOR
RT61	DEFROST THERMISTOR
RT62	DISCHARGE TEMP. THERMISTOR

SYMBOL	NAME
RT64	FIN TEMP. THERMISTOR
RT65	AMBIENT TEMP. THERMISTOR
RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
PTC64, 65	RESISTOR
R937A, B	RESISTOR
SSR61	SOLENOID COIL RELAY
TB1, 2	TERMINAL BLOCK
T801	SWITCHING TRANSFORMER
X64	RELAY
21S4	REVERSING VALVE SOLENOID COIL

NOTES 1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2. Use copper conductors only(for field wiring).
3. Symbols below indicate.
□□□ : Terminal block

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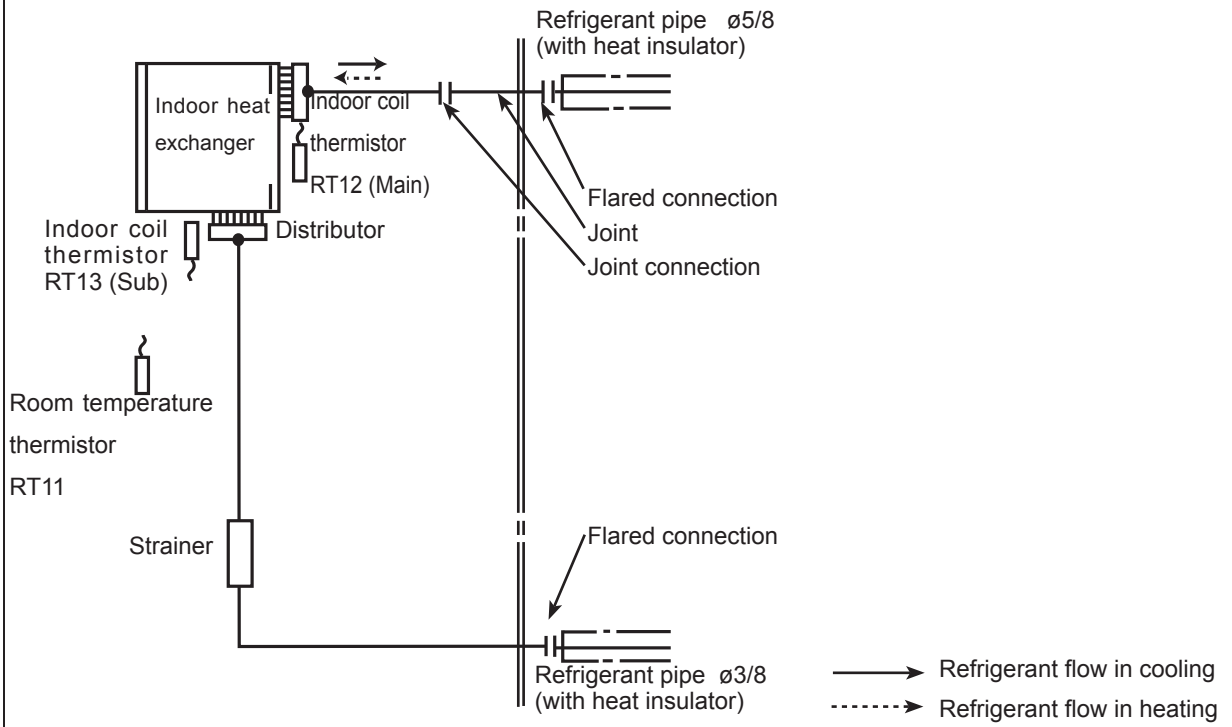
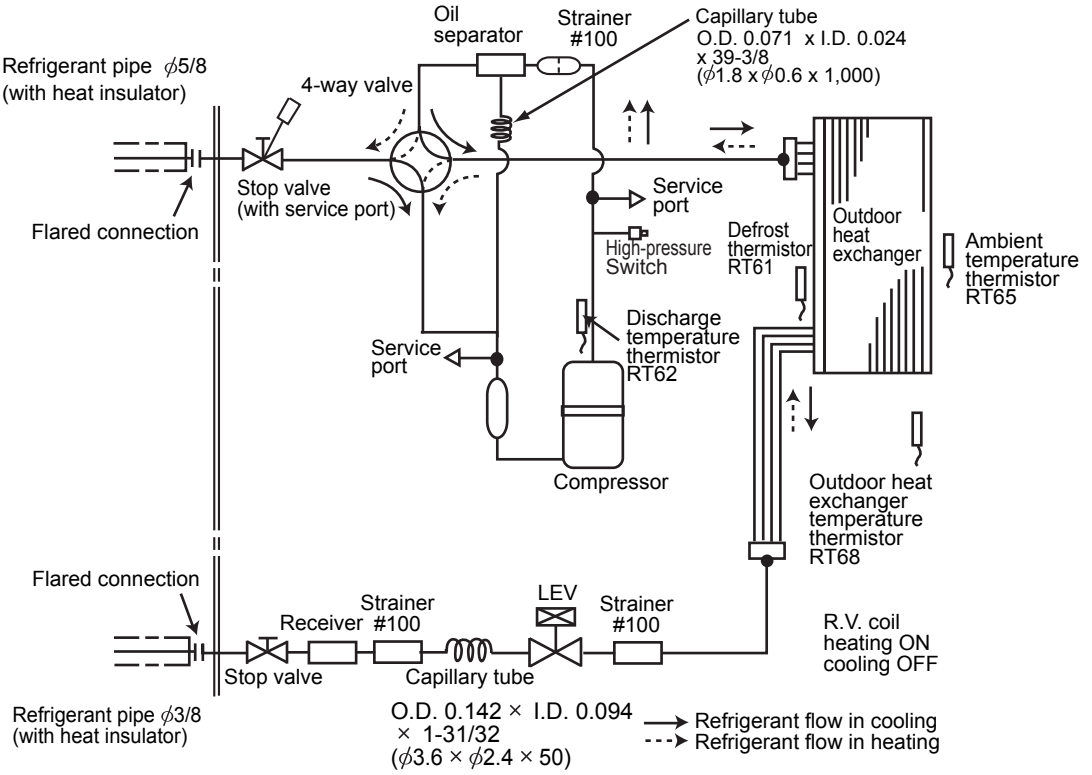
3-5. REFRIGERANT SYSTEM DIAGRAMS

Unit: inch (mm)

MSZ-D30NA-8 MSZ-D36NA-8



MUZ-D30NA-1 MUZ-D36NA-1



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3-6. CAPACITY CORRECTION CURVE BY TEMPERATURE

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3-7. CAPACITY CORRECTION TABLE BY TEMPERATURE

(1) MUZ-D30NA-1 MUZ-D36NA-1

(1) Cooling Capacity

Model	Indoor air	Outdoor intake air DB temperature (˚F)															
	IWB (˚F)	75			85			95			105			115			
		TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC	TC	SHC	TPC
MUZ-D30NA-1	71	37.6	19.1	3.43	35.2	17.8	3.75	33.0	16.7	4.04	30.7	15.6	4.25	28.2	14.3	4.43
	67	35.6	22.8	3.23	33.2	21.2	3.56	30.7	19.6	3.85	28.6	18.3	4.08	26.2	16.8	4.27
	63	33.5	25.9	3.08	31.0	24.0	3.41	28.9	22.3	3.68	26.2	20.3	3.93	23.9	18.5	4.08
MUZ-D36NA-1	71	40.7	19.8	3.88	38.0	18.5	4.25	35.7	17.4	4.58	33.2	16.2	4.82	30.5	14.9	5.01
	67	38.5	23.9	3.66	35.9	22.2	4.03	33.2	20.6	4.36	30.9	19.1	4.62	28.4	17.6	4.84
	63	36.2	27.3	3.49	33.5	25.3	3.86	31.2	23.5	4.16	28.4	21.4	4.45	25.9	19.5	4.62

NOTE: 1. IWB: Intake air wet-bulb temperature
TC: Total Capacity (×10^{3}Btu/h)
SHC: Sensible Heat Capacity (×10^{3}Btu/h)
TPC: Total Power Consumption (kW)
2. SHC is based on 80˚F of indoor Intake air DB temperature.

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(2) MUZ-D30NA-1 MUZ-D36NA-1

(2) Heating Capacity

Model	Indoor air	Outdoor intake air WB temperature (˚F)															
	IDB (˚F)	5		15		25		35		43		45		55	
		TC	TPC	TC	TPC	TC	TPC	TC	TPC	TC	TPC	TC	TPC	TC	TPC
MUZ-D30NA-1	75	18.9	2.50	23.6	2.94	28.2	3.28	31.8	3.44	32.8	3.49	37.2	3.63	12.4	0.82
	70	20.0	2.42	24.5	2.87	28.9	3.19	32.6	3.36	33.6	3.43	38.0	3.56	12.7	0.81
	65	20.5	2.32	25.6	2.77	29.8	3.11	33.6	3.28	34.6	3.33	38.8	3.49	13.0	0.79
MUZ-D36NA-1	75	20.4	2.86	25.5	3.36	30.4	3.74	34.3	3.94	35.4	3.99	40.1	4.15	16.4	1.26
	70	21.6	2.76	26.4	3.28	31.2	3.65	35.2	3.84	36.3	3.92	41.0	4.07	16.8	1.24
	65	22.2	2.65	27.6	3.17	32.2	3.55	36.3	3.74	37.3	3.80	41.9	3.99	17.1	1.22

NOTE: 1. IDB: Intake air dry-bulb temperature
TC: Total Capacity ($\times 10^3$ Btu/h)
TPC: Total Power Consumption (kW)
2. Above data is for heating operation without any frost.

How to operate with fixed operational frequency of the compressor.
1. Press the EMERGENCY OPERATION switch on the front of the indoor unit, and select either EMERGENCY COOL mode or EMERGENCY HEAT mode before starting to operate the air conditioner.
2. The compressor starts with operational frequency.
3. The fan speed of the indoor unit is High.
4. This operation continues for 30 minutes.
5. In order to release this operation, press the EMERGENCY OPERATION switch twice or once, or press any button on the remote controller.

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(3) M-Series Cooling Correction

		Outdoor W.B. [° F]							
		-13	-4	5	14	23	32	41	50
	Indoor								
	EAT DB								
MUZ-D30NA-1	60			0.56	0.66	0.80	0.95	1.07	1.07
MUZ-D36NA-1	60			0.56	0.66	0.80	0.95	1.07	1.07
Interpolated Data Between 60 and 65 Indoor EAT DB data sets									
MUZ-D30NA-1	63			0.55	0.64	0.79	0.93	1.05	1.05
MUZ-D36NA-1	63			0.55	0.64	0.79	0.93	1.05	1.05
MUZ-D30NA-1	65			0.54	0.64	0.78	0.92	1.03	1.03
MUZ-D36NA-1	65			0.54	0.64	0.78	0.92	1.03	1.03
MUZ-D30NA-1	70			0.52	0.615	0.75	0.885	1.00	1.00
MUZ-D36NA-1	70			0.52	0.615	0.75	0.885	1.00	1.00
MUZ-D30NA-1	75			0.50	0.59	0.72	0.85	0.96	0.96
MUZ-D36NA-1	75			0.50	0.59	0.72	0.85	0.96	0.96
MUZ-D30NA-1	80			0.48	0.57	0.70	0.82	0.93	0.93
MUZ-D36NA-1	80			0.48	0.57	0.70	0.82	0.93	0.93

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(4) M-Series Cooling Correction

	70	77	81	86	95	104	115
60	1.11	1.06	1.01	0.97	0.91	0.83	0.76
63	1.16	1.10	1.06	1.02	0.96	0.88	0.81
64	1.18	1.13	1.08	1.04	0.98	0.90	0.83
68	1.23	1.18	1.14	1.10	1.03	0.96	0.89
72	1.28	1.23	1.20	1.15	1.09	1.02	0.95
75	1.34	1.29	1.26	1.22	1.15	1.08	1.02
79	1.38	1.34	1.32	1.28	1.21	1.14	1.07

(5) M-Series Defrost Correction

Outdoor intake temperature W.B. [° F]	43	39	36	32	28	25	21	18	14
Outdoor intake temperature W.B. [° C]	6	4	2	0	-2	-4	-6	-8	-10
Correction factor	1.00	0.80	0.82	0.84	0.87	0.90	0.93	0.96	1.00

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3-8. CAPACITY CORRECTION CURVE BY REFRIGERANT PIPING LENGTH

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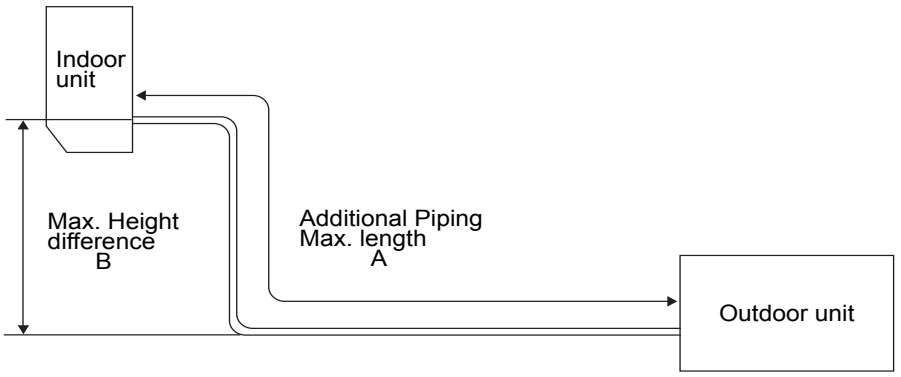
3-9. CAPACITY CORRECTION TABLE BY REFRIGERANT PIPING LENGTH

(1) Cooling Capacity Correction

Refrigerant piping length (one way: ft.)				
	25 (std.)	40	65	100
MUZ-D30NA-1 MUZ-D36NA-1	1.0	0.954	0.878	0.713

(2) Maximum Refrigerant Piping Length & Maximum Height Difference

Model	Refrigerant piping: ft		Piping size: in.			
	Additional piping Max. length A	Additional piping Max. height B	Gas		Liquid	
			Outside diameter	Minimum Wall thickness	Outside diameter	Minimum Wall thickness
MUZ-D30NA-1 MUZ-D36NA-1	100	50	ϕ5/8	0.0394	ϕ3/8	0.0315



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(3) M-Series Piping Correction Cooling

Refrigerant piping length (ft)			
25(std)	40	65	100
1.000	0.954	0.878	0.771

(4) M-Series Piping Correction Heating

Refrigerant piping length (ft)			
25(std)	40	65	100
1.000	0.989	0.972	0.955

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3-10. CHARGE CALCULATIONS

(1) Additional Refrigerant Charge (R410A: oz.)

NOTE: Refrigerant piping exceeding 25 ft. requires additional refrigerant charge according to the calcualation.

Model	Outdoor unit precharged	Refrigerant piping length (one way): ft.								
		25ft	30ft	40ft	50ft	60ft	70ft	80ft	90ft	100ft
MUZ-D30NA-1 **MUZ-D36NA-1**	4 lb. 10 oz.	0	2.96	8.88	14.80	20.72	26.64	32.56	38.48	44.40

NOTE: Calculation: X oz. = 2.96/5 oz./ft x (Refrigerant piping length (ft) - 25)

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Outlet Air Speed And Coverage

Model name	Mode	Function	Airflow (CFM)	Air speed (ft./s.)	Coverage (ft.)
MSZ-D30NA-8 MSZ-D36NA-8	HEAT	Dry	848	23.6	45.0
MSZ-D30NA-8 MSZ-D36NA-8	COOL	Dry	848	23.6	45.0
		Wet	763	21.3	40.7

- The air coverage is the figure up to the position where the air speed is 1 ft./s., when air is blown out horizontally from the unit properly at the High speed position.
  The coverage should be used only as a general guideline since it varies according to the size of the room and furniture arranged inside the room.

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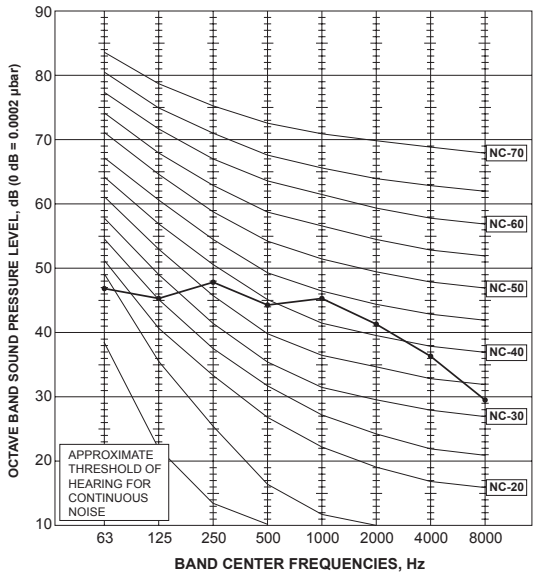
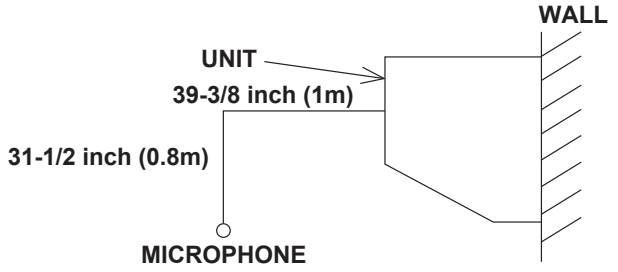
(1) Indoor Unit

MSZ-D30NA-8
MSZ-D36NA-8

NOTCH	SPL(dB(A))	LINE
COOLING(Hi)	49	●——●
HEATING(Hi)		





NOTE:The sound level is measured in an anechoic room where echoes are few,when compressor stops.The sound may be bigger than displayed level under actual installation condition by surrounding echoes.The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

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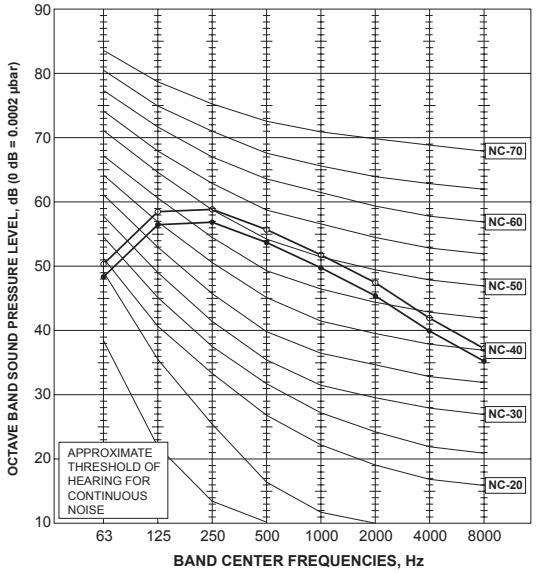
(2) Outdoor Unit

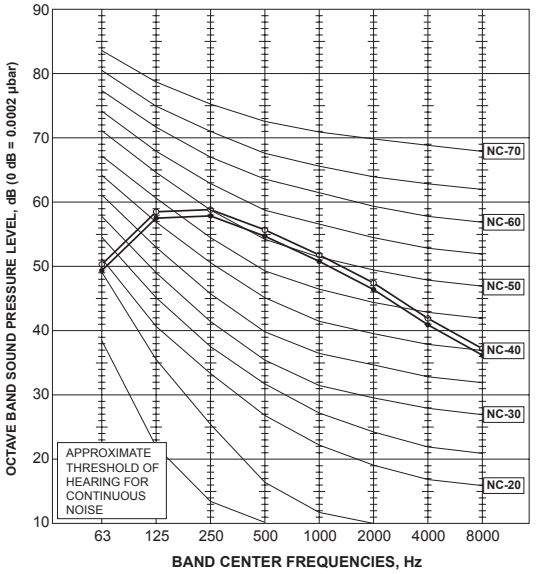
MUZ-D30NA-1

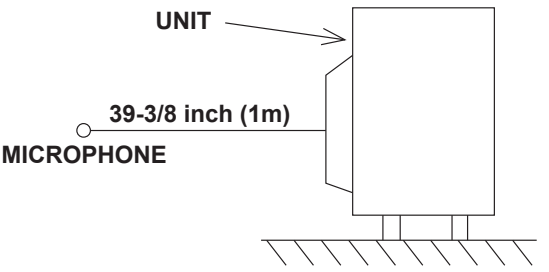
NOTCH	SPL(dB(A))	LINE
COOLING	55	●—●
HEATING	57	○—○



MUZ-D36NA-1

NOTCH	SPL(dB(A))	LINE
COOLING	56	●—●
HEATING	57	○—○





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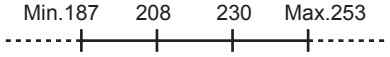
3-13. STANDARD OPERATION RANGE

OPERATING RANGE

(A) POWER SUPPLY

	Rated voltage	Guaranteed Voltage (V)
Outdoor unit	208/230 V 1 phase 60 Hz	

(B) OPERATION

Mode	Condition	Intake air temperature (°F)			
		Indoor		Outdoor	
		DB	WB	DB	WB
Cooling	Standard temperature	80	67	95	—
	Maximum temperature	90	73	115	—
	Minimum temperature	67	57	14	—
	Maximum humidity	78%		—	
Heating	Standard temperature	70	60	47	43
	Maximum temperature	80	67	75	65
	Minimum temperature	70	60	5	4

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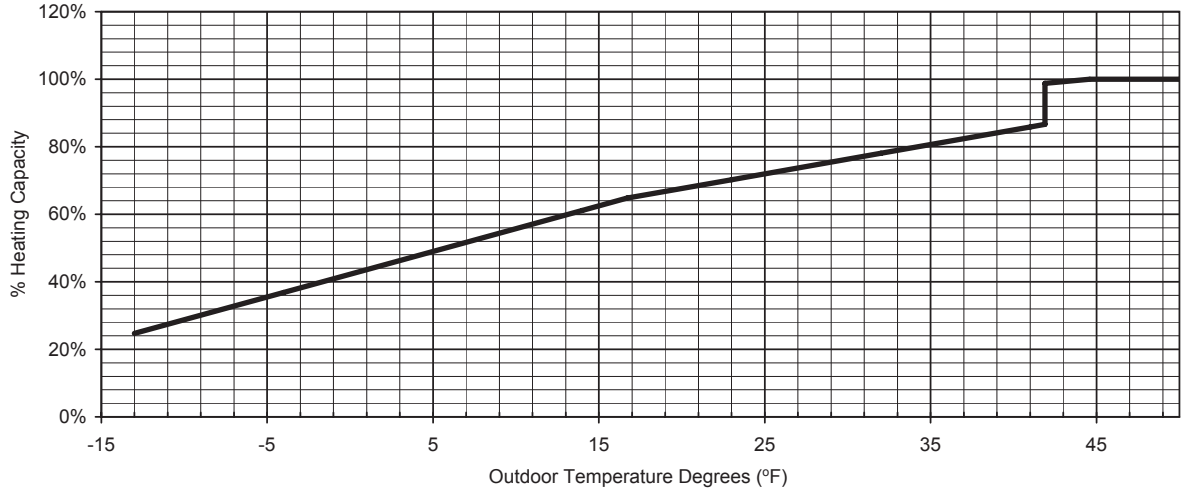
3-14. MAXIMUM HEATING CAPACITY IN LOW AMBIENT TEMPERATURE

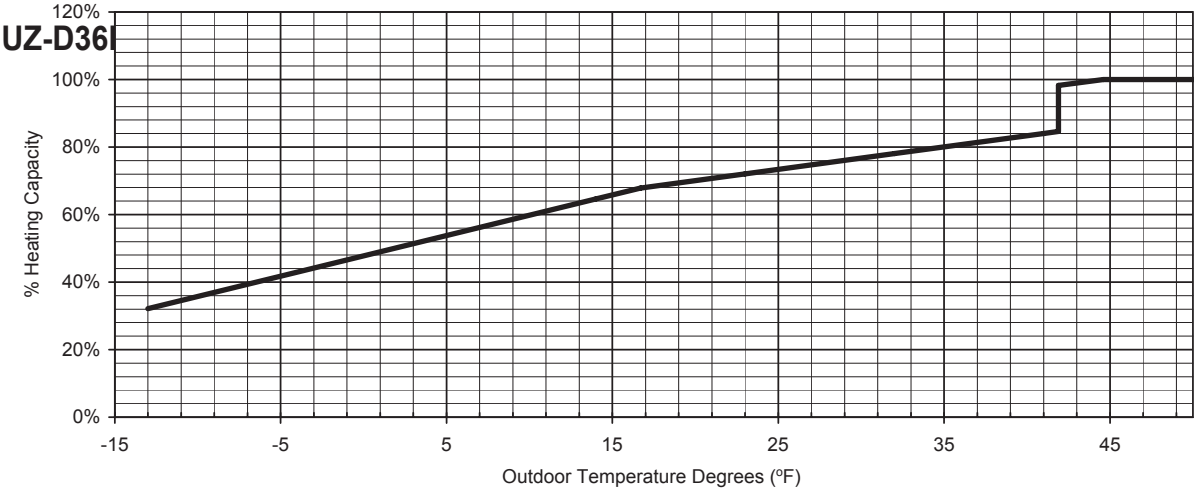
MUZ-D30NA-1



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-13.0	-4.0	5.0	14.0	23.0	32.0	41.0	50.0	69.8
% Heating Capacity	25%	37%	49%	61%	70%	78%	86%	100%	100%

MUZ-D36I



HEATING CAPACITY

Outdoor Temperature Degrees (°F)	-13.0	-4.0	5.0	14.0	23.0	32.0	41.0	50.0	69.8
% Heating Capacity	32%	43%	54%	65%	72%	78%	84%	100%	100%

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3-15. ACCESSORIES

(1) Indoor Unit

Part Number	Descriptions	Applicable model
C13-103	Blue Diamond Sensor Extension Cable - 15 Ft.	All Models
DPLS1	Drain Pan Level Sensor/Control for indoor unit shut off to prevent Drain Pan Overflow	
MAC-1415FT-E	Anti-Allergy Enzyme Filter (qty of 2)	
MAC-333IF-E	System Control Interface - MA, Contact terminal, and M-NET Control Adapter, Supplemental heat and humidifier adaptor	
MCCH1	Portable Central Controller (PCC) - controls up to 16 RedLINK Zones - requires an MHK1 on each indoor unit	
MHK1	Wireless wall-mounted remote controller (MRCH1) with a signal receiver (MIFH1) and cable (MRC1) all in one kit	
MOS1	Outdoor Air Sensor - reads both outside temperature and humidity displayed on MRCH1 and MCCH1 if installed	
PAC-YT53CRAU	Simple MA Remote Controller (requires MAC-333IF-E interface for MSY/Z and MFZ indoor units)	
PAR-31MAA	Wall mounted, hard wired, multi-functional controller: used specifically for grouping (up to 16 units), twinning, lead/lag, and 7 day programmable applications (requires MAC-333IF-E interface for MSY/Z and MFZ indoor units)	
RCMKP1CB	Lockdown Bracket for wireless, hand-held, remote controllers	
SI30-115	Mini-Condensation pump - 115 volt application	
SI30-230	Mini-Condensation pump - 230 volt application	
TAZ-MS303	3-Pole Disconnect Switch 30 Amps 600 volts rated for interupting power supply at/near indoor unit - fits 2 X 4 utility box	
X87-721	Advanced Blue Diamond Mini-Condensation pump w/ Resevoir & Sensor - 208/230 volt application	

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(1) Indoor Unit cont.

Part Number	Descriptions		Applicable model
MPLS385812T-10	Diamondback Linesets	3/8 x 5/8 x 10' / 1/2" Twin-Tube Insulation	All Models
MPLS385812T-15		3/8 x 5/8 x 15' / 1/2" Twin-Tube Insulation	
MPLS385812T-30		3/8 x 5/8 x 30' / 1/2" Twin-Tube Insulation	
MPLS385812T-50		3/8 x 5/8 x 50' / 1/2" Twin-Tube Insulation	
MPLS385812T-65		3/8 x 5/8 x 65' / 1/2" Twin-Tube Insulation	
MPLS385812T-100		3/8 x 5/8 x 100' / 1/2" Twin-Tube Insulation	

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(2) Outdoor Unit

Part Number	Descriptions	Applicable model
CWMB1	4 piece (1 pair) condensing unit wall mounting brackets - painted steel	All Models
DSD-400P	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	
MAC-811DS	Outdoor drain pan socket - Provides pipe connection to route condensate out of drain pan	
ULTRILITE1	Condensing Unit Mounting Pad 16” x 36” x 3”	

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