H2i® MXZ Outdoor units

Due to continuing improvement, above specification may be subject to change without notice.

1. SPECIFICATIONS

- Highly energy-efficient system that features 100% heating capacity at 5º F with guaranteed capacity down to -13º F
- Compact side discharge outdoor unit
- Indoor unit powered from outdoor unit using A-control (MXZ-2C20/3C24/3C30NAHZ only)
- Auto restart following a power outage
- Wired or wireless controller
- Quiet operation
- Built-in base pan heater to prevent ice in drain pan
- MXZ- 2C20,3C24,3C30NAHZ
  - M-Net adaptor kits are available as an option*
- Limited warranty: five years parts and seven years compressor

*Included standard in PAC-MKA30/50BC Branch Box

For all MXZ H2i® Series outdoor units a minimum of two indoor units must be connected and the minimum installed capacity cannot be less than 12,000 Btu/h.

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MXZ-2C20NAHZ

Item			Outdoor model	MXZ-2C20NAHZ	
			Indoor type	Non-Duct (09+09)	Duct (09+12)
Capacity	Cooling	*1	Btu/h	18,000	20,000
	Heating 47	*1	Btu/h	22,000	22,000
	Heating 17	*2	Btu/h	13,700	13,700
Power consumption	Cooling	*1	W	1,334	1,819
	Heating 47	*1	W	1,612	1,748
	Heating 17	*2	W	1,450	1,588
EER	Cooling			13.5	11.0
SEER	Cooling			17.0	15.0
HSPF IV(V)	Heating			9.8	9.5
COP	Heating			4.00	3.69
External finish				Munsell 3.0Y 7.8/1.1	
Power supply			V, phase, Hz	208/230, 1, 60	
Max. fuse size (time delay)			A	40	
Min. circuit ampacity			A	28.9	
Fan motor			F.L.A	1.90	
Compressor	Model			MNB33FBTMC-L	
	Winding resistance (at 68 ºF)		Ω	U-V 0.30 V-W 0.30 W-U 0.30	
			R.L.A	20	
			L.R.A	28.8	
Refrigerant control				LEV	
Sound level			dB(A)	54.0 / 58.0	
Defrost method				Reverse cycle	
Dimensions	W		in.	37-13/32	
	D		in.	13	
	H		in.	41-17/64	
Weight			lb.	187	
Remote controller				Wireless type	
Control voltage (by built-in transformer)				4	
Refrigerant piping				Not supplied (optional parts)	
Valve size	Liquid		in.	1/4	
	Gas		in.	A,B: 3/8	
Connection method	Indoor			Flared	
	Outdoor			Flared	
Refrigerant charge (R410A)			lb.	8 lb. 13 oz.	
Refrigeration oil (Model)			oz.	37.4 (FV50S)	

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

Unit: °F

Mode	Test	Indoor air condition		Outdoor air condition	
		Dry bulb	Wet bulb	Dry bulb	Wet bulb
Cooling	*1: "A" Cooling steady state at rated compressor speed	80	67	95	(75)
	"B-2" Cooling steady state at rated compressor speed	80	67	82	(65)
	"B-1" Cooling steady state at minimum compressor speed	80	67	82	(65)
	Low ambient cooling steady state at minimum compressor speed	80	67	67	(53.5)
	Intermediate cooling steady state at intermediate compressor speed	80	67	87	(69)
Heating	*1: Standard rating-heating at rated compressor speed	70	60	47	43
	*2: Low temperature heating at maximum compressor speed	70	60	17	15
	Maximum temperature heating at minimum compressor speed	70	60	62	56.5
	High temperature heating at minimum compressor speed	70	60	47	43
	Frost accumulation at rated compressor speed	70	60	35	33
	Frost accumulation at intermediate compressor speed	70	60	35	33

Due to continuing improvement, above specification may be subject to change without notice.

1. SPECIFICATIONS

MXZ-3C24NAHZ

Item			Outdoor model	MXZ-3C24NAHZ	
			Indoor type	Non-Duct (06+06+09)	Duct (09+09+09)
Capacity	Cooling	*1	Btu/h	22,000	23,600
	Heating 47	*1	Btu/h	25,000	24,600
	Heating 17	*2	Btu/h	14,000	14,000
Power consumption	Cooling	*1	W	1,630	2,360
	Heating 47	*1	W	1,725	1,871
	Heating 17	*2	W	1,622	1,635
EER	Cooling			13.5	10.0
SEER	Cooling			19.0	15.5
HSPF IV(V)	Heating			10.0	9.0
COP	Heating			4.25	3.80
External finish				Munsell 3.0Y 7.8/1.1	
Power supply			V, phase, Hz	208/230, 1, 60	
Max. fuse size (time delay)			A	40	
Min. circuit ampacity			A	29.9	
Fan motor			F.L.A	1.90	
Compressor	Model			MNB33FBTMC-L	
	Winding resistance (at 68 ºF)		Ω	U-V 0.30 V-W 0.30 W-U 0.30	
			R.L.A	20	
			L.R.A	28.8	
Refrigerant control				LEV	
Sound level			dB(A)	54.0 / 58.0	
Defrost method				Reverse cycle	
Dimensions	W		in.	37-13/32	
	D		in.	13	
	H		in.	41-17/64	
Weight			lb.	189	
Remote controller				Wireless type	
Control voltage (by built-in transformer)				4	
Refrigerant piping				Not supplied (optional parts)	
Valve size	Liquid		in.	1/4	
	Gas		in.	A: 1/2 B,C: 3/8	
Connection method	Indoor			Flared	
	Outdoor			Flared	
Refrigerant charge (R410A)			lb.	8 lb. 13 oz.	
Refrigeration oil (Model)			oz.	37.4 (FV50S)	

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

Unit: °F

Mode	Test	Indoor air condition		Outdoor air condition	
		Dry bulb	Wet bulb	Dry bulb	Wet bulb
Cooling	*1: "A" Cooling steady state at rated compressor speed	80	67	95	(75)
	"B-2" Cooling steady state at rated compressor speed	80	67	82	(65)
	"B-1" Cooling steady state at minimum compressor speed	80	67	82	(65)
	Low ambient cooling steady state at minimum compressor speed	80	67	67	(53.5)
	Intermediate cooling steady state at intermediate compressor speed	80	67	87	(69)
Heating	*1: Standard rating-heating at rated compressor speed	70	60	47	43
	*2: Low temperature heating at maximum compressor speed	70	60	17	15
	Maximum temperature heating at minimum compressor speed	70	60	62	56.5
	High temperature heating at minimum compressor speed	70	60	47	43
	Frost accumulation at rated compressor speed	70	60	35	33
	Frost accumulation at intermediate compressor speed	70	60	35	33

Due to continuing improvement, above specification may be subject to change without notice.

MXZ-3C30NAHZ

Item			Outdoor model	MXZ-3C30NAHZ	
			Indoor type	Non-Duct (09+09+12)	Duct (09+09+12)
Capacity	Cooling	*1	Btu/h	28,400	27,400
	Heating 47	*1	Btu/h	28,600	27,600
	Heating 17	*2	Btu/h	18,000	17,000
Power consumption	Cooling	*1	W	2,272	2,661
	Heating 47	*1	W	2,096	2,187
	Heating 17	*2	W	1,991	1,993
EER	Cooling			12.5	10.3
SEER	Cooling			18.0	16.0
HSPF IV(V)	Heating			11.0	9.8
COP	Heating			4.00	3.70
External finish				Munsell 3.0Y 7.8/1.1	
Power supply			V, phase, Hz	208/230, 1, 60	
Max. fuse size (time delay)			A	40	
Min. circuit ampacity			A	29.9	
Fan motor			F.L.A	1.90	
Compressor	Model			MNB33FBTMC-L	
	Winding resistance (at 68 ºF)		Ω	U-V 0.30 V-W 0.30 W-U 0.30	
			R.L.A	20	
			L.R.A	28.8	
Refrigerant control				LEV	
Sound level			dB(A)	54.0 / 58.0	
Defrost method				Reverse cycle	
Dimensions	W		in.	37-13/32	
	D		in.	13	
	H		in.	41-17/64	
Weight			lb.	189	
Remote controller				Wireless type	
Control voltage (by built-in transformer)				4	
Refrigerant piping				Not supplied (optional parts)	
Valve size	Liquid		in.	1/4	
	Gas		in.	A: 1/2 B,C: 3/8	
Connection method	Indoor			Flared	
	Outdoor			Flared	
Refrigerant charge (R410A)			lb.	8 lb. 13 oz.	
Refrigeration oil (Model)			oz.	37.4 (FV50S)	

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

Unit: °F

Mode	Test	Indoor air condition		Outdoor air condition	
		Dry bulb	Wet bulb	Dry bulb	Wet bulb
Cooling	*1: "A" Cooling steady state at rated compressor speed	80	67	95	(75)
	"B-2" Cooling steady state at rated compressor speed	80	67	82	(65)
	"B-1" Cooling steady state at minimum compressor speed	80	67	82	(65)
	Low ambient cooling steady state at minimum compressor speed	80	67	67	(53.5)
	Intermediate cooling steady state at intermediate compressor speed	80	67	87	(69)
Heating	*1: Standard rating-heating at rated compressor speed	70	60	47	43
	*2: Low temperature heating at maximum compressor speed	70	60	17	15
	Maximum temperature heating at minimum compressor speed	70	60	62	56.5
	High temperature heating at minimum compressor speed	70	60	47	43
	Frost accumulation at rated compressor speed	70	60	35	33
	Frost accumulation at intermediate compressor speed	70	60	35	33

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1. SPECIFICATIONS

MXZ-4C36NAHZ

Item				Outdoor model	MXZ-4C36NAHZ		
				Indoor type	Non-Ducted	Mix	Ducted
Standard performance	Cooling	Capacity Rated*1		BTU/h	36,000	36,000	36,000
		Rated power consumption*1		W	2,570	2,875	3,180
		EER		BTU/Wh	14.01	12.52	11.32
		SEER		BTU/Wh	19.1	17.5	15.8
	Heating	Capacity Rated 47°F*1		BTU/h	45,000	45,000	45,000
		Capacity Max. 17°F*2		BTU/h	45,000	45,000	45,000
		Capacity Max. 5°F		BTU/h	45,000	45,000	45,000
		Rated power consumption 47°F*1		W	3,340	3,795	4,250
		COP 47°F*1		BTU/Wh	3.95	3.48	3.10
		HSPF IV(V)		BTU/Wh	11.3/9.2	10.7/8.9	10.1/8.5
OUTDOOR UNIT	Connectable indoor units (Max.)				4		
	Max. Connectable Capacity				46,000		
	Power supply				1 Phase 208 / 230 V, 60 Hz		
	Breaker Size / Max. fuse size				50 A/ 52 A		
	Min. circuit ampacity				42 A		
	Sound level (Cool/Heat)			dB	49/ 53		
	External finish				Munsell 3Y 7.8/ 1.1		
	Refrigerant control				Linear Expansion Valve		
	Compressor				Hermetic		
		Model			ANB33FJSMT		
		Motor output		kW	2.8		
		Starting method			Inverter		
	Heat exchanger				Plate fin coil		
	Fan	Fan (drive) × No.			Propeller fan × 2		
		Fan motor output		kW	0.06 + 0.06		
		Airflow		m³/min (CFM)	110 (3885)		
	Dimensions (H × W × D)	W		in (mm)	41-11/32 (1050)		
		D		in (mm)	13+1 (330+25)		
		H		in (mm)	52-11/16 (1338)		
	Weight			lb (kg)	276 (125)		
	Refrigerant				R410A		
		Charge		lb (kg)	10 lbs. 9 oz.(4.8)		
		Oil/ Model		oz (L)	73 (2.3)		
	Protection devices	High pressure protection			HP switch		
		Compressor protection			Compressor thermo, Overcurrent detection		
		Fan motor protection			Overheating / Voltage protection		
	Guaranteed operation range			(cool)	D.B 23 to 115°F . [D.B.−5 to 46°C] *3		
				(heat)	D.B. −13 to 70°F [D.B. −25 to 21°C]		
REFRIGERANT PIPING	Total Piping length (Max.)			ft (m)	492 (150)		
	Farthest			ft (m)	262 (80)		
	Max. Height difference			ft (m)	164 (50)*4		
	Chargeless length			ft (m)	0		
	Piping diameter	Liquid		in (mm)	3/8 (9.52)		
		Gas		in (mm)	5/8 (15.88)		
	Connection method	Indoor side			Flared		
		Outdoor side			Flared		

*1 Rating conditions
Cooling Indoor : D.B. 80°F/ W.B. 67 °F [D.B.26.7°C/ W.B. 19.4°C]
Outdoor : D.B. 95°F [D.B. 35.0°C]
Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 47°F/ W.B. 43°F [D.B. 8.3°C/ W.B. 6.1°C]

*2 Conditions
Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 17°F/ W.B. 15°F [D.B. −8.3°C/ W.B. −9.4°C]

*3 D.B. 5 to 115°F [D.B. −15 to 46°C], when an optional Air Outlet Guide is installed.

*4 131 ft [40 m], in case of installing outdoor unit lower than indoor unit.

Note: Refer to the indoor unit's service manual for the indoor units specifications.

Due to continuing improvement, above specification may be subject to change without notice.

MXZ-5C42NAHZ

Item				Outdoor model	MXZ-5C42NAHZ		
				Indoor type			
Standard performance	Cooling	Capacity Rated*1		BTU/h	42,000	42,000	42,000
		Rated power consumption*1		W	3,130	3,510	3,890
		EER		BTU/Wh	13.42	11.97	10.80
		SEER		BTU/Wh	19.0	17.0	15.0
	Heating	Capacity Rated 47°F*1		BTU/h	48,000	48,000	48,000
		Capacity Max. 17°F*2		BTU/h	48,000	48,000	48,000
		Capacity Max. 5°F		BTU/h	48,000	48,000	48,000
		Rated power consumption 47°F*1		W	3,430	3,890	4,350
		COP 47°F*1		BTU/Wh	4.10	3.62	3.23
		HSPF IV(V)		BTU/Wh	11.0/9.1	10.6/9.0	10.1/8.8
OUTDOOR UNIT	Connectable indoor units (Max.)				5		
	Max. Connectable Capacity				54,000		
	Power supply				1 Phase 208 / 230 V, 60 Hz		
	Breaker Size / Max. fuse size				50 A/ 52 A		
	Min. circuit ampacity				42 A		
	Sound level (Cool/Heat)			dB	50/ 54		
	External finish				Munsell 3Y 7.8/ 1.1		
	Refrigerant control				Linear Expansion Valve		
	Compressor				Hermetic		
		Model			ANB33FJSMT		
		Motor output		kW	3.0		
		Starting method			Inverter		
	Heat exchanger				Plate fin coil		
	Fan	Fan (drive) × No.			Propeller fan × 2		
		Fan motor output		kW	0.06 + 0.06		
		Airflow		m³/min (CFM)	110 (3885)		
	Dimensions (H × W × D)	W		in (mm)	41-11/32 (1050)		
		D		in (mm)	13+1 (330+25)		
		H		in (mm)	52-11/16 (1338)		
	Weight			lb (kg)	276 (125)		
	Refrigerant				R410A		
		Charge		lb (kg)	10 lbs. 9 oz.(4.8)		
		Oil/ Model		oz (L)	73 (2.3)		
	Protection devices	High pressure protection			HP switch		
		Compressor protection			Compressor thermo, Overcurrent detection		
		Fan motor protection			Overheating / Voltage protection		
	Guaranteed operation range			(cool)	D.B 23 to 115°F . [D.B.−5 to 46°C] *3		
				(heat)	D.B. −13 to 70°F [D.B. −25 to 21°C]		
REFRIGERANT PIPING	Total Piping length (Max.)			ft (m)	492 (150)		
	Farthest			ft (m)	262 (80)		
	Max. Height difference			ft (m)	164 (50)*4		
	Chargeless length			ft (m)	0		
	Piping diameter	Liquid		in (mm)	3/8 (9.52)		
		Gas		in (mm)	5/8 (15.88)		
	Connection method	Indoor side			Flared		
		Outdoor side			Flared		

*1 Rating conditions
Cooling Indoor : D.B. 80°F/ W.B. 67 °F [D.B.26.7°C/ W.B. 19.4°C]
Outdoor : D.B. 95°F [D.B. 35.0°C]
Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 47°F/ W.B. 43°F [D.B. 8.3°C/ W.B. 6.1°C]

*2 Conditions
Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 17°F/ W.B. 15°F [D.B. −8.3°C/ W.B. −9.4°C]

*3 D.B. 5 to 115°F [D.B. −15 to 46°C], when an optional Air Outlet Guide is installed.
*4 131 ft [40 m], in case of installing outdoor unit lower than indoor unit.
Note: Refer to the indoor unit's service manual for the indoor units specifications.

Due to continuing improvement, above specification may be subject to change without notice.

1. SPECIFICATIONS

MXZ-8C48NAHZ

Item				Outdoor model	MXZ-8C48NAHZ		
				Indoor type	Non-Ducted	Mix	Ducted
Standard performance	Cooling	Capacity Rated*1		BTU/h	48,000	48,000	48,000
		Rated power consumption*1		W	4,000	4,525	5,050
		EER		BTU/Wh	12.00	10.61	9.50
		SEER		BTU/Wh	18.9	16.8	14.7
	Heating	Capacity Rated 47°F*1		BTU/h	54,000	54,000	54,000
		Capacity 17°F*2		BTU/h	54,000	54,000	54,000
		Capacity 5°F		BTU/h	54,000	54,000	54,000
		Rated power consumption 47°F*1		W	4,220	4,605	4,990
		COP 47°F*1		BTU/Wh	3.75	3.44	3.17
		HSPF IV(V)		BTU/Wh	11.0/9.2	10.5/9.2	10.0/9.2
OUTDOOR UNIT	Connectable indoor units (Max.)				8		
	Max. Connectable Capacity				62,000		
	Power supply				1 Phase 208 / 230 V, 60 Hz		
	Breaker Size / Max. fuse size				50 A/ 52 A		
	Min. circuit ampacity				42 A		
	Sound level (Cool/Heat)			dB	51/ 54		
	External finish				Munsell 3Y 7.8 / 1.1		
	Refrigerant control				Linear Expansion Valve		
	Compressor				Hermetic		
		Model			ANB33FJSMT		
		Motor output		kW	3.4		
		Starting method			Inverter		
	Heat exchanger				Plate fin coil		
	Fan	Fan (drive) × No.			Propeller fan × 2		
		Fan motor output		kW	0.06 + 0.06		
		Airflow		m^3/min (CFM)	110 (3885)		
	Dimensions (H × W × D)	W		in (mm)	41-11/32 (1050)		
		D		in (mm)	13+1 (330+25)		
		H		in (mm)	52-11/16 (1338)		
	Weight			lb (kg)	276 (125)		
	Refrigerant				R410A		
		Charge		lb (kg)	10 lbs. 9 oz. (4.8)		
		Oil / Model		oz (L)	73 (2.3)		
	Protection devices	High pressure protection			HP switch		
		Compressor protection			Compressor thermo, Over current detection		
		Fan motor protection			Overheating / Voltage protection		
	Guaranteed operation range			(cool)	D.B. 23 to 115°F [D.B. −5 to 46°C]*3		
				(heat)	D.B. −13 to 70°F [D.B. −25 to 21°C]		
REFRIGERANT PIPING	Total Piping length (Max.)			ft (m)	492 (150)		
	Farthest			ft (m)	262 (80)		
	Max. Height difference			ft (m)	164 (50)*4		
	Chargeless length			ft (m)	0		
	Piping diameter	Liquid		in (mm)	3/8 (9.52)		
		Gas		in (mm)	5/8 (15.88)		
	Connection method	Indoor side			Flared		
		Outdoor side			Flared		

*1 Rating conditions
Cooling Indoor : D.B. 80°F/ W.B. 67°F [D.B. 26.7°C/ W.B. 19.4°C]
Outdoor : D.B. 95°F [D.B. 35.0°C]
Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 47°F/ W.B. 43°F [D.B. 8.3°C / W.B. 6.1°C]

*2 Conditions
Heating Indoor : D.B. 70°F [D.B. 21.1°C]
Outdoor : D.B. 17°F/ W.B. 15°F [D.B. −8.3°C/ W.B. −9.4°C]

*3 D.B. 5 to 115°F [D.B. −15 to 46°C], when an optional Air Outlet Guide is installed.
*4 131 ft [40 m], in case of installing outdoor unit lower than indoor unit.
Note: Refer to the indoor unit's service manual for the indoor units specifications.

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Branch Box

PAC-MKA50BC PAC-MKA30BC

Model name				PAC-MKA50BC	PAC-MKA30BC
Connectable number of indoor units				Maximum 5	Maximum 3
Power supply				Single phase, 208/230 V, 60 Hz	
Input			kW	0.003	
Running current			A	0.05	
External finish				Galvanized sheets	
Dimensions	Width		in (mm)	17-23/32 (450)	
	Depth		in (mm)	11-1/32 (280)	
	Height		in (mm)	6-11/16 (170)	
Weight			lb (kg)	16 (7.4)	15 (6.7)
Piping connection (Flare)	Branch (indoor side)*	Liquid	in (mm)	ϕ1/4(6.35) × 5 {A,B,C,D,E}	ϕ1/4(6.35) × 3 {A,B,C}
		Gas	in (mm)	ϕ 3/8(9.52) × 4 {A,B,C,D}, ϕ 1/2(12.7) × 1{E}	ϕ3/8(9.52) × 3 {A,B,C}
	Main (outdoor side)	Liquid	in (mm)	ϕ3/8 (9.52)	
		Gas	in (mm)	ϕ 5/8 (15.88)	

*The piping connection size differs according to the type and capacity of indoor units. Match the piping connection size for indoor and branch box. If the piping connection size of branch box does not match the piping connection size of indoor units, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)

Due to continuing improvement, above specification may be subject to change without notice.

1. SPECIFICATIONS

Efficiency Ratings

Model	Configuration	SEER	EER	HSPF	COP @ 47° F	COP @ 17° F
MXZ-2C20NAHZ	Non-Ducted	17.0	13.50	9.8	4.00	2.77
	Ducted	15.0	11.00	9.5	3.69	2.53
MXZ-3C24NAHZ	Non-Ducted	19.0	13.50	10.0	4.25	2.53
	Ducted	15.5	10.00	9.0	3.80	2.51
MXZ-3C30NAHZ	Non-Ducted	18.0	12.50	11.0	4.00	2.65
	Ducted	16.0	10.30	9.8	3.70	2.50
MXZ-4C36NAHZ	Non-Ducted	19.1	14.01	11.3	3.95	2.85
	Ducted	15.8	11.32	10.1	3.10	2.30
MXZ-5C42NAHZ	Non-Ducted	19.0	13.42	11.0	4.10	2.85
	Ducted	15.0	10.80	10.1	3.23	2.50
MXZ-8C48NAHZ	Non-Ducted	18.9	10.00	11.0	3.75	2.70
	Ducted	14.7	9.5	10	3.17	2.40

Due to continuing improvement, above specification may be subject to change without notice.

1. SPECIFICATIONS

1-1. Compatibility Table

INDOOR UNIT \ OUTDOOR UNIT			2C20NAHZ	3C24NAHZ	3C30NAHZ	4C36NAHZ	5C42NAHZ	8C48NAHZ
M-Series	Wall Mounted	MSZ-FE09NA	○	○	○	○	○	○
		MSZ-FE12NA		○	○	○	○	○
		MSZ-FH09NA	○	○	○	○	○	○
		MSZ-FH12NA	○	○	○	○	○	○
		MSZ-FH15NA	○	○	○	○	○	○
		MSZ-FH18NA		○	○	○	○	○
		MSZ-GE06NA	○	○	○	○	○	○
		MSZ-GE09NA	○	○	○	○	○	○
		MSZ-GE12NA	○	○	○	○	○	○
		MSZ-GE15NA	○	○	○	○	○	○
		MSZ-GE18NA		○	○	○	○	○
		MSZ-GE24NA			○	○	○	○
	Floor Standing	MFZ-KA09NA	○	○	○	○	○	○
		MFZ-KA12NA	○	○	○	○	○	○
		MFZ-KA18NA		○	○	○	○	○
S-Series	4-way Cassette	SLZ-KA09NA	○	○	○	○	○	○
		SLZ-KA12NA	○	○	○	○	○	○
		SLZ-KA18NA		○	○	○	○	○
	Ceiling Conceald	SEZ-KD09NA	○	○	○	○	○	○
		SEZ-KD12NA	○	○	○	○	○	○
		SEZ-KD15NA	○	○	○	○	○	○
		SEZ-KD18NA		○	○	○	○	○
P-Series	4-way Cassette	PLA-A12BA				○	○	○
		PLA-A18BA		○	○	○	○	○
		PLA-A24BA			○	○	○	○
		PLA-A30BA				○	○	○
		PLA-A36BA				○	○	○
	Ceiling Suspended	PCA-A24KA			○			
	Ceiling Conceald	PEAD-A24AA			○	○	○	○
		PEAD-A30AA				○	○	○
		PEAD-A36AA				○	○	○
Vertical	Multi Position	MVZ-A12AA4	○	○	○	○	○	○
		MVZ-A18AA4		○	○	○	○	○
		MVZ-A24AA4			○	○	○	○
		MVZ-A30AA4				○	○	○
		MVZ-A36AA4				○	○	○

Notes:
- Minimum of two Indoor Units must be connected to the MXZ-2C20,3C24,3C30,4C36,5C42,8C48NAHZ.
- Minimum installed capacity cannot be less than 12,000 Btu/h.
- System can operate with only one Indoor Unit turned on.
- May connect to any style indoor unit or combination.
- Information provided at 208/230V.
- Refer to the MXZ Technical & Service Manual for detailed specifications and additional information per Indoor Unit Combination.

Due to continuing improvement, above specification may be subject to change without notice.

1-2. Cooling and Heating Capacity and Characteristics

MXZ-4C36NAHZ MXZ-5C42NAHZ MXZ-8C48NAHZ

1-2-1. Method for obtaining system cooling and heating capacity:

To obtain the system cooling and heating capacity and the electrical characteristics of the outdoor unit, first add up the ratings of all the indoor units connected to the outdoor unit (see table below), and then use this total to find the standard capacity with the help of the tables on 1-4. STANDARD CAPACITY DIAGRAM.

(1) Capacity of indoor unit

	Model Number for indoor unit	Model 06	Model 09	Model 12	Model 15	Model 18	Model 24	Model 30	Model 36
M series	Model Capacity [kBtu/h]	6.0	9.0	12.0	14.0*1 15.0*2	17.2*3 18.0*4	22.5	—	—
P series		—	—	12.0	—	18.0	24.0	30.0	35.0
SEZ		—	8.1	11.5	14.1	17.2	—	—	—
SLZ		—	8.4	11.1	15.0	—	—	—	—
MVZ		—	—	12.0	—	18.0	24.0	30.0	36.0

*1 The value is for MSZ-GE15NA.
*2 The value is for MSZ-FH15NA.
*3 The value is for MSZ-GE/FH18NA.
*4 The value is for MSZ-FE18NA or MFZ-KA18NA.

(2) Sample calculation

1 System assembled from indoor and outdoor unit (in this example the total capacity of the indoor units is greater than that of the outdoor unit)
- Outdoor unit MXZ-5C42NAHZ
- Indoor unit MSZ-GE09NA × 2 + MSZ-FH15NA ×2

2 According to the conditions in **1**, the total capacity of the indoor unit will be: 9.0 × 2 + 15.0 × 2 = 48.0

3 The following figures are obtained from the 16.8 total capacity of indoor units, referring the standard capacity diagram in "4-3-3. MXZ-5C42NAHZ <cooling>" and "4-3-4. MXZ-5C42NAHZ <heating>".

Capacity (kBTU/h)		Outdoor unit power consumption (kW)		Outdoor unit current (A)/ 230 V	
Cooling	Heating	Cooling	Heating	Cooling	Heating
A 42.0	**B** 48.0	3.46	4.37	15.26	19.31

1-2-2. Method for obtaining the heating and cooling capacity of an indoor unit:

(1) The capacity of each indoor unit (kW) = the capacity **A** (or **B**) X $\frac{\text{model capacity}}{\text{total model capacity of all indoor units}}$

(2) Sample calculation (using the system described above in 4-1-1. (2)):

During cooling:

- The total model capacity of the indoor unit is:
  9.0 × 2 + 15.0 × 2 = 48.0 kBTU/h
  Therefore, the capacity of MSZ-GE09NA and MSZ-FH15NA will be calculated as follows by using the formula in 4-1-2. (1):

Model 09 = $42.0 \times \frac{9.0}{48.0} = 7.88$ kBTU/h

Model 15 = $42.0 \times \frac{15.0}{48.0} = 13.13$ kBTU/h

During heating:

- The total model capacity of indoor unit is:
  10.9 × 2 + 18.0 × 2 = 57.8 kBTU/h
  Therefore, the capacity of MSZ-GE09NA and MSZ-FH15NA will be calculated as follows by using the formula in 4-1-2. (1):

Model 25 = $48.0 \times \frac{10.9}{57.8} = 9.05$ kBTU/h

Model 50 = $48.0 \times \frac{18.0}{57.8} = 14.95$ kBTU/h

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1-3. Standard Operation Data (Reference Data)

MXZ-4C36NAHZ MXZ-5C42NAHZ MXZ-8C48NAHZ

Operation				Outdoor unit model					
				MXZ-4C36NAHZ		MXZ-5C42NAHZ		MXZ-8C48NAHZ	
Operating conditions	Ambient temperature	Indoor	DB/WB	80°F / 67°F	70°F / 60°F	80°F / 67°F	70°F / 60°F	80°F / 67°F	70°F / 60°F
		Outdoor		95°F / 75°F	47°F / 43°F	95°F / 75°F	47°F / 43°F	95°F / 75°F	47°F / 43°F
	Indoor unit	No. of connected units	Unit	4		4		4	
		No. of units in operation		4		4		4	
		Model	—	09 × 4		09 × 2 + 12 ×2		12 × 4	
	Piping	Main pipe	m	9.84 (3)		9.84 (3)		9.84 (3)	
		Branch pipe		14.76 (4.5)		14.76 (4.5)		14.76 (4.5)	
		Total pipe length		68.90 (21)		68.90 (21)		68.90 (21)	
	Fan speed		—	Hi		Hi		Hi	
	Amount of refrigerant		lb oz (kg)	17 lb 7 oz (7.9)		17 lb 7 oz (7.9)		17 lb 7 oz (7.9)	
Outdoor unit	Electric current		A	14.1	18.7	17.2	19.1	22.1	21.9
	Voltage		V	230		230		230	
	Compressor frequency		Hz	59	74	70	80	86	91
LEV opening	Indoor unit		Pulse	112	128	129	128	112	132
Pressure	High pressure/Low pressure		MPa	2.57/ 0.98	2.78/ 0.64	2.72/ 0.80	2.80/ 0.56	2.83/ 0.77	2.82/ 0.55
Temp. of each section	Outdoor unit	Discharge	°C	62.1	66.4	64.8	63.2	69.8	65.1
		Heat exchanger outlet		38.2	2.6	38.8	2.0	40.9	1.3
		Accumulator inlet		10.3	2.3	9.7	1.6	8.4	0.8
		Compressor inlet		8.4	1.1	7.4	0.4	5.8	−0.8
	Indoor unit	LEV inlet		21.1	39.7	28.7	37.9	21.7	37.1
		Heat exchanger inlet		12.3	59.4	9.8	55.7	8.6	57.0

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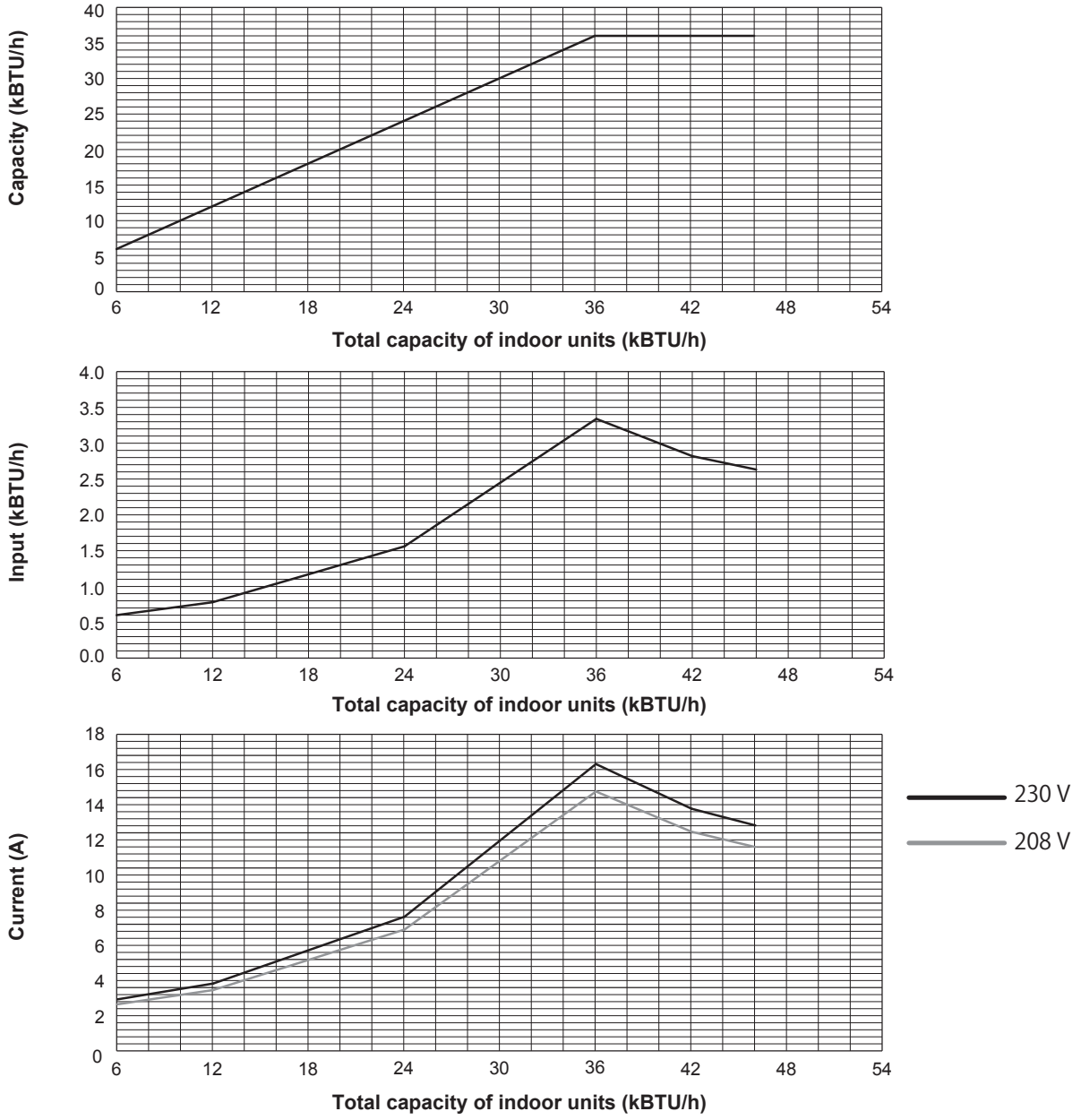
1-4. Standard Capacity Diagram

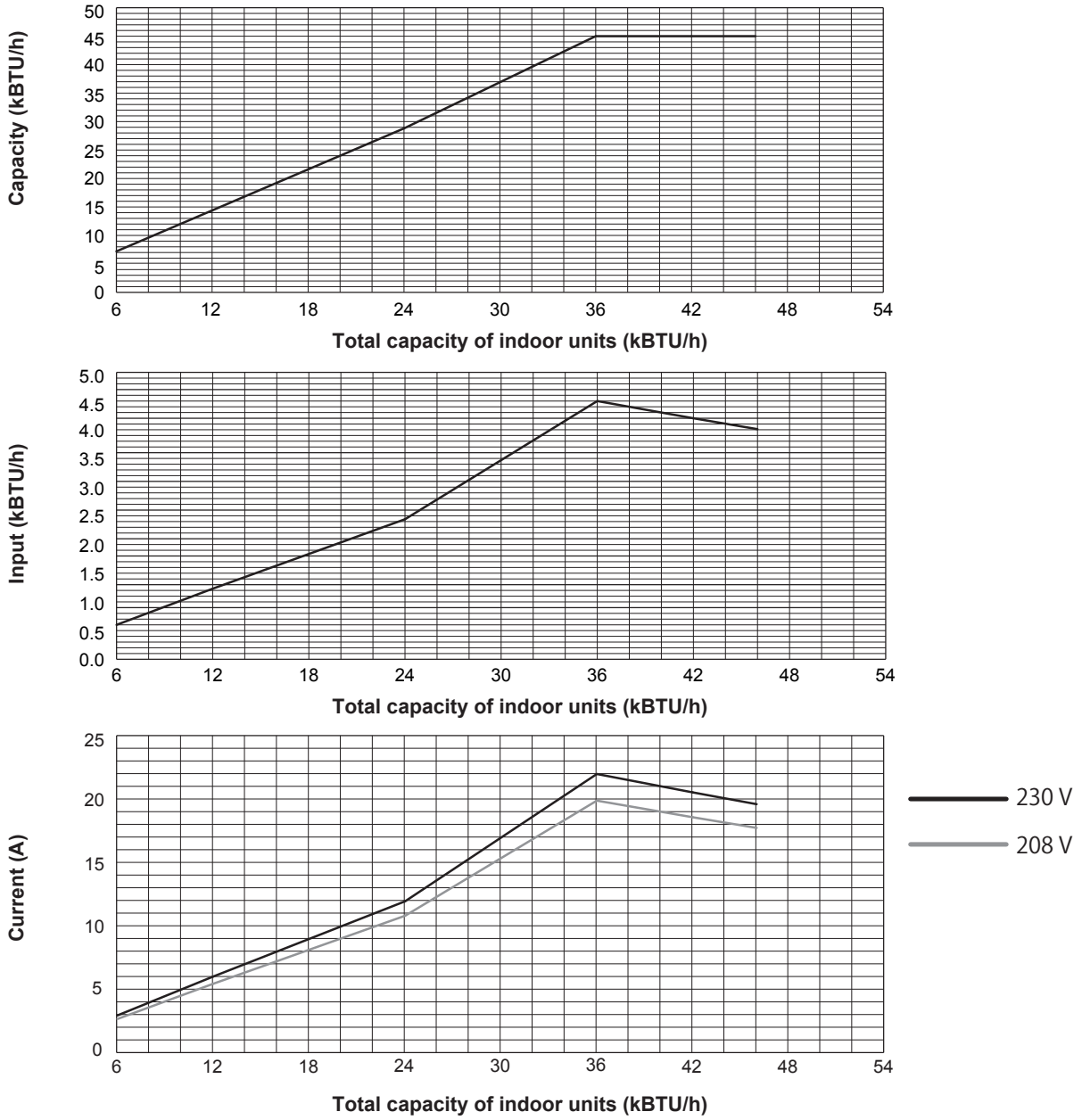
Before calculating the sum of total capacity of indoor units, please convert the value into the kW model capacity following the formula on
"1-2-1. Method for obtaining system cooling and heating capacity".

1-4-1. MXZ-4C36NAHZ <cooling>



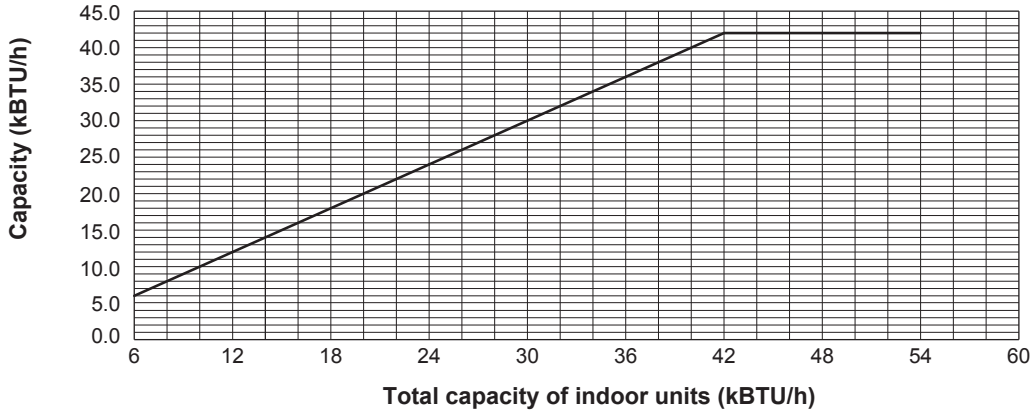
Due to continuing improvement, above specification may be subject to change without notice.

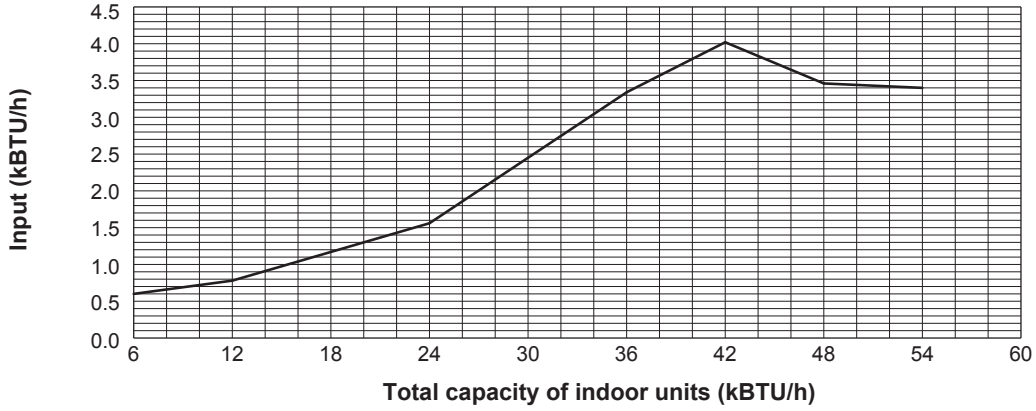
1-4-2. MXZ-4C36NAHZ <heating>

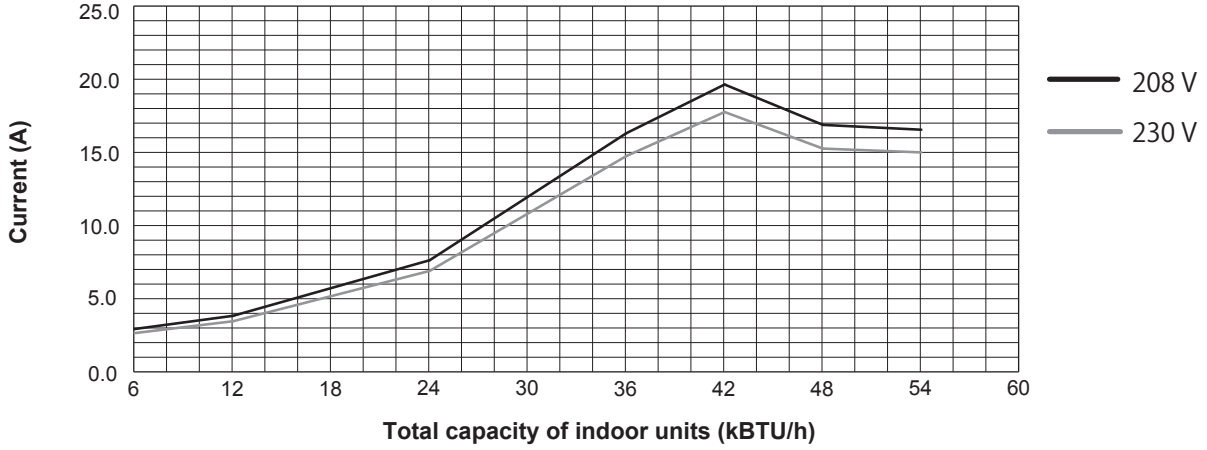


Due to continuing improvement, above specification may be subject to change without notice.

1-4-3. MXZ-5C42NAHZ <cooling>







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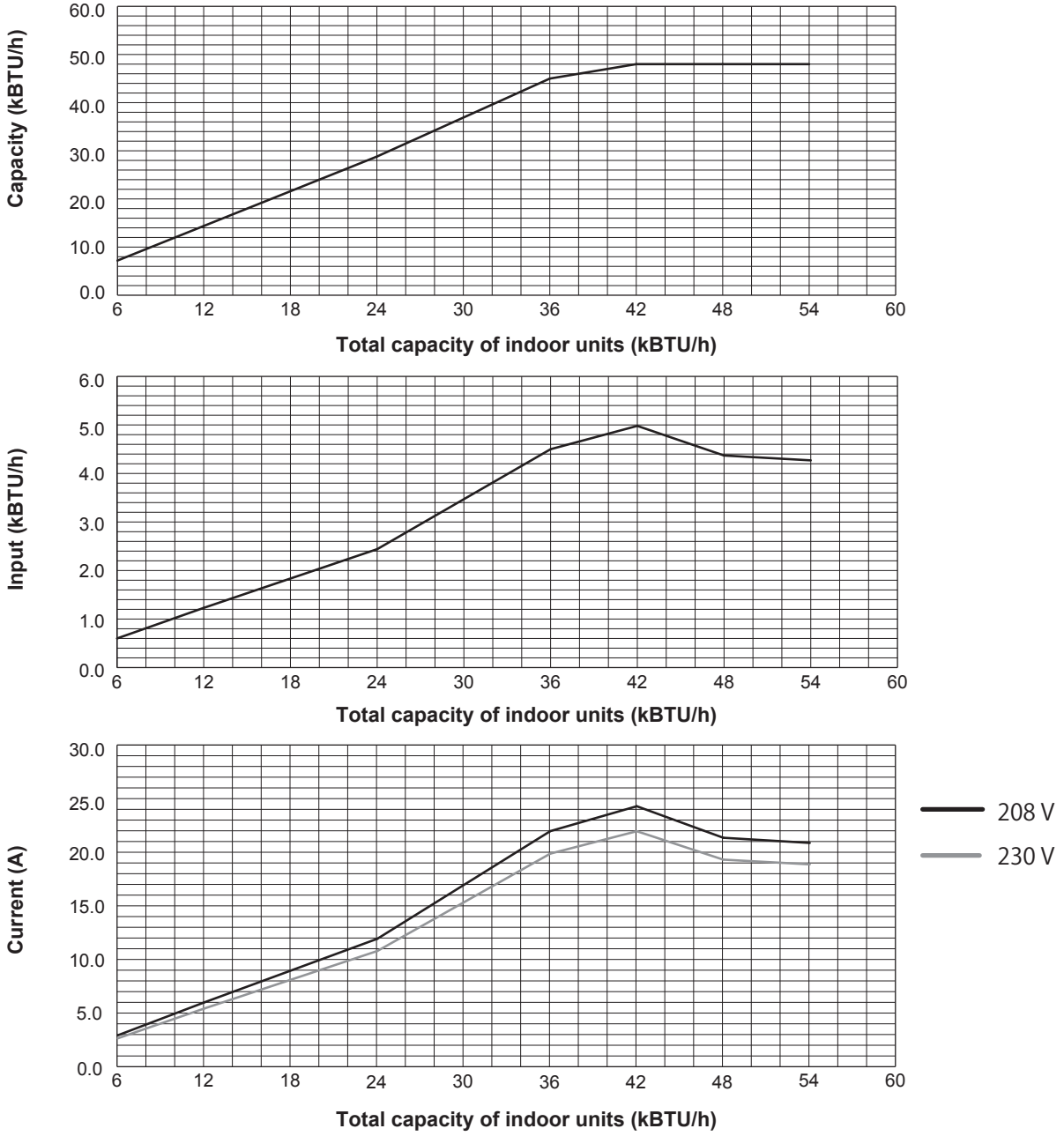
1-4-4. MXZ-5C42NAHZ <heating>



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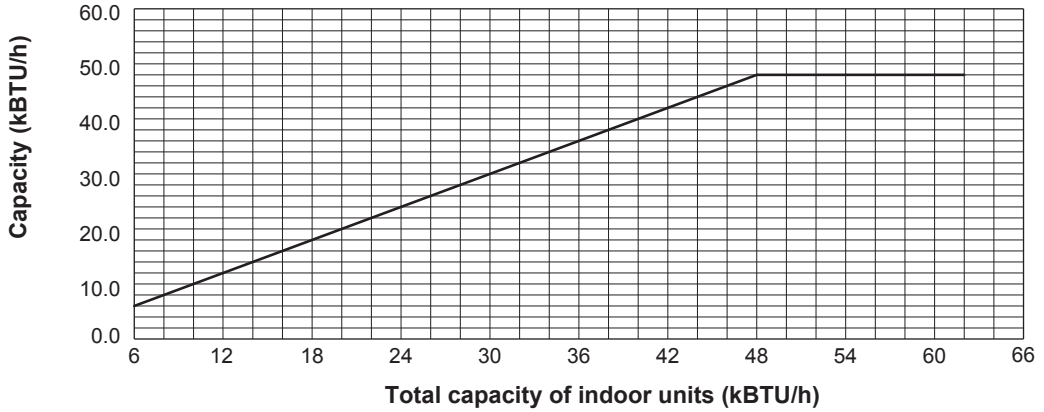
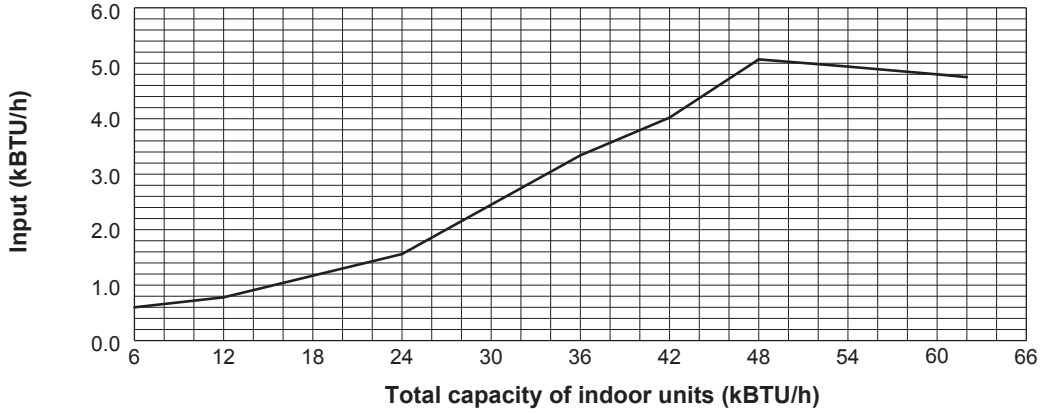
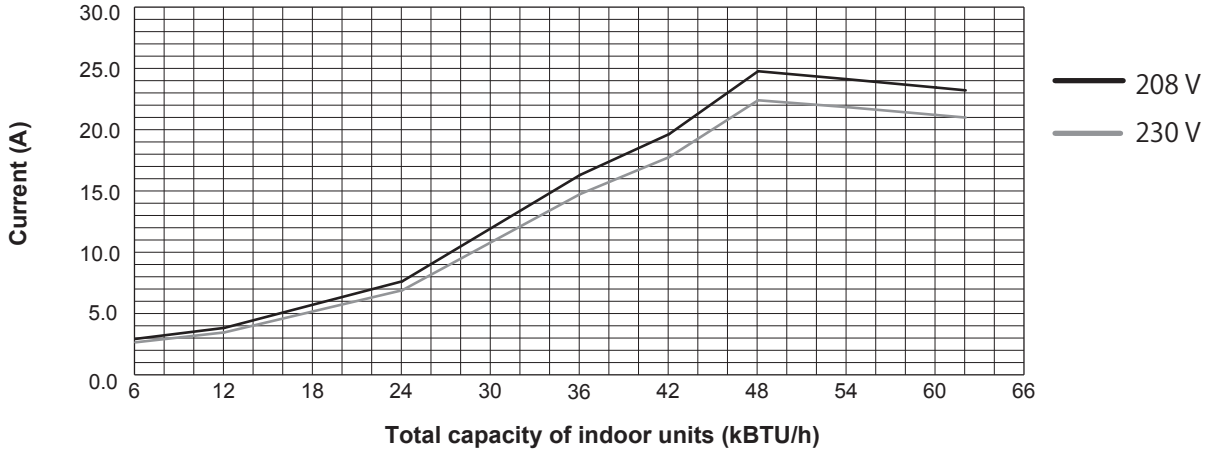
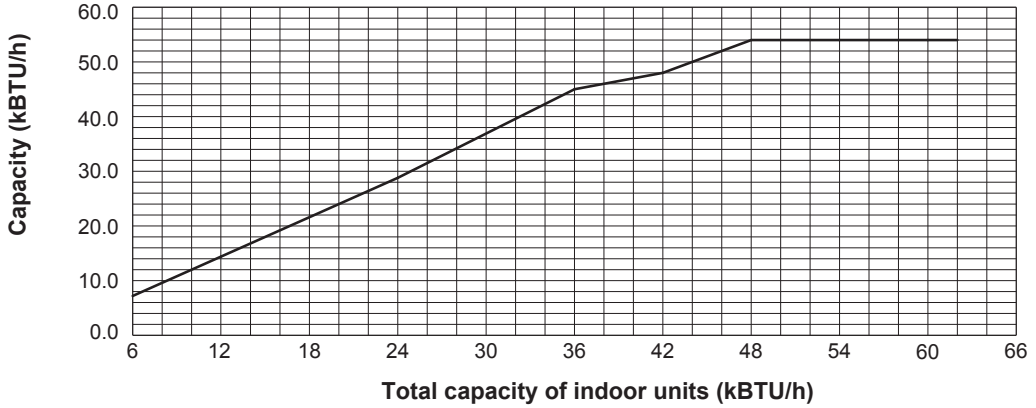
1-4-5. MXZ-8C48NAHZ <cooling>

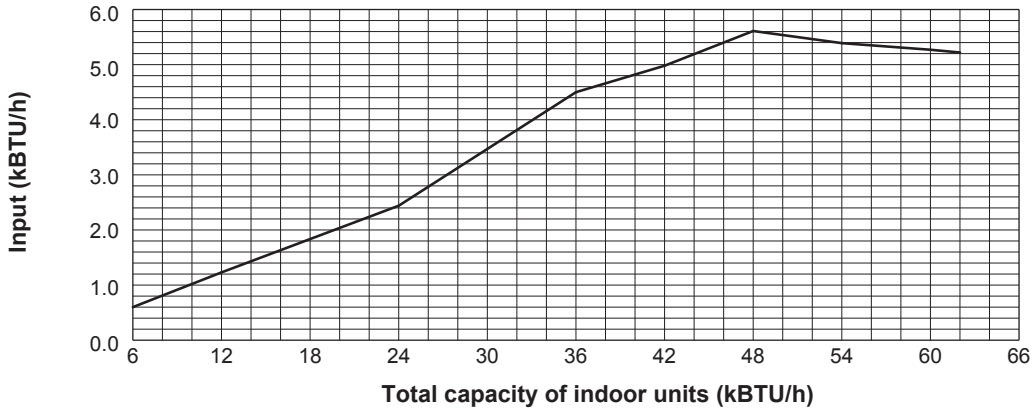


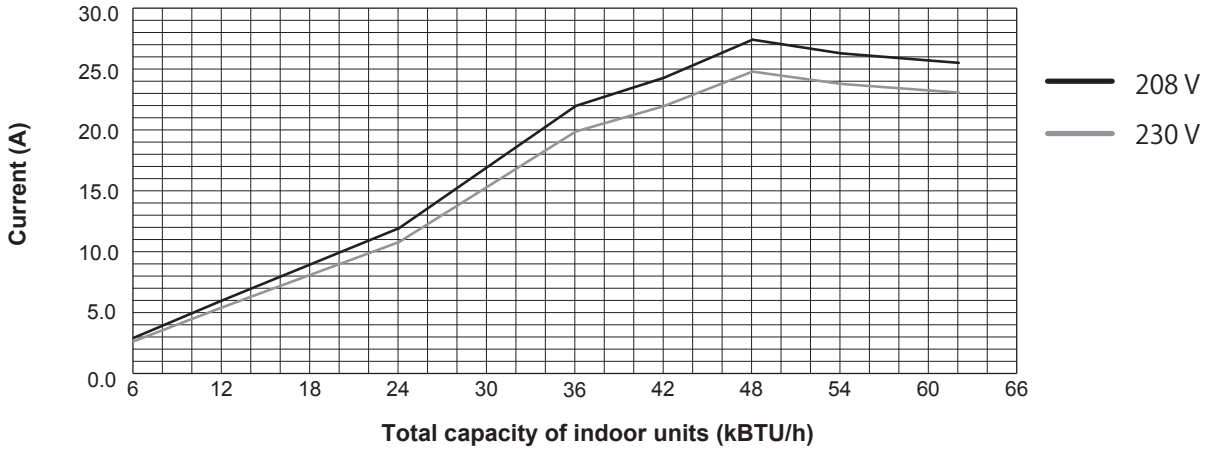




1-4-6. MXZ-8C48NAHZ <heating>





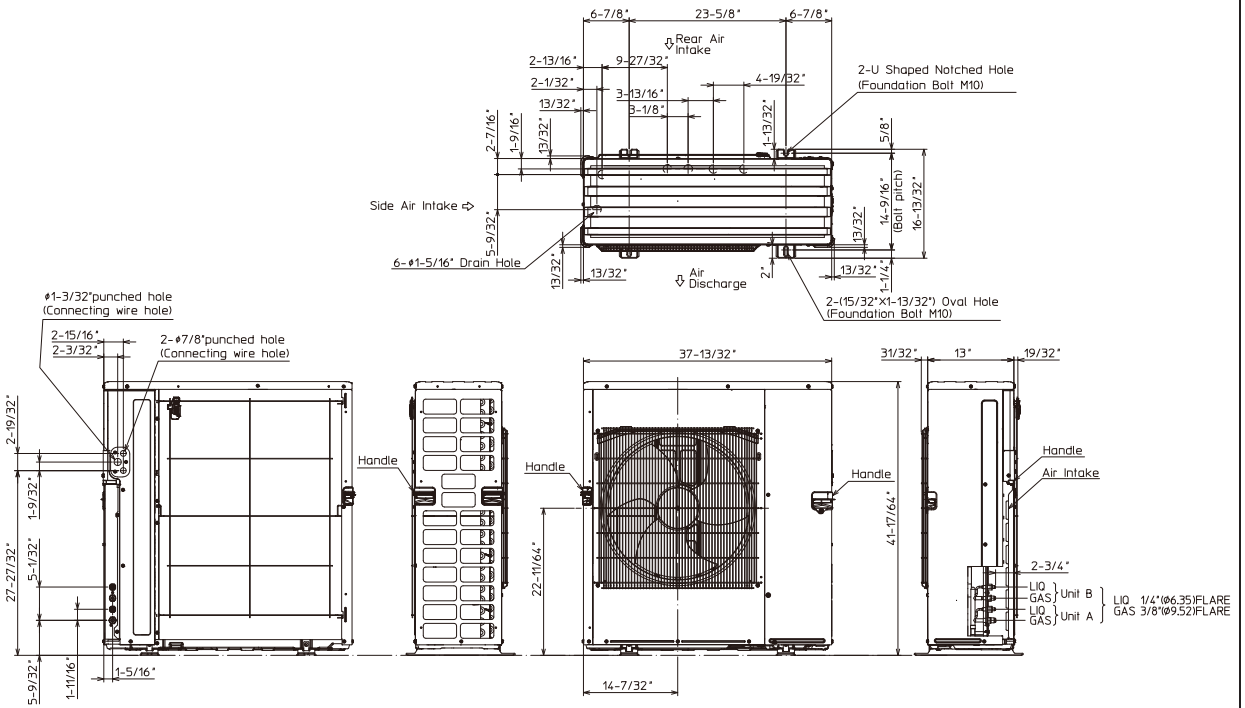


Due to continuing improvement, above specification may be subject to change without notice.

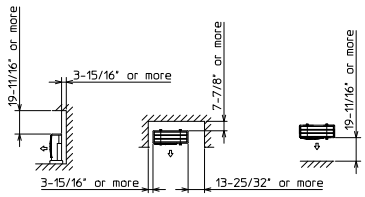
2. EXTERNAL DIMENSIONS

MXZ-2C20NAHZ

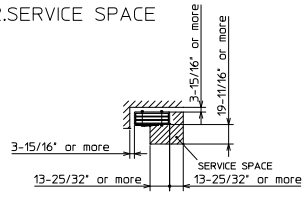
Unit: mm <in>



1.FREE SPACE



2.SERVICE SPACE

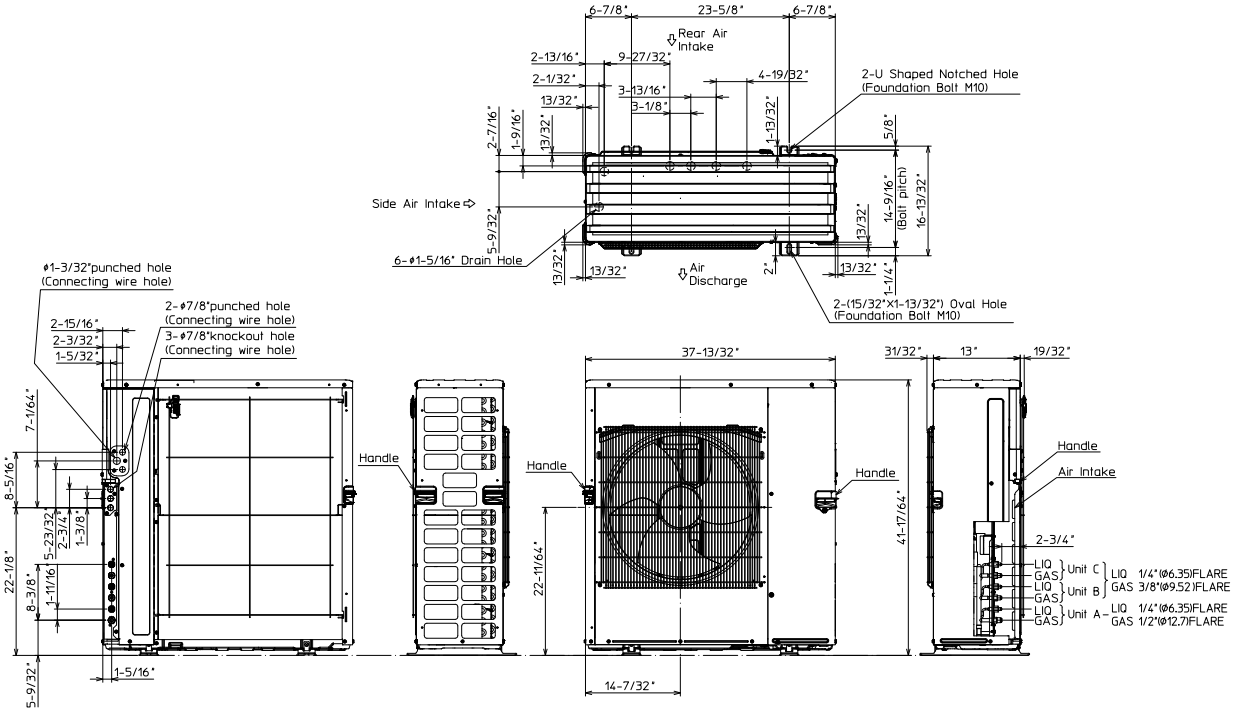


Due to continuing improvement, above specification may be subject to change without notice.

2. EXTERNAL DIMENSIONS

Unit: mm <in>

MXZ-3C24NAHZ MXZ-3C30NAHZ



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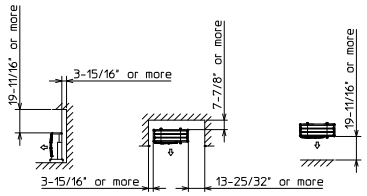

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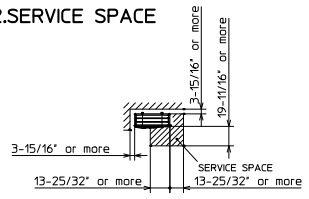
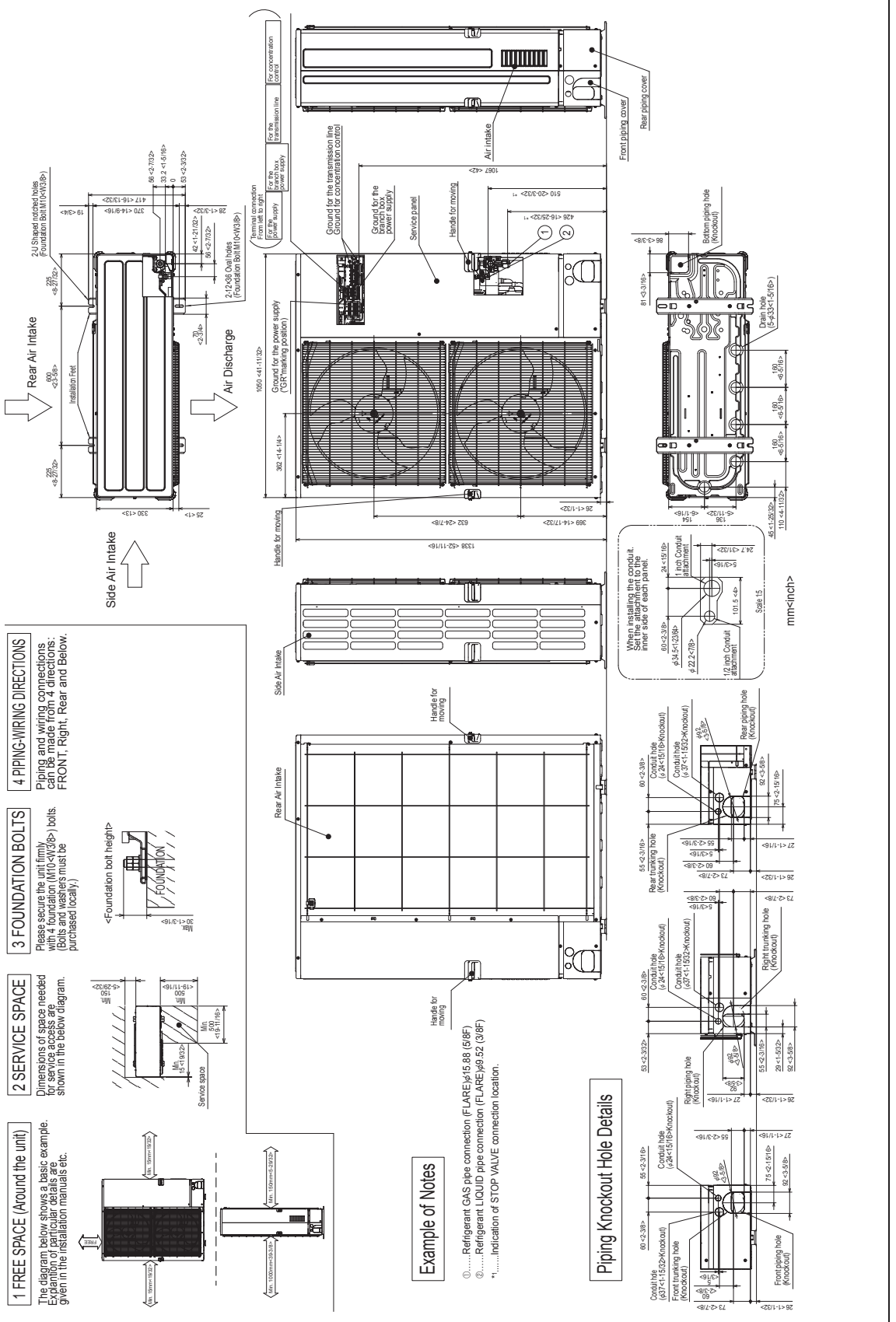


Due to continuing improvement, above specification may be subject to change without notice.

2. EXTERNAL DIMENSIONS

MXZ-4C36NAHZ MXZ-5C42NAHZ MXZ-8C48NAHZ

Unit: mm <in>



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2. EXTERNAL DIMENSIONS

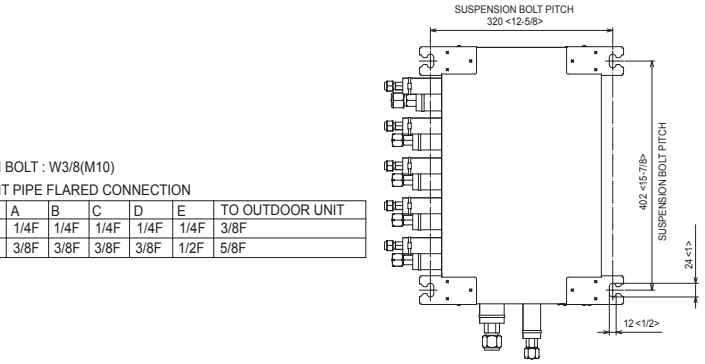
Branch Box
PAC-MKA50BC

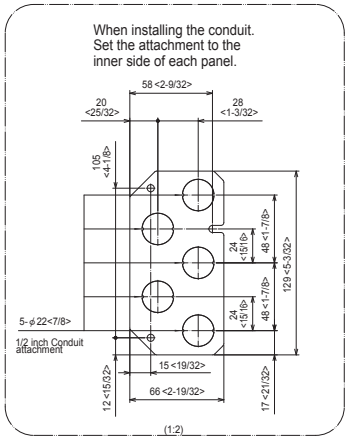
Unit: mm <in>

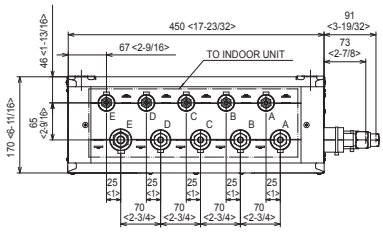
SUSPENSION BOLT : W3/8(M10)

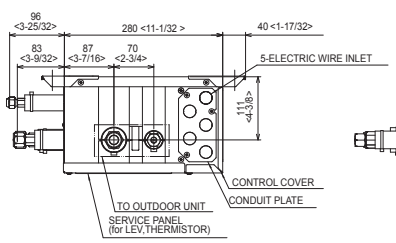
REFRIGERANT PIPE FLARED CONNECTION

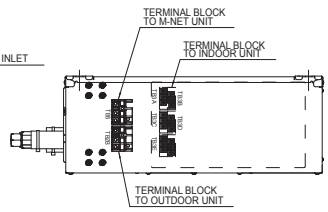
	A	B	C	D	E	TO OUTDOOR UNIT
LIQUID PIPE	1/4F	1/4F	1/4F	1/4F	1/4F	3/8F
GAS PIPE	3/8F	3/8F	3/8F	3/8F	1/2F	5/8F









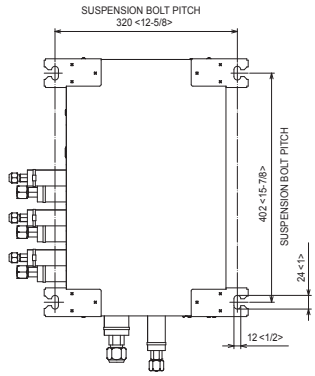


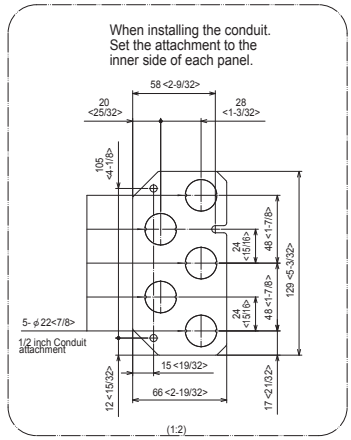
PAC-MKA30BC

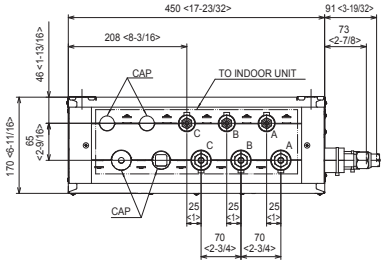
SUSPENSION BOLT : W3/8(M10)

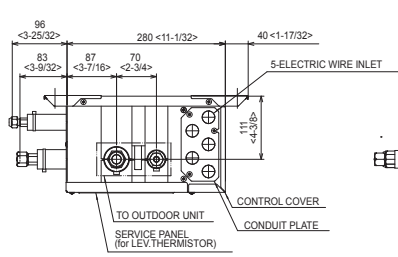
REFRIGERANT PIPE FLARED CONNECTION

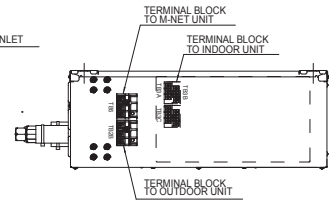
	A	B	C			TO OUTDOOR UNIT
LIQUID PIPE	1/4F	1/4F	1/4F			3/8F
GAS PIPE	3/8F	3/8F	3/8F			5/8F











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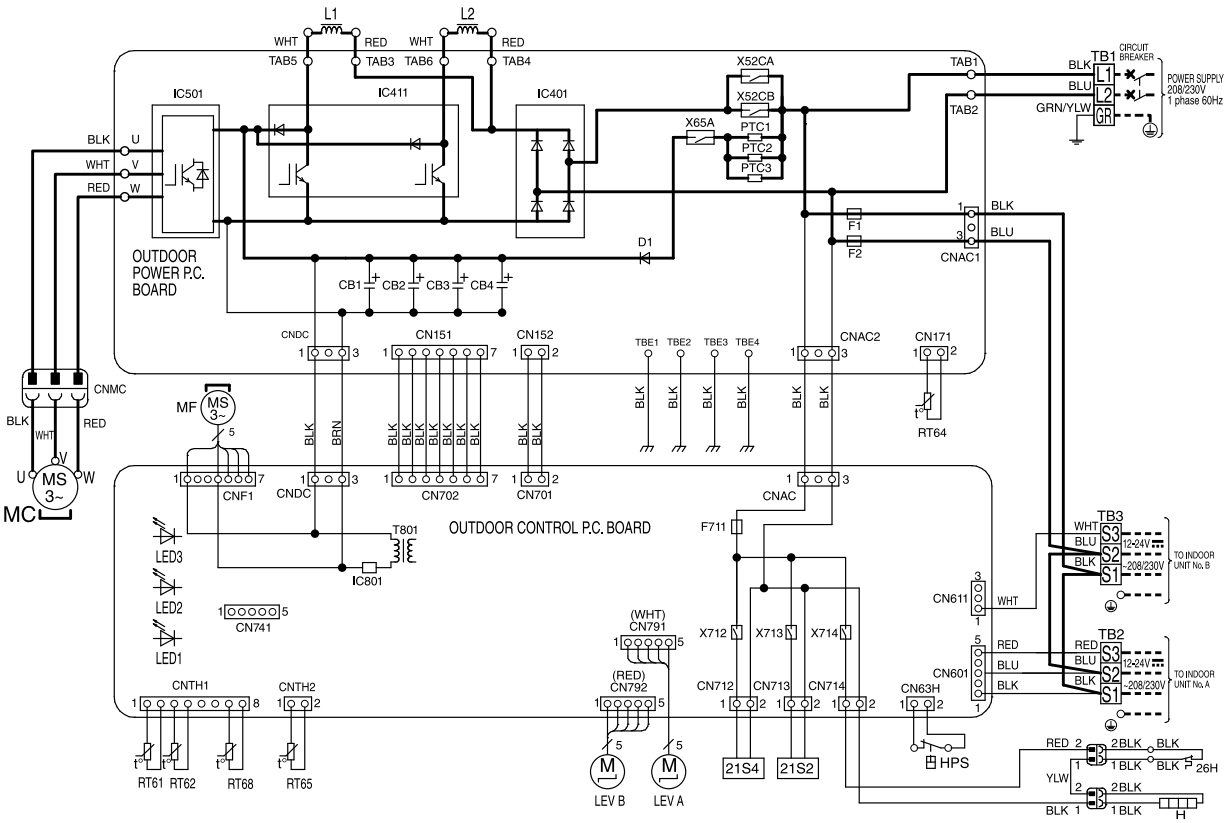
MXZ-2C20NAHZ



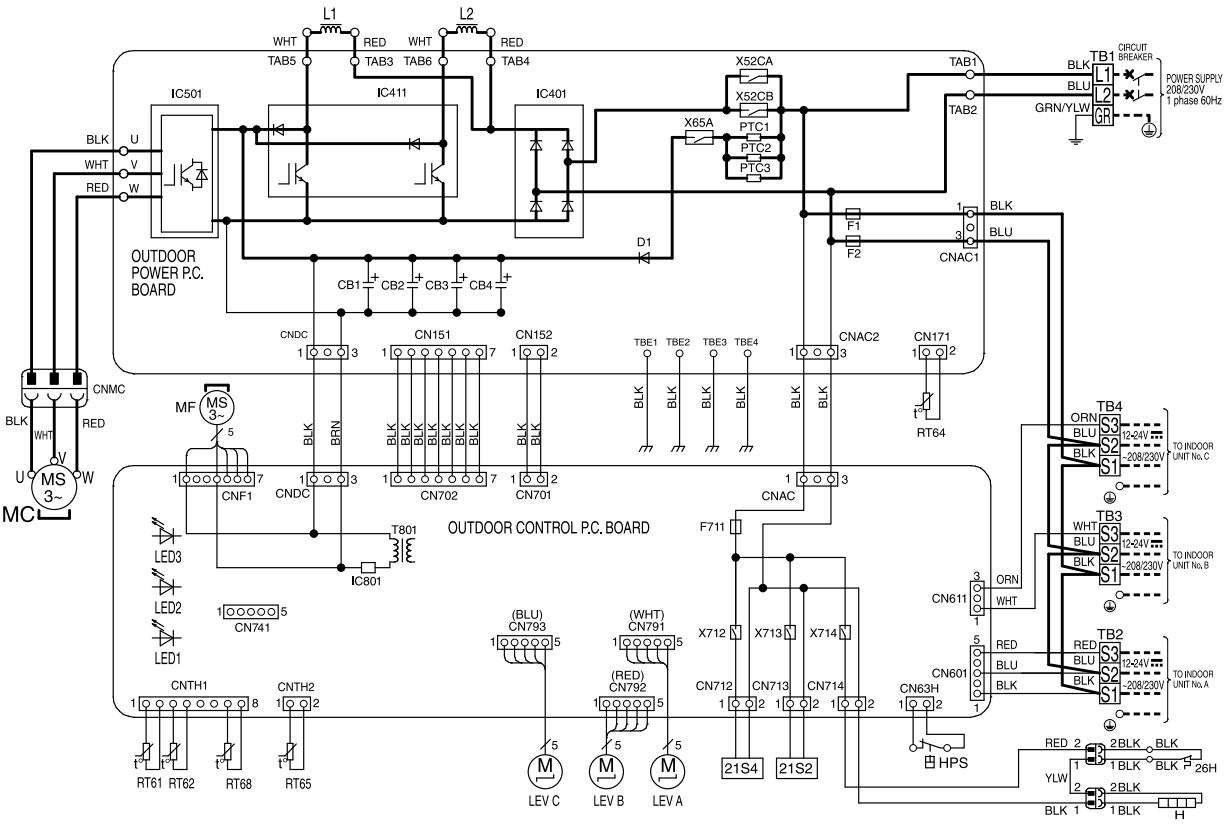
SYMBOL	NAME	SYMBOL	NAME
CB1~4	SMOOTHING CAPACITOR	L1, L2	REACTOR
D1	DIODE	LED 1~3	LED
F1, F2	FUSE (T6.3AL 250V)	LEV A, B	EXPANSION VALVE
F711	FUSE (T3.15AL 250V)	MC	COMPRESSOR
HPS	HIGH PRESSURE SWITCH	MF	FAN MOTOR
IC401	DIODE BRIDGE	T801	TRANSFORMER
IC411	POWER MODULE	TB1~3	TERMINAL BLOCK
IC501	POWER MODULE	X52CA, B	RELAY
IC801	POWER DEVICE	X65A	RELAY
PTC1~3	CIRCUIT PROTECTION	X712	RELAY
RT61	DEFROST THERMISTOR	X713	RELAY
RT62	DISCHARGE TEMP. THERMISTOR	X714	RELAY
RT64	FIN TEMP. THERMISTOR	21S2	2WAY VALVE SOLENOID COIL
RT65	AMBIENT TEMP. THERMISTOR	21S4	REVERSING VALVE SOLENOID COIL
RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR	26H	HEATER PROTECTOR
		H	DEFROST HEATER

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
   ⊡⊡⊡: connector

NOTES:
1. À propos du câblage électrique de côté intérieur se référer à l'unité intérieure câblage schéma électrique pour l'entretien.
2. Utiliser des conducteurs en cuivre (pour le câblage).
3. Symbole ci-dessous indique.
   □□□:bornier
   ⊡⊡⊡:connecteur

Due to continuing improvement, above specification may be subject to change without notice.

MXZ-3C24NAHZ MXZ-3C30NAHZ



SYMBOL	NAME	SYMBOL	NAME
CB1~4	SMOOTHING CAPACITOR	L1, L2	REACTOR
D1	DIODE	LED 1~3	LED
F1, F2	FUSE (T6.3AL 250V)	LEV A~C	EXPANSION VALVE
F711	FUSE (T3.15AL 250V)	MC	COMPRESSOR
HPS	HIGH PRESSURE SWITCH	MF	FAN MOTOR
IC401	DIODE BRIDGE	T801	TRANSFORMER
IC411	POWER MODULE	TB1~4	TERMINAL BLOCK
IC501	POWER MODULE	X52CA, B	RELAY
IC801	POWER DEVICE	X65A	RELAY
PTC1~3	CIRCUIT PROTECTION	X712	RELAY
RT61	DEFROST THERMISTOR	X713	RELAY
RT62	DISCHARGE TEMP. THERMISTOR	X714	RELAY
RT64	FIN TEMP. THERMISTOR	21S2	2WAY VALVE SOLENOID COIL
RT65	AMBIENT TEMP. THERMISTOR	21S4	REVERSING VALVE SOLENOID COIL
RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR	26H	HEATER PROTECTOR
		H	DEFROST HEATER

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
   : connector

NOTES:
1. À propos du câblage électrique de côté intérieur se référer à l'unité intérieure câblage schéma électrique pour l'entretien.
2. Utiliser des conducteurs en cuivre (pour le câblage).
3. Symbole ci-dessous indique.
   :bornier
   :connecteur

Due to continuing improvement, above specification may be subject to change without notice.

MXZ-4C36NAHZ MXZ-5C42NAHZ MXZ-8C48NAHZ

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block (Power Supply)	TH6	Thermistor (Suction Pipe)	SW7	Switch (Function Selection)
TB1B	Terminal Block (Branch Box)	TH7	Thermistor (Ambient)	SW8	Switch (Model Selection)
TB3	Terminal Block (Branch box/Outdoor Transmission Line)	TH8	Thermistor (Heat Sink)	SW9	Switch (Function Selection)
		LEV-A,LEV-B	Electronic Expansion Valve	SWU1	Switch (Unit Address Selection, 1st digit)
TB7	Terminal Block (Centralized Control Transmission Line)	DCL	Reactor	SWU2	Switch (Unit Address Selection, 2nd digit)
		P.B.	Power Circuit Board	CNS1	Connector (Branch box/Outdoor Transmission Line)
FUSE1,FUSE2	Fuse (T20A/L250V)	U/V/W	Connection Terminal (U/V/W-Phase)	CNS2	Connector (Centralized Control Transmission Line)
MC	Motor For Compressor	Li	Connection Terminal (L-Phase)	SS	Connector (Base heater)
MF1,MF2	Fan Motor	Ni	Connection Terminal (N-Phase)	CN3D	Connector (Connection For Option)
21S4	Solenoid Valve (Four-Way Valve)	DCL1,DCL2	Connection Terminal (Reactor)	CN3S	Connector (Connection For Option)
63H	High Pressure Switch	IGBT	Power Module	CN3N	Connector (Connection For Option)
63HS	High Pressure Sensor	E1,E2, E3,E4	Connection Terminal (Ground)	CN51	Connector (Connection For Option)
63LS	Low Pressure Sensor	MULTI.B.	Controller Circuit Board	LED1,LED2	LED (Operation Inspection Display)
SV1	Solenoid Valve (Bypass Valve)	SW1	Switch (Display Selection)	LED3	LED (Power Supply to Main Microcomputer)
SV2	Solenoid Valve (Switching Valve)	SW2	Switch (Function Selection)	F1,F2	Fuse (T6.3AL250V)
BH	Base heater	SW3	Switch (Test Run)	X501~505	Relay
TH2	Thermistor (Hic Pipe)	SW4	Switch (Model Selection)	M-NET P.B.	M-NET Power Circuit Board
TH3	Thermistor (Outdoor Liquid Pipe)	SW5	Switch (Function Selection)	TB1	ConnectionTerminal (Ground)
TH4	Thermistor (Compressor)	SW6	Switch (Function Selection)		

- During normal operation
  The LED indicates the drive state of the controller in the outdoor unit.

Bit	1	2	3	4	5	6	7	8
Indication	Compressor operated	52C	21S4	SV1	SV2	—	—	Always lit

- When fault requiring inspection has occurred
  The LED alternately indicates the inspection code and the location of the unit in which the fault has occurred.

Check code	Trouble	Check code	Trouble	Check code	Trouble
0403	Serial transmission trouble	4400	Fan controller trouble (Outdoor)	6602	Transmission error (Transmission processor hardware error)
1102	Compressor temperature trouble	5101	Air inlet sensor trouble (TH21) or		
1302	High pressure trouble		Compressor temperature sensor trouble (TH4)	6603	Transmission error (Transmission route BUSY)
1500	Excessive refrigerant replenishment	5102	Liquid pipe temp.sensor trouble (TH22) or	6606	Transmission and reception error (Communication trouble with transmission processor)
1501	Insufficient refrigerant trouble		Suction pipe temperature sensor trouble (TH6)	6607	Transmission and reception error (No ACK error)
	Blocked valve in cooling mode	5103	Gas pipe temperature sensor trouble (TH23)	6608	Transmission and reception error (No responsive frame error)
1508	Four-way valve disconnection trouble	5105	Piping temperature sensor trouble (TH5)		
2502	Drain pump trouble	5106	Ambient temperature sensor trouble (TH7)	7100	Total capacity error
2503	Drain sensor trouble (TH4)	5109	HIC piping temperature sensor trouble (TH2)	7101	Capacity code error
4100	Overcurrent trouble (Overload, compressor lock)	5110	IGBT heat sink temperature sensor trouble (TH8)	7102	Connecting unit number error
4116	Fan controller trouble (Indoor unit)	5201	High Pressure sensor trouble (63HS)	7105	Address set error
4210	Compressor overcurrent trouble	5202	Low Pressure sensor trouble (63LS)	7111	Remote controller sensor trouble
4220	Inverter trouble	5300	Current sensor trouble	7130	Combination error
4230	Overheat protection of heat sink	6600	Duplicated unit address setting		
4250	Power module trouble or Overcurrent trouble				

[Example]
When the compressor and SV1 are turned during cooling operation.

Caution for electrical work

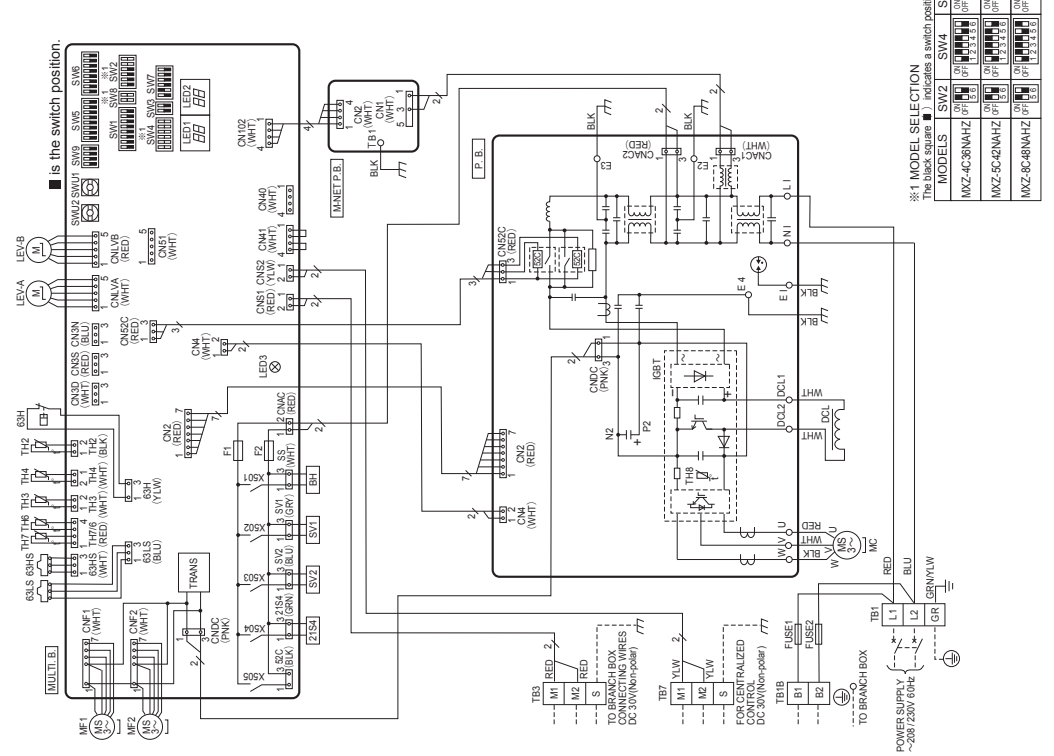
- Use copper supply wires.

Cautions when servicing

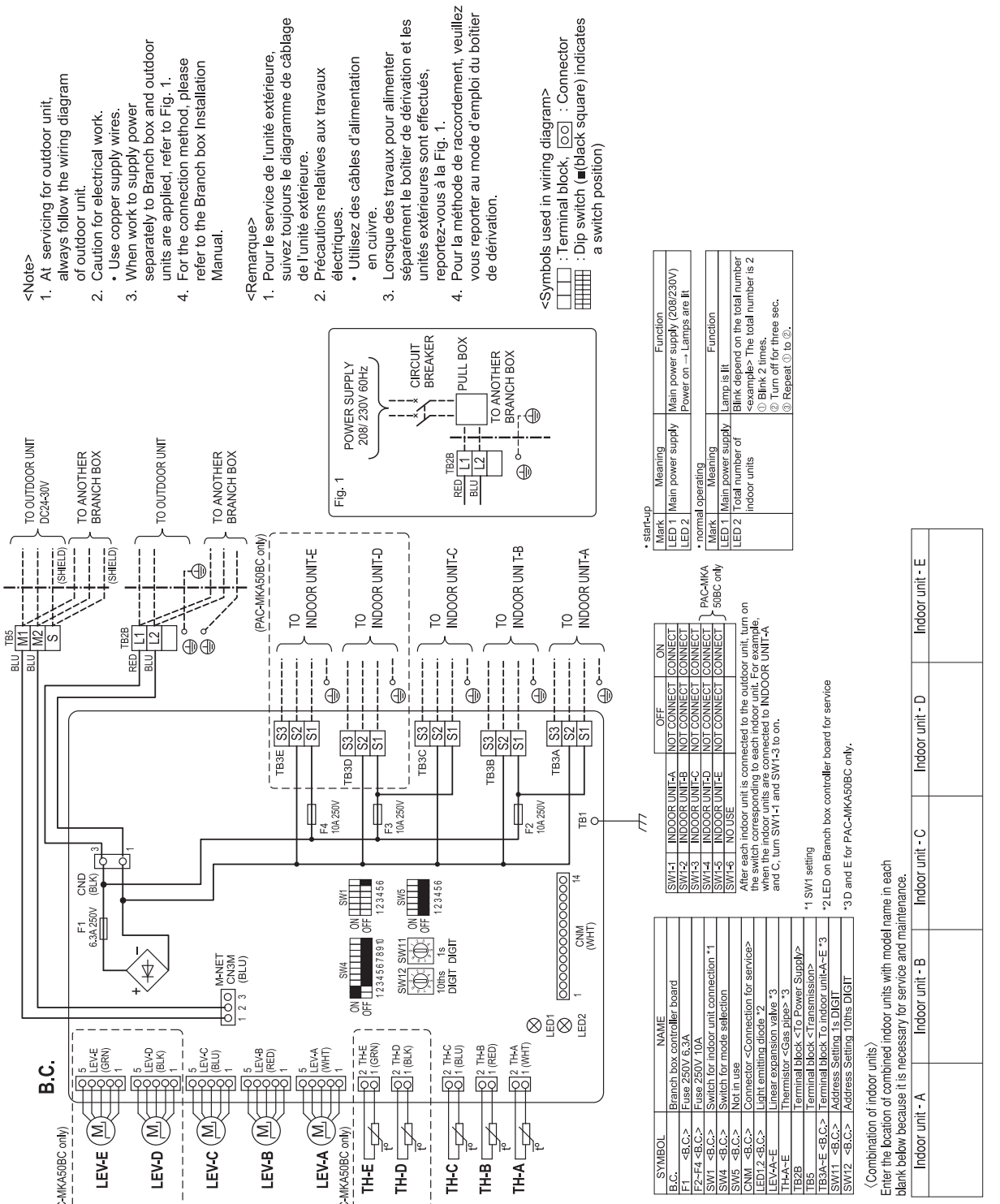
⚠ WARNING: When the main supply is turned off, the voltage [340 V] in the main capacitor will drop to 20 V in approx. 2 minutes (input voltage: 230 V). When servicing, make sure that LED1, LED2 on the outdoor circuit board goes out, and then wait for at least 1 minute.

- Components other than the outdoor board may be faulty: Check and take corrective action, referring to the service manual. Do not replace the outdoor board without checking.

NOTES:
1. Refer to the wiring diagrams of the indoor units for details on wiring of each indoor unit.
2. Self-diagnosis function
   The indoor and outdoor units can be diagnosed automatically using the self-diagnosis switch (SW1) and LED1, LED2 (LED indication) found on the multi-controller of the outdoor unit.
   LED indication : Set all contacts of SW1 to OFF.



Branch Box
PAC-MKA50BC PAC-MKA30BC



<Note>
1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. Caution for electrical work.
   • Use copper supply wires.
3. When work to supply power separately to Branch box and outdoor units are applied, refer to Fig. 1.
4. For the connection method, please refer to the Branch box Installation Manual.

<Remarque>
1. Pour le service de l'unité extérieure, suivez toujours le diagramme de câblage de l'unité extérieure.
2. Précautions relatives aux travaux électriques.
   • Utilisez des câbles d'alimentation en cuivre.
3. Lorsque des travaux pour alimenter séparément le boîtier de dérivation et les unités extérieures sont effectués, reportez-vous à la Fig. 1.
4. Pour la méthode de raccordement, veuillez vous reporter au mode d'emploi du boîtier de dérivation.

<Symbols used in wiring diagram>
: Terminal block, : Connector
: Dip switch (■black square) indicates a switch position)

SYMBOL	NAME
B.C.	Branch box controller board
F1 <B.C.>	Fuse 250V 6.3A
F2~F4 <B.C.>	Fuse 250V 10A
SW1 <B.C.>	Switch for indoor unit connection *1
SW4 <B.C.>	Switch for mode selection
SW5 <B.C.>	Not in use
CNM <B.C.>	Connector <Connection for service>
LED1,2 <B.C.>	Light emitting diode *2
LEV-A~E	Linear expansion valve *3
TH-A~E	Thermistor <Gas pipe> *3
TB2B	Terminal block <To Power Supply>
TB5	Terminal block <Transmission>
TB3A~E <B.C.>	Terminal block To indoor unit-A~E *3
SW11 <B.C.>	Address Setting 1s DIGIT
SW12 <B.C.>	Address Setting 10ths DIGIT

	OFF	ON
SW1-1	INDOOR UNIT-A	NOT CONNECT CONNECT
SW1-2	INDOOR UNIT-B	NOT CONNECT CONNECT
SW1-3	INDOOR UNIT-C	NOT CONNECT CONNECT
SW1-4	INDOOR UNIT-D	NOT CONNECT CONNECT
SW1-5	INDOOR UNIT-E	NOT CONNECT CONNECT
SW1-6	NO USE	

PAC-MKA 50BC only

After each indoor unit is connected to the outdoor unit, turn on the switch corresponding to each indoor unit. For example, when the indoor units are connected to INDOOR UNIT-A and C, turn SW1-1 and SW1-3 to on.

*1 SW1 setting

*2 LED on Branch box controller board for service

*3 D and E for PAC-MKA50BC only.

• start-up

Mark	Meaning	Function
LED 1	Main power supply	Main power supply (208/230V)
LED 2		Power on → Lamps are lit

• normal operating

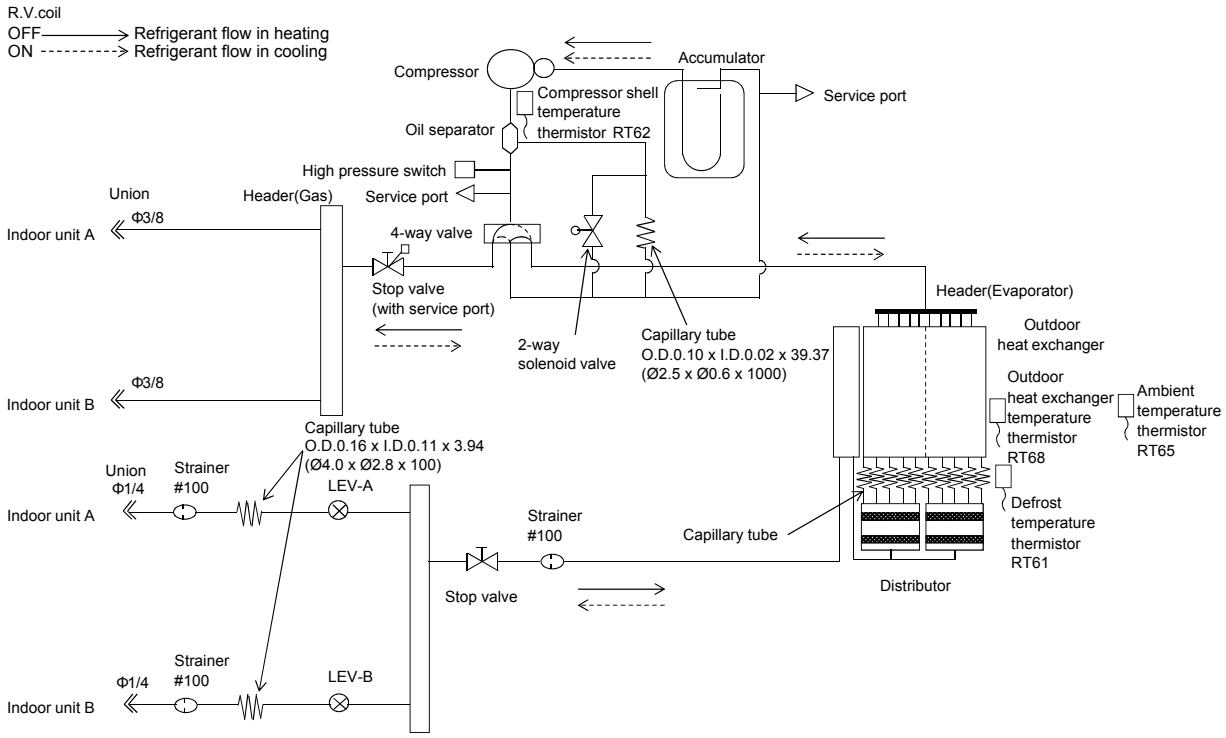
Mark	Meaning	Function
LED 1	Main power supply	Lamp is lit
LED 2	Total number of indoor units	Blink depend on the total number <example> The total number is 2 ① Blink 2 times. ② Turn off for three sec. ③ Repeat ① to ②.

〈Combination of indoor units〉
Enter the location of combined indoor units with model name in each blank below because it is necessary for service and maintenance.

Indoor unit - A	Indoor unit - B	Indoor unit - C	Indoor unit - D	Indoor unit - E

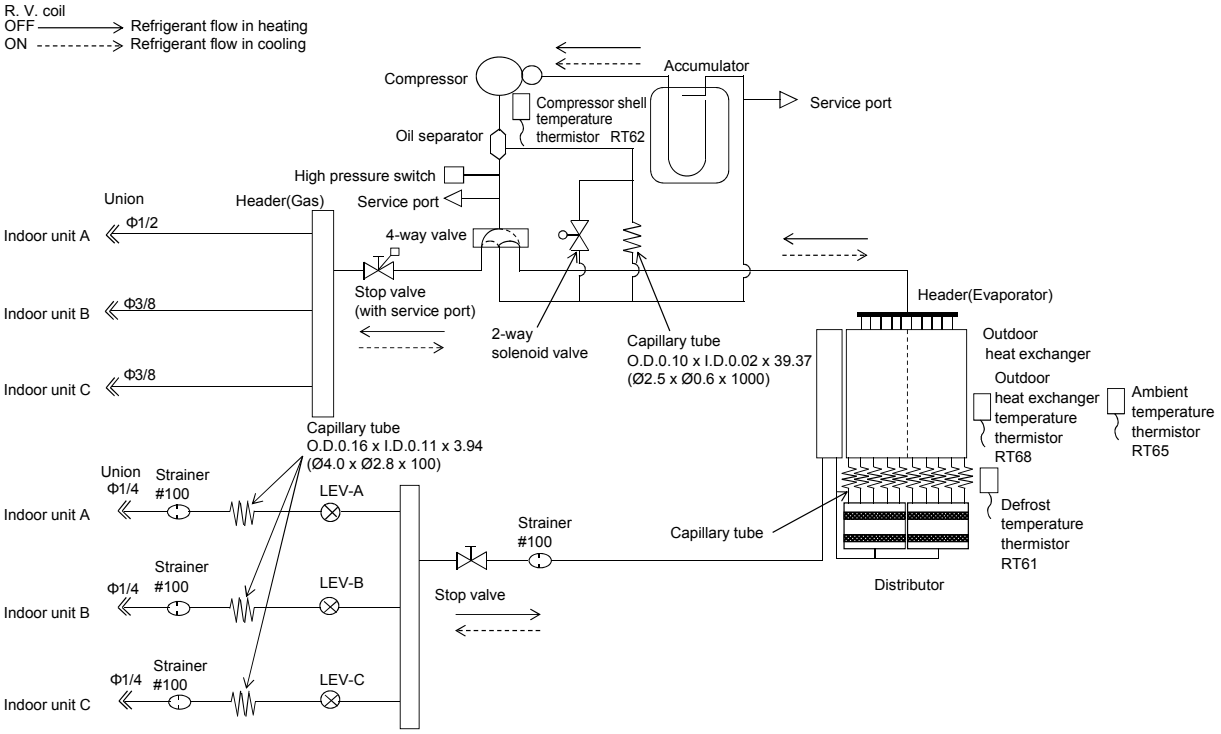
Due to continuing improvement, above specification may be subject to change without notice.

MXZ-2C20NAHZ



Due to continuing improvement, above specification may be subject to change without notice.

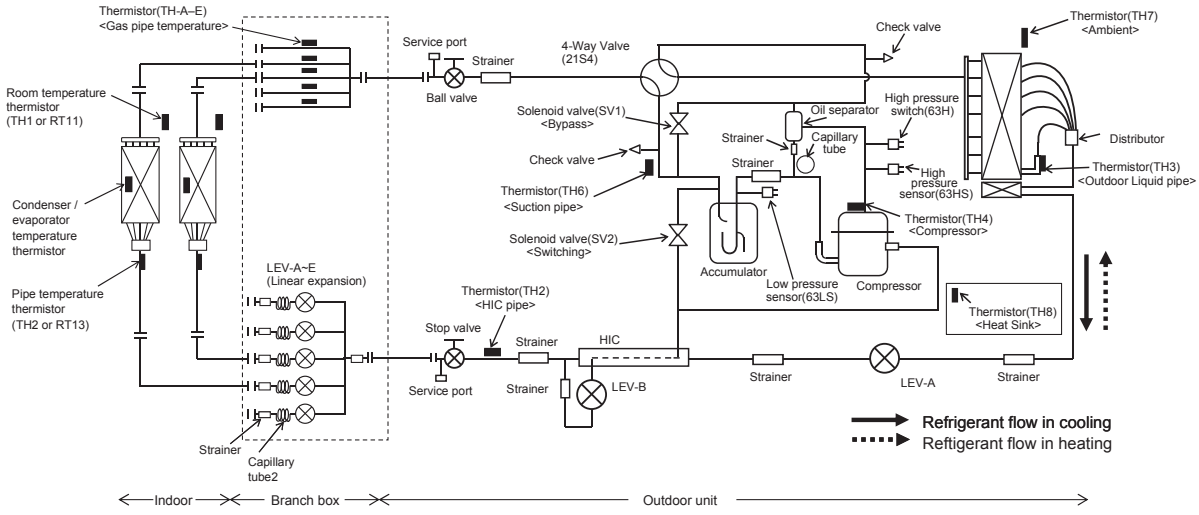
MXZ-3C24NAHZ MXZ-3C30NAHZ



Due to continuing improvement, above specification may be subject to change without notice.

5. REFRIGERANT SYSTEM DIAGRAMS

MXZ-4C36NAHZ MXZ-5C42NAHZ MXZ-8C48NAHZ



Unit: in (mm)

		Capillary tube 1 (For return of oil from oil separator)	Capillary tube 2 behind LEV (in cooling mode)
Outdoor unit	MXZ-4C36NAHZ MXZ-5C42NAHZ MXZ-8C48NAHZ	ϕ0.098 × ϕ0.031 × L(39-1/2) (ϕ2.5 × ϕ0.8 × L1000)	
Branch box	PAC-MKA50BC	———	(ϕ0.157 × ϕ0.117 × L(5-1/8)) × 5 ((ϕ4 × ϕ3.0 × L130) × 5)
	PAC-MKA30BC	———	(ϕ0.157 × ϕ0.117 × L(5-1/8)) × 3 ((ϕ4 × ϕ3.0 × L130) × 3)

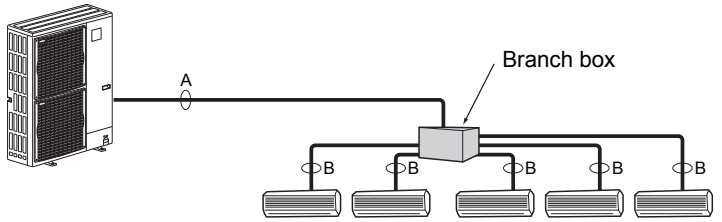
Due to continuing improvement, above specification may be subject to change without notice.

Piping Connection Size
MXZ-4C36NAHZ MXZ-5C42NAHZ MXZ-8C48NAHZ

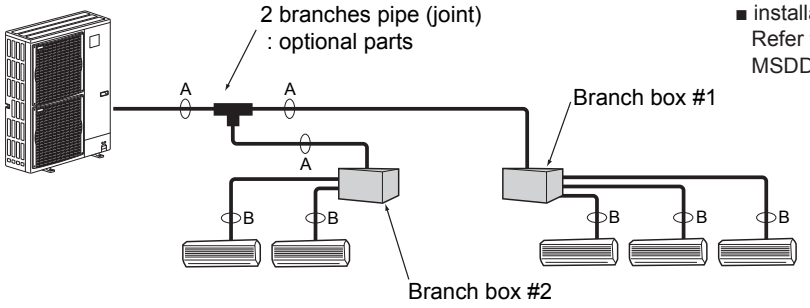
	A	B
Liquid (mm)	ϕ9.52	The pipe connection size differs according to the type and capacity of indoor units. Match the piping connection size of branch box with indoor unit. If the piping connection size of branch box does not match the piping connection size of indoor unit, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)
Gas (mm)	ϕ15.88	

■ In case of using 1-branch box

Flare connection employed (No. brazing)



■ In case of using 2-branch boxes



■ installation procedure (2 branch pipe (joint))
Refer to the installation manuals of MSDD-50AR-E and MSDD-50BR-E.

Due to continuing improvement, above specification may be subject to change without notice.

6. CAPACITY CORRECTION CURVE BY TEMPERATURE

DUE TO CONTINUING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS AND DATA ARE STILL UNDER REVIEW

Due to continuing improvement, above specification may be subject to change without notice.

7. CAPACITY CORRECTION TABLE BY TEMPERATURE

DUE TO CONTINUING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS AND DATA ARE STILL UNDER REVIEW

Due to continuing improvement, above specification may be subject to change without notice.

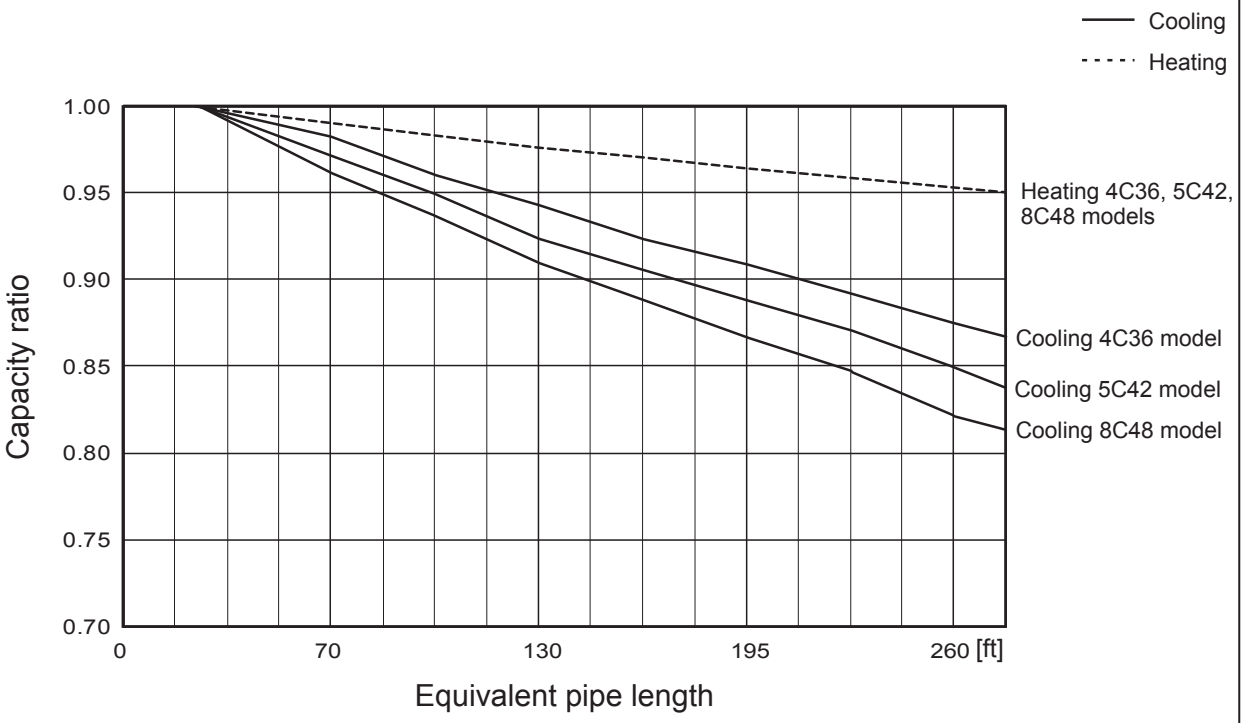
8. CAPACITY CORRECTION CURVE BY REFRIGERANT PIPING LENGTH

MXZ-4C36NAHZ MXZ-5C42NAHZ MXZ-8C48NAHZ

(1) During cooling, obtain the ratio (and the equivalent piping length) of the outdoor units rated capacity and the total in-use indoor capacity, and find the capacity ratio corresponding to the standard piping length from Figure 3. Then multiply by the cooling capacity from Figure 1 to obtain the actual capacity.
(2) During heating, find the equivalent piping length, and find the capacity ratio corresponding to standard piping length from Figure 3. Then multiply by the heating capacity from Figure 2 to obtain the actual capacity.

Capacity Correction Factor

Fig. 1 Capacity correction curve



Due to continuing improvement, above specification may be subject to change without notice.

9. CAPACITY CORRECTION TABLE BY REFRIGERANT PIPING LENGTH

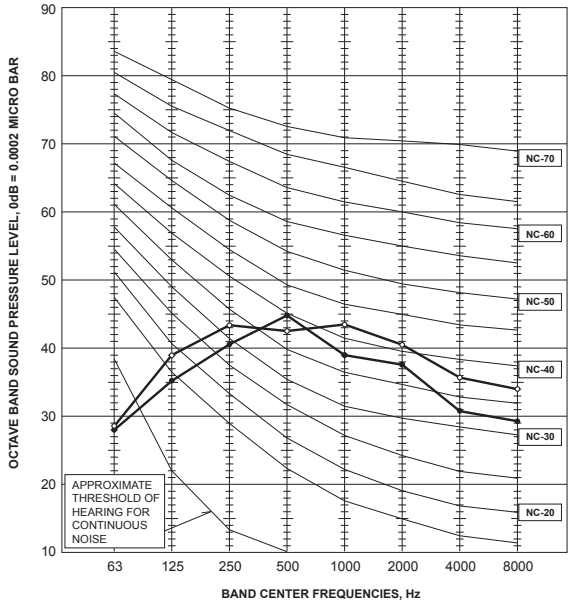
DUE TO CONTINUING RESEARCH AND PRODUCT IMPROVEMENT, SPECIFICATIONS AND DATA ARE STILL UNDER REVIEW

Due to continuing improvement, above specification may be subject to change without notice.

10. SOUND PRESSURE LEVELS

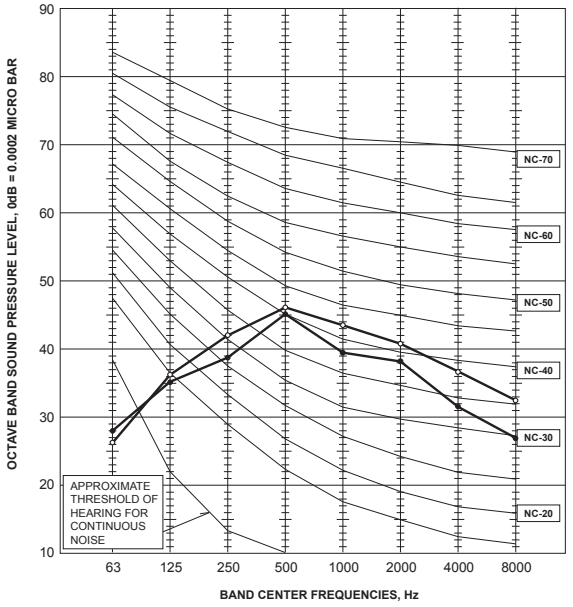
MXZ-2C20NAHZ

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	54	●—●
High	Heating	58	○—○



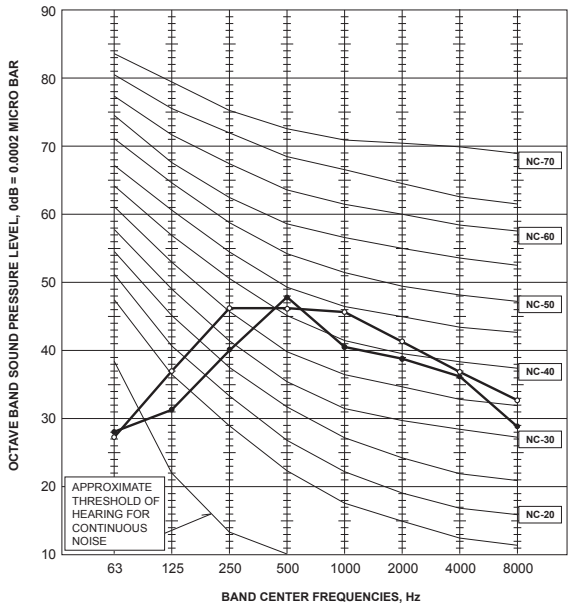
MXZ-3C24NAHZ

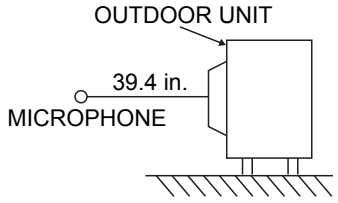
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	54	●—●
High	Heating	58	○—○



MXZ-3C30NAHZ

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	Cooling	54	●—●
High	Heating	58	○—○





Test conditions

Cooling: Dry-bulb temperature 95°F Wet-bulb temperature 75°F

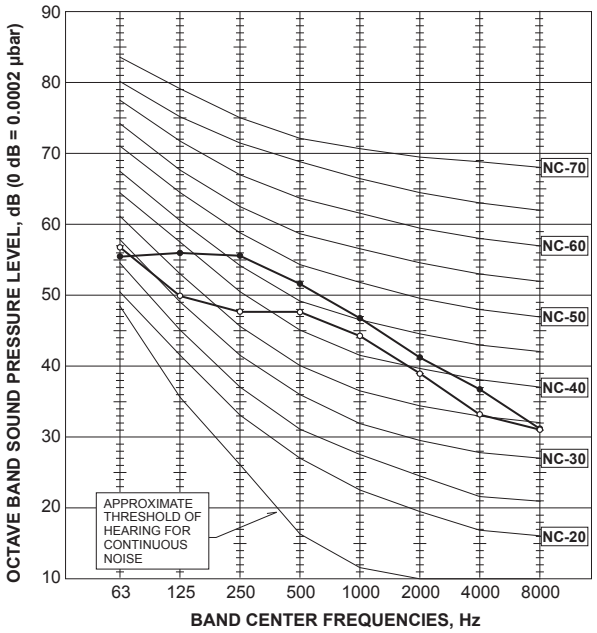
Heating: Dry-bulb temperature 45°F Wet-bulb temperature 43°F

Due to continuing improvement, above specification may be subject to change without notice.

10. SOUND PRESSURE LEVELS

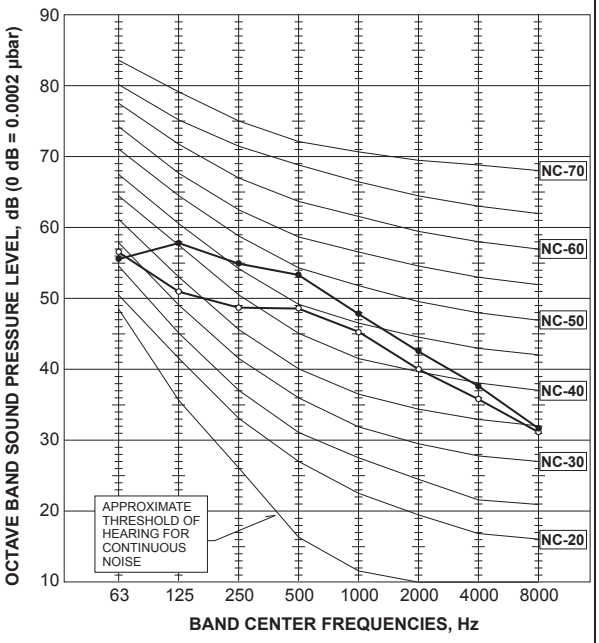
MXZ-4C36NAHZ

MODE	SPL(dB)	LINE
COOLING	49	○—○
HEATING	53	●—●



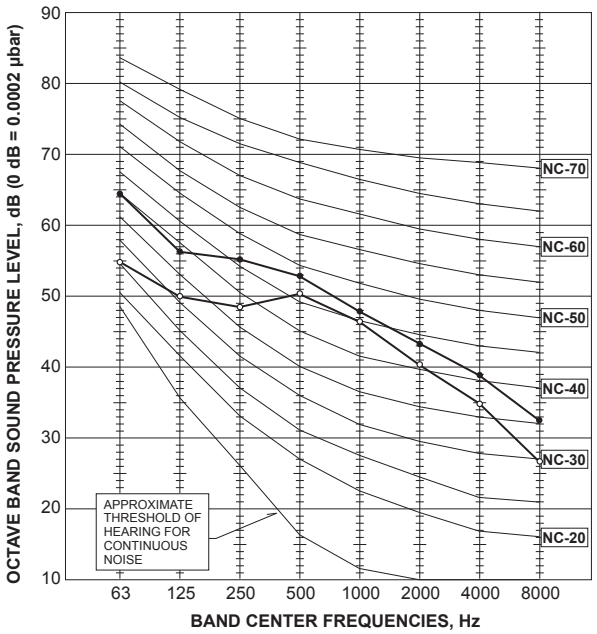
MXZ-5C42NAHZ

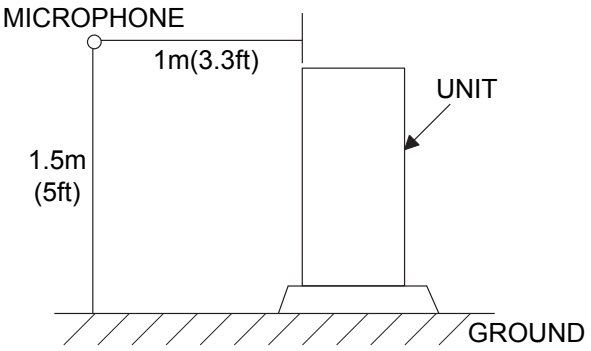
MODE	SPL(dB)	LINE
COOLING	50	○—○
HEATING	54	●—●



MXZ-8C48NAHZ

MODE	SPL(dB)	LINE
COOLING	51	○—○
HEATING	54	●—●





Due to continuing improvement, above specification may be subject to change without notice.

11. STANDARD OPERATION RANGE

MXZ-2C20NAHZ MXZ-3C24NAHZ MXZ-3C30NAHZ

	Model	Rating	Guaranteed Voltage
Outdoor unit	MXZ-2C20NAHZ MXZ-3C24NAHZ MXZ-3C30NAHZ	208/230 V 60 Hz 1ϕ	Min. 198 V 208 V 230 V Max. 253 V

Due to continuing improvement, above specification may be subject to change without notice.

12. ACCESSORIES

Part Number	Descriptions	Applicable model
BV12FFSI2	Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/2" size	4C36, 5C42, 8C48NAHZ and branch boxes
BV14FFSI2	Refrigeration Ball Valve-Flare/Schrader/Insulated - 1/4" size	
BV38FFSI2	Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" size	
BV58FFSI2	Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" size	All Models
CWMB1	4 piece (1 pair) condensing unit wall mounting brackets - painted steel	
DSD-400P	Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic	
MSDD-50AR-E	Flared Connections for connecting two branch boxes	4C36, 5C42, 8C48NAHZ
MSDD-50BR-E	Brazed Connections for connecting two branch boxes	
MAC-A454JP-E	Port Adapter size: 3/8" X 1/2"	2C20, 3C24, 3C30, 4C36, 5C42, 8C48NAHZ
MAC-A455JP-E	Port Adapter size: 1/2" X 3/8"	3C24, 3C30, 4C36, 5C42, 8C48NAHZ
MAC-A456JP-E	Port Adapter size: 1/2" X 5/8"	
PAC-493PI	Port Adapter size: 1/4" x 3/8"	3C30, 4C36, 5C42, 8C48NAHZ
PAC-IF01MNT-E	M-NET Adapter	All Models
ULTRILITE2	Condensing Unit Mounting Pad 24" x 42" x 3"	

Due to continuing improvement, above specification may be subject to change without notice.

12. ACCESSORIES

Part Number	Descriptions	Applicable model
PAC-MKA30BC	Three Port Branch Box	4C36, 5C42, 8C48NAHZ
PAC-MKA50BC	Five Port Branch Box	
PAC-SG76RJ	3/8” x 5/8” Port Adapter	3C30, 4C36, 5C42, 8C48NAHZ
PAC-SG60DS-E	Drain Socket	2C20, 3C24, 3C30NAHZ
PAC-SH71DS-E	Drain Socket	4C36, 5C42, 8C48NAHZ
PAC-SH96SG-E	Airflow Guide	All Models