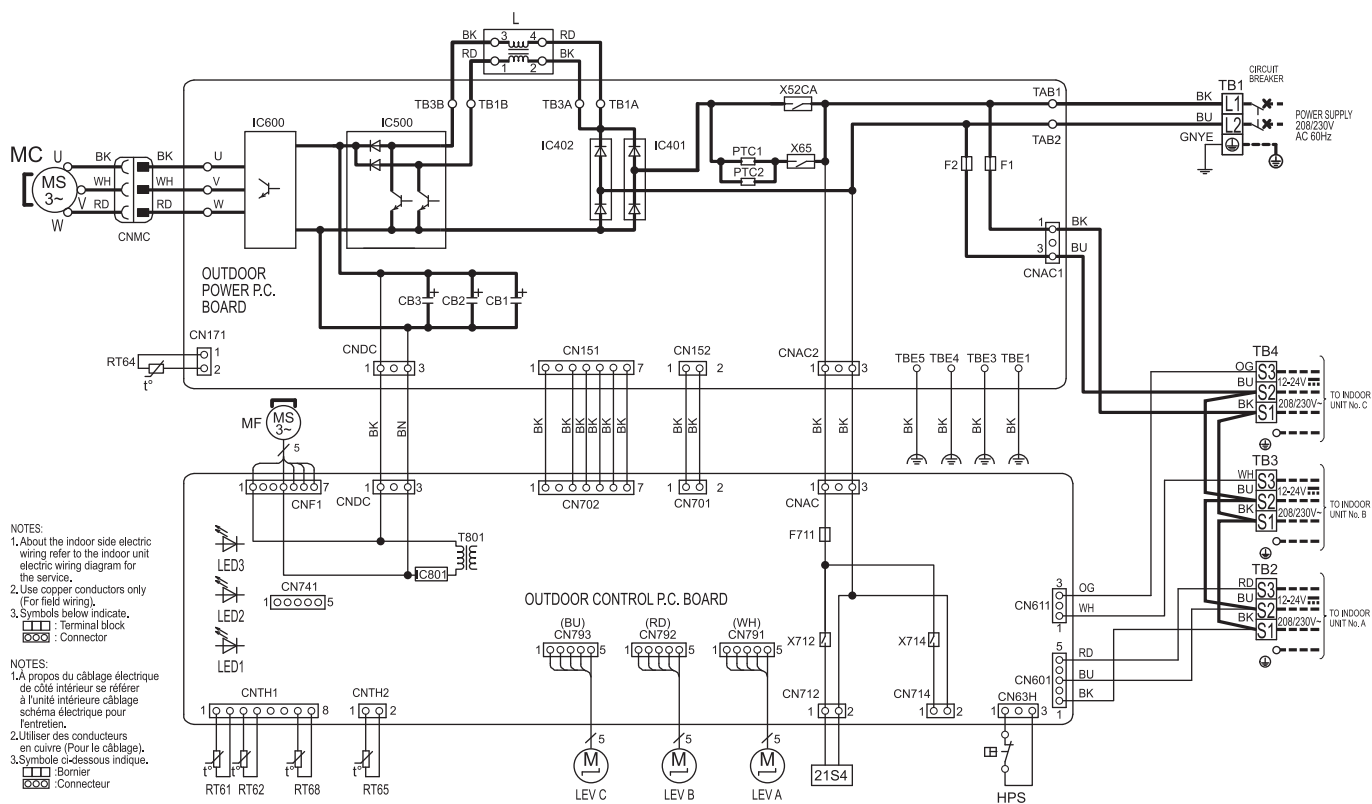
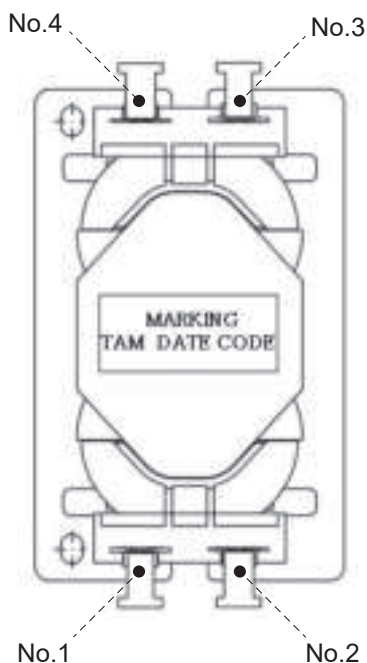


MXZ-3C24NA4 MXZ-3C30NA4

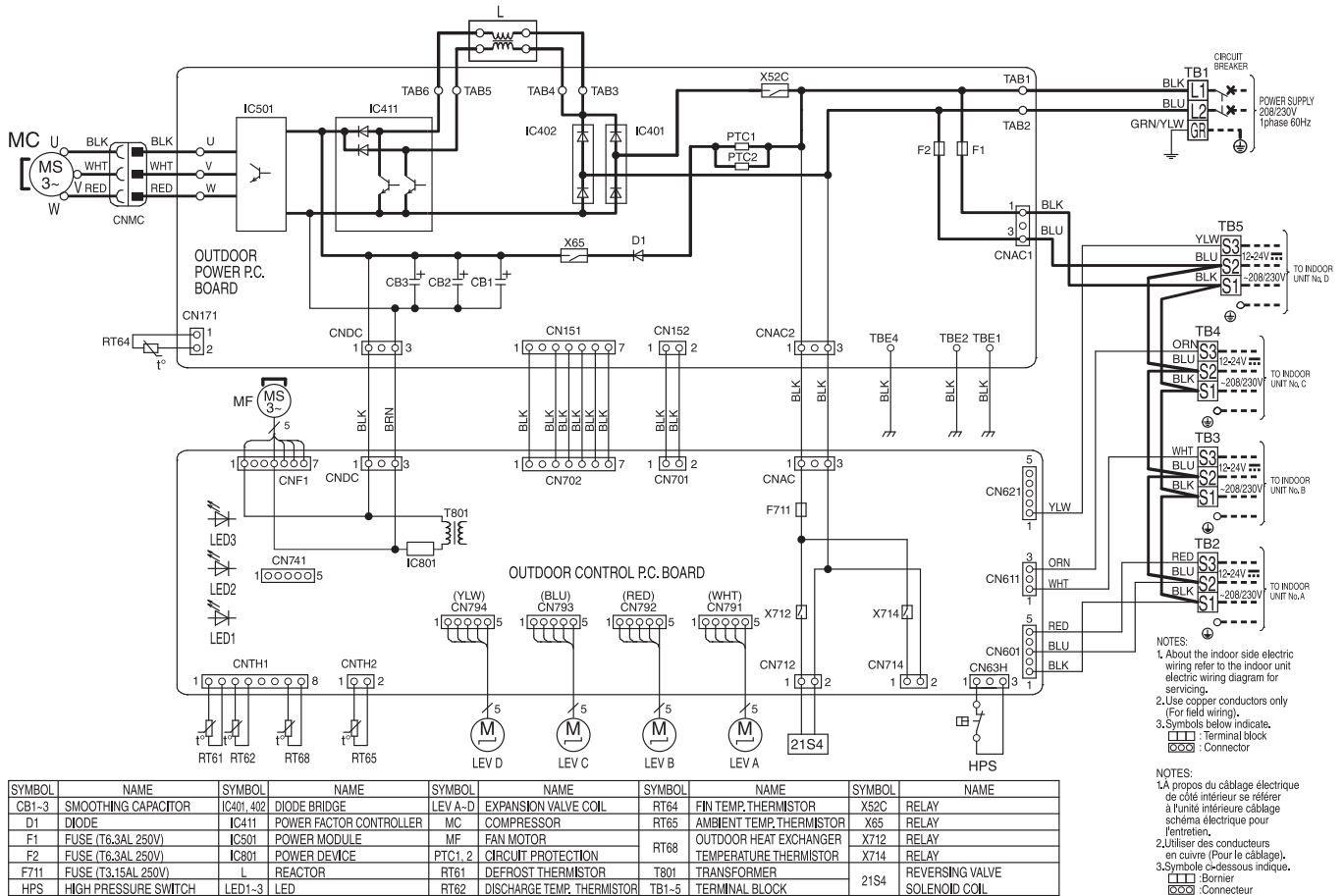


SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1-3	SMOOTHING CAPACITOR	HPS	HIGH PRESSURE SWITCH	LED1-3	LED	PTC1,2	CIRCUIT PROTECTOR	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR	X65	RELAY
F1	FUSE (10A 250V)	IC401,402	DIODE BRIDGE	LEV A-D	EXPANSION VALVE COIL	RT61	DEFROST THERMISTOR	T801	TRANSFORMER	X712	RELAY
F2	FUSE (10A 250V)	IC500	POWER FACTOR CONTROLLER	MC	COMPRESSOR	RT62	DISCHARGE TEMP. THERMISTOR	TB1-4	TERMINAL BLOCK	X714	RELAY
F711	FUSE (T3.15A 250V)	IC600	POWER MODULE	MF	FAN MOTOR	RT65	AMBIENT TEMP. THERMISTOR	X52CA	RELAY	21S4	REVERSING VALVE SOLENOID COIL
		IC801	POWER DEVICE								

[If the reactor does not have a number display, refer to the figure below.]

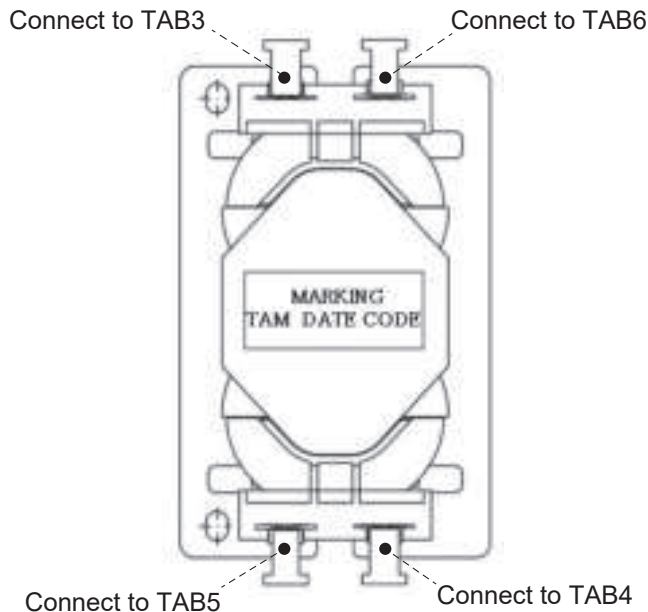


MXZ-4C36NA

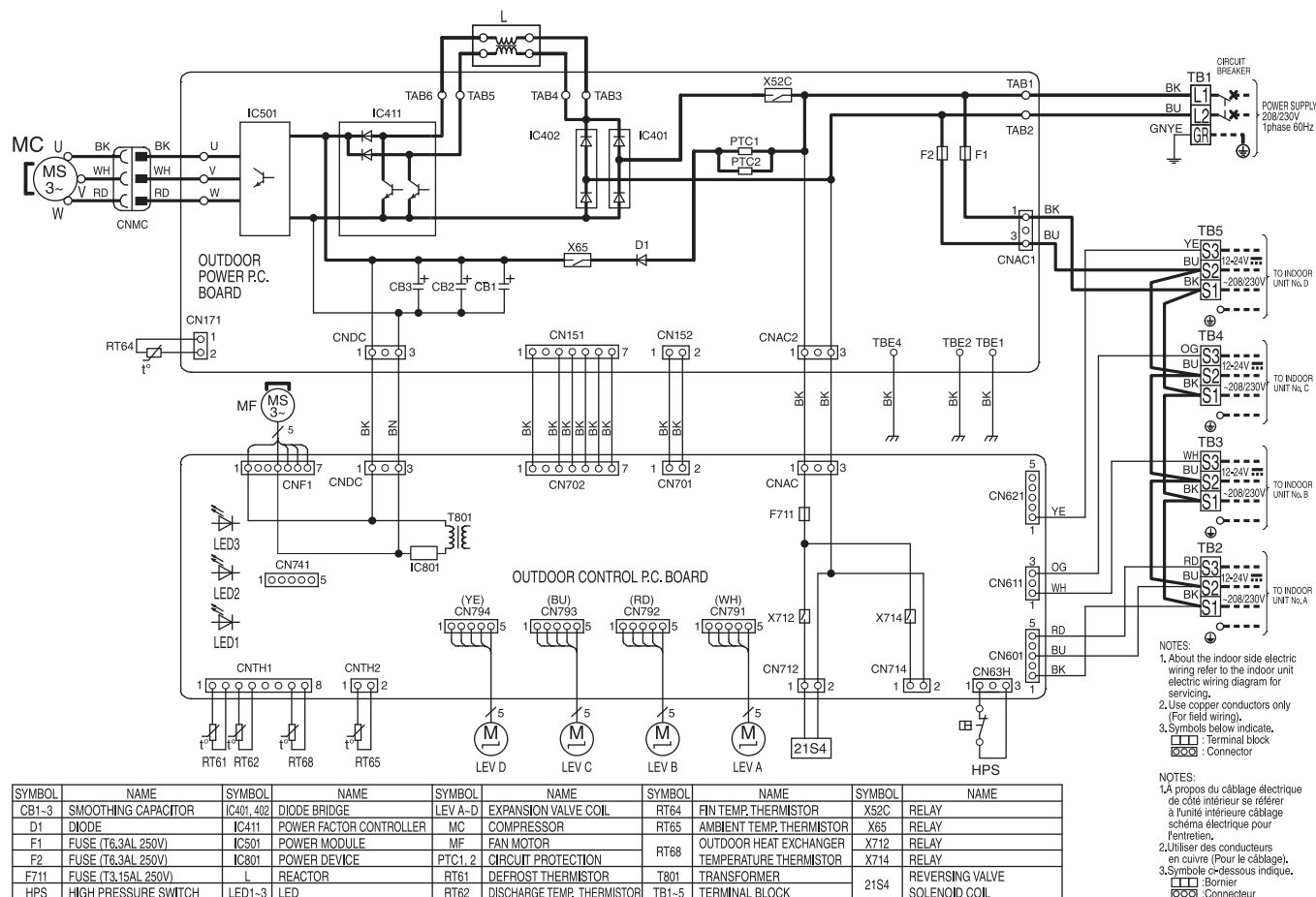


[Connection between reactor and outdoor power P.C. board]

* There are 2 types of reactors, which may have a number display.
Even if there is a number display, please wire as shown in the figure below.



MXZ-4C36NA2



[Connection between reactor and outdoor power P.C. board]

* There are 2 types of reactors, which may have a number display. Even if there is a number display, please wire as shown in the figure below.

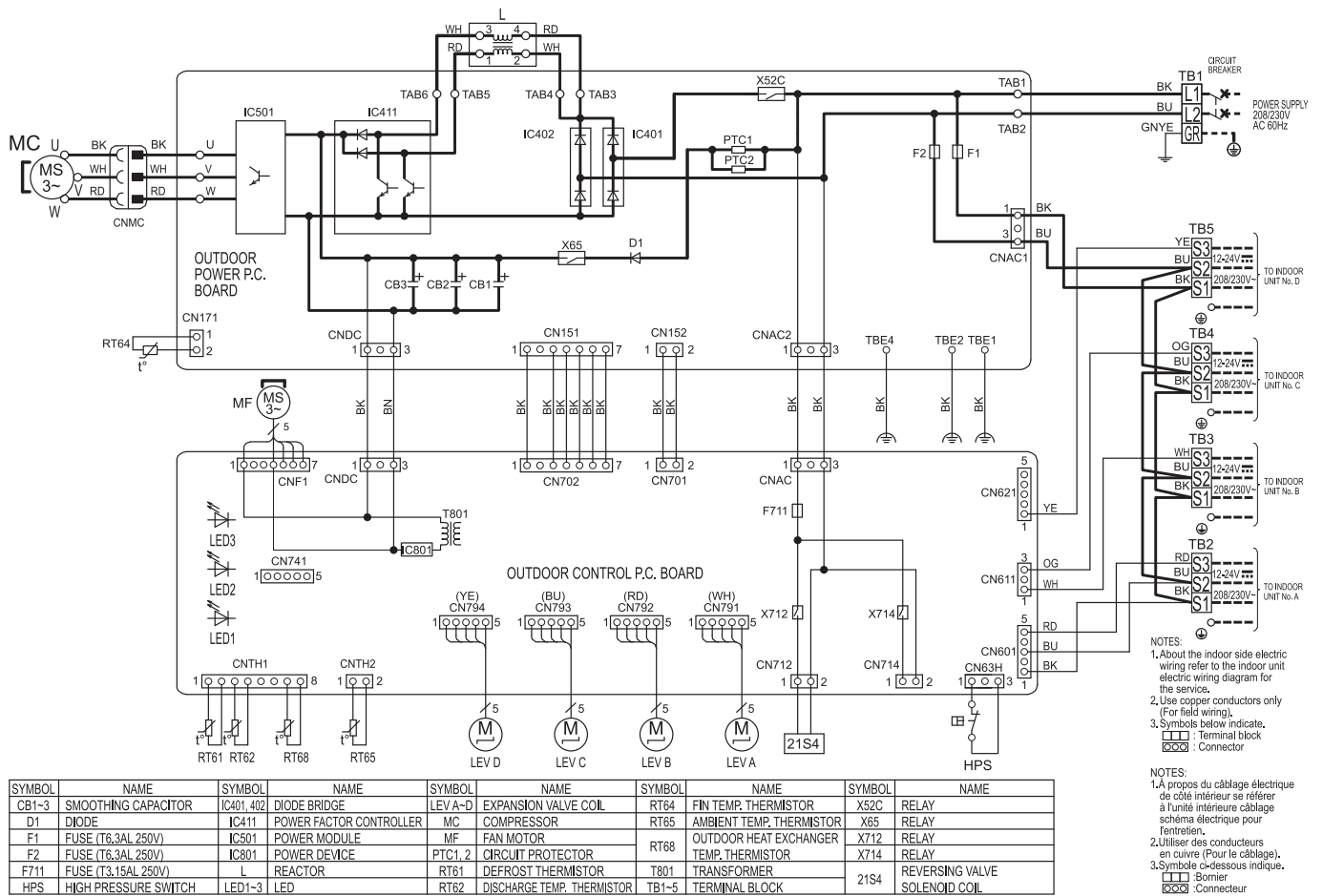
Connect to TAB3 Connect to TAB6



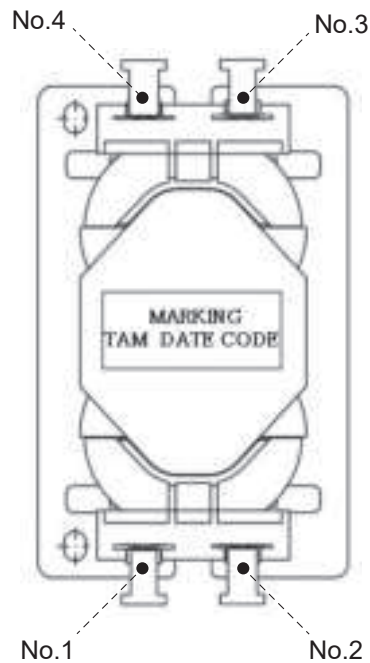
Connect to TAB5

Connect to TAB4

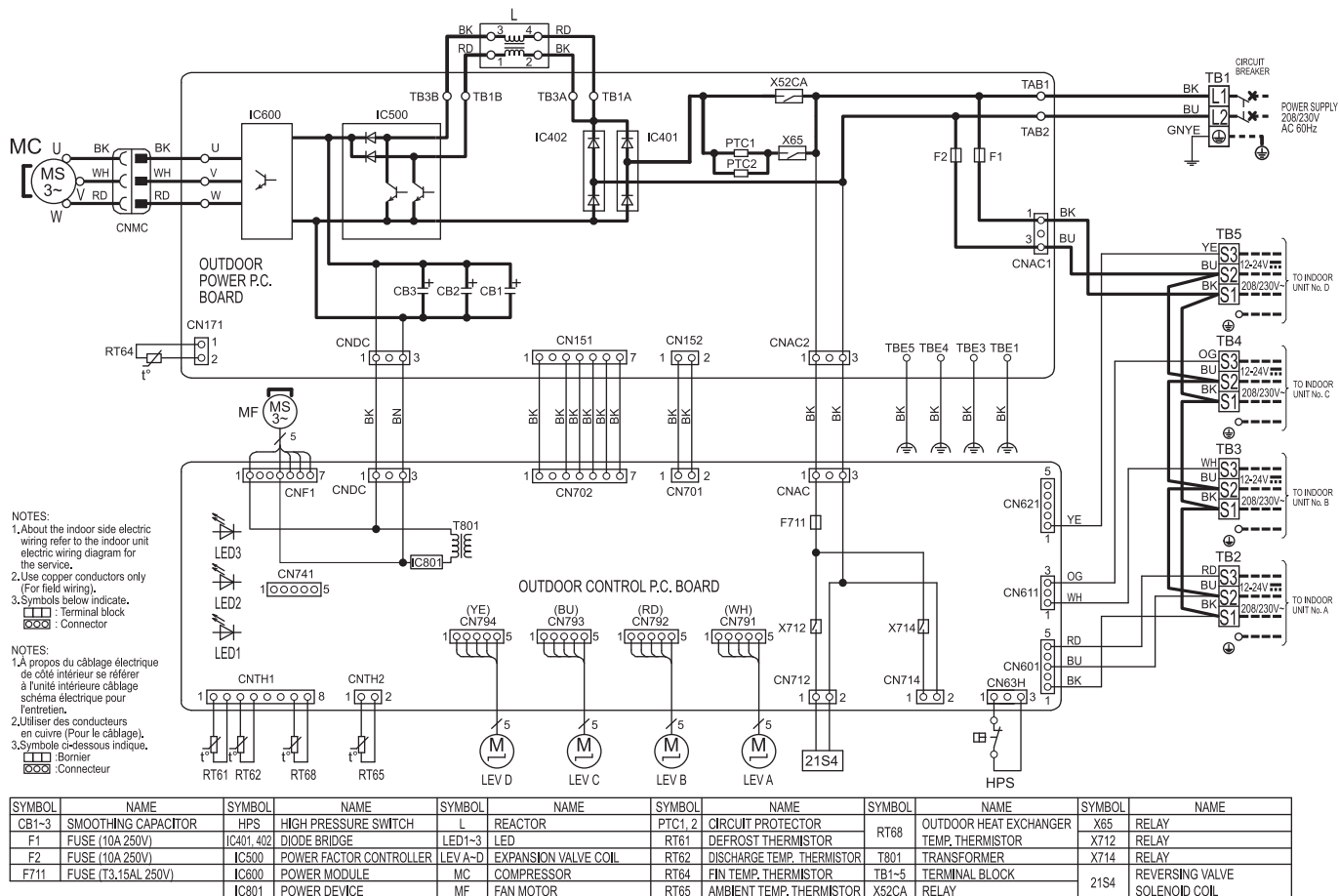
MXZ-4C36NA3



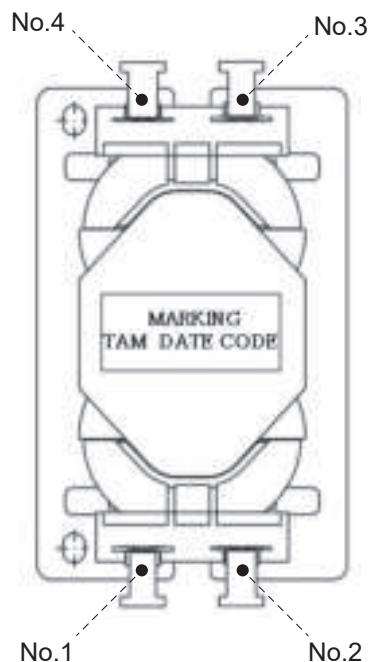
[If the reactor does not have a number display, refer to the figure below.]



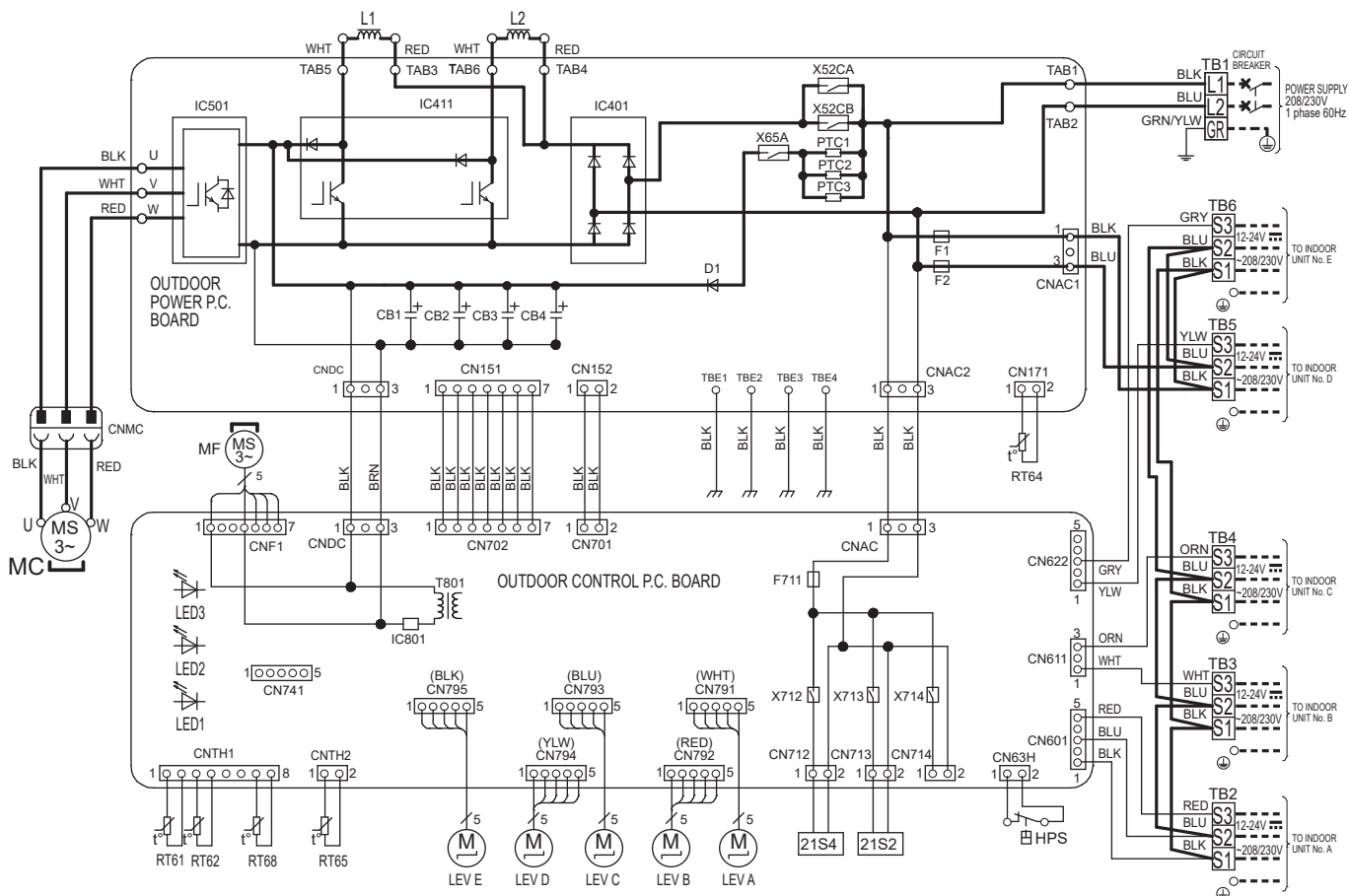
MXZ-4C36NA4



[If the reactor does not have a number display, refer to the figure below.]



MXZ-5C42NA



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-E	EXPANSION VALVE
F711	FUSE (T3.15AL 250V)	MC	COMPRESSOR
HPS	HIGH PRESSURE SWITCH	MF	FAN MOTOR
IC401	DIODE BRIDGE	T801	TRANSFORMER
IC411	POWER MODULE	TB1-6	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		

NOTES:

- About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
- Use copper conductors only (For field wiring).
- Symbols below indicate.

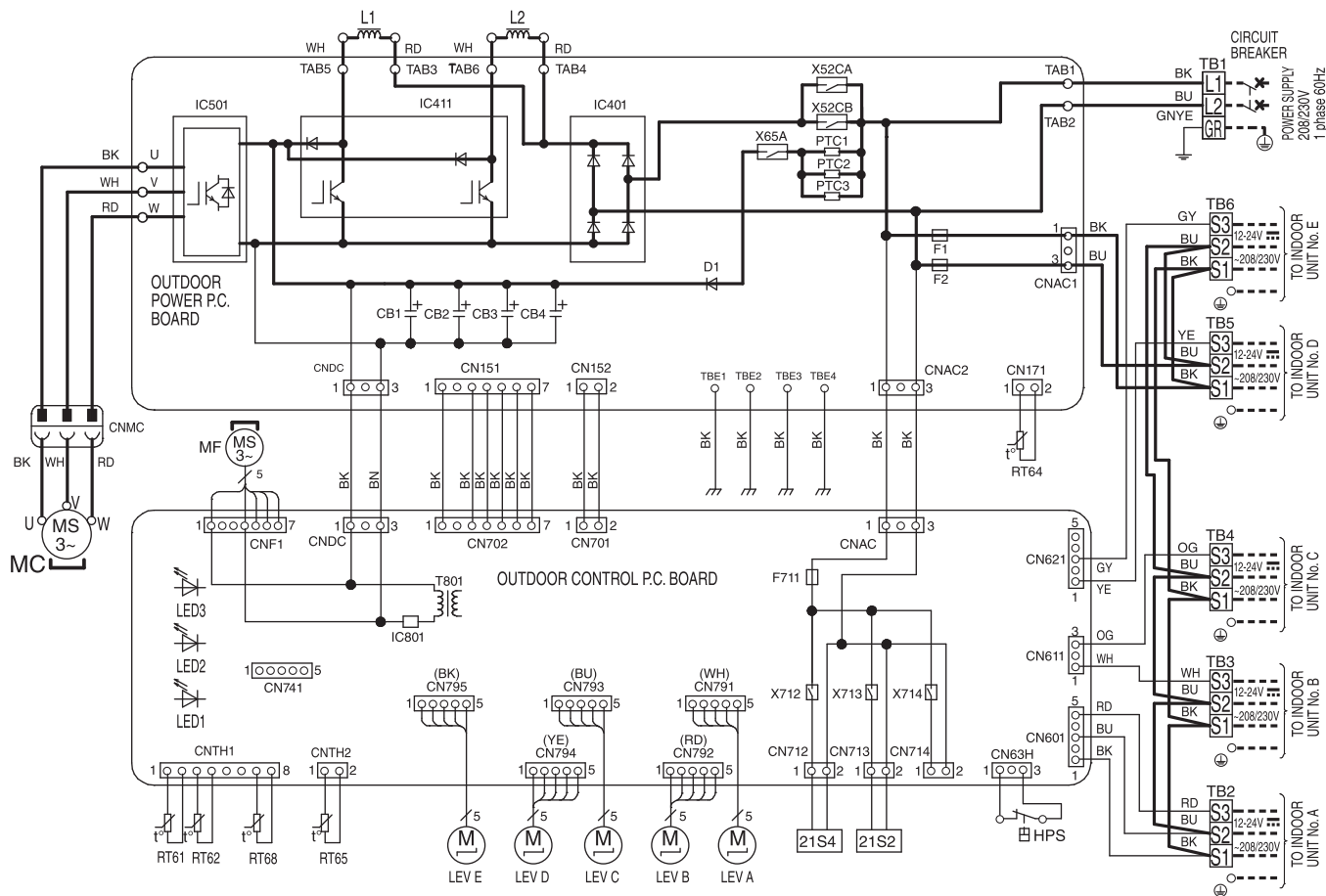
□ : Terminal block
 ○○ : connector

NOTES:

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

□ : bornier
 ○○ : connecteur

MXZ-5C42NA2



SYMBOL	NAME	SYMBOL	NAME
CB1-4	SMOOTHING CAPACITOR	RT62	DISCHARGE TEMP. THERMISTOR
D1	DIODE	RT64	FIN TEMP. THERMISTOR
F1, F2	FUSE (T6.3AL 250V)	RT65	AMBIENT TEMP. THERMISTOR
F711	FUSE (T3.15AL 250V)	RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR
HPS	HIGH PRESSURE SWITCH	T801	TRANSFORMER
IC401	DIODE BRIDGE	TB1-6	TERMINAL BLOCK
IC411	POWER MODULE	X52CA, B	RELAY
IC501	POWER MODULE	X65A	RELAY
IC801	POWER DEVICE	X712	RELAY
L1, L2	REACTOR	X713	RELAY
LED 1-3	LED	X714	RELAY
LEV A-E	EXPANSION VALVE COIL	21S2	2WAY VALVE SOLENOID COIL
MC	COMPRESSOR	21S4	REVERSING VALVE SOLENOID COIL
MF	FAN MOTOR		
PTC1-3	CIRCUIT PROTECTION		
RT61	DEFROST THERMISTOR		

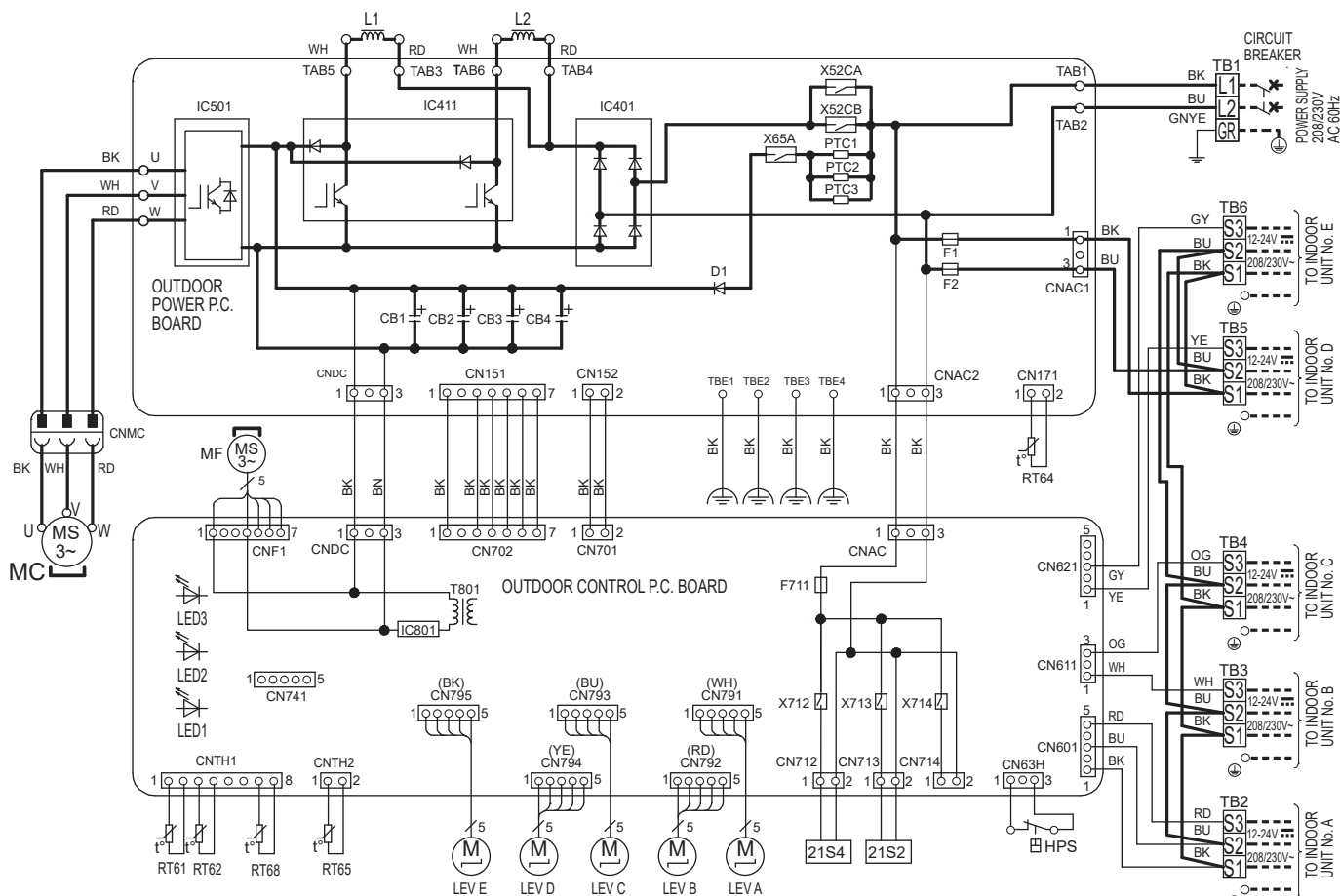
NOTES:

- About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
- Use copper conductors only (For field wiring).
- Symbols below indicate.
 : Terminal block
 : Connector

NOTES:

- A propos du câblage électrique de côté intérieur se référer à l'unité intérieure câblage schéma électrique pour l'entretien.
- Utiliser des conducteurs en cuivre (pour le câblage).
- Symbole ci-dessous indique.
 : Bornier
 : Connecteur

MXZ-5C42NA3



SYMBOL	NAME	SYMBOL	NAME
CB1-4	SMOOTHING CAPACITOR	RT62	DISCHARGE TEMP. THERMISTOR
D1	DIODE	RT64	FIN TEMP. THERMISTOR
F1, F2	FUSE (T6.3AL 250V)	RT65	AMBIENT TEMP. THERMISTOR
F711	FUSE (T3.15AL 250V)	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
HPS	HIGH PRESSURE SWITCH		
IC401	DIODE BRIDGE	T801	TRANSFORMER
IC411	POWER MODULE	TB1-6	TERMINAL BLOCK
IC501	POWER MODULE	X52CA, B	RELAY
IC801	POWER DEVICE	X65A	RELAY
L1, L2	REACTOR	X712	RELAY
LED 1-3	LED	X713	RELAY
LEV A-E	EXPANSION VALVE COIL	X714	RELAY
MC	COMPRESSOR	21S2	2WAY VALVE SOLENOID COIL
MF	FAN MOTOR	21S4	REVERSING VALVE SOLENOID COIL
PTC1-3	CIRCUIT PROTECTOR		
RT61	DEFROST THERMISTOR		

NOTES:

- About the indoor side electric wiring refer to the indoor unit electric wiring diagram for the service.
- Use copper conductors only (For field wiring).
- Symbols below indicate.

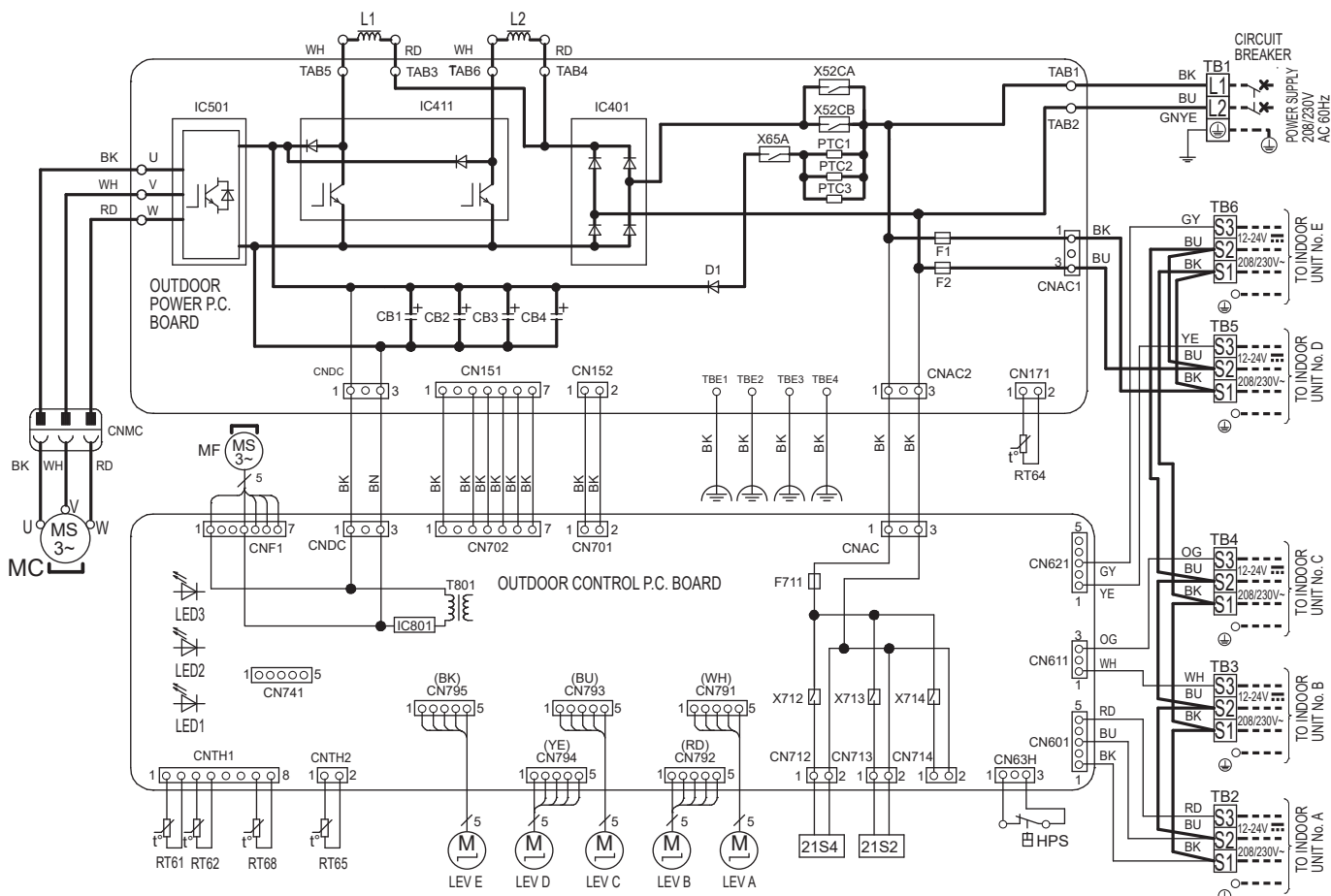
□ : Terminal block
 □ : Connector

NOTES:

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

□ : Bornier
 □ : Connecteur

MXZ-5C42NA4



SYMBOL	NAME	SYMBOL	NAME
CB1-4	SMOOTHING CAPACITOR	RT62	DISCHARGE TEMP. THERMISTOR
D1	DIODE	RT64	FIN TEMP. THERMISTOR
F1, F2	FUSE (T6.3AL 250V)	RT65	AMBIENT TEMP. THERMISTOR
F711	FUSE (T3.15AL 250V)	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
HPS	HIGH PRESSURE SWITCH		
IC411	DIODE BRIDGE	TB1-6	TERMINAL BLOCK
IC501	POWER MODULE	X52CA, B	RELAY
IC801	POWER DEVICE	X65A	RELAY
L1, L2	REACTOR	X712	RELAY
LED 1-3	LED	X713	RELAY
LEV A-E	EXPANSION VALVE COIL	X714	RELAY
MC	COMPRESSOR	21S2	2-WAY VALVE SOLENOID COIL
MF	FAN MOTOR	21S4	4-WAY VALVE SOLENOID COIL
PTC1-3	CIRCUIT PROTECTOR		
RT61	DEFROST THERMISTOR		

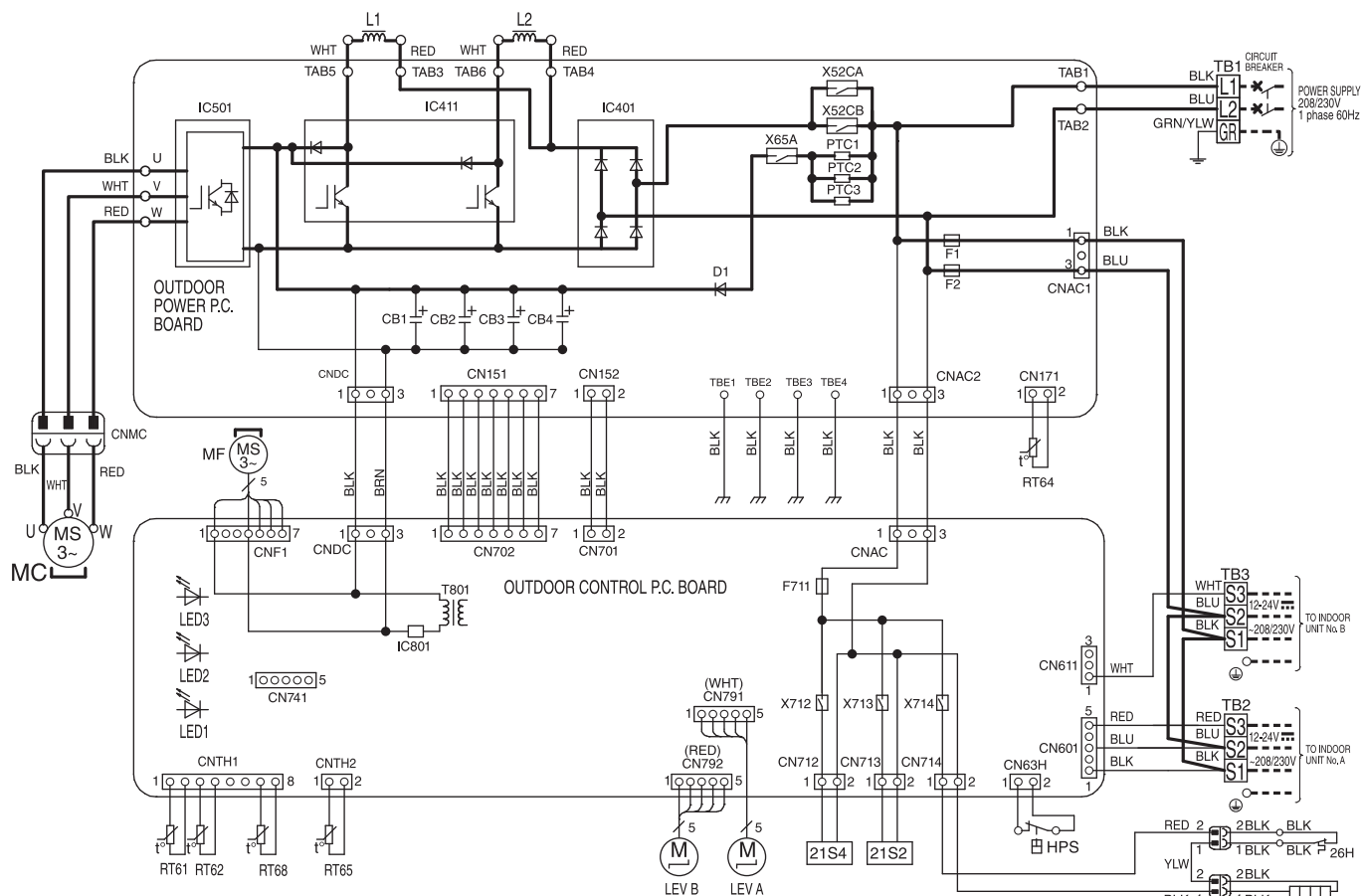
NOTES:

- About the indoor side electric wiring refer to the indoor unit electric wiring diagram for the service.
- Use copper conductors only (For field wiring).
- Symbols below indicate.
 : Terminal block
 : Connector

NOTES:

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

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

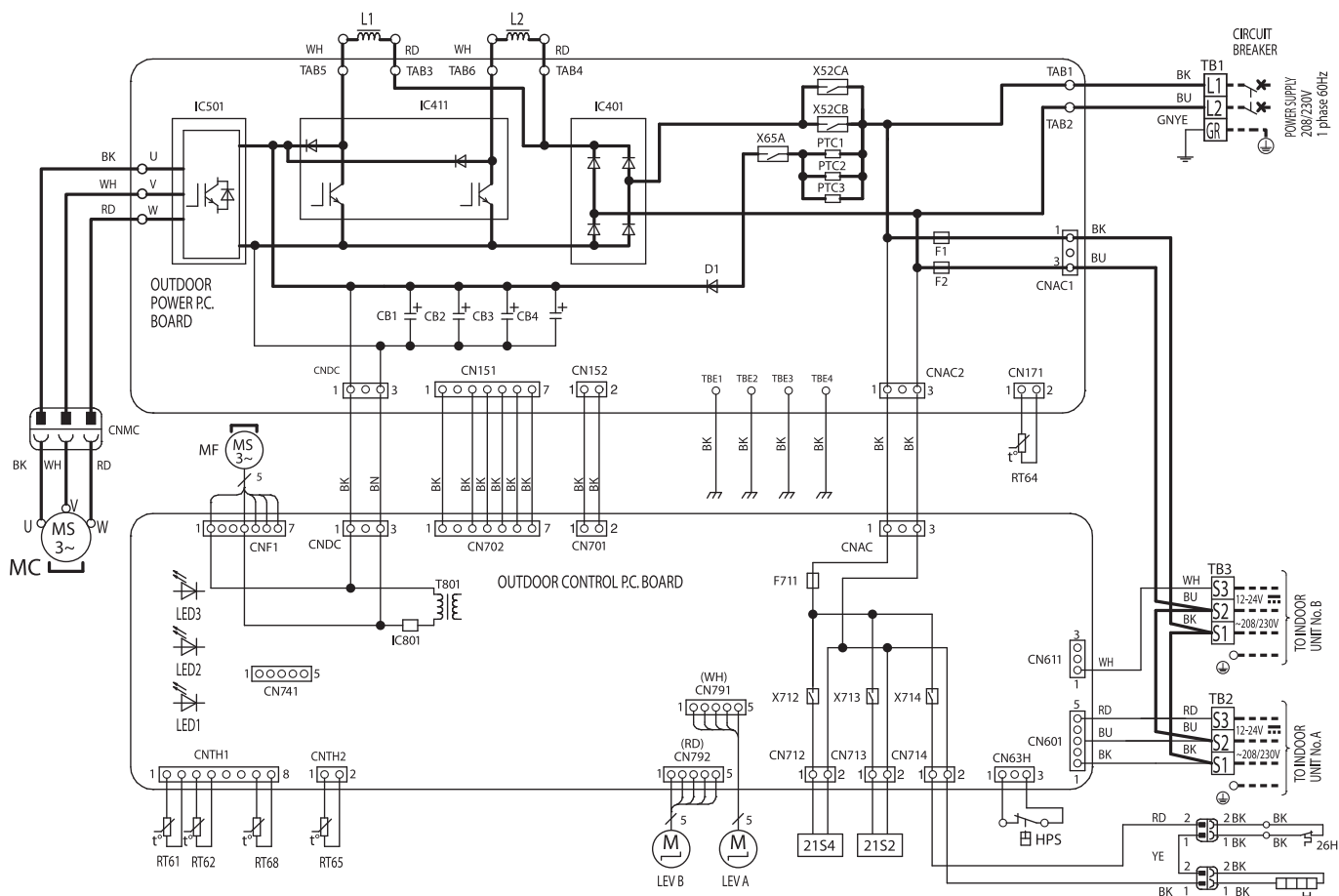
NOTES:

- About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
- Use copper conductors only (For field wiring).
- Symbols below indicate.
 - □ □ : Terminal block
 - □ □ : connector

NOTES:

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

MXZ-2C20NAHZ2



SYMBOL	NAME	SYMBOL	NAME
CB1~4	SMOOTHING CAPACITOR	RT61	DEFROST THERMISTOR
D1	DIODE	RT62	DISCHARGE TEMP.THERMISTOR
F1, F2	FUSE (T6.3AL 250V)	RT64	FIN TEMP.THERMISTOR
F711	FUSE (T3.15AL 250V)	RT65	AMBIENT TEMP.THERMISTOR
HPS	HIGH PRESSURE SWITCH	RT 68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR
H	DEFROST HEATER		
IC401	DIODE BRIDGE	T801	TRANSFORMER
IC411	POWER MODULE	TB1~3	TERMINAL BLOCK
IC501	POWER MODULE	X52CA, B	RELAY
IC801	POWER DEVICE	X65A	RELAY
L1, L2	REACTOR	X712	RELAY
LED 1~3	LED	X713	RELAY
LEV A, B	EXPANSION VALVE COIL	X714	RELAY
MC	COMPRESSOR	21S2	2WAY VALVE SOLENOID COIL
MF	FAN MOTOR	21S4	REVERSING VALVE SOLENOID COIL
PTC1~3	CIRCUIT PROTECTION	26H	HEATER PROTECTOR

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.

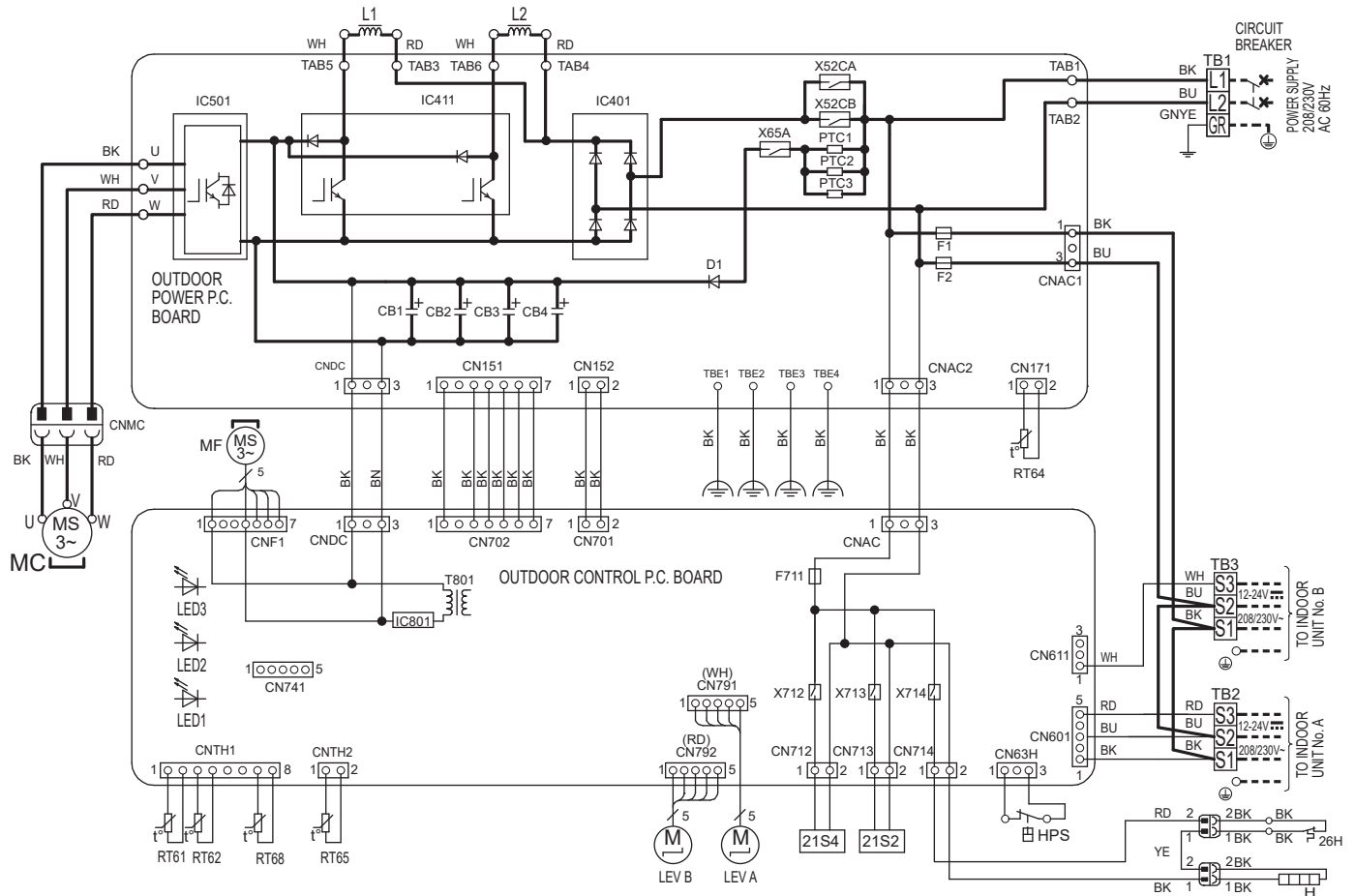
□ □ □ : Terminal block
 ○ ○ ○ : Connector

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

MXZ-2C20NAHZ3



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

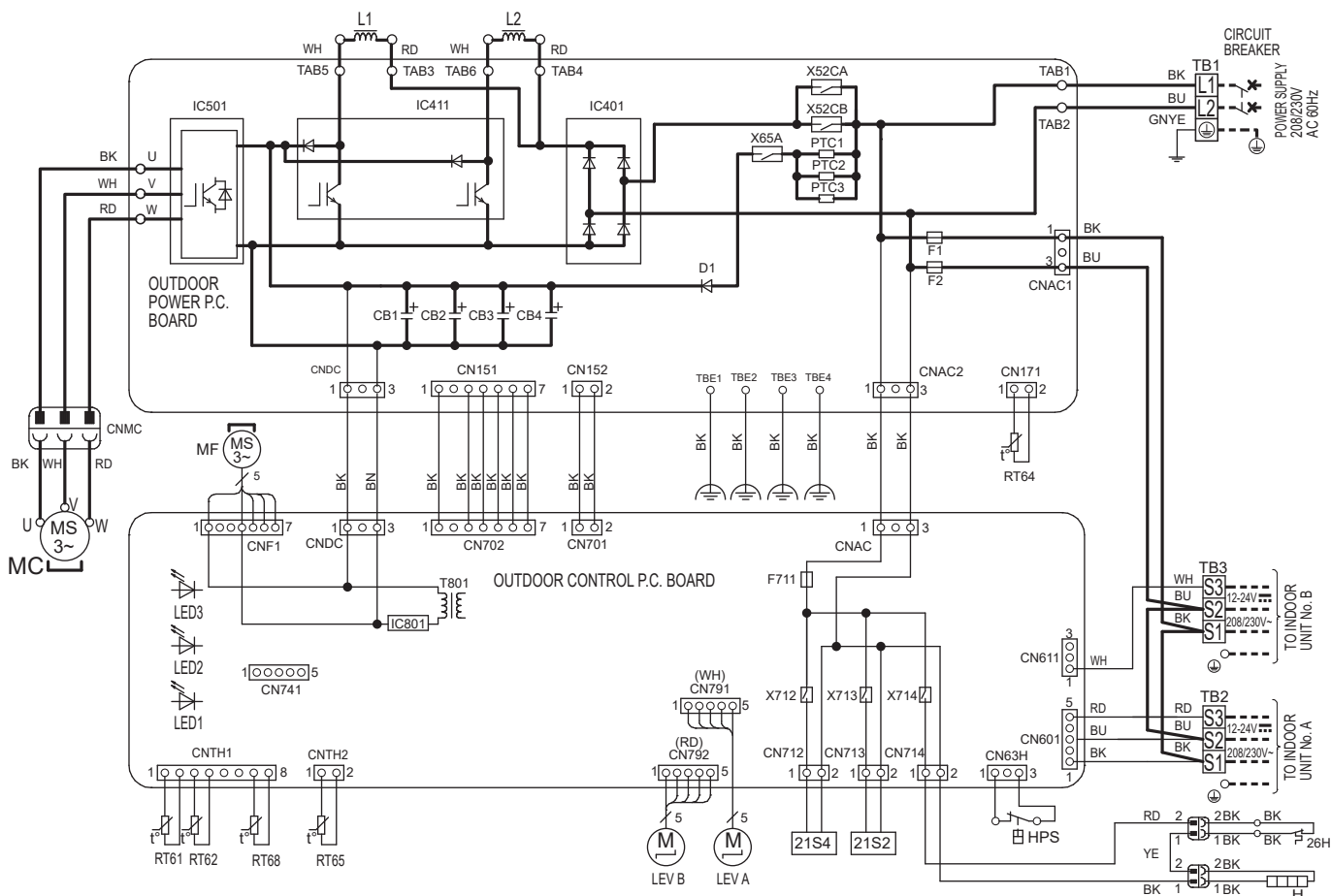
NOTES:

- About the indoor side electric wiring refer to the indoor unit electric wiring diagram for the service.
- Use copper conductors only (For field wiring).
- Symbols below indicate.
 Terminal block
 Connector

NOTES:

- À propos du câblage électrique de côté intérieur se référer à l'unité intérieure câblage schéma électrique pour l'entretien.
- Utiliser des conducteurs en cuivre (pour le câblage).
- Symbole ci-dessous indique.
 Bornier
 Connecteur

MXZ-2C20NAHZ4



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

NOTES:

- About the indoor side electric wiring refer to the indoor unit electric wiring diagram for the service.
- Use copper conductors only (For field wiring).
- Symbols below indicate.

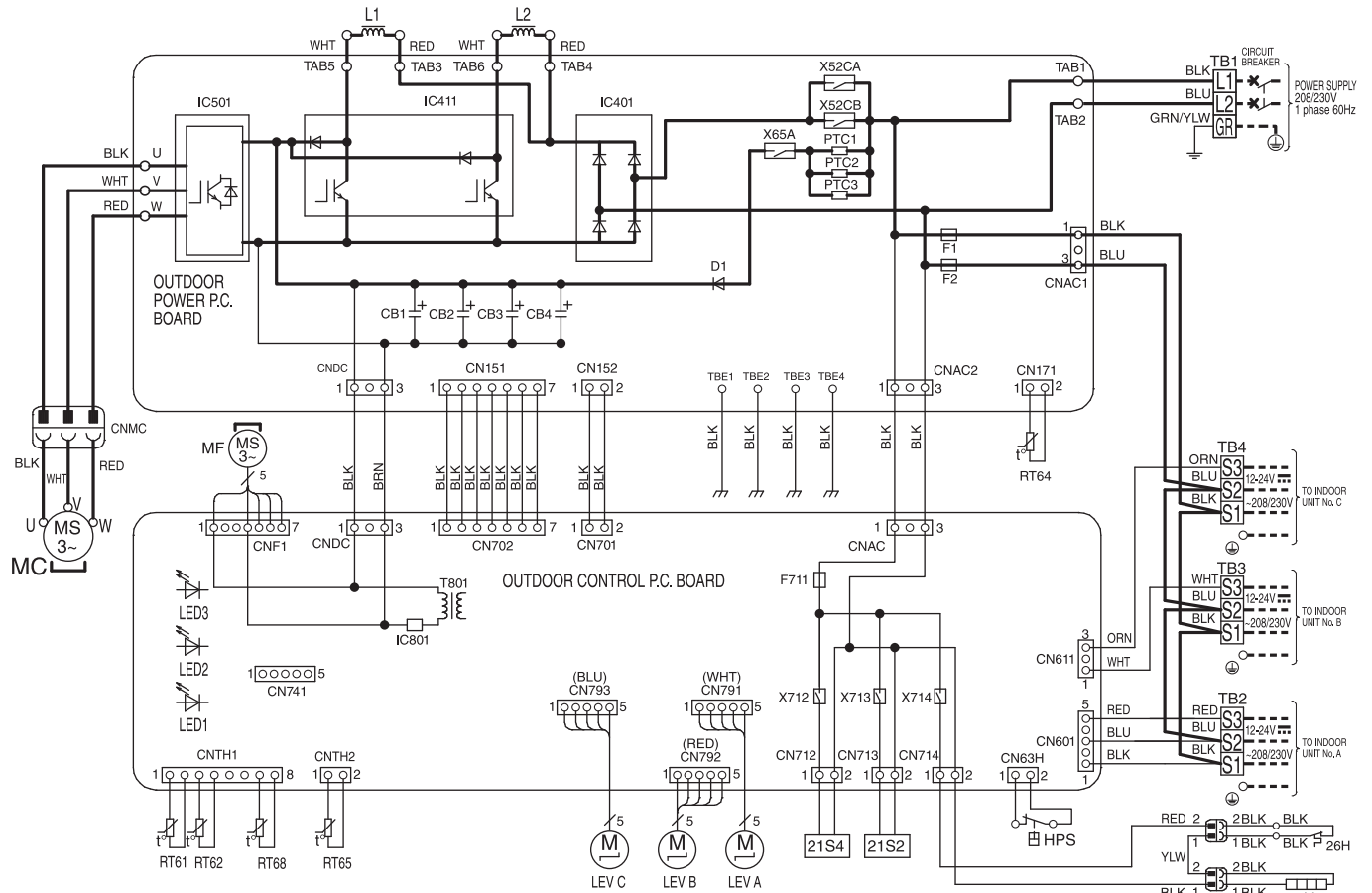
□ □ □ : Terminal block
 ○ ○ ○ : Connector

NOTES:

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

□ □ □ : Bornier
 ○ ○ ○ : Connecteur

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

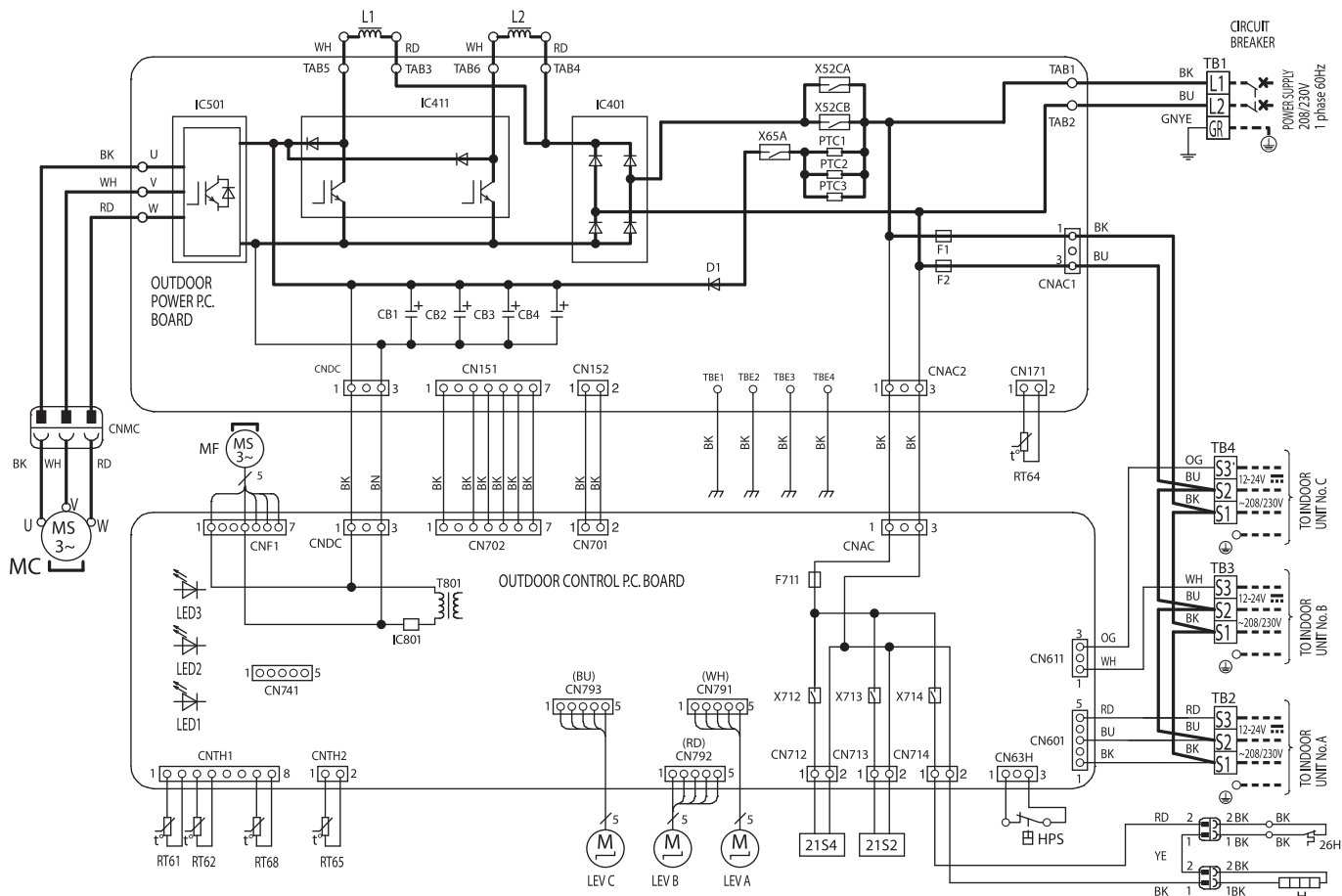
NOTES:

- 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

MXZ-3C24NAHZ2 MXZ-3C30NAHZ2



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

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.

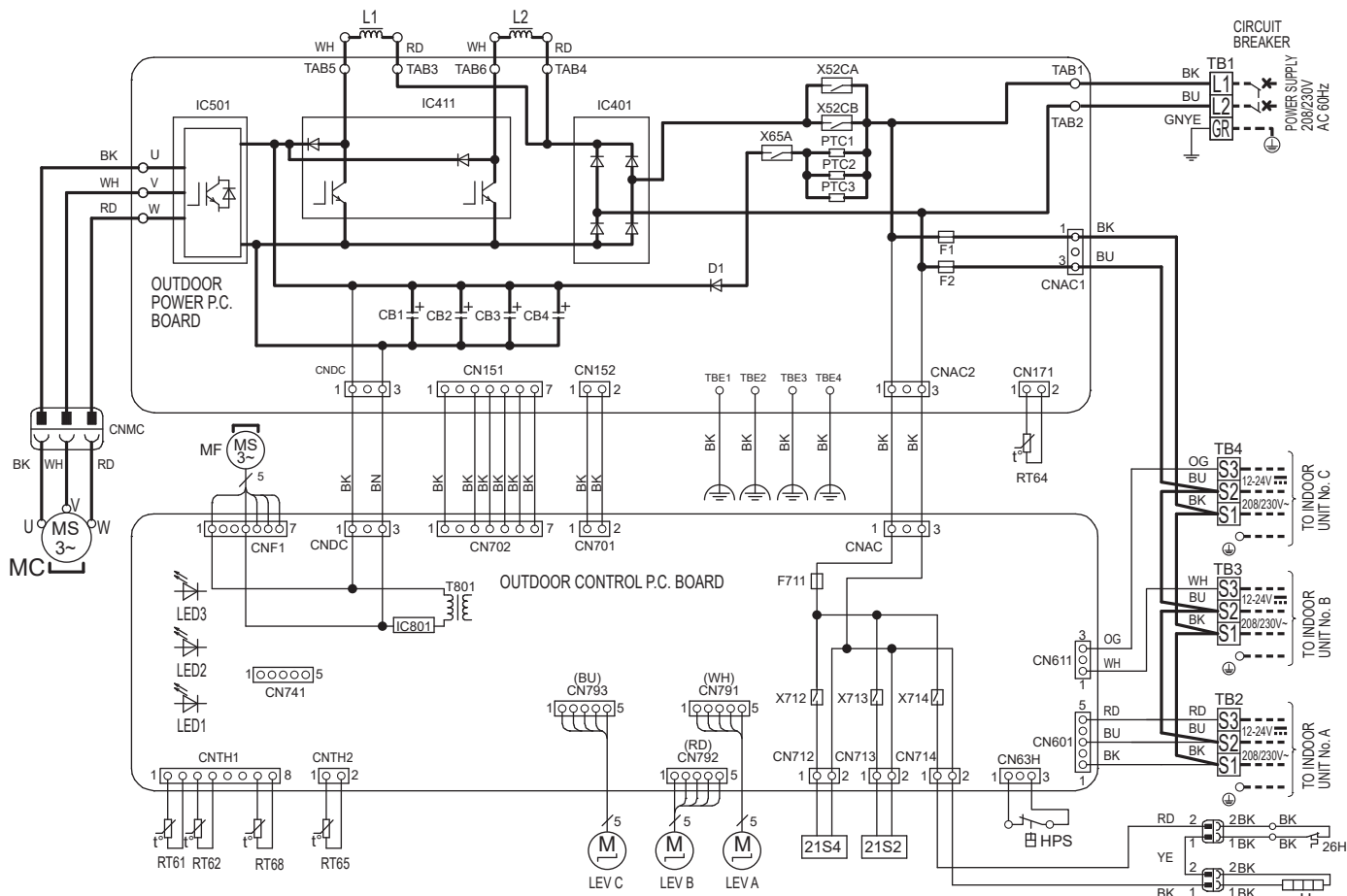
2.Utiliser des conducteurs en cuivre (pour le câblage).

3.Symbole ci-dessous indique.

□ : Bornier

⊞ : Connecteur

MXZ-3C24NAHZ3 **MXZ-3C30NAHZ3**



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

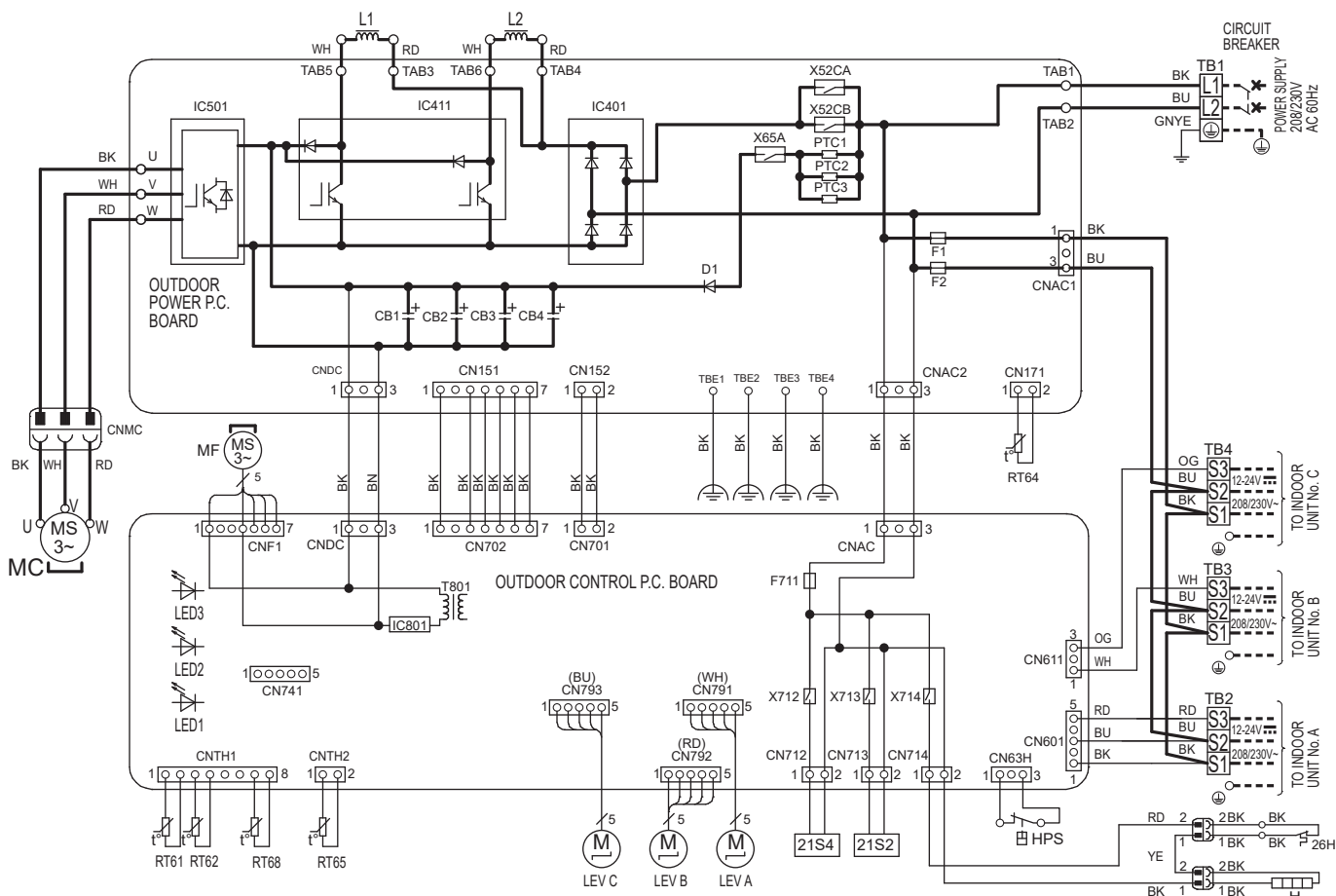
NOTES:

1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for the service.
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

MXZ-3C24NAHZ4 **MXZ-3C30NAHZ4**



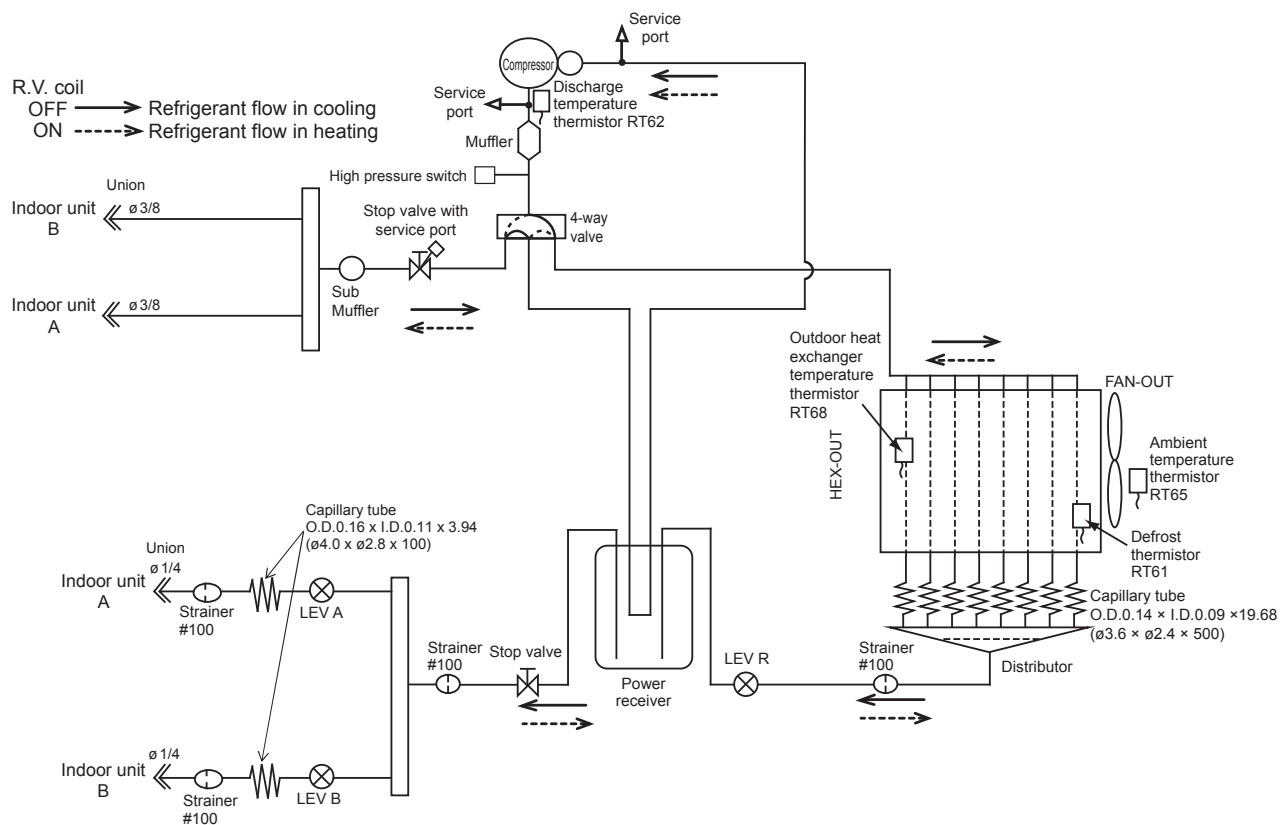
SYMBOL	NAME	SYMBOL	NAME
CB1-4	SMOOTHING CAPACITOR	RT61	DEFROST THERMISTOR
D1	DIODE	RT62	DISCHARGE TEMP. THERMISTOR
F1, F2	FUSE (T6.3AL 250V)	RT64	FIN TEMP. THERMISTOR
F711	FUSE (T3.15AL 250V)	RT65	AMBIENT TEMP. THERMISTOR
HPS	HIGH PRESSURE SWITCH	RT68	OUTDOOR HEAT EXCHANGER TEMP. THERMISTOR
H	DEFROST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

NOTES:
 1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for the service.
 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

MXZ-2C20NA2 MXZ-2C20NA3 MXZ-2C20NA4

Unit: inch (mm)



MXZ-2C20NA2 MXZ-2C20NA3 MXZ-2C20NA4

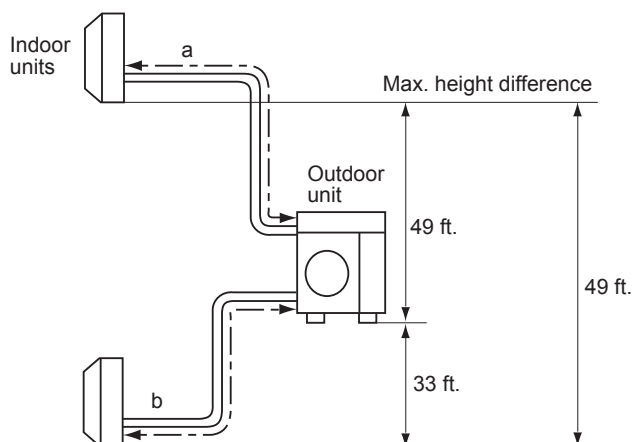
Operating Range

		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95°FDB, 71°FWB	115°FDB
	Minimum	67°FDB, 57°FWB	14°FDB
Heating	Maximum	80°FDB, 67°FWB	75°FDB, 65°FWB
	Minimum	70°FDB, 60°FWB	6°FDB, 5°FWB

MAX. REFRIGERANT PIPING LENGTH & PIPE SIZE SELECTION

Piping length each indoor unit (a, b)	82 ft. MAX.
Total piping length (a+b)	164 ft. MAX.
Bending point for each unit	25 MAX.
Total bending point	50 MAX.

*It is irrelevant which unit is higher.



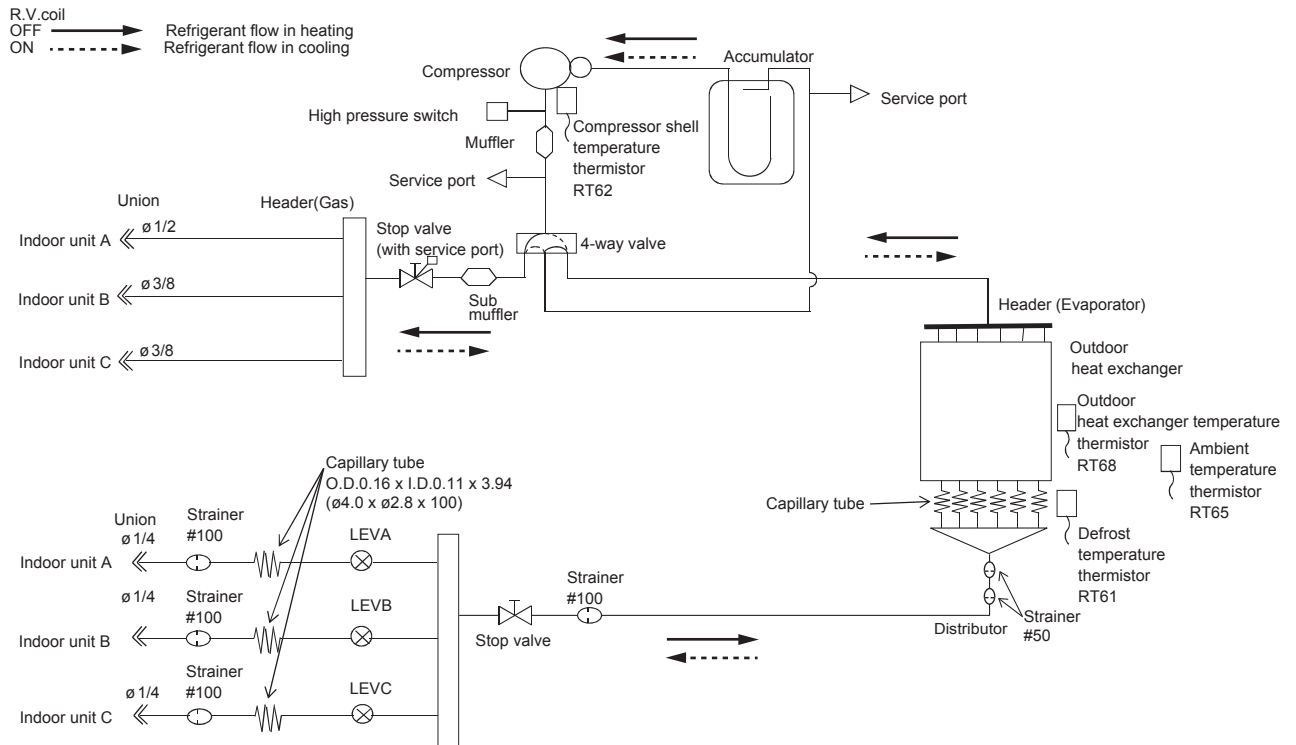
- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When the diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe, refer to "PARTS CATALOG".

Unit: inch

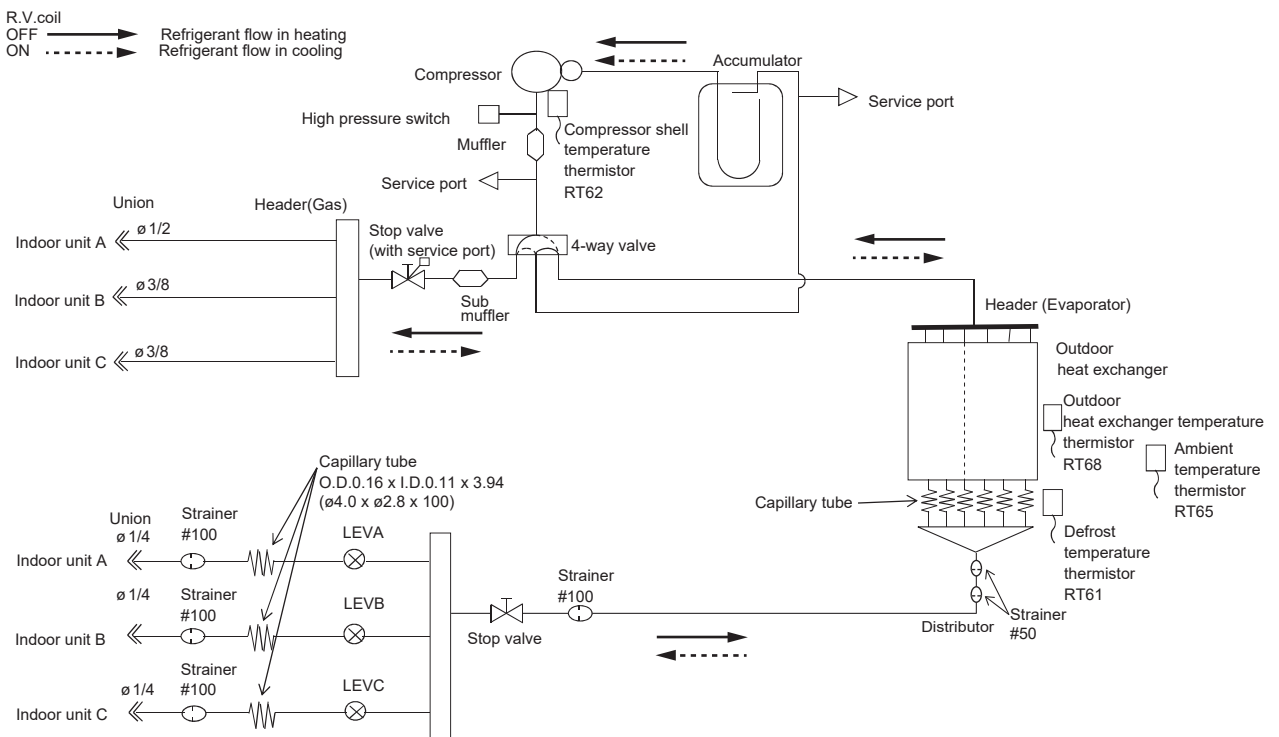
Outdoor unit union diameter		
For		
Indoor unit A	Liquid	1/4
	Gas	3/8
Indoor unit B	Liquid	1/4
	Gas	3/8

MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3
MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3

Unit: inch (mm)



MXZ-3C24NA4
MXZ-3C30NA4



MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3 MXZ-3C24NA4
MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3 MXZ-3C30NA4

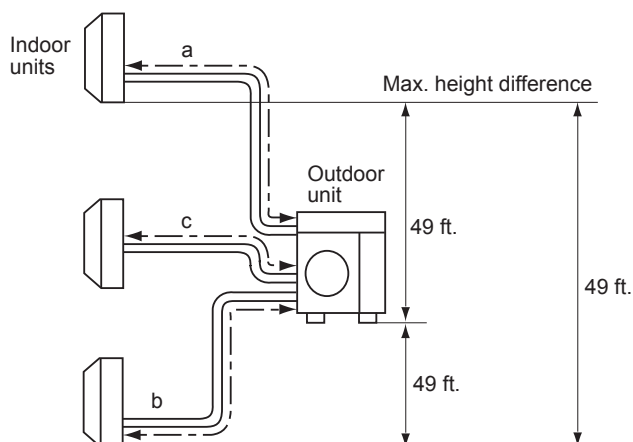
Operating Range

		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95°FDB, 71°FWB	115°FDB
	Minimum	67°FDB, 57°FWB	14°FDB
Heating	Maximum	80°FDB, 67°FWB	75°FDB, 65°FWB
	Minimum	70°FDB, 60°FWB	6°FDB, 5°FWB

MAX. REFRIGERANT PIPING LENGTH & PIPE SIZE SELECTION

Piping length each indoor unit (a, b, c)	82 ft. MAX.
Total piping length (a+b+c)	230 ft. MAX.
Bending point for each unit	25 MAX.
Total bending point	70 MAX.

*It is irrelevant which unit is higher.



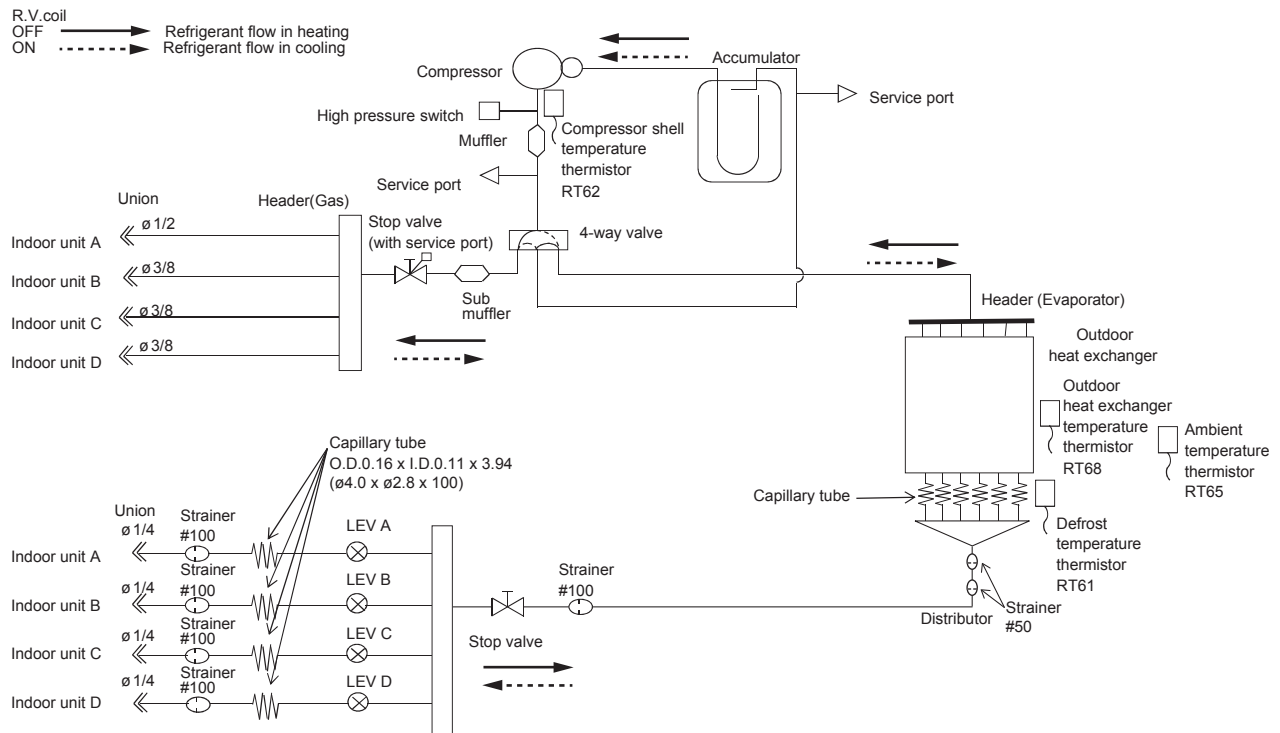
- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When the diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe, refer to "PARTS CATALOG".

Unit: inch

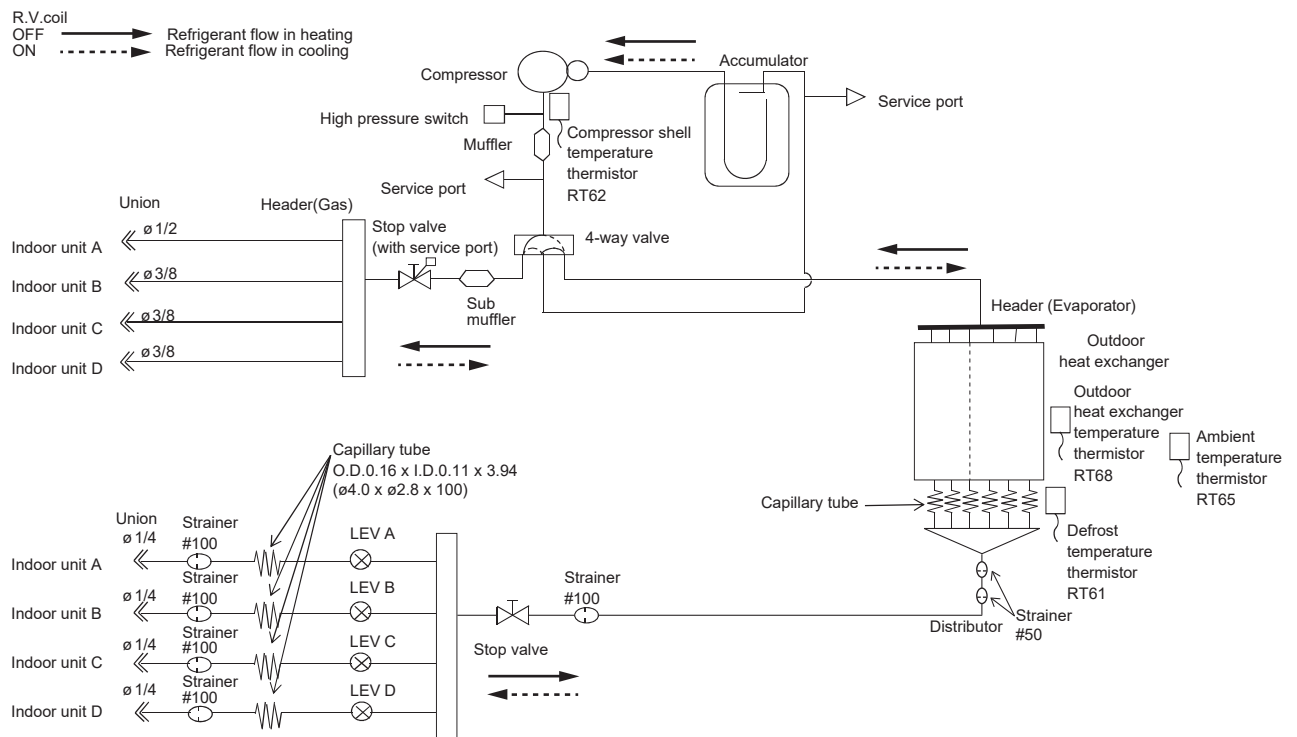
Outdoor unit union diameter		
For		
Indoor unit A	Liquid	1/4
	Gas	1/2
Indoor unit B	Liquid	1/4
	Gas	3/8
Indoor unit C	Liquid	1/4
	Gas	3/8

MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3

Unit: inch (mm)



MXZ-4C36NA4



MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3 MXZ-4C36NA4

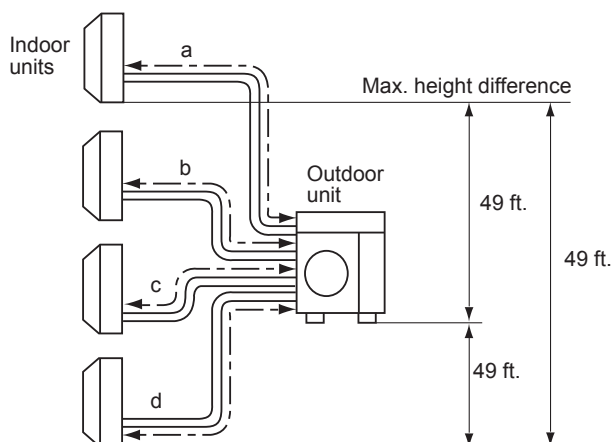
Operating Range

		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95°FDB, 71°FWB	115°FDB
	Minimum	67°FDB, 57°FWB	14°FDB
Heating	Maximum	80°FDB, 67°FWB	75°FDB, 65°FWB
	Minimum	70°FDB, 60°FWB	6°FDB, 5°FWB

MAX. REFRIGERANT PIPING LENGTH & PIPE SIZE SELECTION

Piping length each indoor unit (a, b, c, d)	82 ft. MAX.
Total piping length (a+b+c+d)	230 ft. MAX.
Bending point for each unit	25 MAX.
Total bending point	70 MAX.

*It is irrelevant which unit is higher.



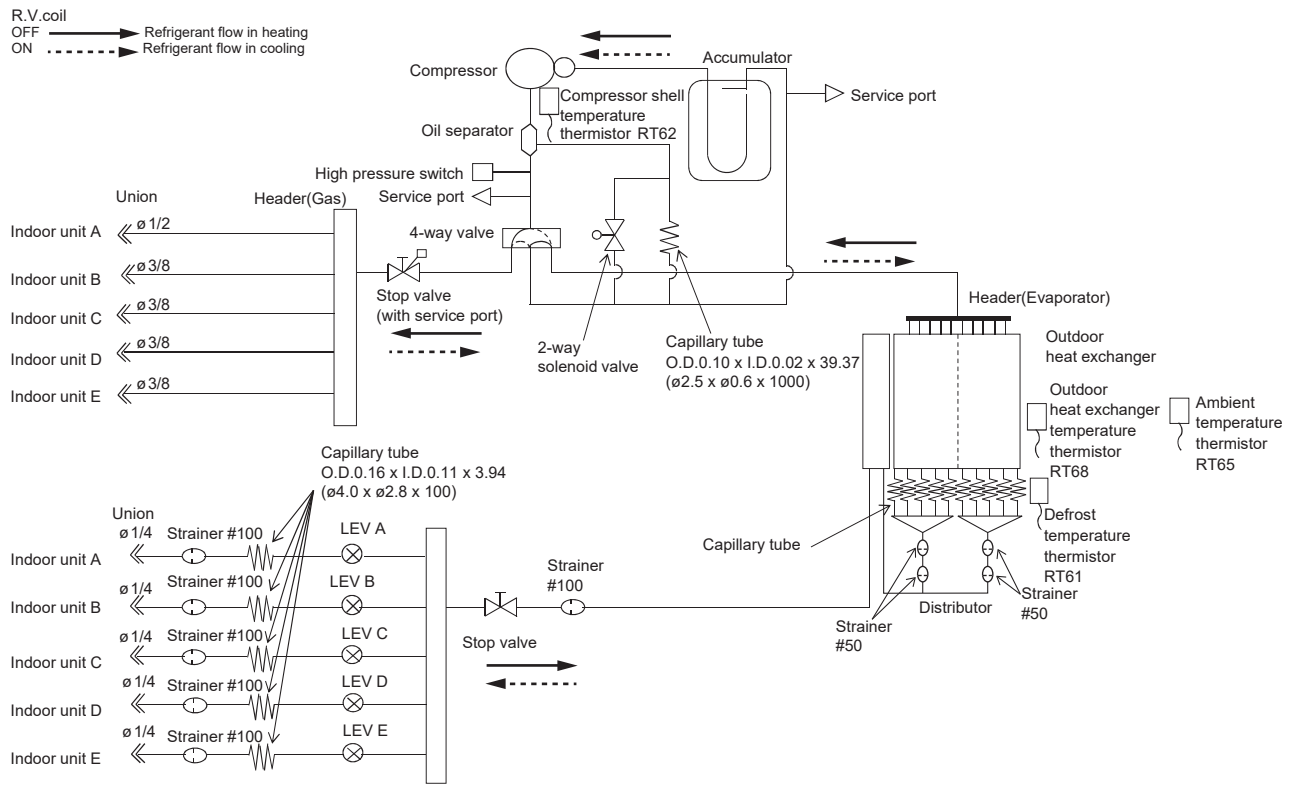
- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When the diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe, refer to "PARTS CATALOG".

Unit: inch

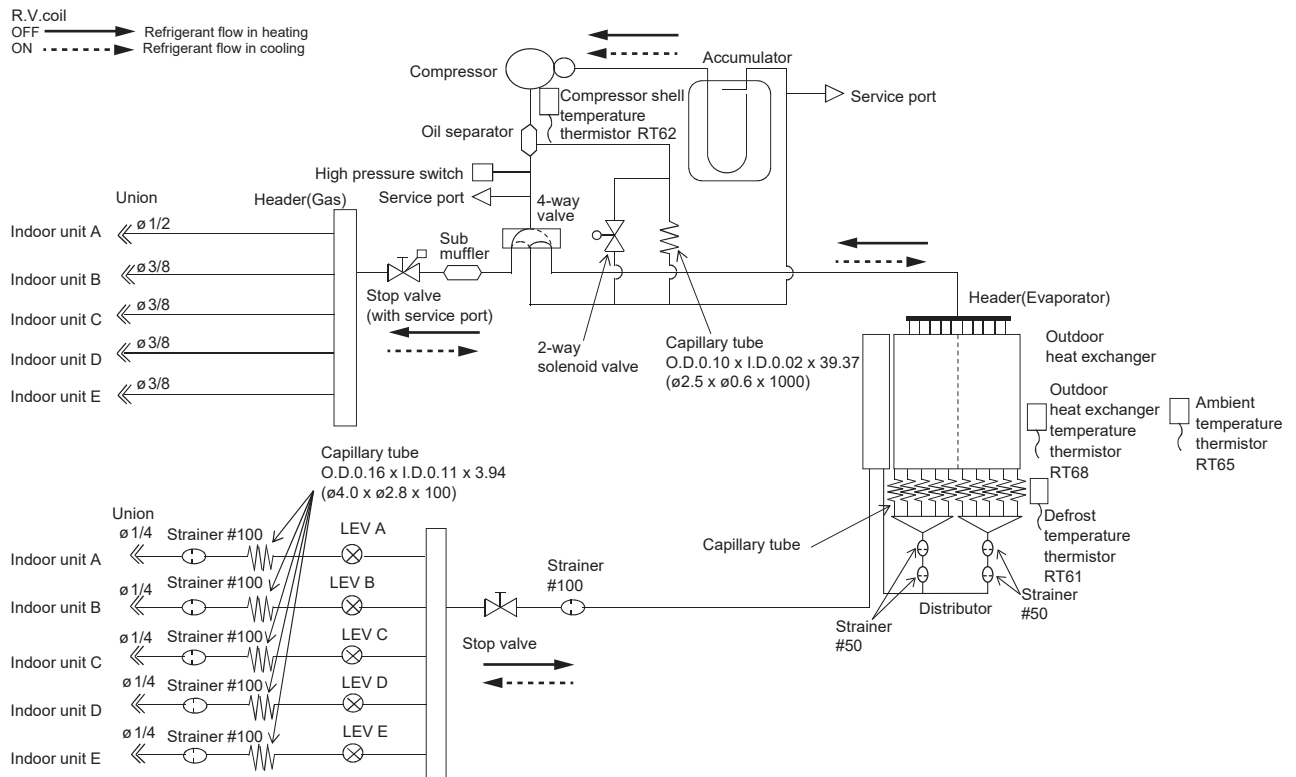
Outdoor unit union diameter		
For		
Indoor unit A	Liquid	1/4
	Gas	1/2
Indoor unit B	Liquid	1/4
	Gas	3/8
Indoor unit C	Liquid	1/4
	Gas	3/8
Indoor unit D	Liquid	1/4
	Gas	3/8

MXZ-5C42NA

Unit: inch (mm)



MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4



MXZ-5C42NA MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4

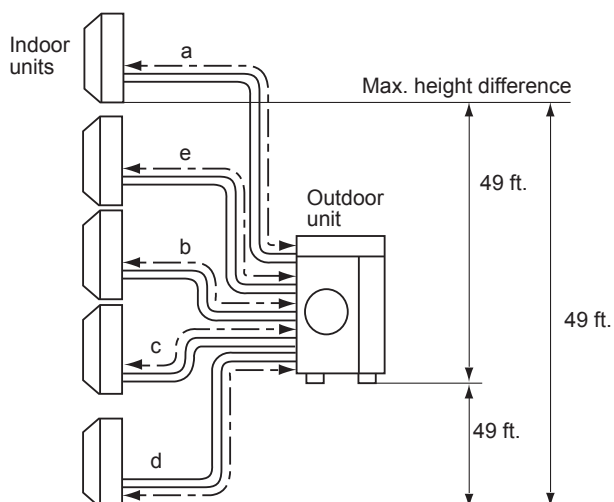
Operating Range

		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95°FDB, 71°FWB	115°FDB
	Minimum	67°FDB, 57°FWB	14°FDB
Heating	Maximum	80°FDB, 67°FWB	75°FDB, 65°FWB
	Minimum	70°FDB, 60°FWB	6°FDB, 5°FWB

MAX. REFRIGERANT PIPING LENGTH & PIPE SIZE SELECTION

Piping length each indoor unit (a, b, c, d, e)	82 ft. MAX.
Total piping length (a+b+c+d+e)	262 ft. MAX.
Bending point for each unit	25 MAX.
Total bending point	80 MAX.

*It is irrelevant which unit is higher.



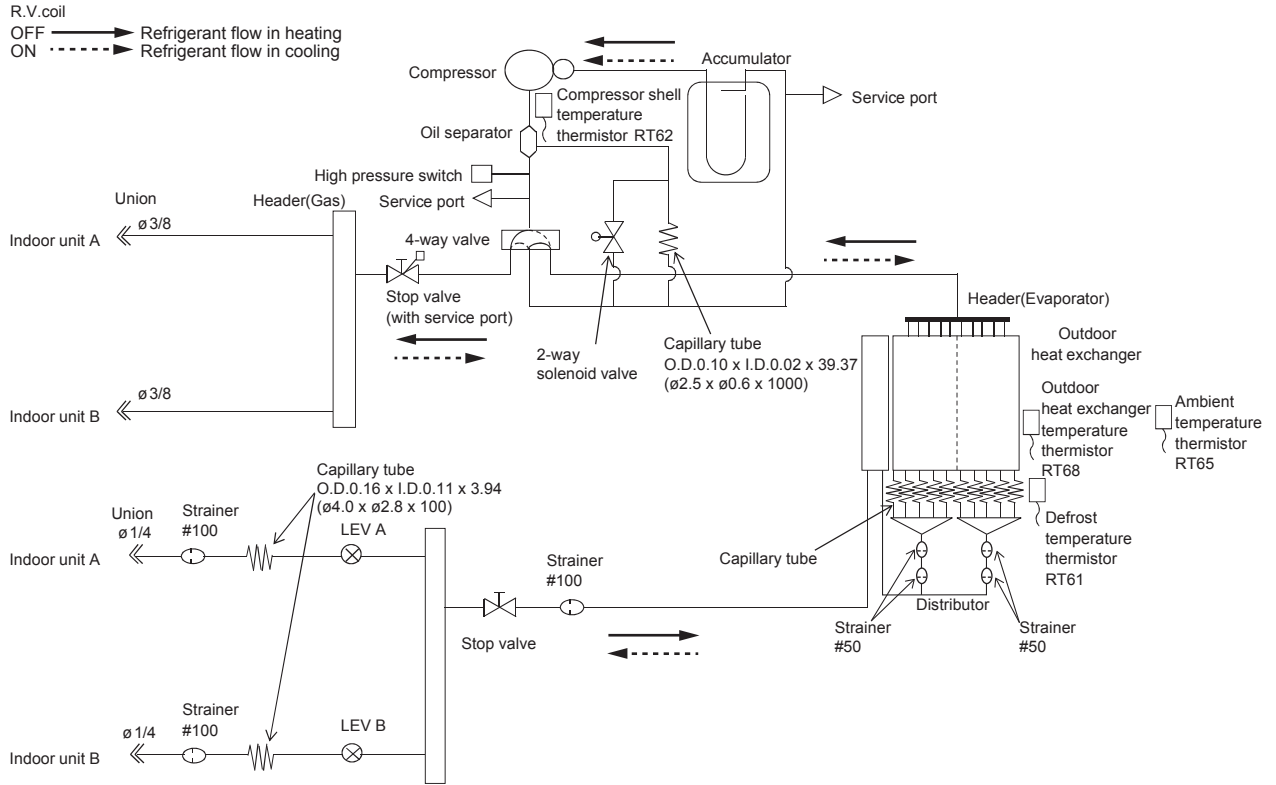
- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When the diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe, refer to "PARTS CATALOG".

Unit: inch

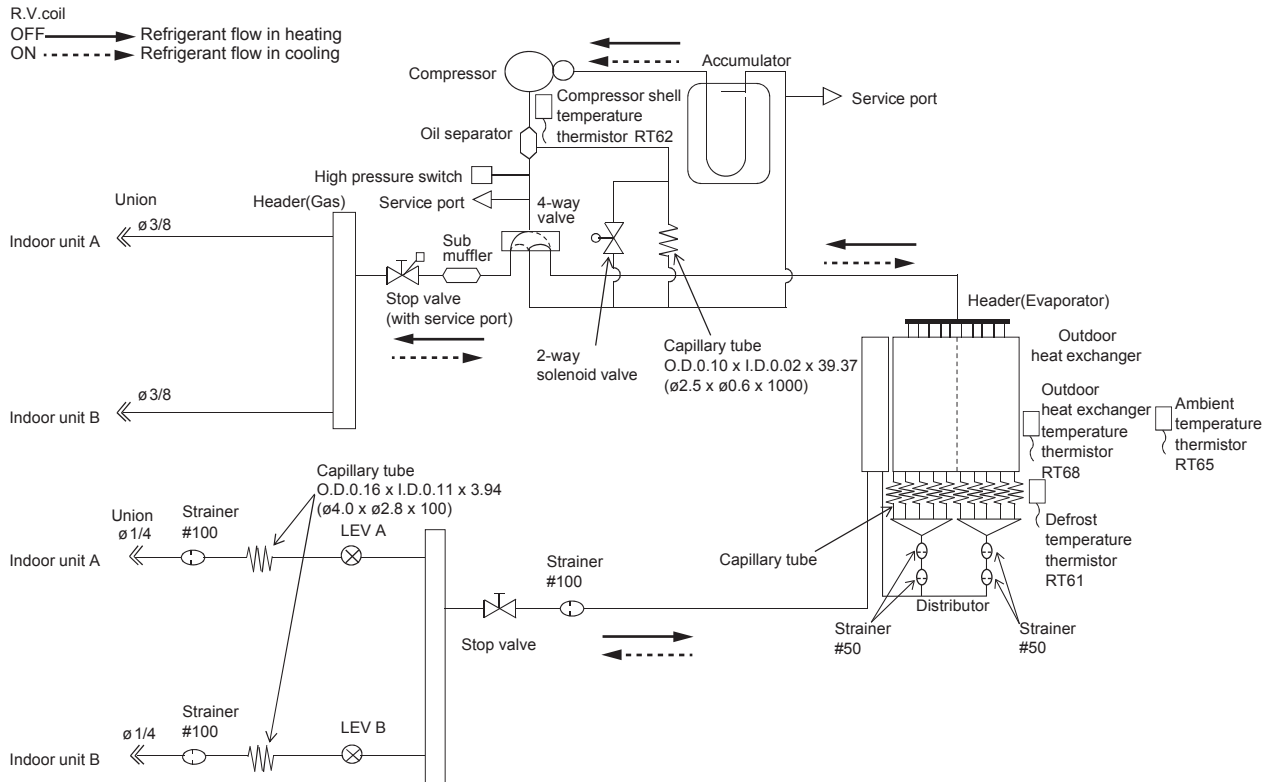
Outdoor unit union diameter		
For		
Indoor unit A	Liquid	1/4
	Gas	1/2
Indoor unit B	Liquid	1/4
	Gas	3/8
Indoor unit C	Liquid	1/4
	Gas	3/8
Indoor unit D	Liquid	1/4
	Gas	3/8
Indoor unit E	Liquid	1/4
	Gas	3/8

MXZ-2C20NAHZ

Unit: inch (mm)



MXZ-2C20NAHZ2 MXZ-2C20NAHZ3 MXZ-2C20NAHZ4



MXZ-2C20NAHZ MXZ-2C20NAHZ2 MXZ-2C20NAHZ3 MXZ-2C20NAHZ4

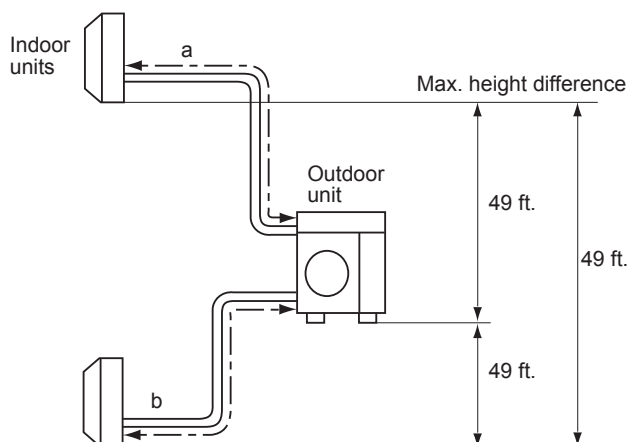
Operating Range

		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95°FDB, 71°FWB	115°FDB
	Minimum	67°FDB, 57°FWB	14°FDB
Heating	Maximum	80°FDB, 67°FWB	75°FDB, 65°FWB
	Minimum	70°FDB, 60°FWB	-12°FDB, -13°FWB

MAX. REFRIGERANT PIPING LENGTH & PIPE SIZE SELECTION

Piping length each indoor unit (a, b)	82 ft. MAX.
Total piping length (a+b)	164 ft. MAX.
Bending point for each unit	25 MAX.
Total bending point	50 MAX.

*It is irrelevant which unit is higher.



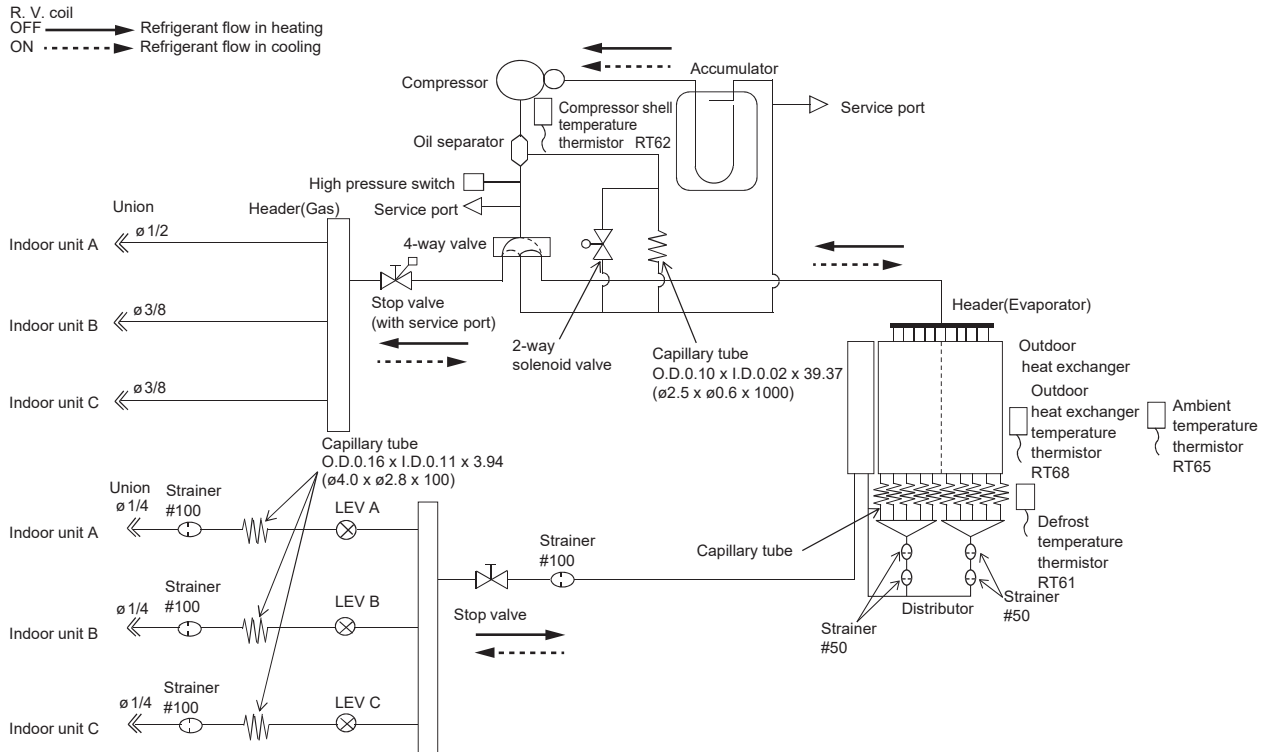
- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When the diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe, refer to "PARTS CATALOG".

Unit: inch

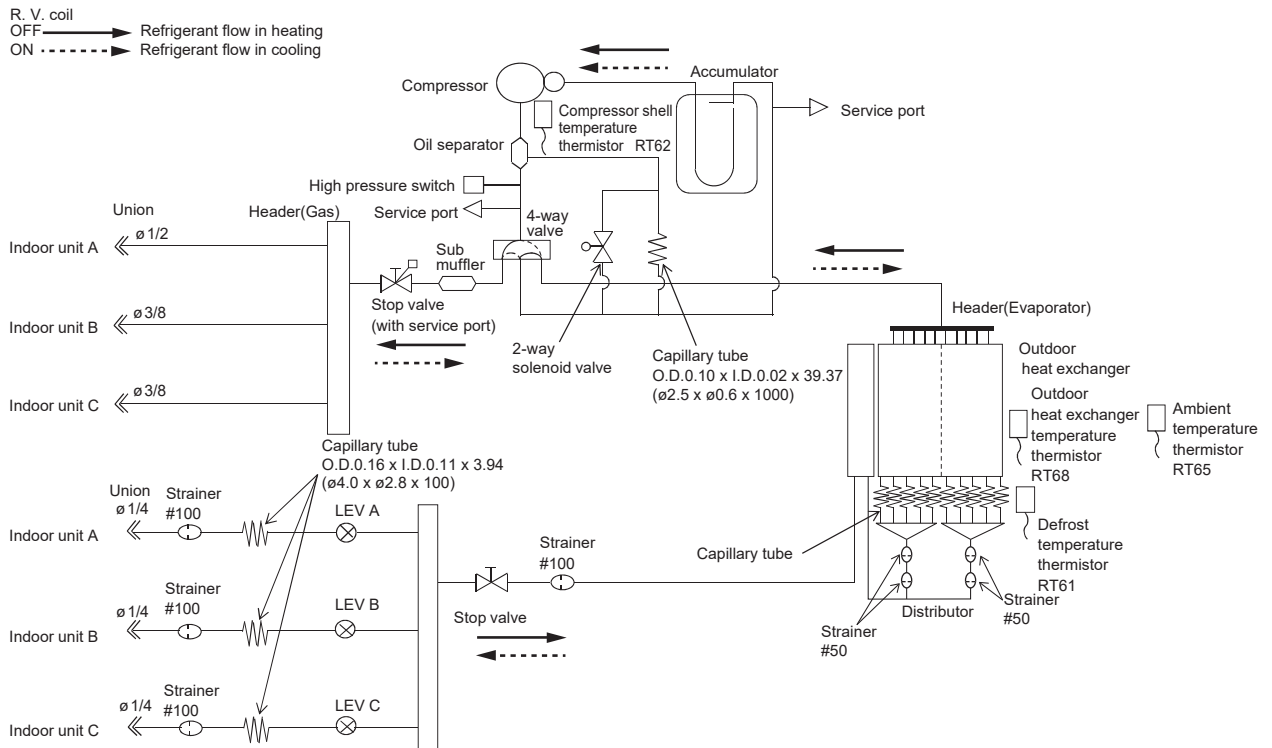
Outdoor unit union diameter		
For		
Indoor unit A	Liquid	1/4
	Gas	3/8
Indoor unit B	Liquid	1/4
	Gas	3/8

MXZ-3C24NAHZ MXZ-3C30NAHZ

Unit: inch (mm)



MXZ-3C24NAHZ2 MXZ-3C24NAHZ3 MXZ-3C24NAHZ4 MXZ-3C30NAHZ2 MXZ-3C30NAHZ3 MXZ-3C30NAHZ4



MXZ-3C24NAHZ MXZ-3C24NAHZ2 MXZ-3C24NAHZ3 MXZ-3C24NAHZ4
MXZ-3C30NAHZ MXZ-3C30NAHZ2 MXZ-3C30NAHZ3 MXZ-3C30NAHZ4

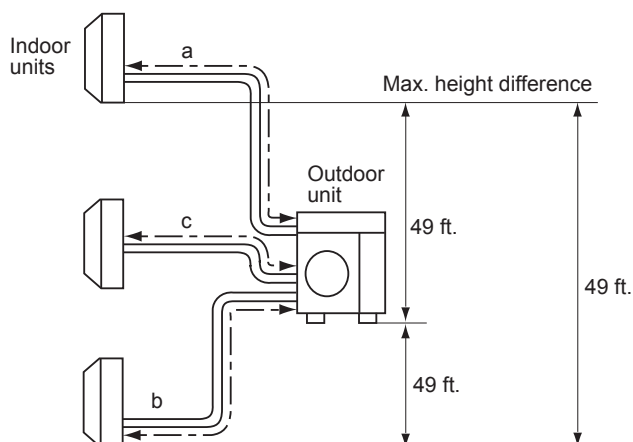
Operating Range

		Indoor intake air temperature	Outdoor intake air temperature
Cooling	Maximum	95°FDB, 71°FWB	115°FDB
	Minimum	67°FDB, 57°FWB	14°FDB
Heating	Maximum	80°FDB, 67°FWB	75°FDB, 65°FWB
	Minimum	70°FDB, 60°FWB	-12°FDB, -13°FWB

MAX. REFRIGERANT PIPING LENGTH & PIPE SIZE SELECTION

Piping length each indoor unit (a, b, c)	82 ft. MAX.
Total piping length (a+b+c)	230 ft. MAX.
Bending point for each unit	25 MAX.
Total bending point	70 MAX.

*It is irrelevant which unit is higher.



- Refrigerant pipe diameter is different according to indoor unit to be connected. When using extension pipes, refer to the tables below.
- When the diameter of refrigerant pipe is different from that of outdoor unit union, use optional Different-diameter pipe. For further information on Different-diameter pipe, refer to "PARTS CATALOG".

Unit: inch

Outdoor unit union diameter		
For		
Indoor unit A	Liquid	1/4
	Gas	1/2
Indoor unit B	Liquid	1/4
	Gas	3/8
Indoor unit C	Liquid	1/4
	Gas	3/8

PUMPING DOWN

When relocating or disposing of the air conditioner, pump down the system following the procedure below so that no refrigerant is released into the atmosphere.

- 1) Turn off the breaker.
- 2) Connect the gauge manifold valve to the service port of the stop valve on the gas pipe side of the outdoor unit.
- 3) Fully close the stop valve on the liquid pipe side of the outdoor unit.
- 4) Turn on the breaker.
- 5) Start the emergency COOL operation on all the indoor units.
- 6) When the pressure gauge shows 0.1 to 0 psi [Gauge] (0.05 to 0 MPa), fully close the stop valve on the gas pipe side of the outdoor unit and stop the operation. (Refer to the indoor unit installation manual about the method for stopping the operation.)
 - * If too much refrigerant has been added to the air conditioner system, the pressure may not drop to 0.1 to 0 psi [Gauge] (0.05 to 0 MPa), or the protection function may operate due to the pressure increase in the high pressure refrigerant circuit. If this occurs, use a refrigerant collecting device to collect all of the refrigerant in the system, and then recharge the system with the correct amount of refrigerant after the indoor and outdoor units have been relocated.
- 7) Turn off the breaker. Remove the pressure gauge and the refrigerant piping.

WARNING

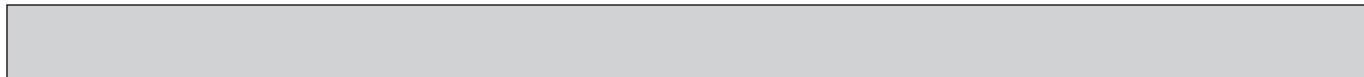
When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes. The compressor may burst and cause injury if any foreign substance, such as air, enters the pipes.

Model			MXZ-2C20NA2		MXZ-2C20NA3		MXZ-2C20NA4		MXZ-2C20NA4		
Indoor type			Non-Duct (09+09)		Duct (09+12)*1		Duct(09+12) *2				
Item		Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Total	Capacity	Btu/h	18,000	22,000	20,000	22,000	20,000	22,000	20,000	22,000	
	SHF	—	—	—	—	—	—	—	—	—	
	Input	kW	1.417	1.641	2.000	1.771	2.000	1.771	2.000	1.771	
Electrical circuit	Power supply (V, phase, Hz)		208/230, 1, 60								
	Input	kW	1.373	1.597	1.880	1.691	1.857	1.668			
	Comp. current (208/230V)	A	6.60 / 5.97	7.68 / 6.94	9.61 / 8.69	8.55 / 7.73	8.93 / 8.07	8.02 / 7.25			
	Fan motor current	A	0.2	0.2	0.2	0.2	0.2	0.2			
Refrigerant circuit	Condensing pressure		PSIG	396	328	419	351	433	335		
	Suction pressure		PSIG	146	94	130	100	133	101		
	Discharge temperature		°F	174	165	170	168	171	163		
	Condensing temperature		°F	116	100	160	101	122	104		
	Suction temperature		°F	74	47	55	49	56	46		
	Comp. shell bottom temp.		°F	173	163	160	157	134	116		
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [164]							
	Refrigerant charge (R410A)		—	5 lb. 15 oz.							
Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95	47		
		WB	°F	—	43	—	43	—	43		
	Fan speed		rpm	650	700	650	700	650	700		
	Airflow		CFM	1,342	1,458	1,342	1,458	1,342	1,458		

*1: SEZ-KD09NA + SEZ-KD12NA

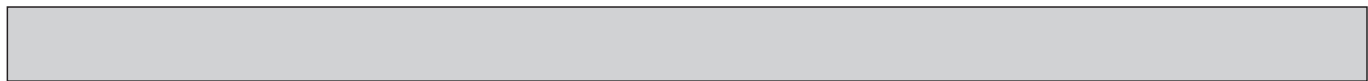
*2: PEAD-A09AA + PEAD-A12AA

Model			MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3				MXZ-3C24NA3		
Indoor type			Non-Duct (06+06+09)		Duct (09+09+09)		Duct(12+12)		
Item		Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Total	Capacity	Btu/h	22,000	25,000	23,600	24,600	23,600	24,000	
	SHF	—	—	—	—	—	—	—	
	Input	kW	1.62	1.75	2.10	1.90	2.195	1.890	
Electrical circuit	Power supply (V, phase, Hz)		208/230, 1, 60						
	Input	kW	1.554	1.684	1.920	1.780	2.031	1.766	
	Comp. current (208/230V)	A	7.47 / 6.76	8.1 / 7.32	9.23 / 8.35	8.56 / 7.74	9.76 / 8.83	8.49 / 7.68	
	Fan motor current	A	0.3	0.3	0.3	0.3	0.3	0.3	
Refrigerant circuit	Condensing pressure		PSIG	395	310	419	345	416	336
	Suction pressure		PSIG	162	101	138	102	145	102
	Discharge temperature		°F	143	137	155	141	153	138
	Condensing temperature		°F	116	98	120	106	119	104
	Suction temperature		°F	59	36	50	34	52	34
	Comp. shell bottom temp.		°F	137	128	146	131	150	134
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [230]					
	Refrigerant charge (R410A)		—	6lb. 13 oz.					
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
WB			°F	—	43	—	43	—	43
Fan speed		rpm	720	750	720	750	720	750	
Airflow		CFM	2,287	2,382	2,287	2,382	2,287	2,382	



Model			MXZ-3C24NA4						
Indoor type			Non-Duct (06+06+09)		Duct (09+09+09)		Duct (12+12)		
Item		Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Total	Capacity	Btu/h	22,000	25,000	23,600	24,600	23,600	24,000	
	SHF	—	—	—	—	—	—	—	
	Input	kW	1.61	1.74	2.10	1.89	2.11	1.85	
Electrical circuit	Power supply (V, phase, Hz)		208/230, 1, 60						
	Input	kW	1.554	1.684	1.920	1.780	1.907	1.651	
	Comp. current (208/230V)		A	7.47 / 6.76	8.1 / 7.32	9.23 / 8.35	8.56 / 7.74	9.17 / 8.29	7.94 / 7.18
	Fan motor current		A	0.3	0.3	0.3	0.3	0.3	0.3
Refrigerant circuit	Condensing pressure		PSIG	407	317	419	345	393	295
	Suction pressure		PSIG	161	98	138	102	146	107
	Discharge temperature		°F	147	140	155	141	138	123
	Condensing temperature		°F	116	110	120	106	115	95
	Suction temperature		°F	59	34	50	34	54	36
	Comp. shell bottom temp.		°F	141	131	146	131	144	128
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [230]					
	Refrigerant charge (R410A)		—	6lb. 13 oz.					
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
WB			°F	—	43	—	43	—	43
Fan speed		rpm	650	680	650	680	650	680	
Airflow		CFM	2,133	2,243	2,133	2,243	2,133	2,243	

Model			MXZ-3C30NA	MXZ-3C30NA2	MXZ-3C30NA3	MXZ-3C30NA3			
Indoor type			Non-Duct (09+09+12)		Duct (09+09+12)		Duct(15+15)		
Item		Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Total	Capacity	Btu/h	28,400	28,600	27,400	27,600	23,600	24,000	
	SHF	—	—	—	—	—	—	—	
	Input	kW	2.68	2.15	2.84	2.22	2.840	2.220	
Electrical circuit	Power supply (V, phase, Hz)		208/230, 1, 60						
	Input	kW	2.614	2.084	2.650	2.090	2.620	2.040	
	Comp. current (208/230V)		A	12.57 / 11.37	10.02 / 9.06	12.74 / 11.52	10.05 / 9.09	12.60/11.39	9.81/8.87
	Fan motor current		A	0.3	0.3	0.3	0.3	0.3	0.3
Refrigerant circuit	Condensing pressure		PSIG	432	323	439	323	441	303
	Suction pressure		PSIG	137	97	132	99	144	96
	Discharge temperature		°F	159	136	165	136	162	134
	Condensing temperature		°F	122	101	124	101	124	97
	Suction temperature		°F	49	32	47	32	52	31
	Comp. shell bottom temp.		°F	145	121	156	128	159	130
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [230]					
	Refrigerant charge (R410A)		—	6 lb.13 oz.					
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
WB			°F	—	43	—	43	—	43
Fan speed		rpm	720	750	720	750	720	750	
Airflow		CFM	2,287	2,382	2,287	2,382	2,287	2,382	



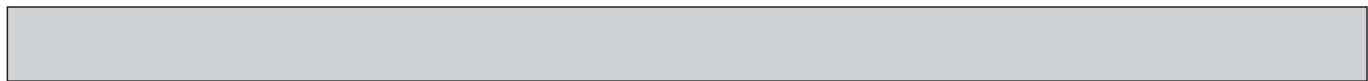
Model			MXZ-3C30NA4							
Indoor type			Non-Duct (09+09+12)		Duct (09+09+12)		Duct (18+18)			
Item		Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating		
Total	Capacity	Btu/h	28,400	28,600	27,400	27,600	27,400	27,600		
	SHF	—	—	—	—	—	—	—		
	Input	kW	2.67	2.149	2.84	2.22	2.85	2.25		
Electrical circuit	Power supply (V, phase, Hz)		208/230, 1, 60							
	Input	kW	2.614	2.084	2.650	2.090	2.534	1.927		
	Comp. current (208/230V)		A	12.57 / 11.37	10.02 / 9.06	12.74 / 11.52	10.05 / 9.09	12.18 / 11.02	9.26 / 8.38	
	Fan motor current		A	0.3	0.3	0.3	0.3	0.3	0.3	
Refrigerant circuit	Condensing pressure		PSIG	440	323	440	323	412	289	
	Suction pressure		PSIG	142	94	130	99	151	101	
	Discharge temperature		°F	161	139	160	136	143	121	
	Condensing temperature		°F	121	101	119	101	119	93	
	Suction temperature		°F	52	30	52	32	57	34	
	Comp. shell bottom temp.		°F	147	124	151	128	150	127	
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [230]						
	Refrigerant charge (R410A)		—	6 lb.13 oz.						
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95	47
			WB	°F	—	43	—	43	—	43
Fan speed		rpm	650	680	650	680	650	680		
Airflow		CFM	2,133	2,243	2,133	2,243	2,133	2,243		

Model			MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3				MXZ-4C36NA3		
Indoor type			Non-Duct (09+09+09+09)		Duct (09+09+09+09)		Duct(18+18)		
Item		Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Total	Capacity	Btu/h	35,400	36,000	34,400	34,400	33,400	34,400	
	SHF	—	—	—	—	—	—	—	
	Input	kW	3.76	3.02	3.94	3.10	3.839	3.10	
Electrical circuit	Power supply (V, phase, Hz)		208/230, 1, 60						
	Input	kW	3.672	2.932	3.700	2.940	3.619	2.920	
	Comp. current (208/230V)		A	17.65 / 15.97	14.1 / 12.75	17.79 / 16.09	14.13 / 12.78	17.40/15.73	14.04/12.70
	Fan motor current		A	0.3	0.3	0.3	0.3	0.3	0.3
Refrigerant circuit	Condensing pressure		PSIG	461	297	470	334	479	325
	Suction pressure		PSIG	141	89	129	91	134	90
	Discharge temperature		°F	172	138	176	147	176	143
	Condensing temperature		°F	127	95	129	103	130	101
	Suction temperature		°F	51	28	46	29	48	28
	Comp. shell bottom temp.		°F	162	130	165	139	173	140
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [230]					
	Refrigerant charge (R410A)		—	6 lb.13 oz.					
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
WB			°F	—	43	—	43	—	43
Fan speed		rpm	720	750	720	750	720	750	
Airflow		CFM	2,287	2,382	2,287	2,382	2,287	2,382	



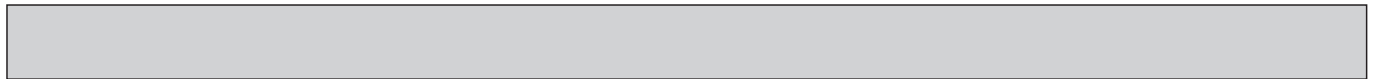
Model			MXZ-4C36NA4							
Indoor type			Non-Duct (09+09+09+09)		Duct (09+09+09+09)		Duct (18+18)			
Item		Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating		
Total	Capacity	Btu/h	35,400	36,000	34,400	34,400	33,400	34,400		
	SHF	—	—	—	—	—	—	—		
	Input	kW	3.76	3.01	3.94	3.09	3.84	3.09		
Electrical circuit	Power supply (V, phase, Hz)		208/230, 1, 60							
	Input	kW	3.672	2.932	3.700	2.940	3.520	2.770		
	Comp. current (208/230V)		A	17.65 / 15.97	14.1 / 12.75	17.79 / 16.09	14.13 / 12.78	16.92 / 15.30	13.32 / 12.04	
	Fan motor current		A	0.3	0.3	0.3	0.3	0.3	0.3	
Refrigerant circuit	Condensing pressure		PSIG	479	297	470	334	455	313	
	Suction pressure		PSIG	143	86	129	91	137	95	
	Discharge temperature		°F	175	140	176	147	158	132	
	Condensing temperature		°F	128	95	129	103	126	99	
	Suction temperature		°F	51	26	46	29	53	31	
	Comp. shell bottom temp.		°F	165	132	165	139	165	139	
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [230]						
	Refrigerant charge (R410A)		—	6 lb.13 oz.						
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95	47
			WB	°F	—	43	—	43	—	43
Fan speed		rpm	650	680	650	680	650	680		
Airflow		CFM	2,133	2,243	2,133	2,243	2,133	2,243		

Model			MXZ-5C42NA MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4				MXZ-5C42NA4		
Indoor type			Non-Duct (06+09+09+09+09)		Duct (09+09+09+09+09)		Duct(24+24)		
Item		Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Total	Capacity	Btu/h	40,500	45,000	37,400	41,000	36,400	41,000	
	SHF	—	—	—	—	—	—	—	
	Input	kW	4.41	3.58	4.112	3.403	4.045	4.52	
Electrical circuit	Power supply (V, phase, Hz)		208/230, 1, 60						
	Input		kW	4.300	3.465	3.870	3.270	3.685	4.160
	Comp. current (208/230V)		A	20.67 / 18.7	16.66 / 15.07	18.61 / 16.83	15.72 / 14.22	17.72/16.02	20.00/18.09
	Fan motor current		A	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39
Refrigerant circuit	Condensing pressure		PSIG	466	305	446	326	449	325
	Suction pressure		PSIG	153	93	137	98	133	96
	Discharge temperature		°F	172	155	165	143	165	152
	Condensing temperature		°F	127	97	124	102	125	101
	Suction temperature		°F	53	27	47	29	49	32
	Comp. shell bottom temp.		°F	156	138	145	121	165	152
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [262]					
	Refrigerant charge (R410A)		—	8 lb. 13 oz.					
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
WB			°F	—	43	—	43	—	43
Fan speed		rpm	630	730	630	730	630	730	
Airflow		CFM	2,118	2,542	2,118	2,542	2,118	2,542	



Model				MXZ-2C20NAHZ MXZ-2C20NAHZ3		MXZ-2C20NAHZ2 MXZ-2C20NAHZ4		MXZ-2C20NAHZ4	
Indoor type				Non-Duct (09+09)		Duct (09+12)		Duct(12+12)	
Item			Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating
Total	Capacity		Btu/h	18,000	22,000	20,000	22,000	20,000	22,000
	SHF		—	—	—	—	—	—	—
	Input		kW	1.34	1.62	1.82	1.75	1.82	1.75
Electrical circuit	Power supply (V, phase, Hz)			208/230, 1, 60					
	Input		kW	1.296	1.574	1.670	1.660	1.619	1.550
	Comp. current (208/230V)		A	6.23 / 5.63	7.57 / 6.84	8.03 / 7.26	7.98 / 7.22	7.78 / 7.04	7.45 / 6.74
	Fan motor current		A	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39
Refrigerant circuit	Condensing pressure		PSIG	406	341	406	334	366	235
	Suction pressure		PSIG	154	110	133	113	159	112
	Discharge temperature		°F	158	131	148	141	125	128
	Condensing temperature		°F	108	105	112	103	110	80
	Suction temperature		°F	60	37	46	37	58	38
	Comp. shell bottom temp.		°F	137	107	127	117	126	128
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [164]					
	Refrigerant charge (R410A)		—	8 lb. 13 oz.					
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
WB			°F	—	43	—	43	—	43
Fan speed		rpm	630	730	630	730	630	730	
Airflow		CFM	2,118	2,542	2,118	2,542	2,118	2,542	

Model				MXZ-3C24NAHZ MXZ-3C24NAHZ3		MXZ-3C24NAHZ2 MXZ-3C24NAHZ4		MXZ-3C24NAHZ4	
Indoor type				Non-Duct (06+06+09)		Duct (09+09+09)		Duct(12+12)	
Item			Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating
Total	Capacity		Btu/h	22,000	25,000	23,600	24,600	23,600	24,600
	SHF		—	—	—	—	—	—	
	Input		kW	1.63	1.73	2.36	1.88	2.36	1.955
Electrical circuit	Power supply (V, phase, Hz)			208/230, 1, 60					
	Input		kW	1.564	1.661	2.180	1.760	2.160	1.750
	Comp. current (208/230V)		A	7.52 / 6.8	7.99 / 7.22	10.48 / 9.48	8.46 / 7.65	10.38 / 9.39	8.41 / 7.61
	Fan motor current		A	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39
Refrigerant circuit	Condensing pressure		PSIG	397	302	377	329	398	248
	Suction pressure		PSIG	164	106	136	109	144	109
	Discharge temperature		°F	144	122	152	127	141	132
	Condensing temperature		°F	114	97	115	103	116	83
	Suction temperature		°F	59	42	48	36	53	37
	Comp. shell bottom temp.		°F	128	105	136	109	142	132
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [230]					
	Refrigerant charge (R410A)		—	8 lb. 13 oz.					
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
WB			°F	—	43	—	43	—	43
Fan speed		rpm	630	730	630	730	630	730	
Airflow		CFM	2,118	2,542	2,118	2,542	2,118	2,542	



Model				MXZ-3C30NAHZ MXZ-3C30NAHZ3		MXZ-3C30NAHZ2 MXZ-3C30NAHZ4		MXZ-3C30NAHZ4	
Indoor type				Non-Duct (09+09+12)		Duct (09+09+12)		Duct(18+18)	
Item			Unit	Cooling	Heating	Cooling	Heating	Cooling	Heating
Total	Capacity		Btu/h	28,400	28,600	27,400	27,600	27,400	27,600
	SHF		—	—	—	—	—	—	—
	Input		kW	2.28	2.10	2.67	2.19	2.66	2.28
Electrical circuit	Power supply (V, phase, Hz)			208/230, 1, 60					
	Input		kW	2.214	2.031	2.480	2.060	2.340	1.960
	Comp. current (208/230V)		A	10.64 / 9.63	9.76 / 8.83	11.92 / 10.78	9.9 / 8.96	11.25 / 10.17	9.42 / 8.52
	Fan motor current		A	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39	0.43 / 0.39
Refrigerant circuit	Condensing pressure		PSIG	404	321	416	329	412	272
	Suction pressure		PSIG	146	103	131	107	153	102
	Discharge temperature		°F	146	131	153	128	147	125
	Condensing temperature		°F	117	101	118	103	119	89
	Suction temperature		°F	52	35	45	35	55	35
	Comp. shell bottom temp.		°F	129	111	135	108	148	125
	Ref. pipe length [Total pipe length for multi-system]		ft	82 [230]					
	Refrigerant charge (R410A)		—	8 lb. 13 oz.					
	Outdoor unit	Intake air temperature	DB	°F	95	47	95	47	95
WB			°F	—	43	—	43	—	43
Fan speed		rpm	650	730	630	730	630	730	
Airflow		CFM	2,224	2,542	2,118	2,542	2,118	2,542	

9-1. OPERATING RANGE

(1) POWER SUPPLY

	Model		Rating	Guaranteed Voltage
Outdoor unit	MXZ-2C20NA2 MXZ-2C20NA3 MXZ-2C20NA4 MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3 MXZ-3C24NA4 MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3 MXZ-3C30NA4 MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3 MXZ-4C36NA4 MXZ-5C42NA MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4	MXZ-2C20NAHZ MXZ-2C20NAHZ2 MXZ-2C20NAHZ3 MXZ-2C20NAHZ4 MXZ-3C24NAHZ MXZ-3C24NAHZ2 MXZ-3C24NAHZ3 MXZ-3C24NAHZ4 MXZ-3C30NAHZ MXZ-3C30NAHZ2 MXZ-3C30NAHZ3 MXZ-3C30NAHZ4	208/230 V 60 Hz 1ø	Min. 198 V 208 V 230 V Max. 253 V ----- ----- ----- ----- -----

(2) OPERATION

Function	Intake air temperature Condition	Indoor		Outdoor	
		DB (°F)	WB (°F)	DB (°F)	WB (°F)
Cooling	"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	Standard rating-heating at rated compressor speed	70	60	47	43
	Low temperature heating at rated compressor speed	70	60	17	15
	Max. 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

MXZ-3C24NA	MXZ-3C30NA	MXZ-4C36NA	MXZ-5C42NA	
MXZ-2C20NA2	MXZ-3C24NA2	MXZ-3C30NA2	MXZ-4C36NA2	MXZ-5C42NA2
MXZ-2C20NA3	MXZ-3C24NA3	MXZ-3C30NA3	MXZ-4C36NA3	MXZ-5C42NA3
MXZ-2C20NA4	MXZ-3C24NA4	MXZ-3C30NA4	MXZ-4C36NA4	MXZ-5C42NA4
MXZ-2C20NAHZ	MXZ-3C24NAHZ	MXZ-3C30NAHZ		
MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2		
MXZ-2C20NAHZ3	MXZ-3C24NAHZ3	MXZ-3C30NAHZ3		
MXZ-2C20NAHZ4	MXZ-3C24NAHZ4	MXZ-3C30NAHZ4		

The standard specifications apply only to the operation of the air conditioner under normal conditions.

Since operating conditions vary according to the areas where these units are installed, the following information has been provided to clarify the operating characteristics of the air conditioner under the conditions indicated by the performance curve.

(1) GUARANTEED VOLTAGE

198 ~ 253 V 60 Hz

(2) AIR FLOW

Air flow should be set at MAX.

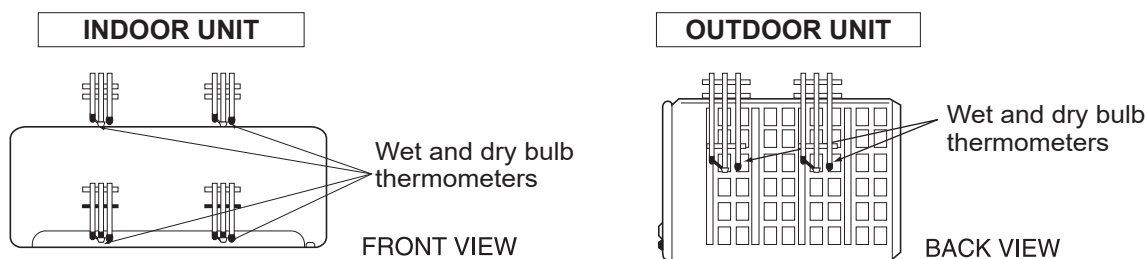
(3) MAIN READINGS

(1) Indoor intake air wet-bulb temperature :	°FWB	} Cooling
(2) Indoor outlet air wet-bulb temperature :	°FWB	
(3) Outdoor intake air dry-bulb temperature :	°FDB	
(4) Total input:	W	} Heating
(5) Indoor intake air dry-bulb temperature :	°FDB	
(6) Outdoor intake air wet-bulb temperature :	°FWB	
(7) Total input :	W	

Indoor air wet and dry bulb temperature difference on the left side of the following chart shows the difference between the indoor intake air wet and dry bulb temperature and the indoor outlet air wet and dry bulb temperature for your reference at service.

How to measure the indoor air wet and dry bulb temperature difference

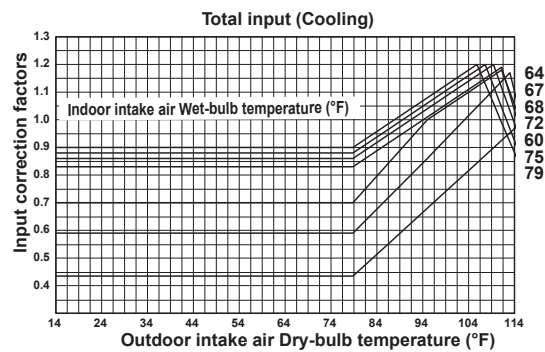
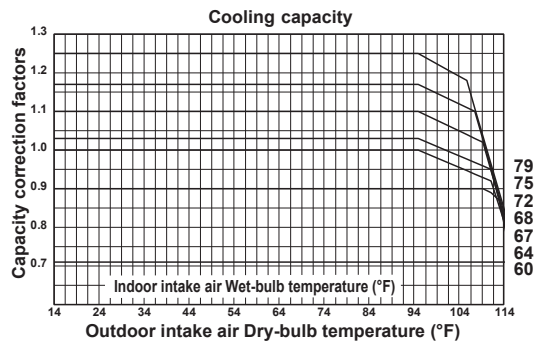
1. Attach at least 2 sets of wet and dry bulb thermometers to the indoor air intake as shown in the figure, and at least 2 sets of wet and dry bulb thermometers to the indoor air outlet. The thermometers must be attached to the position where air speed is high.
2. Attach at least 2 sets of wet and dry bulb thermometers to the outdoor air intake.
Cover the thermometers to prevent direct rays of the sun.
3. Check that the air filter is cleaned.
4. Open windows and doors of room.
5. Press the EMERGENCY OPERATION switch once (twice) to start the EMERGENCY COOL (HEAT) MODE.
6. Compressor starts running at 33 Hz (COOL) or 45 Hz (HEAT). The frequency at each operation mode is fixed.
7. When system stabilizes after more than 15 minutes, measure temperature and take an average temperature.
8. 10 minutes later, measure temperature again and check that the temperature does not change.



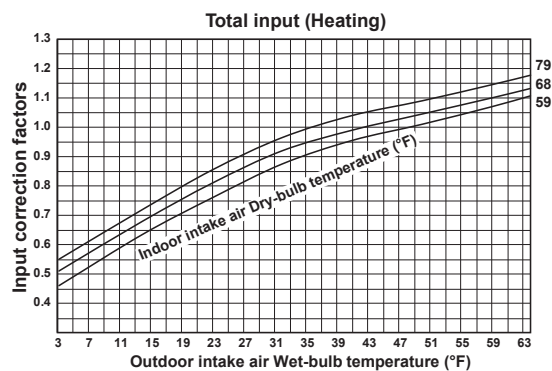
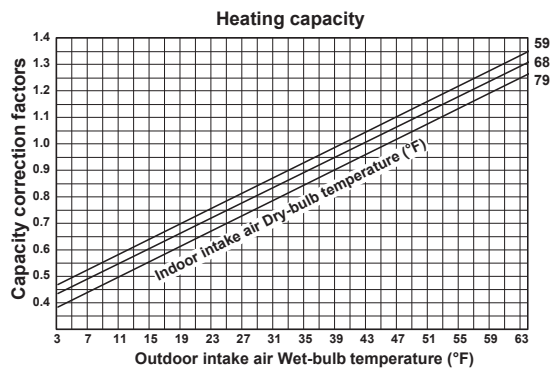
9-2. CAPACITY AND THE INPUT CURVES

MXZ-2C20NA2 MXZ-2C20NA3 MXZ-2C20NA4

Indoor air Wet-bulb temperature difference (°F)	6.8	9.6	11.7	11.4
	6.2	8.8	10.7	10.5
	5.7	8.0	9.7	9.5
	5.1	7.2	8.7	8.5
	4.6	6.5	7.8	7.6
	4.1	5.8	6.9	6.7
	3.6	5.1	6.0	5.8
	06 class	09 class	12 class	15 class

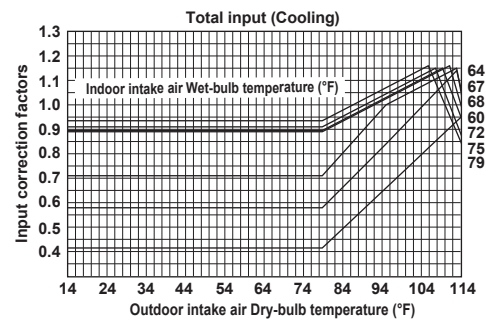
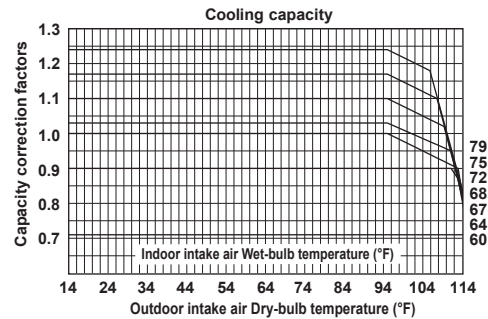


Indoor air Wet-bulb temperature difference (°F)	26.1	36.7	48.2	52.8
	24.3	34.0	44.8	49.1
	22.5	31.3	41.4	45.4
	20.5	28.8	38.0	41.6
	18.5	25.7	34.0	37.4
	16.6	23.2	30.6	33.7
	14.8	20.7	27.2	29.9
	13.0	18.0	24.1	26.5
	11.0	15.3	20.2	22.1
	9.2	13.0	17.1	18.7
	7.4	10.3	13.5	14.8
	06 class	09 class	12 class	15 class

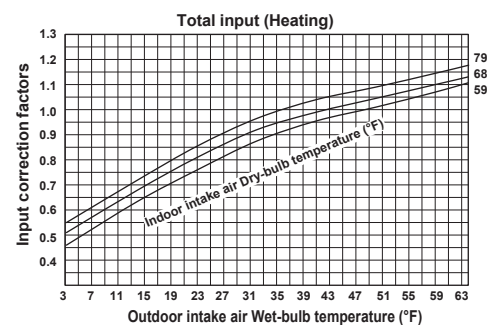
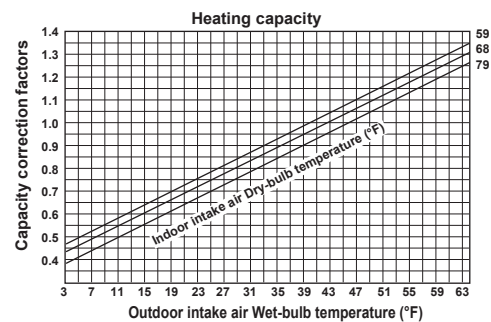


MXZ-3C24NA	MXZ-3C24NA2	MXZ-3C24NA3	MXZ-3C24NA4
MXZ-3C30NA	MXZ-3C30NA2	MXZ-3C30NA3	MXZ-3C30NA4
MXZ-4C36NA	MXZ-4C36NA2	MXZ-4C36NA3	MXZ-4C36NA4

	6.8	9.6	11.7		11.4	14.5		13.2
	6.2	8.8	10.7		10.5	13.2		12.1
	5.7	8.0	9.7		9.5	12.0		10.9
	5.1	7.2	8.7		8.5	10.7		9.8
	4.6	6.5	7.8		7.6	9.5		8.7
	4.1	5.8	6.9		6.7	8.3		7.6
	3.6	5.1	6.0		5.8	7.1		6.5
Indoor air Wet-bulb temperature difference (°F)								
06 class		09 class	12 class		15 class	18 class		24 class



	26.1	36.7	48.2		52.8	56.5		42.9
	24.3	34.0	44.8		49.1	52.8		39.8
	22.5	31.3	41.4		45.4	49.1		36.7
	20.5	28.8	38.0		41.6	45.2		33.7
	18.5	25.7	34.0		37.4	40.5		30.2
	16.6	23.2	30.6		33.7	36.5		27.2
	14.8	20.7	27.2		29.9	32.4		24.1
	13.0	18.0	24.1		26.5	29.0		21.4
	11.0	15.3	20.2		22.1	24.1		18.0
	9.2	13.0	17.1		18.7	20.5		15.1
	7.4	10.3	13.5		14.8	16.0		11.9
Indoor air Wet-bulb temperature difference (°F)								
06 class		09 class	12 class		15 class	18 class		24 class



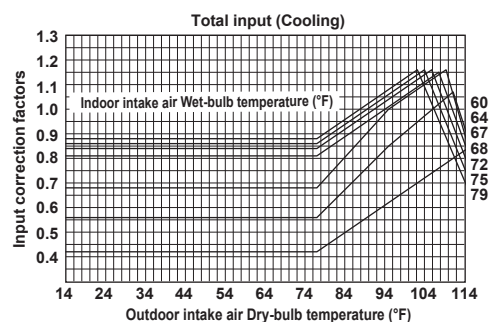
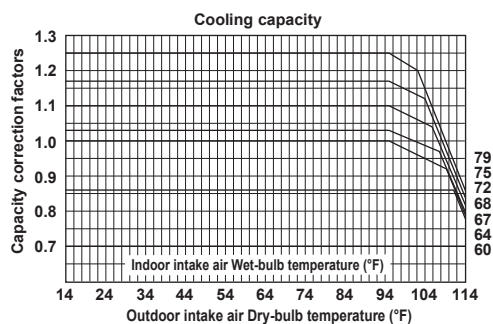
MXZ-5C42NA

MXZ-5C42NA2

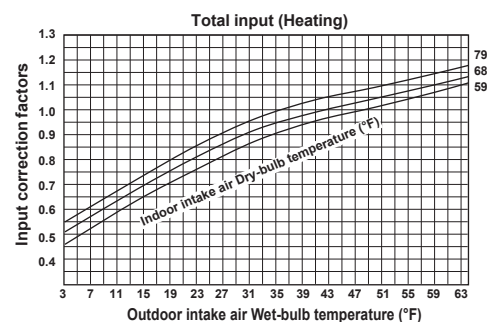
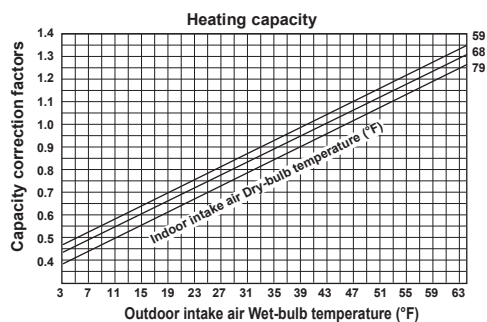
MXZ-5C42NA3

MXZ-5C42NA4

6.8	9.6	11.7	11.4	14.5	13.2
6.2	8.8	10.7	10.5	13.2	12.1
5.7	8.0	9.7	9.5	12.0	10.9
5.1	7.2	8.7	8.5	10.7	9.8
4.6	6.5	7.8	7.6	9.5	8.7
4.1	5.8	6.9	6.7	8.3	7.6
3.6	5.1	6.0	5.8	7.1	6.5
06 class	09 class	12 class	15 class	18 class	24 class

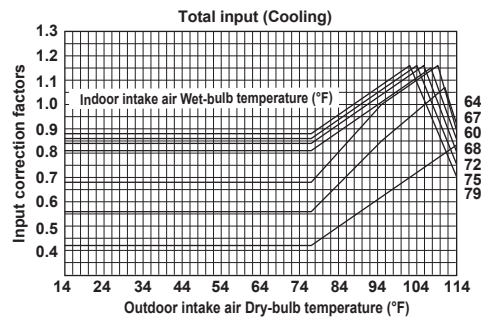
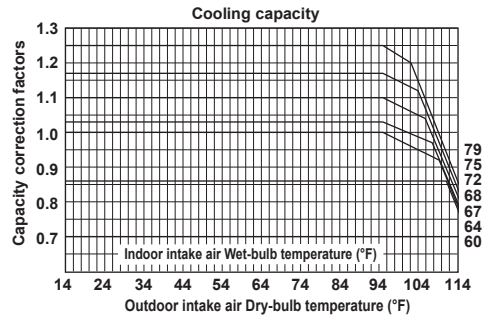


26.1	36.7	48.2	52.8	56.5	42.9
24.3	34.0	44.8	49.1	52.8	39.8
22.5	31.3	41.4	45.4	49.1	36.7
20.5	28.8	38.0	41.6	45.2	33.7
18.5	25.7	34.0	37.4	40.5	30.2
16.6	23.2	30.6	33.7	36.5	27.2
14.8	20.7	27.2	29.9	32.4	24.1
13.0	18.0	24.1	26.5	29.0	21.4
11.0	15.3	20.2	22.1	24.1	18.0
9.2	13.0	17.1	18.7	20.5	15.1
7.4	10.3	13.5	14.8	16.0	11.9
06 class	09 class	12 class	15 class	18 class	24 class

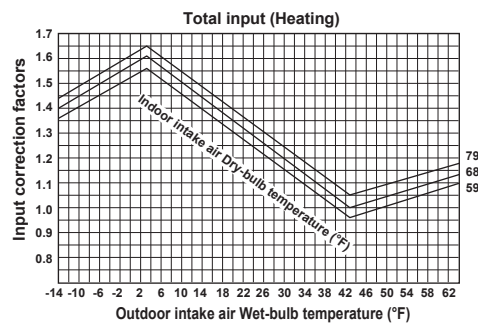
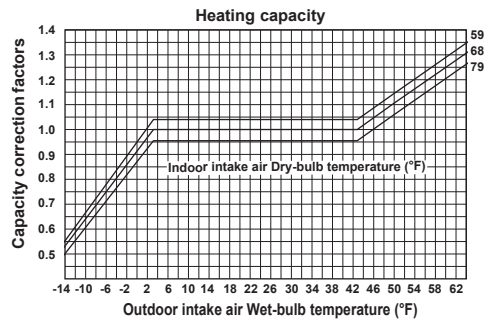


MXZ-2C20NAHZ **MXZ-2C20NAHZ2** **MXZ-2C20NAHZ3** **MXZ-2C20NAHZ4**
MXZ-3C24NAHZ **MXZ-3C24NAHZ2** **MXZ-3C24NAHZ3** **MXZ-3C24NAHZ4**
MXZ-3C30NAHZ **MXZ-3C30NAHZ2** **MXZ-3C30NAHZ3** **MXZ-3C30NAHZ4**

6.8	9.6	11.7	11.4	14.5	13.2
6.2	8.8	10.7	10.5	13.2	12.1
5.7	8.0	9.7	9.5	12.0	10.9
5.1	7.2	8.7	8.5	10.7	9.8
4.6	6.5	7.8	7.6	9.5	8.7
4.1	5.8	6.9	6.7	8.3	7.6
3.6	5.1	6.0	5.8	7.1	6.5
06 class	09 class	12 class	15 class	18 class	24 class

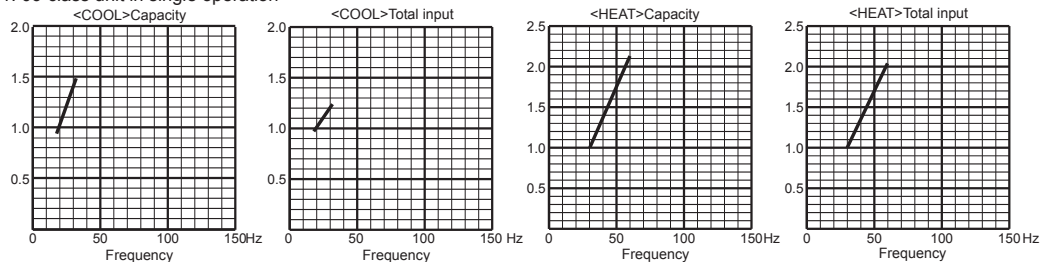


26.1	36.7	48.2	52.8	56.5	42.9
24.3	34.0	44.8	49.1	52.8	39.8
22.5	31.3	41.4	45.4	49.1	36.7
20.5	28.8	38.0	41.6	45.2	33.7
18.5	25.7	34.0	37.4	40.5	30.2
16.6	23.2	30.6	33.7	36.5	27.2
14.8	20.7	27.2	29.9	32.4	24.1
13.0	18.0	24.1	26.5	29.0	21.4
11.0	15.3	20.2	22.1	24.1	18.0
9.2	13.0	17.1	18.7	20.5	15.1
06 class	09 class	12 class	15 class	18 class	24 class

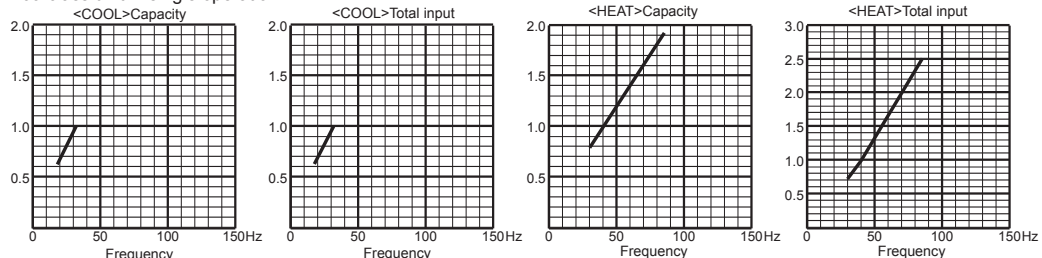


9-3. CAPACITY AND INPUT CORRECTION BY MEANS OF INVERTER OUTPUT FREQUENCY (OUTDOOR UNIT: MXZ-2C20NA2 MXZ-2C20NA3 MXZ-2C20NA4)

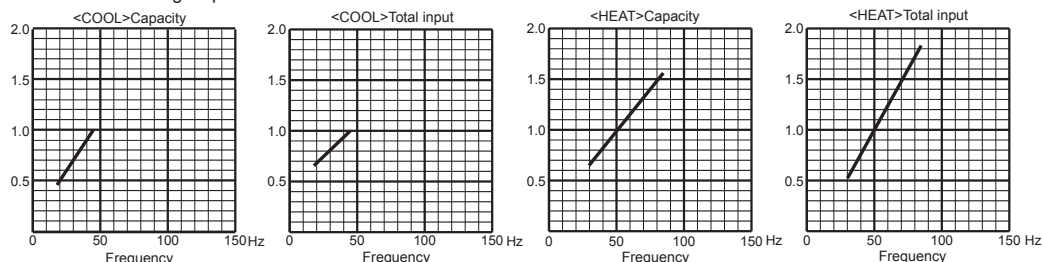
1. 06-class unit in single operation



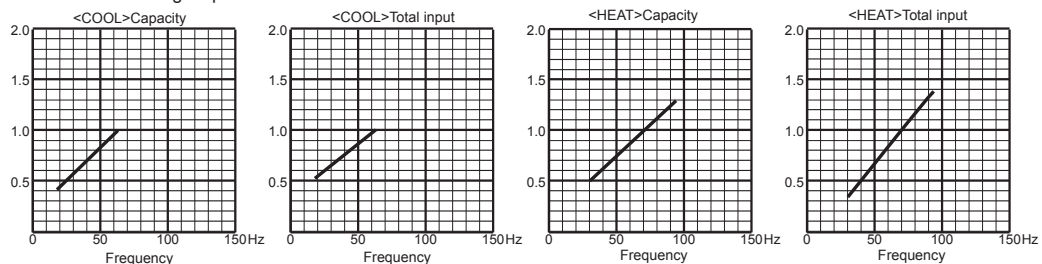
2. 09-class unit in single operation



3. 12-class unit in single operation

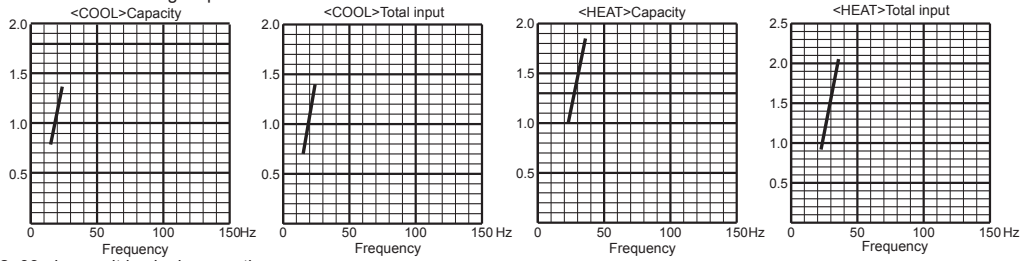


4. 15-class unit in single operation

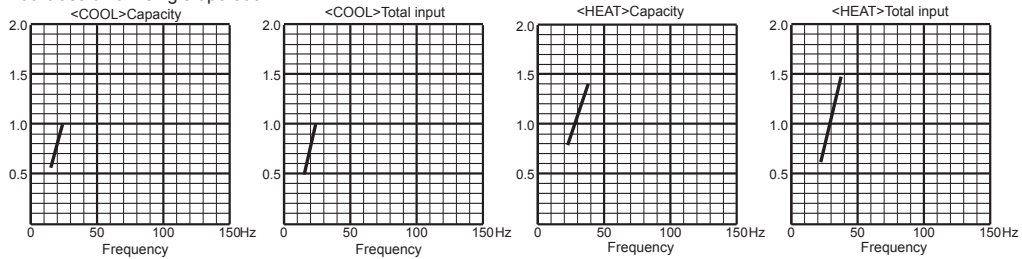


**(OUTDOOR UNIT: MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3 MXZ-3C24NA4
MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3 MXZ-3C30NA4
MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3 MXZ-4C36NA4)**

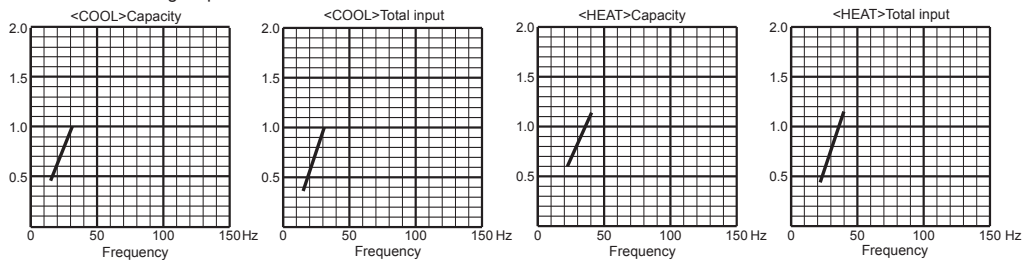
1. 06-class unit in single operation



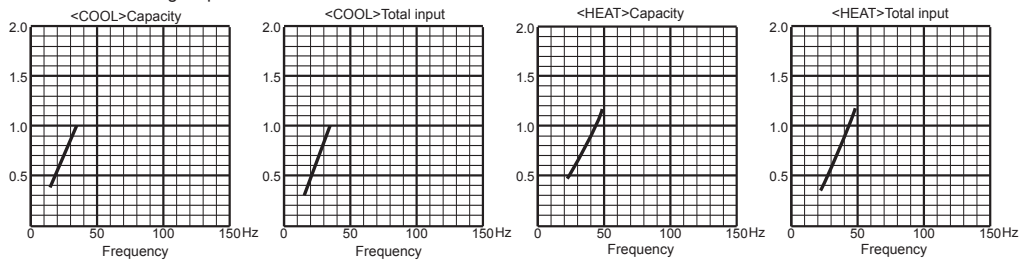
2. 09-class unit in single operation



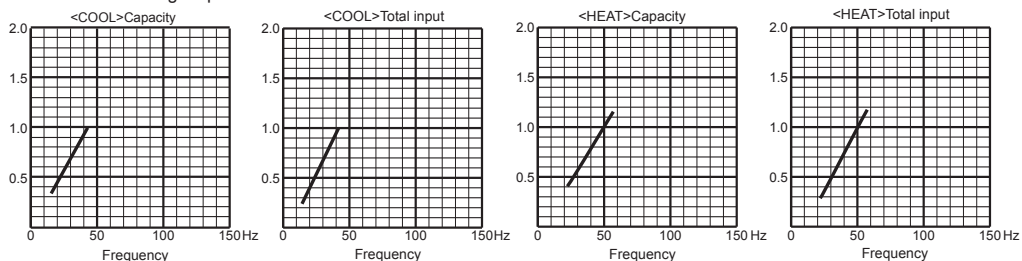
3. 12-class unit in single operation



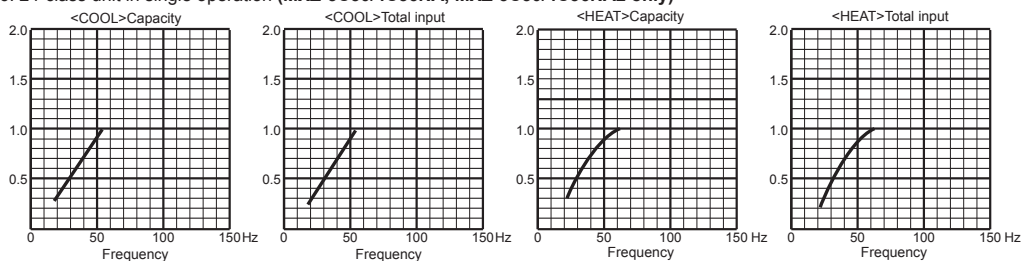
4. 15-class unit in single operation



5. 18-class unit in single operation

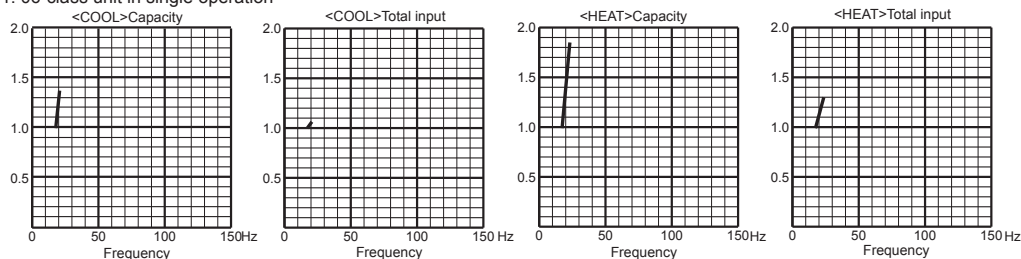


6. 24-class unit in single operation (MXZ-3C30/4C36NA, MXZ-3C30/4C36NA2 only)

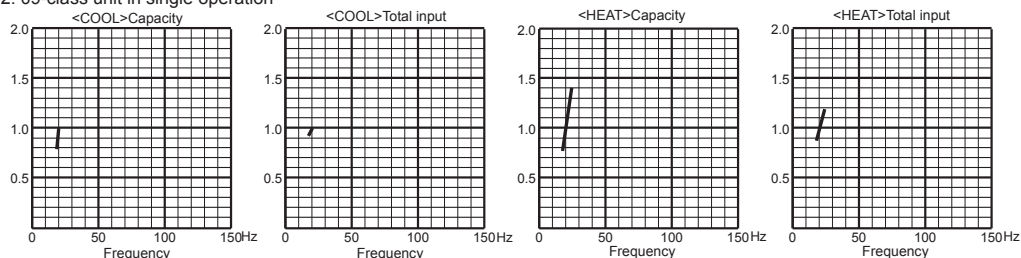


(OUTDOOR UNIT: MXZ-5C42NA MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4
 MXZ-2C20NAHZ MXZ-2C20NAHZ2 MXZ-2C20NAHZ3 MXZ-2C20NAHZ4
 MXZ-3C24NAHZ MXZ-3C24NAHZ2 MXZ-3C24NAHZ3 MXZ-3C24NAHZ4
 MXZ-3C30NAHZ MXZ-3C30NAHZ2 MXZ-3C30NAHZ3 MXZ-3C30NAHZ4)

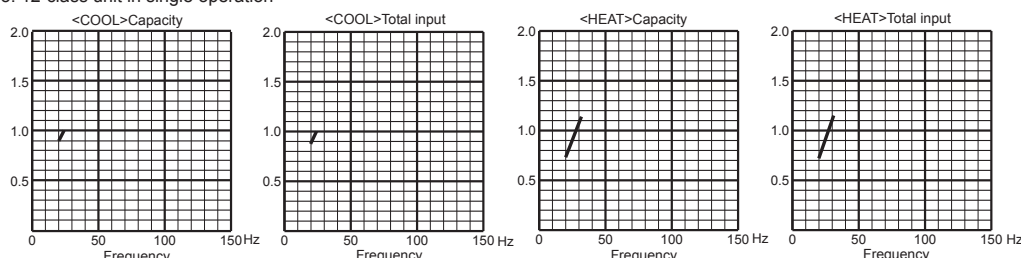
1. 06-class unit in single operation



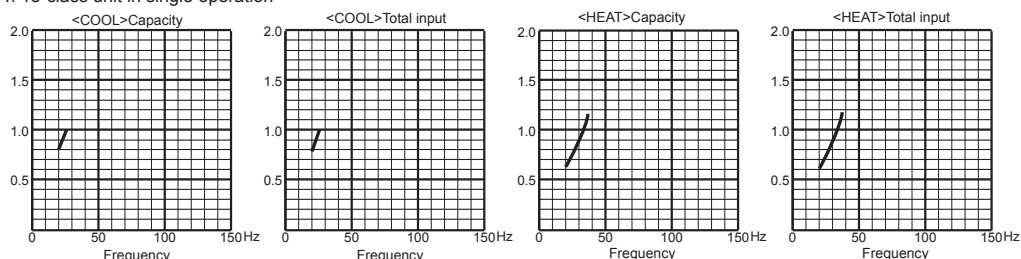
2. 09-class unit in single operation



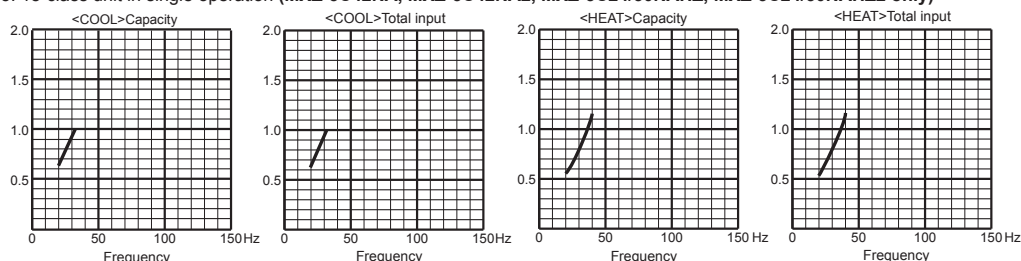
3. 12-class unit in single operation



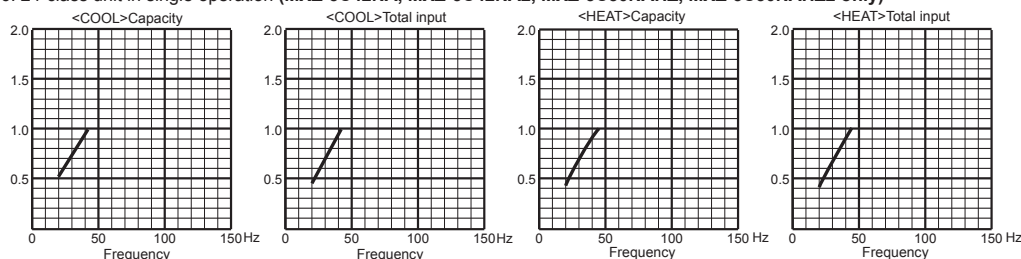
4. 15-class unit in single operation



5. 18-class unit in single operation (MXZ-5C42NA, MXZ-5C42NA2, MXZ-3C24/30NAHZ, MXZ-3C24/30NAHZ2 only)



6. 24-class unit in single operation (MXZ-5C42NA, MXZ-5C42NA2, MXZ-3C30NAHZ, MXZ-3C30NAHZ2 only)



9-4. OUTDOOR LOW PRESSURE AND OUTDOOR UNIT CURRENT

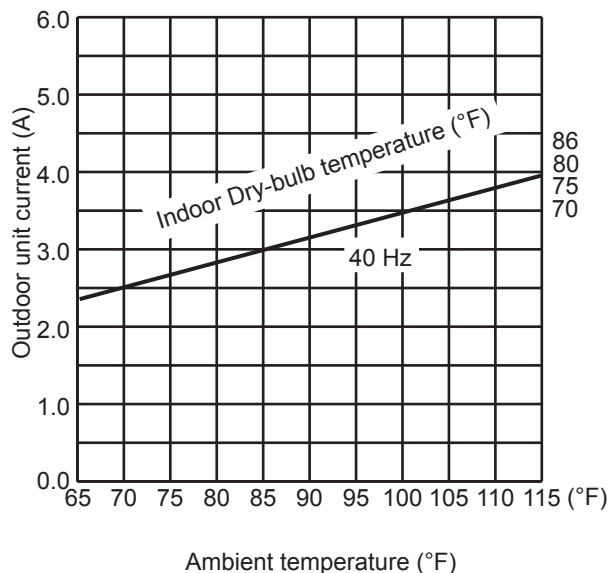
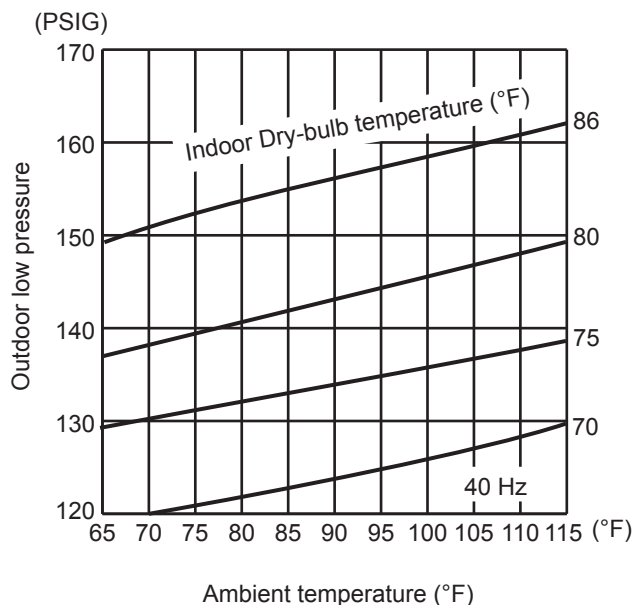
1. 06-class unit in single operation (OUTDOOR UNIT: MXZ-2C20NA2 MXZ-2C20NA3 MXZ-2C20NA4)

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 40 Hz

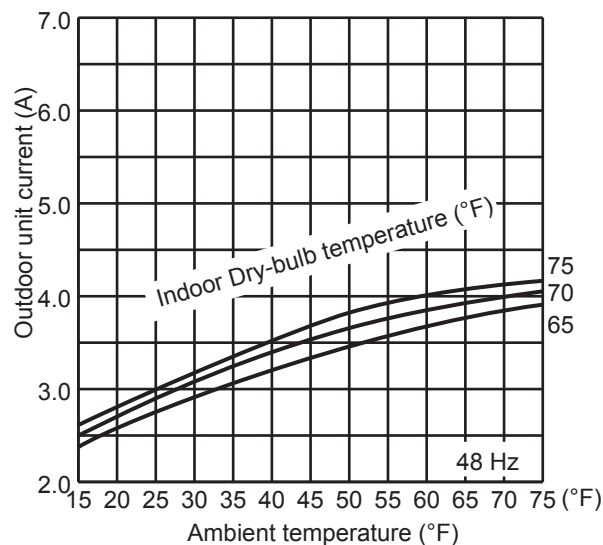
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 40 Hz (COOL) or 48 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of indoor humidity 75%
- ② Set air flow to High speed.
- ③ Inverter output frequency is 48 Hz.



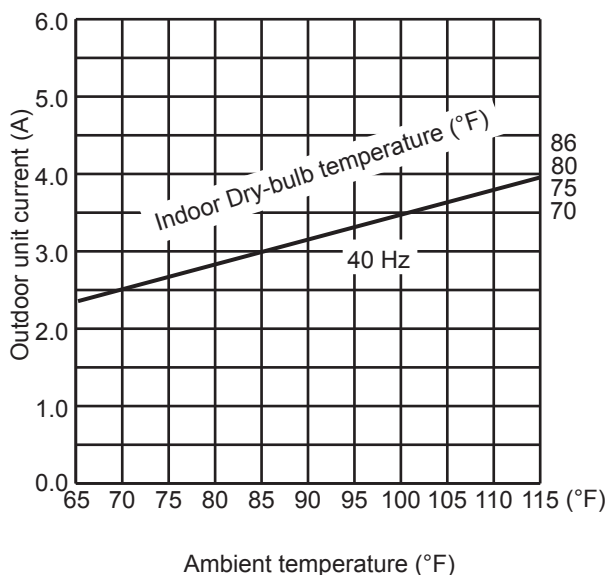
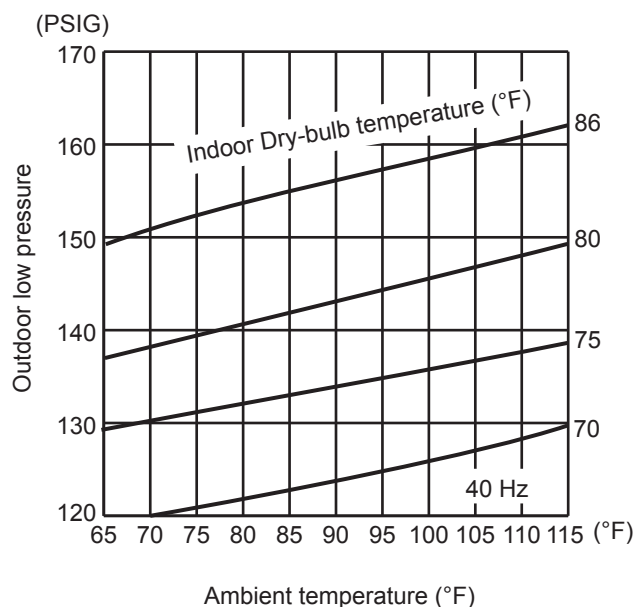
2. 09-class unit in single operation (OUTDOOR UNIT: MXZ-2C20NA2 MXZ-2C20NA3 MXZ-2C20NA4)

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 40 Hz

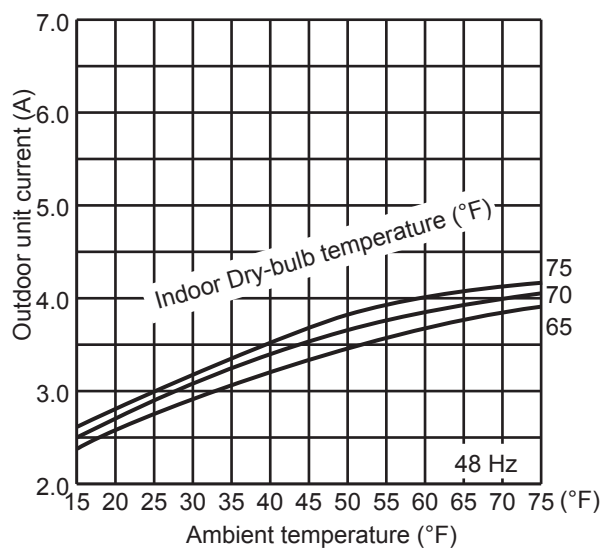
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 40 Hz (COOL) or 48 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of indoor humidity 75%
- ② Set air flow to High speed.
- ③ Inverter output frequency is 48 Hz.



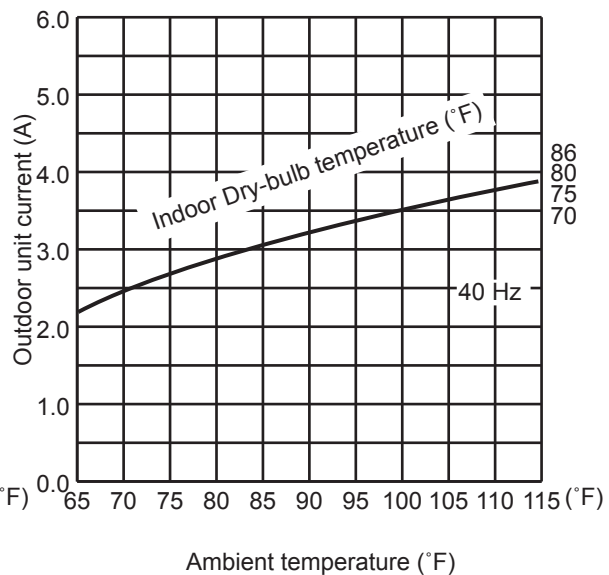
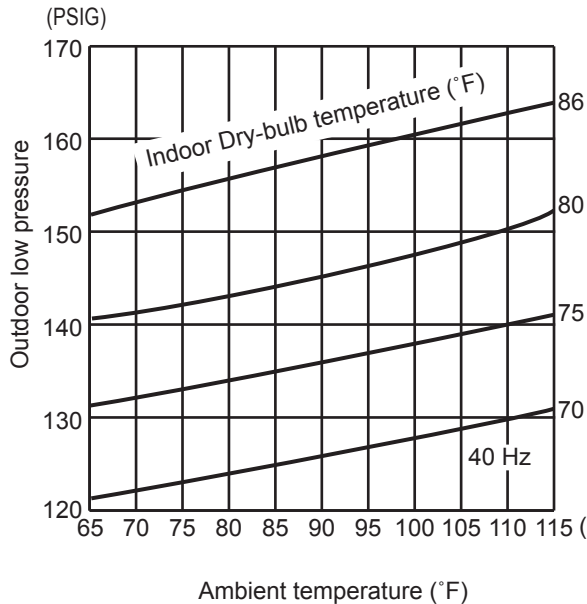
3. 12-class unit in single operation (OUTDOOR UNIT: MXZ-2C20NA2 MXZ-2C20NA3 MXZ-2C20NA4)

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 40 Hz

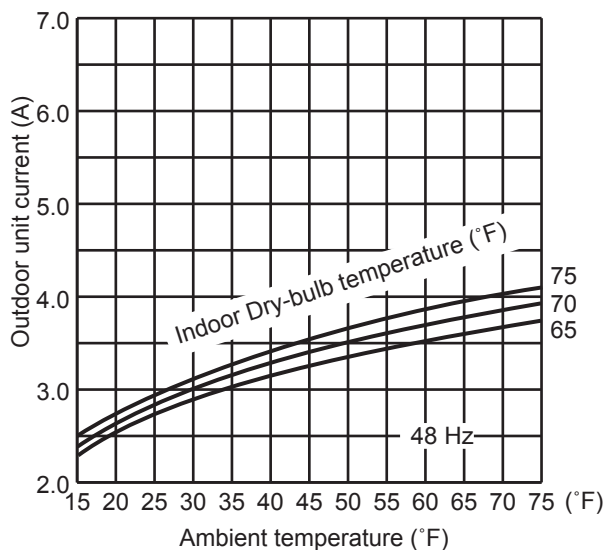
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 40 Hz (COOL) or 48 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of indoor humidity 75%
- ② Set air flow to High speed.
- ③ Inverter output frequency is 48 Hz.

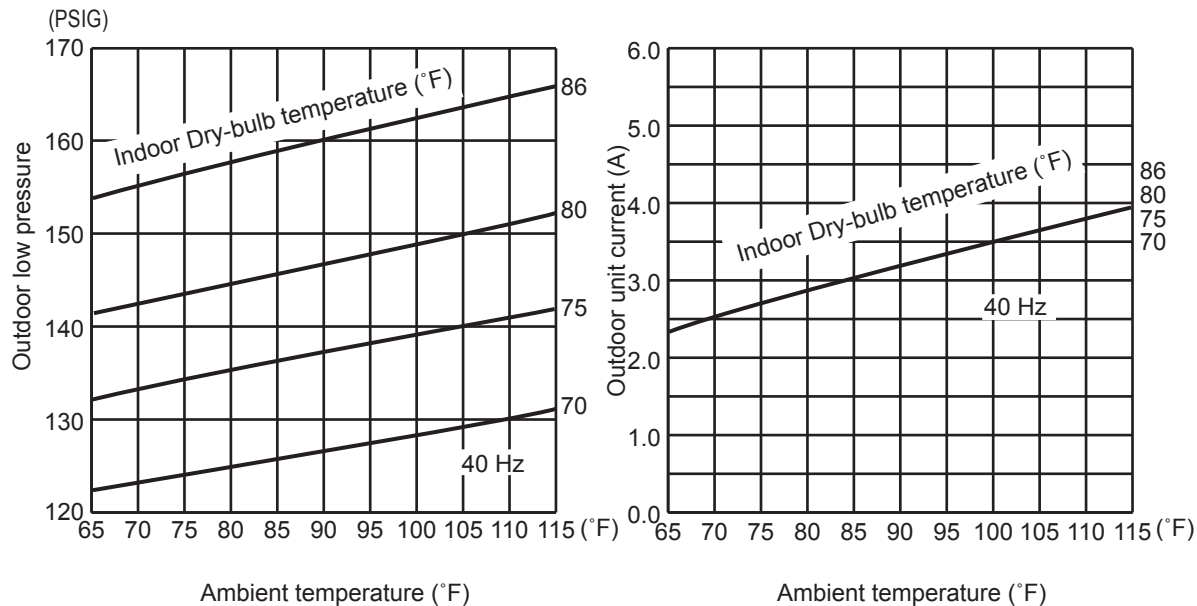


4. 15-class unit in single operation (OUTDOOR UNIT: MXZ-2C20NA2 MXZ-2C20NA3 MXZ-2C20NA4)

(1) COOL operation

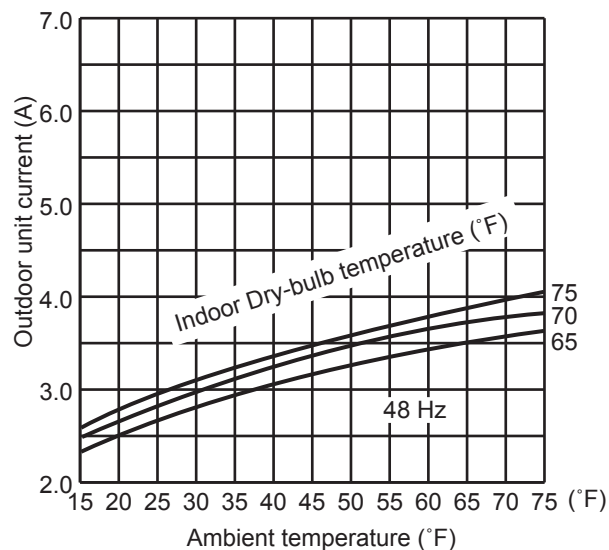
- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 40 Hz

- <How to work fixed-frequency operation>
1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
 2. Press emergency run ON/OFF button.
 3. Compressor starts running at 40 Hz (COOL) or 48 Hz (HEAT).
 4. Indoor fan runs at High speed and continues for 30 minutes.
 5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of indoor humidity 75%
- ② Set air flow to High speed.
- ③ Inverter output frequency is 48 Hz.



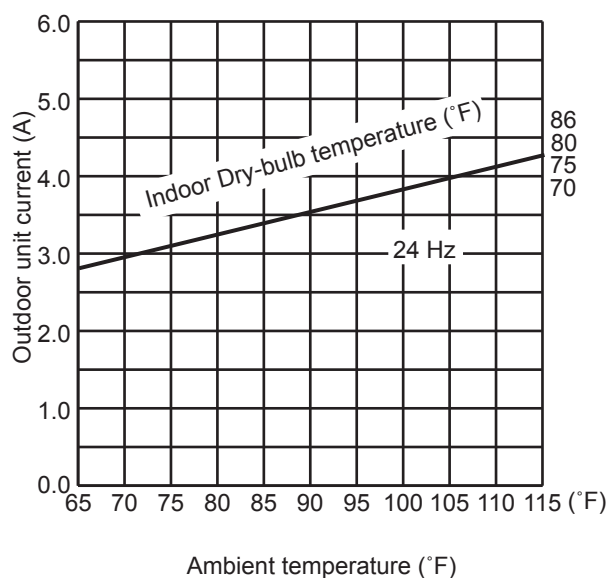
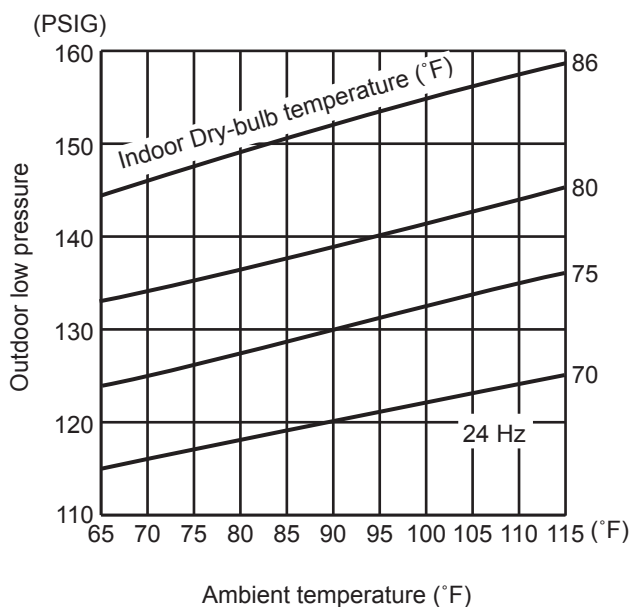
**5. 06-class unit in single operation (OUTDOOR UNIT: MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3 MXZ-3C24NA4
MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3 MXZ-3C30NA4
MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3 MXZ-4C36NA4)**

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 24 Hz

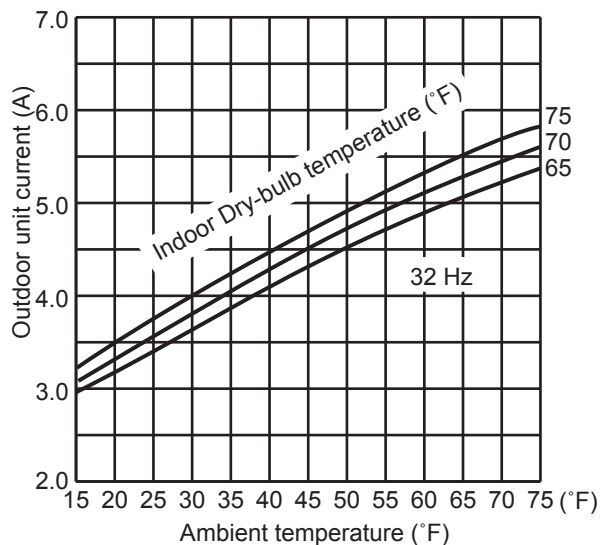
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 32 Hz.



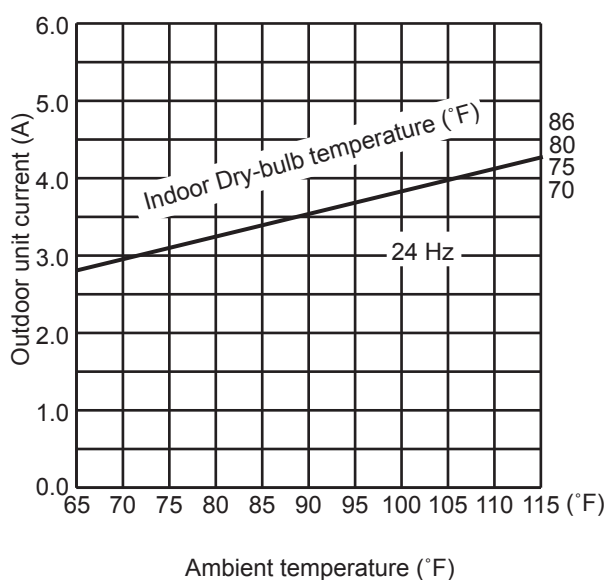
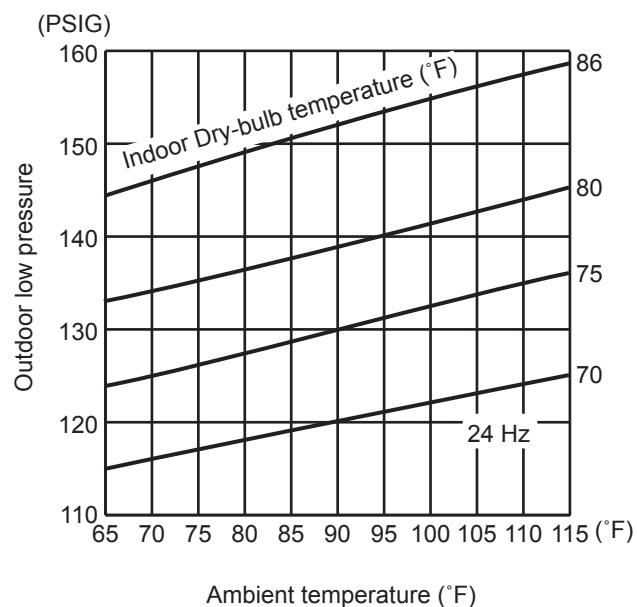
**6. 09-class unit in single operation (OUTDOOR UNIT: MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3 MXZ-3C24NA4
MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3 MXZ-3C30NA4
MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3 MXZ-4C36NA4)**

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 24 Hz

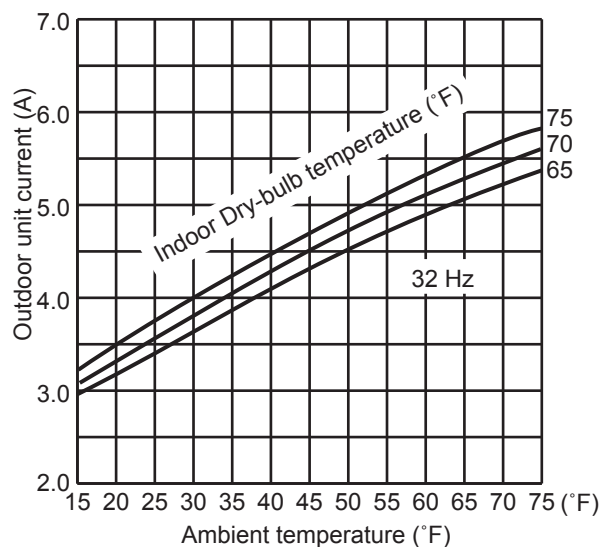
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 32 Hz.



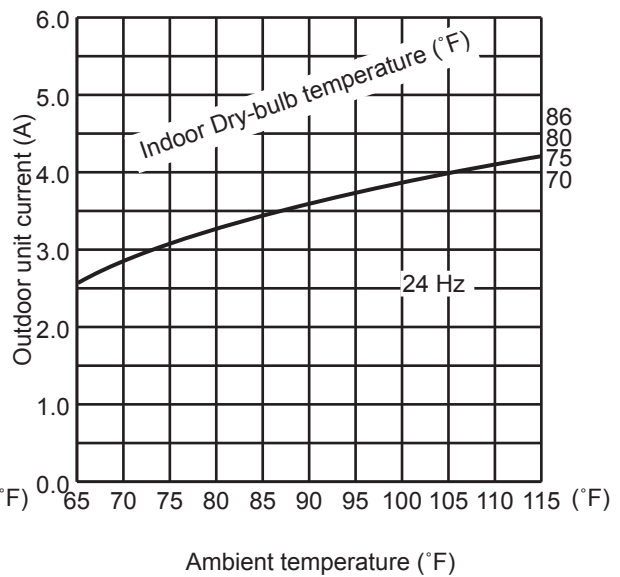
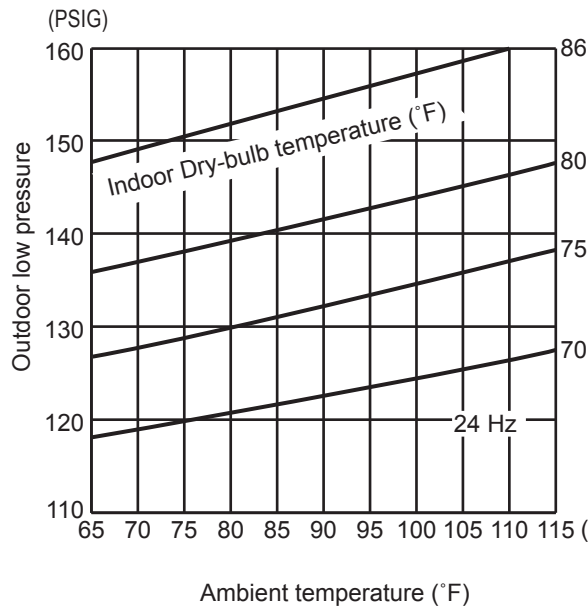
**7. 12-class unit in single operation (OUTDOOR UNIT: MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3 MXZ-3C24NA4
MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3 MXZ-3C30NA4
MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3 MXZ-4C36NA4)**

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 24 Hz

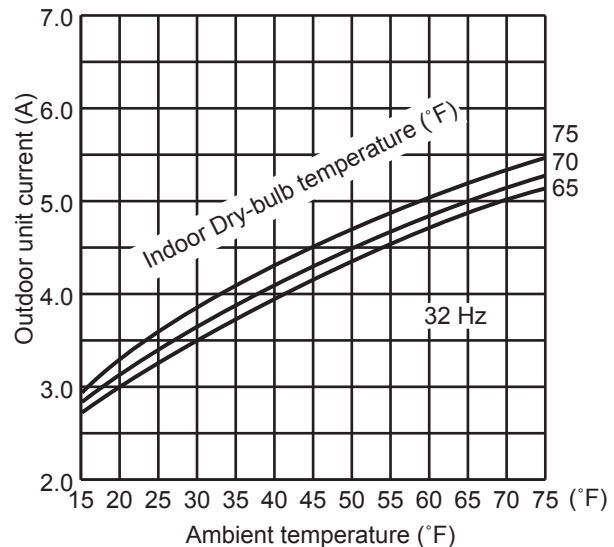
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 32 Hz.



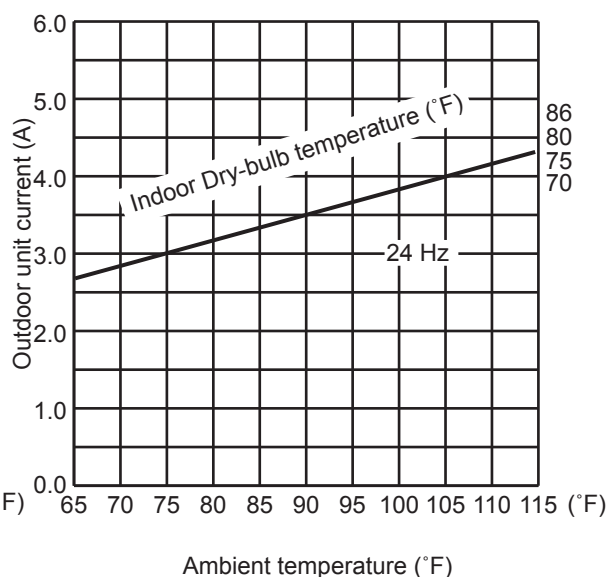
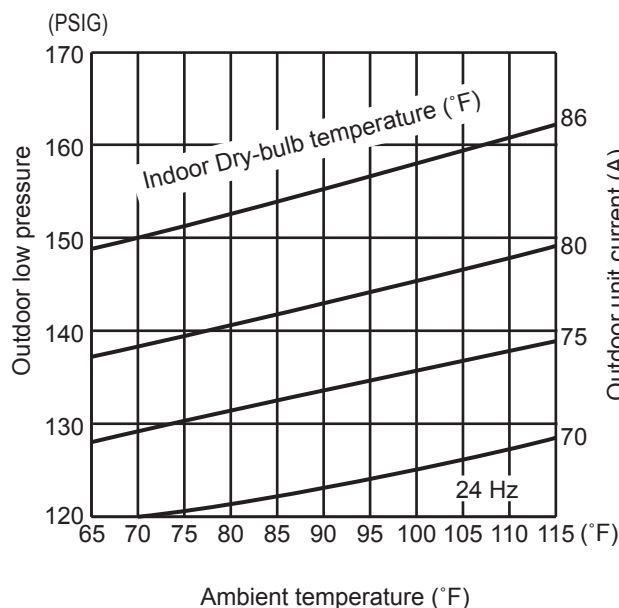
**8. 15-class unit in single operation (OUTDOOR UNIT: MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3 MXZ-3C24NA4
MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3 MXZ-3C30NA4
MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3 MXZ-4C36NA4)**

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 24 Hz

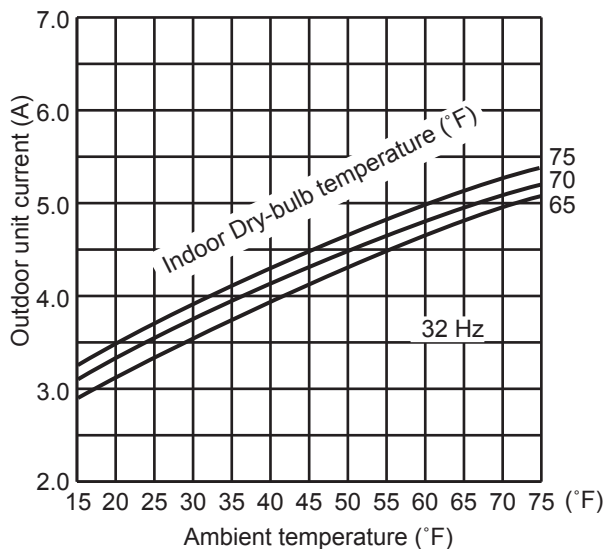
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%
- ② Set air flow to High speed.
- ③ Inverter output frequency is 32 Hz.



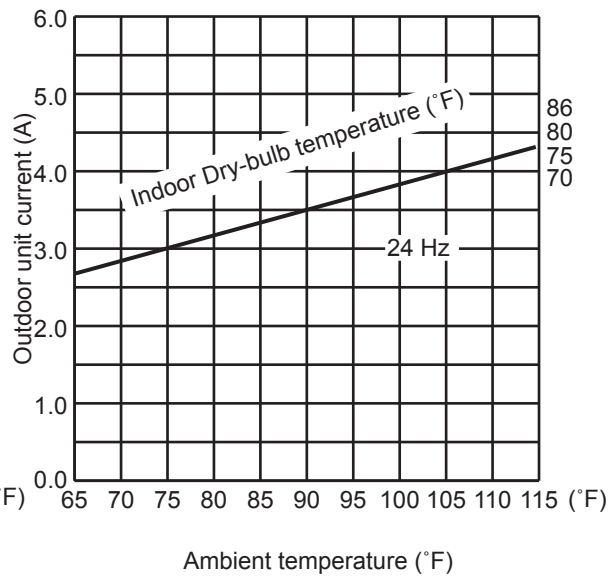
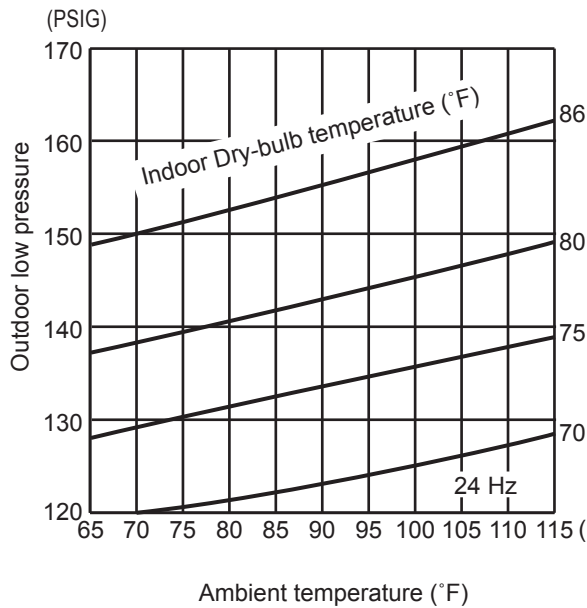
**9. 18-class unit in single operation (OUTDOOR UNIT: MXZ-3C24NA MXZ-3C24NA2 MXZ-3C24NA3 MXZ-3C24NA4
MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3 MXZ-3C30NA4
MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3 MXZ-4C36NA4)**

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 24 Hz

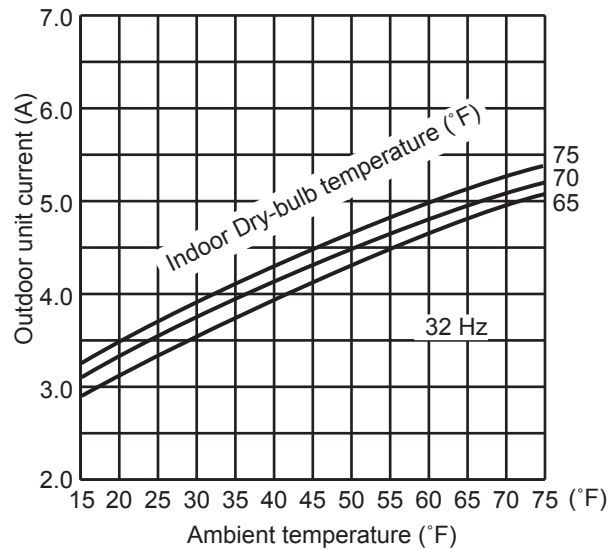
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 32 Hz.

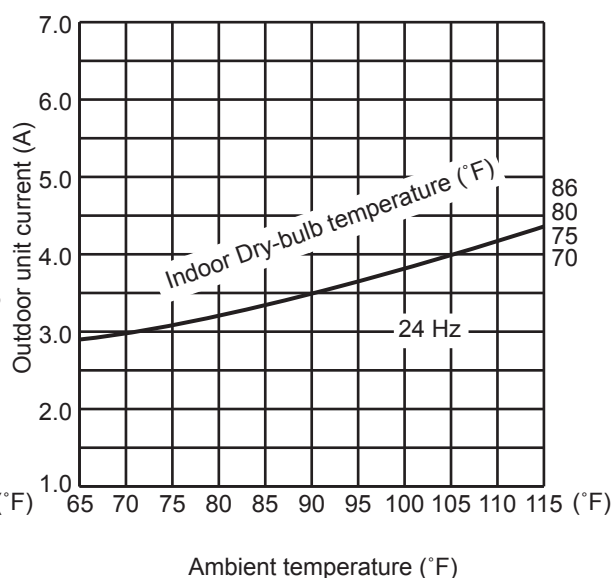
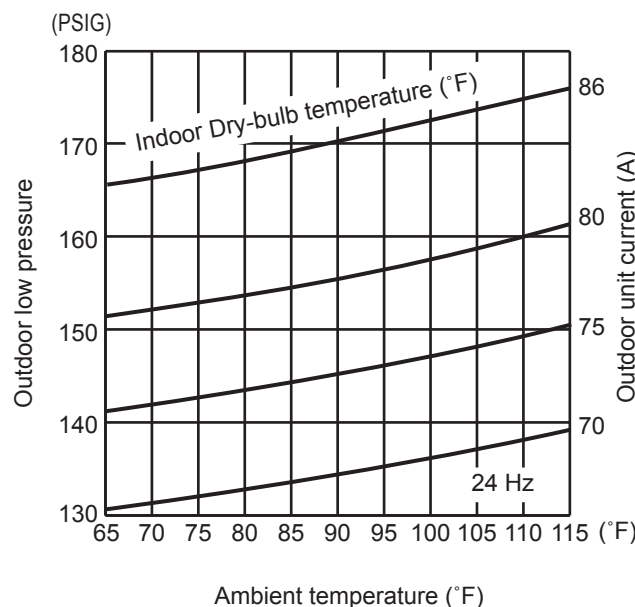


**10. 24-class unit in single operation (OUTDOOR UNIT: MXZ-3C30NA MXZ-3C30NA2 MXZ-3C30NA3 MXZ-3C30NA4
MXZ-4C36NA MXZ-4C36NA2 MXZ-4C36NA3 MXZ-4C36NA4)**

(1) COOL operation

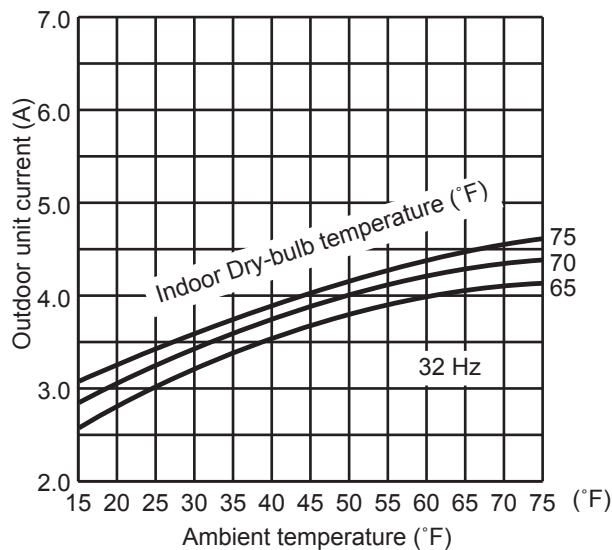
- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 24 Hz

<How to work fixed-frequency operation>
 1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
 2. Press emergency run ON/OFF button.
 3. Compressor starts running at 24 Hz (COOL) or 32 Hz (HEAT).
 4. Indoor fan runs at High speed and continues for 30 minutes.
 5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%
- ② Set air flow to High speed.
- ③ Inverter output frequency is 32 Hz.



11. 06-class unit in single operation

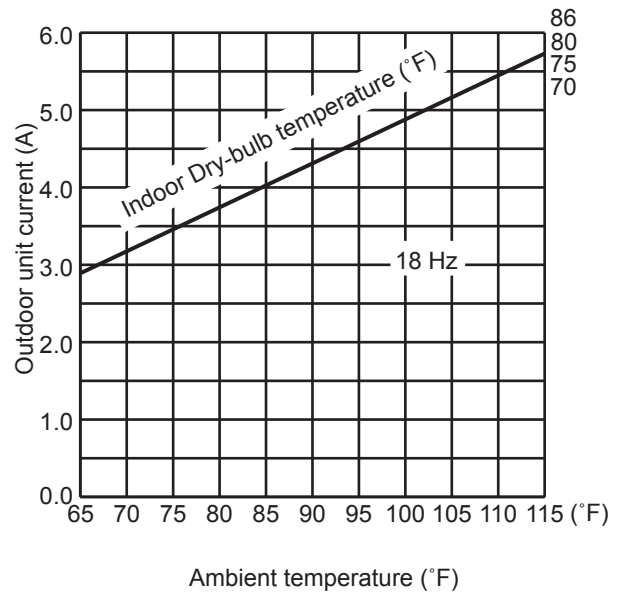
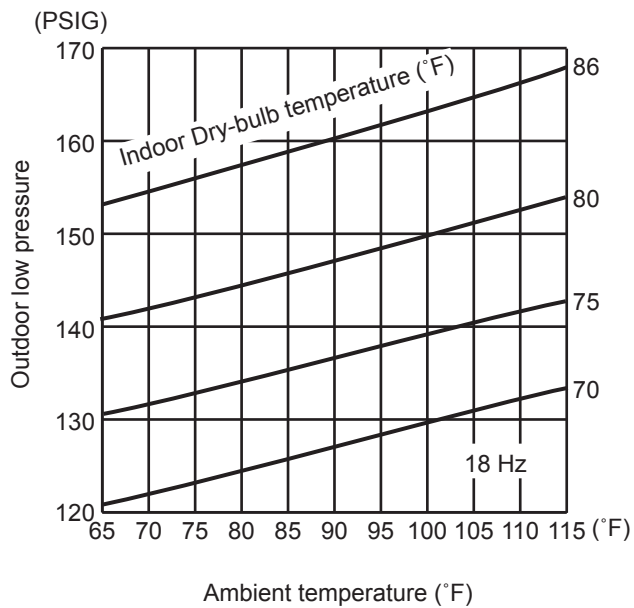
(OUTDOOR UNIT: MXZ-5C42NA MXZ-2C20NAHZ MXZ-3C24NAHZ MXZ-3C30NAHZ
 MXZ-5C42NA2 MXZ-2C20NAHZ2 MXZ-3C24NAHZ2 MXZ-3C30NAHZ2
 MXZ-5C42NA3 MXZ-2C20NAHZ3 MXZ-3C24NAHZ3 MXZ-3C30NAHZ3
 MXZ-5C42NA4 MXZ-2C20NAHZ4 MXZ-3C24NAHZ4 MXZ-3C30NAHZ4)

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 18 Hz

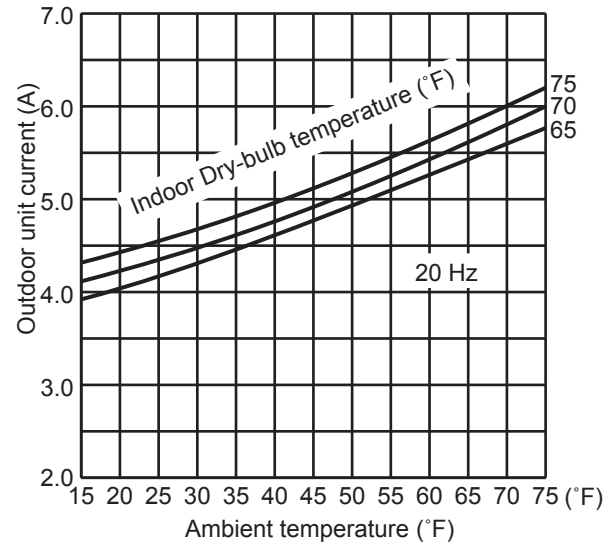
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 18 Hz (COOL) or 20 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 20 Hz.



12. 09-class unit in single operation

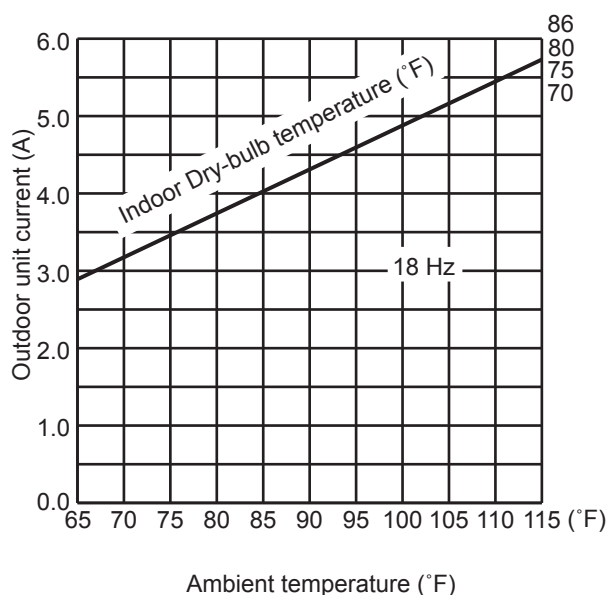
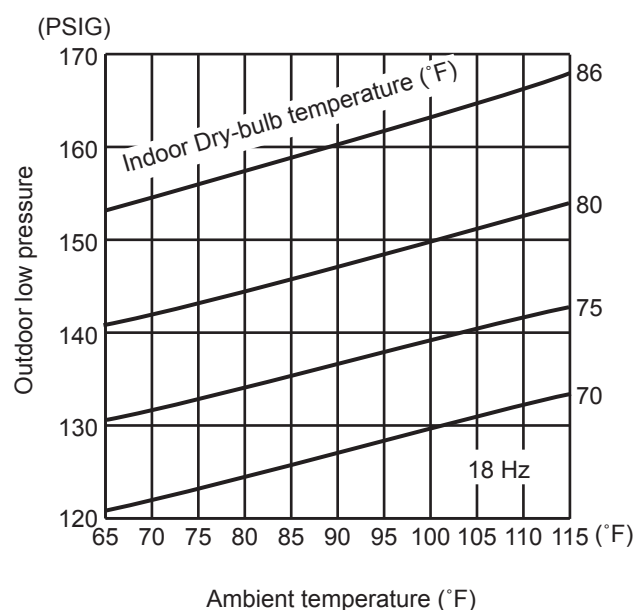
(OUTDOOR UNIT: MXZ-5C42NA MXZ-2C20NAHZ MXZ-3C24NAHZ MXZ-3C30NAHZ
 MXZ-5C42NA2 MXZ-2C20NAHZ2 MXZ-3C24NAHZ2 MXZ-3C30NAHZ2
 MXZ-5C42NA3 MXZ-2C20NAHZ3 MXZ-3C24NAHZ3 MXZ-3C30NAHZ3
 MXZ-5C42NA4 MXZ-2C20NAHZ4 MXZ-3C24NAHZ4 MXZ-3C30NAHZ4)

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 18 Hz

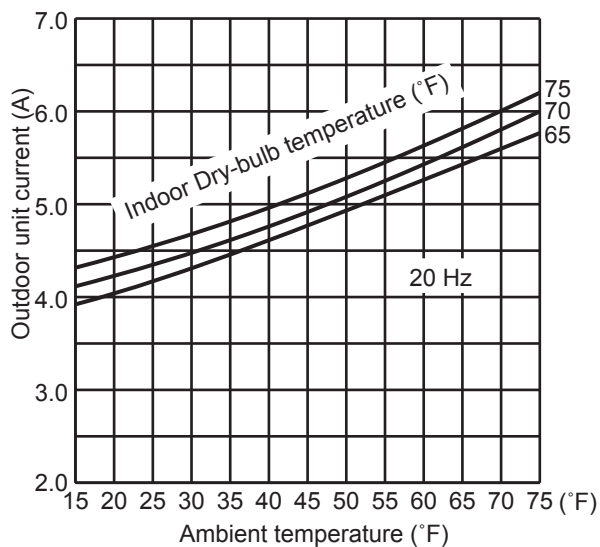
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 18 Hz (COOL) or 20 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 20 Hz.



13. 12-class unit in single operation

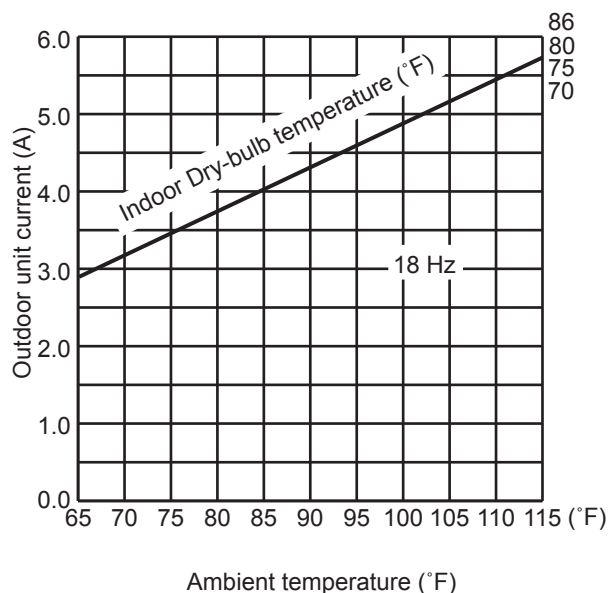
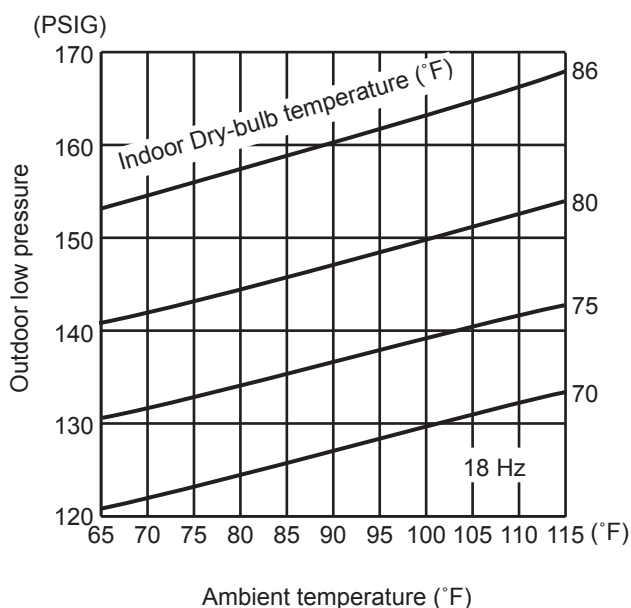
(OUTDOOR UNIT: MXZ-5C42NA MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4
 MXZ-2C20NAHZ MXZ-2C20NAHZ2 MXZ-2C20NAHZ3 MXZ-2C20NAHZ4
 MXZ-3C24NAHZ MXZ-3C24NAHZ2 MXZ-3C24NAHZ3 MXZ-3C24NAHZ4
 MXZ-3C30NAHZ MXZ-3C30NAHZ2 MXZ-3C30NAHZ3 MXZ-3C30NAHZ4)

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 18 Hz

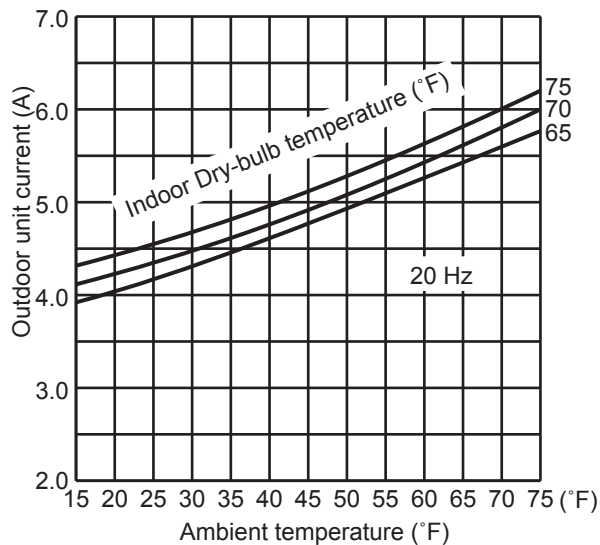
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 18 Hz (COOL) or 20 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 20 Hz.



14. 15-class unit in single operation

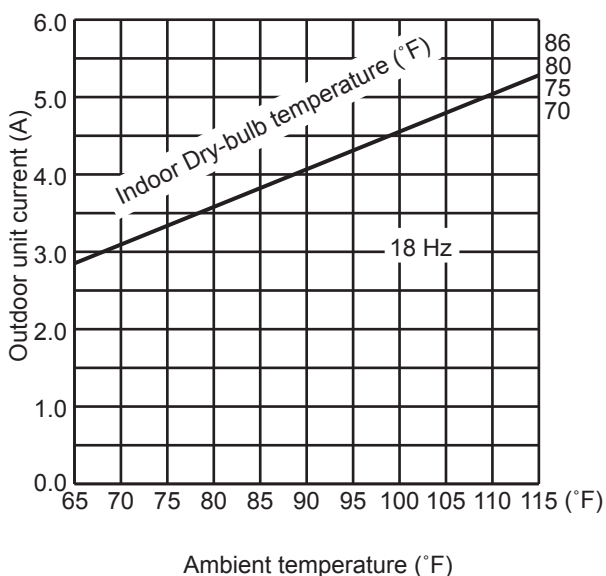
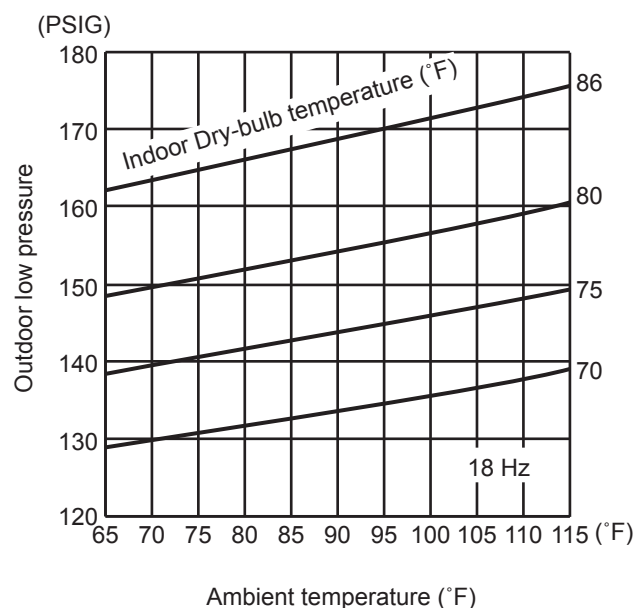
(OUTDOOR UNIT: MXZ-5C42NA MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4
 MXZ-2C20NAHZ MXZ-2C20NAHZ2 MXZ-2C20NAHZ3 MXZ-2C20NAHZ4
 MXZ-3C24NAHZ MXZ-3C24NAHZ2 MXZ-3C24NAHZ3 MXZ-3C24NAHZ4
 MXZ-3C30NAHZ MXZ-3C30NAHZ2 MXZ-3C30NAHZ3 MXZ-3C30NAHZ4)

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 18 Hz

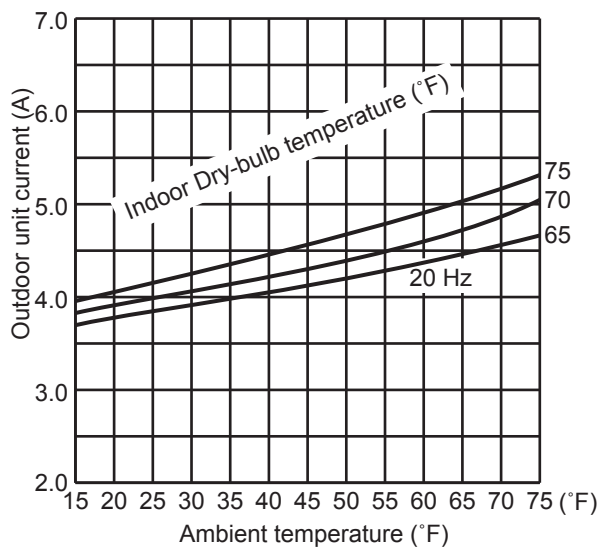
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 18 Hz (COOL) or 20 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 20 Hz.



15. 18-class unit in single operation

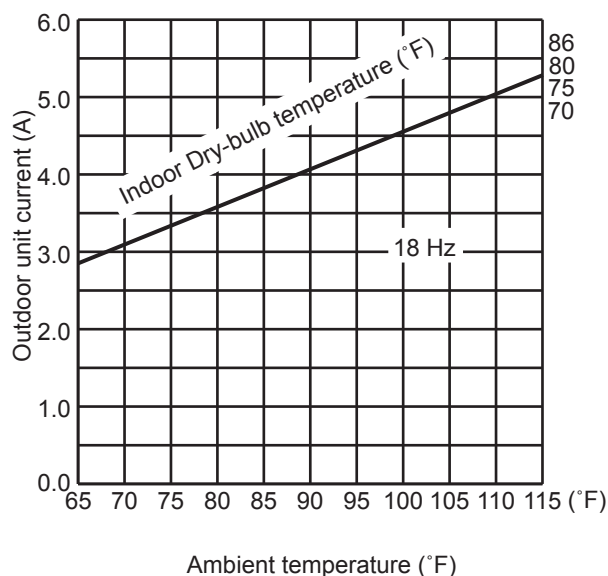
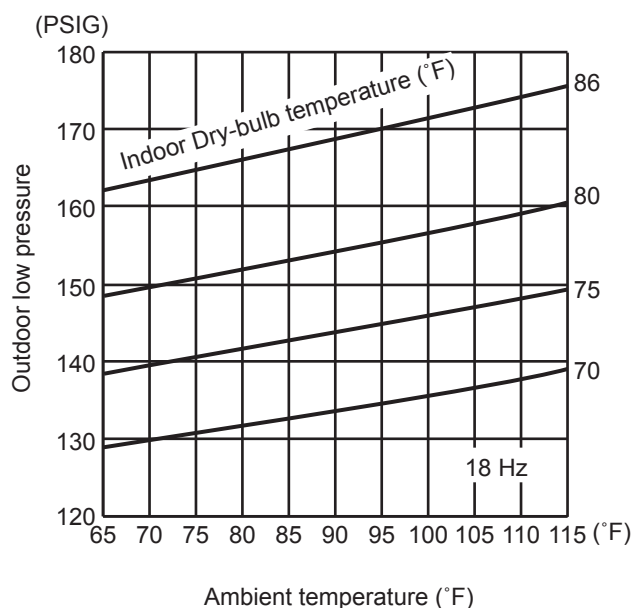
(OUTDOOR UNIT: MXZ-5C42NA MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4
 MXZ-3C24NAHZ MXZ-3C24NAHZ2 MXZ-3C24NAHZ3 MXZ-3C24NAHZ4
 MXZ-3C30NAHZ MXZ-3C30NAHZ2 MXZ-3C30NAHZ3 MXZ-3C30NAHZ4)

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 18 Hz

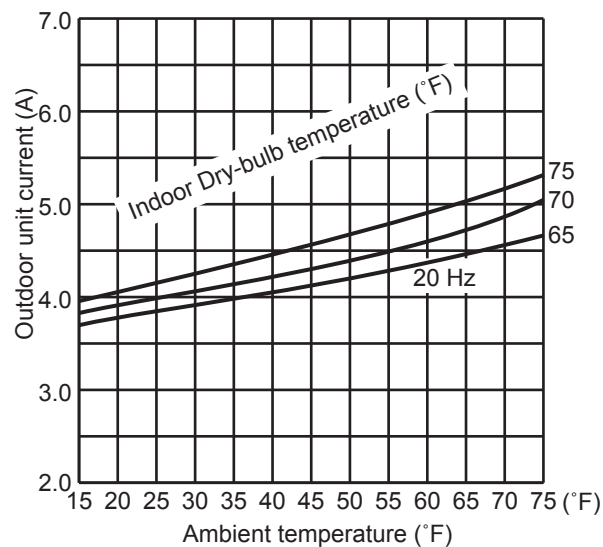
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 18 Hz (COOL) or 20 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 20 Hz.



16. 24-class unit in single operation

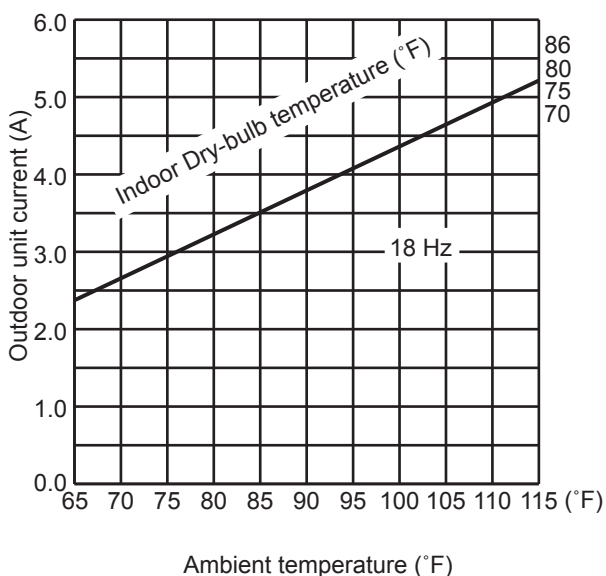
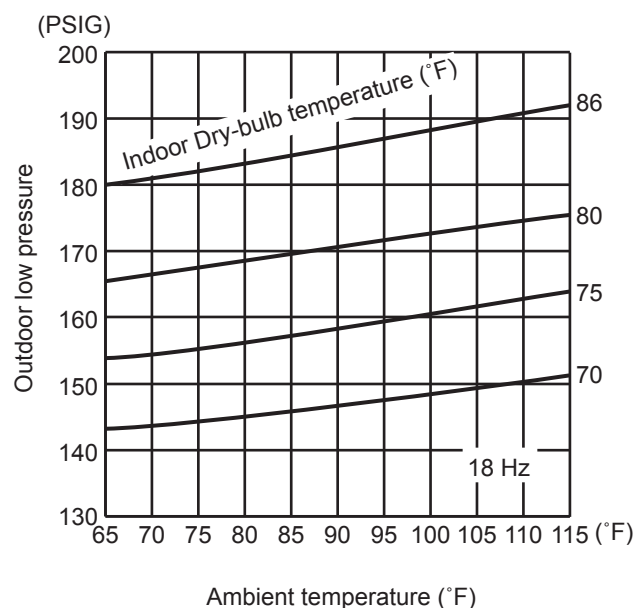
(OUTDOOR UNIT: MXZ-5C42NA MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4
MXZ-3C30NAHZ MXZ-3C30NAHZ2 MXZ-3C30NAHZ3 MXZ-3C30NAHZ4)

(1) COOL operation

- ① Data is based on the condition of indoor humidity 50%
- ② Air flow speed: High
- ③ Inverter output frequency: 18 Hz

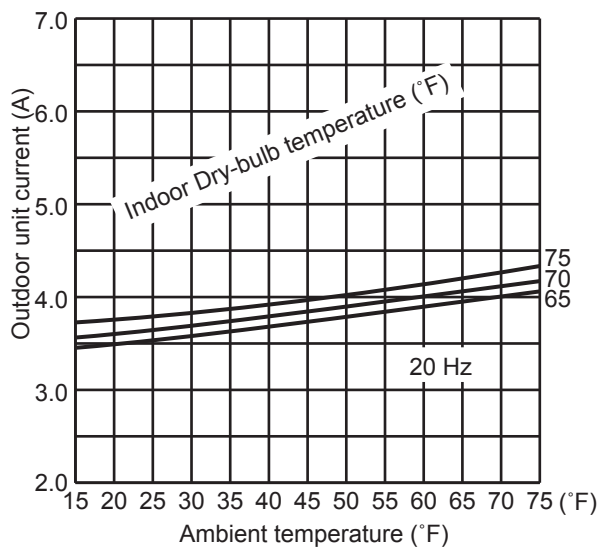
<How to work fixed-frequency operation>

1. Set emergency switch to COOL or HEAT. The switch is located on indoor unit.
2. Press emergency run ON/OFF button.
3. Compressor starts running at 18 Hz (COOL) or 20 Hz (HEAT).
4. Indoor fan runs at High speed and continues for 30 minutes.
5. To cancel this operation, press emergency run ON/OFF button or any button on remote controller.



(2) HEAT operation

- ① Data is based on the condition of outdoor humidity 75%.
- ② Set air flow to High speed.
- ③ Inverter output frequency is 20 Hz.



MXZ-3C24NA MXZ-3C30NA MXZ-4C36NA MXZ-5C42NA
 MXZ-2C20NA2 MXZ-3C24NA2 MXZ-3C30NA2 MXZ-4C36NA2 MXZ-5C42NA2
 MXZ-2C20NA3 MXZ-3C24NA3 MXZ-3C30NA3 MXZ-4C36NA3 MXZ-5C42NA3
 MXZ-2C20NA4 MXZ-3C24NA4 MXZ-3C30NA4 MXZ-4C36NA4 MXZ-5C42NA4
 MXZ-2C20NAHZ MXZ-3C24NAHZ MXZ-3C30NAHZ
 MXZ-2C20NAHZ2 MXZ-3C24NAHZ2 MXZ-3C30NAHZ2
 MXZ-2C20NAHZ3 MXZ-3C24NAHZ3 MXZ-3C30NAHZ3
 MXZ-2C20NAHZ4 MXZ-3C24NAHZ4 MXZ-3C30NAHZ4

Relation between main sensor and actuator

Sensor	Purpose	Actuator					
		Compressor	LEV	Outdoor fan motor	4-way valve	2-way solenoid valve	Defrost heater
						MXZ-5C42NA MXZ-2C20NAHZ MXZ-3C24NAHZ MXZ-3C30NAHZ MXZ-5C42NA2 MXZ-2C20NAHZ2 MXZ-3C24NAHZ2 MXZ-3C30NAHZ2 MXZ-5C42NA3 MXZ-2C20NAHZ3 MXZ-3C24NAHZ3 MXZ-3C30NAHZ3 MXZ-5C42NA4 MXZ-2C20NAHZ4 MXZ-3C24NAHZ4 MXZ-3C30NAHZ4	MXZ-2C20NAHZ MXZ-3C24NAHZ MXZ-3C30NAHZ MXZ-2C20NAHZ2 MXZ-3C24NAHZ2 MXZ-3C30NAHZ2 MXZ-2C20NAHZ3 MXZ-3C24NAHZ3 MXZ-3C30NAHZ3 MXZ-2C20NAHZ4 MXZ-3C24NAHZ4 MXZ-3C30NAHZ4
Discharge temperature thermistor	Protection	○	○			○	
Indoor coil temperature thermistor	Cooling: Coil frost prevention	○				○	
	Heating: High pressure protection	○	○				
Defrost thermistor	Heating: Defrosting	○	○	○	○		
Fin temperature thermistor	Protection	○		○			
Ambient temperature thermistor	Control/Protection	○	○	○		○	
	Heating: Defrosting (Heater)						○
Outdoor heat exchanger temperature thermistor	Cooling: Control/Protection	○	○	○		○	
Capacity code	Control	○	○				

MXZ-3C24NA	MXZ-3C30NA	MXZ-4C36NA	MXZ-5C42NA	
MXZ-2C20NA2	MXZ-3C24NA2	MXZ-3C30NA2	MXZ-4C36NA2	MXZ-5C42NA2
MXZ-2C20NA3	MXZ-3C24NA3	MXZ-3C30NA3	MXZ-4C36NA3	MXZ-5C42NA3
MXZ-2C20NA4	MXZ-3C24NA4	MXZ-3C30NA4	MXZ-4C36NA4	MXZ-5C42NA4
MXZ-2C20NAHZ	MXZ-3C24NAHZ	MXZ-3C30NAHZ		
MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2		
MXZ-2C20NAHZ3	MXZ-3C24NAHZ3	MXZ-3C30NAHZ3		
MXZ-2C20NAHZ4	MXZ-3C24NAHZ4	MXZ-3C30NAHZ4		

11-1. PRE-HEAT CONTROL

If moisture gets into the refrigerant cycle, or when refrigerant is liquefied and collected in the compressor, it may interfere the startup of the compressor.

To improve start-up condition, the compressor is energized even while it is not operating.

This is to generate heat at the winding.

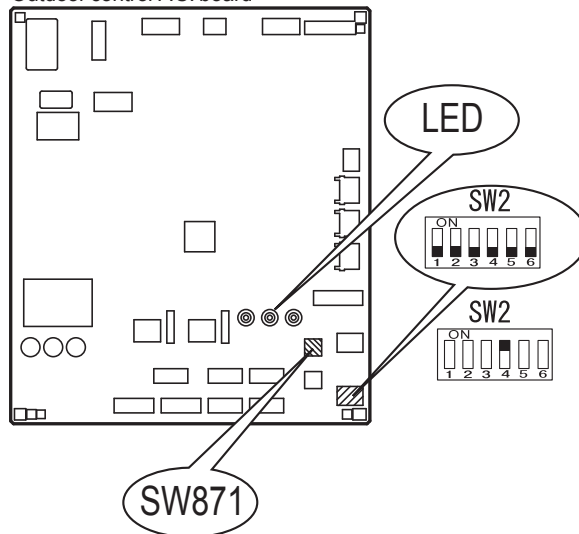
The compressor uses about 50 W when pre-heat control is turned ON.

Pre-heat control is ON at initial setting.

[How to deactivate pre-heat control]

- ① Turn OFF the power supply for the air conditioner before making the setting.
- ② Set the "4" of SW2 on the outdoor control P.C. board to ON to deactivate pre-heat control function.

Outdoor control P.C. board



- ③ Turn ON the power supply for the air conditioner.

NOTE: Pre-heat control will be turned OFF when the breaker is turned OFF.

11-2. AUTO LINE CORRECTING

Outdoor unit has an auto line correcting function which automatically detects and corrects improper wiring or piping.

Improper wiring or piping can be automatically detected by pressing the piping/wiring correction switch (SW871).
When improper wiring or piping is detected, wiring lines are corrected.
This will be completed in about 10 to 20 minutes.

[How to activate this function]

1. Check that outside temperature is above 32°F.
(This function does not work when outside temperature is not above 32°F.)
2. Check that the stop valves of the liquid pipe and gas pipe are open.
3. Check that the wiring between indoor and outdoor unit is correct.
(If the wiring is not correct, this function does not work.)
4. Turn ON the power supply and wait at least 1 minute.
5. Press the piping/wiring correction switch (SW871) on the outdoor control P.C. board.
Do not touch energized parts.

LED indication during detection:

LED1 (Red)	LED2 (Yellow)	LED3 (Green)
Lit	Lit	Once

LED indication after detection:

LED1 (Red)	LED2 (Yellow)	LED3 (Green)	Indication
Lit	Not lit	Lit	Completed (Problem corrected/ normal)
Once	Once	Once	Not completed (Detection failed)
Other indications			Refer to "SAFETY PRECAUTIONS WHEN LED BLINKS" located behind the service panel.

* Make sure that the valves are open and the pipes are not collapsed or clogged.

6. Press the switch to cancel.

LED indication after cancel :

LED1 (Red)	LED2 (Yellow)	LED3 (Green)
Lit	Lit	Not lit

NOTE : Indoor unit cannot be operated while this function is activated.

When this function is activated while indoor unit is operating, the operation will be stopped.

Operate indoor unit after the auto line correcting is finished.

Pressing the switch during detection cancels this function.

The record of auto line correcting can be confirmed in the following way:

Press the switch for more than 5 seconds.

LED will show the record of auto correcting for about 30 seconds as shown in the table below:

Number of blinks			Wiring line
LED1 (Red)	LED2 (Yellow)	LED3 (Green)	
Once	Once	Lit	Not corrected
3 times	3 times	Lit	Corrected

NOTE: Activate this function to confirm the correct wiring after replacing the outdoor control P.C. board.

(Previous records are deleted when the outdoor control P.C. board is replaced.)

The record cannot be shown if auto line correcting is not canceled (Refer to "How to activate this function").

11-3. CHANGING THE SET REFRIGERANT EVAPORATING TEMPERATURE

NOTE: If you lower the refrigerant evaporating temperature with the windows open, it may cause dew drop.

[How to change the refrigerant evaporating temperature]

(1) Make sure there is no possibility of causing dew drop before making the setting.

(2) Make the setting referring to the table below.

SW2 on the outdoor control P.C. board

SW2	MXZ-3C24NA MXZ-3C30NA MXZ-4C36NA MXZ-5C42NA MXZ-2C20NA2 MXZ-3C24NA2 MXZ-3C30NA2 MXZ-4C36NA2 MXZ-2C20NAHZ MXZ-3C24NAHZ MXZ-3C30NAHZ MXZ-2C20NAHZ2 MXZ-3C24NAHZ2 MXZ-3C30NAHZ2	MXZ-3C24NA3 MXZ-3C30NA3 MXZ-4C36NA3 MXZ-5C42NA3 MXZ-2C20NA3 MXZ-2C20NAHZ3 MXZ-3C24NAHZ3 MXZ-3C30NAHZ3 MXZ-3C24NA4 MXZ-3C30NA4 MXZ-4C36NA4 MXZ-5C42NA4 MXZ-2C20NA4 MXZ-2C20NAHZ4 MXZ-3C24NAHZ4 MXZ-3C30NAHZ4
	44.6 °F or 48.2 °F (7 °C or 9 °C)	42.8 °F (6 °C)
	Normal control	

MXZ-3C24NA	MXZ-3C30NA	MXZ-4C36NA	MXZ-5C42NA	
MXZ-2C20NA2	MXZ-3C24NA2	MXZ-3C30NA2	MXZ-4C36NA2	MXZ-5C42NA2
MXZ-2C20NA3	MXZ-3C24NA3	MXZ-3C30NA3	MXZ-4C36NA3	MXZ-5C42NA3
MXZ-2C20NA4	MXZ-3C24NA4	MXZ-3C30NA4	MXZ-4C36NA4	MXZ-5C42NA4
MXZ-2C20NAHZ	MXZ-3C24NAHZ	MXZ-3C30NAHZ		
MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2		
MXZ-2C20NAHZ3	MXZ-3C24NAHZ3	MXZ-3C30NAHZ3		
MXZ-2C20NAHZ4	MXZ-3C24NAHZ4	MXZ-3C30NAHZ4		

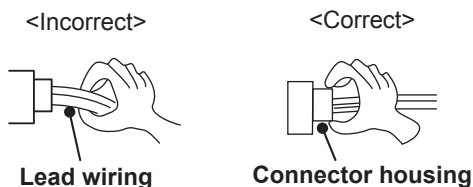
12-1. CAUTIONS ON TROUBLESHOOTING

1. Before troubleshooting, check the following:

- 1) Check the power supply voltage.
- 2) Check the indoor/outdoor connecting wire for miswiring.

2. Take care of the following during servicing.

- 1) Before servicing the air conditioner, be sure to turn OFF the unit first with the remote controller, and then after confirming the horizontal vane is closed, turn OFF the breaker and/or disconnect the power plug.
- 2) Be sure to turn OFF the power supply before removing the front panel, the cabinet, the top panel, and the outdoor control P.C. board.
- 3) When removing the electrical parts, be careful of the residual voltage of smoothing capacitor.
- 4) When removing the electronic control P.C. board, hold the edge of the board with care NOT to apply stress on the components.
- 5) When connecting or disconnecting the connectors, hold the connector housing. DO NOT pull the lead wires.



3. Troubleshooting procedure

- 1) Check if the OPERATION INDICATOR lamp on the indoor unit is blinking on and off to indicate an abnormality. To make sure, check how many times the OPERATIONAL INDICATOR lamp is blinking on and off before starting service work.
- 2) When the outdoor control P.C. board seems to be defective, check for disconnection of the copper foil pattern and burnt or discolored components.
- 3) When troubleshooting, refer to 12-2, 12-3 and 12-4.

12-2. FAILURE MODE RECALL FUNCTION

This air conditioner can memorize the abnormal condition which has occurred once.

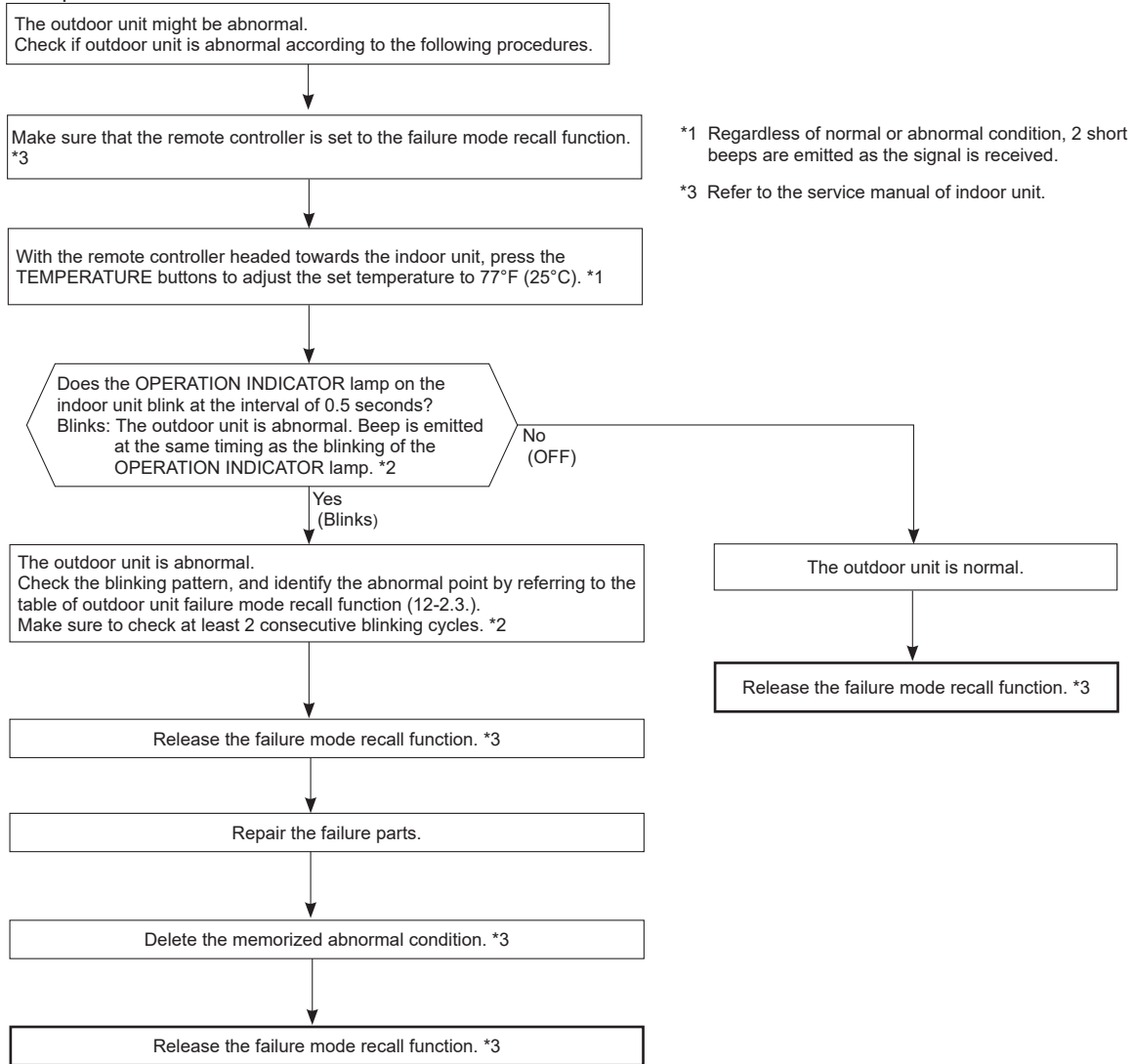
Even though LED indication listed on the troubleshooting check table (12-4) disappears, the memorized failure details can be recalled.

1. Flow chart of failure mode recall function for the indoor/outdoor unit

Refer to the service manual of indoor unit.

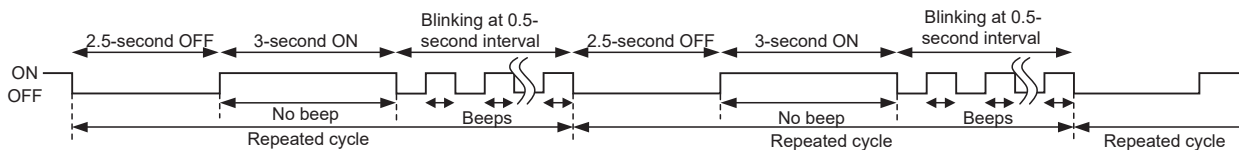
2. Flow chart of the detailed outdoor unit failure mode recall function

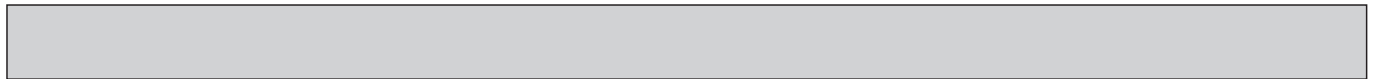
Operational procedure



NOTE: 1. Make sure to release the failure mode recall function after it is set up, otherwise the unit cannot operate properly.
2. If the abnormal condition is not deleted from the memory, the last abnormal condition is kept memorized.

*2. Blinking pattern when outdoor unit is abnormal:





NOTE: Blinking patterns of this mode differ from the ones of TROUBLESHOOTING CHECK TABLE (12-4.).

3. Table of outdoor unit failure mode recall function

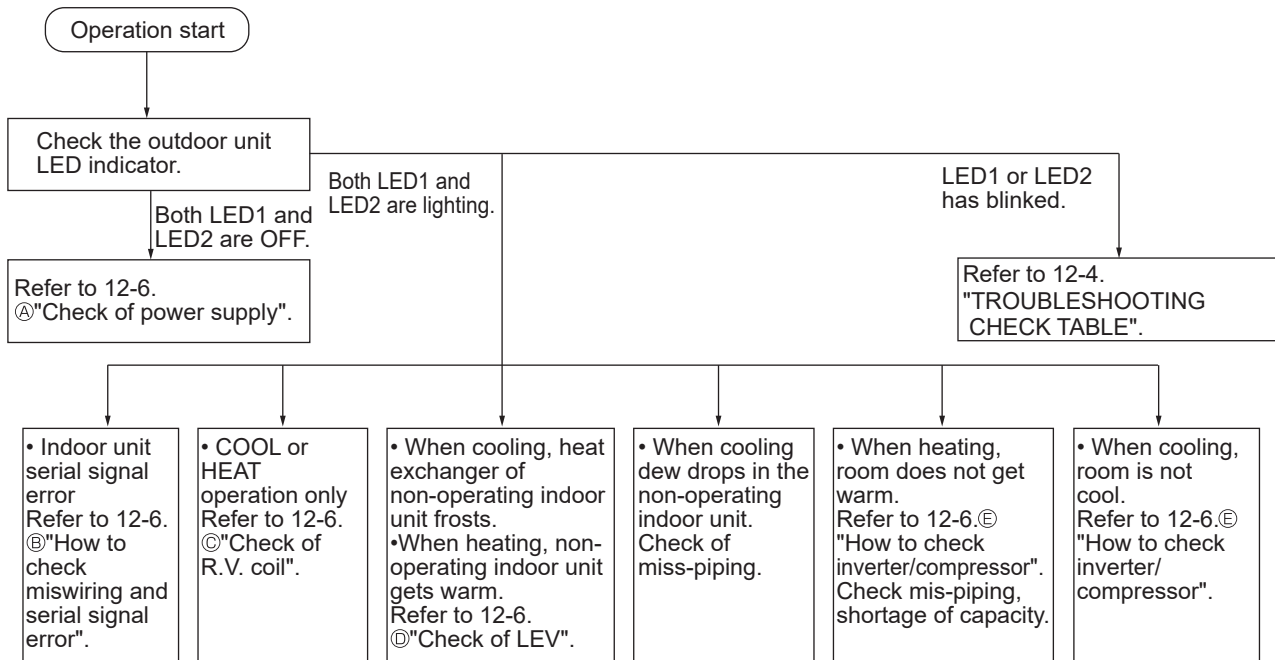
The left lamp of OPERATION INDICATOR lamp (Indoor unit)	Abnormal point (Failure mode/protection)	LED indication (Outdoor P.C. board)		Condition	Remedy	Indoor/outdoor unit failure mode recall function	
		LED 1	LED 2				
OFF	None (Normal)	Lit	Lit	—	—	—	
2-time blink	Outdoor power system	Lit	Lit	Overcurrent protection cut-out operates 3 consecutive times within 1 minute after the compressor gets started, or converter protection cut-out or bus-bar voltage protection cut-out operates 3 consecutive times within 3 minutes after startup.	• Check the connection of the compressor connecting wire. • Refer to 12-6. ㊦ "How to check inverter/compressor". • Check the stop valve.	○	
3-time blink	Discharge temperature thermistor	Lit	Once	A thermistor shorts or opens during compressor running.	• Refer to 12-6. ㊦ "Check of outdoor thermistors".	○	
	Defrost thermistor	Lit	Once				
	Ambient temperature thermistor	Lit	Twice		• Replace the outdoor control P.C. board.		
	Fin temperature thermistor	Lit	3 times				• Refer to 12-6. ㊦ "Check of outdoor thermistors".
	P.C. board temperature thermistor	Lit	4 times				
	Outdoor heat exchanger temperature thermistor	Lit	9 times				
4-time blink	Overcurrent	Once	Not lit	18 A (MXZ-2C20NA2, MXZ-2C20NA3, MXZ-2C20NA4)/21 A (MXZ-3C24/3C30/4C36NA, MXZ-3C24/3C30/4C36NA2, MXZ-3C24/3C30/4C36NA3, MXZ-3C24/3C30/4C36NA4)/28 A (MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA4, MXZ-2C20/3C24/3C30NAHZ4) current flows into power module.	• Reconnect compressor connector. • Refer to 12-6. ㊦ "How to check inverter/compressor". • Check the stop valve.	—	
5-time blink	Discharge temperature	Lit	Lit	The discharge temperature exceeds 239°F (MXZ-2C20NA2, MXZ-2C20NA3, MXZ-2C20NA4)/222.8°F (MXZ-3C24/3C30/4C36NA, MXZ-3C24/3C30/4C36NA2, MXZ-3C24/3C30/4C36NA3, MXZ-3C24/3C30/4C36NA4)/240.8°F (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4) during operation. Compressor can restart if discharge temperature thermistor reads 176°F (MXZ-2C20NA2, MXZ-2C20NA3, MXZ-2C20NA4)/203°F (MXZ-3C24/3C30/4C36NA, MXZ-3C24/3C30/4C36NA2, MXZ-3C24/3C30/4C36NA3, MXZ-3C24/3C30/4C36NA4)/212°F (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4) or less 3 minutes later.	• Check refrigerant circuit and refrigerant amount. • Refer to 12-6. ㊦ "Check of LEV".	—	
6-time blink	High pressure	Lit	Lit	The outdoor heat exchanger temperature exceeds 158°F during cooling or the indoor gas pipe temperature exceeds 158°F during heating.	• Check refrigerant circuit and refrigerant amount. • Check the stop valve.	—	
7-time blink	Fin temperature	3 times	Not lit	The fin temperature exceeds 190°F (MXZ-3C24/3C30/4C36NA, MXZ-2C20/3C24/3C30/4C36NA2, MXZ-2C20/3C24/3C30/4C36NA3, MXZ-2C20/3C24/3C30/4C36NA4)/192°F (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4) during operation.	• Check around outdoor unit. • Check outdoor unit air passage. • Refer to 12-6. ㊦ "Check of outdoor fan motor".	—	
	P.C. board temperature	4 times	Not lit	The P.C. board temperature exceeds 152°F (MXZ-3C24/3C30/4C36NA, MXZ-2C20/3C24/3C30/4C36NA2, MXZ-2C20/3C24/3C30/4C36NA3, MXZ-2C20/3C24/3C30/4C36NA4)/189°F (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4) during operation.			

NOTE: Blinking patterns of this mode differ from the ones of TROUBLESHOOTING CHECK TABLE (12-4.).

The left lamp of OPERATION INDICATOR lamp (Indoor unit)	Abnormal point (Failure mode/protection)	LED indication (Outdoor P.C. board)		Condition	Remedy	Indoor/outdoor unit failure mode recall function
		LED 1	LED 2			
8-time blink	Outdoor fan motor	Lit	Lit	A failure occurs 3 consecutive times within 30 seconds after the fan gets started.	• Refer to 12-6. ⑤ "Check of outdoor fan motor".	—
	4-way valve switching operation abnormality.	Lit	12 times	Connector of R.V. coil is disconnected, poorly connected or 4-way valve is faulty.	• Refer to 12-6. ⑤ "Check of R.V. coil". • Check the 4-way valve.	○
9-time blink	Outdoor control system	Lit	5 times	Nonvolatile memory data cannot be read properly.	• Replace the outdoor control P.C. board.	○
10-time blink	Low discharge temperature protection	Lit	Lit	The frequency of the compressor is kept 80 Hz or more and the discharge temperature is kept under 102.2°F for more than 20 minutes.	• Check refrigerant circuit and refrigerant amount. • Refer to 12-6. ⑥ "Check of LEV".	—
11-time blink	Communication error between P.C. boards	Lit	6 times	Communication error occurs between the outdoor control P.C. board and outdoor power P.C. board for more than 10 seconds.	• Check the connecting wire between outdoor control P.C. board and outdoor power P.C. board.	—
				The communication between boards protection cut-out operates 2 consecutive times.		○
	Current sensor	Lit	7 times	A short or open circuit is detected in the current sensor during compressor operating.	—	—
				Current sensor protection cut-out operates 2 consecutive times.		○
	Zero cross detecting circuit	5 times	Not lit	Zero cross signal cannot be detected while the compressor is operating.	• Check the connecting wire among outdoor control P.C. board and outdoor power P.C. board.	—
				The protection cut-out of the zero cross detecting circuit operates 10 consecutive times.		○
	Converter	5 times	Not lit	A failure is detected in the operation of the converter during operation.	• Check the voltage of power supply. • Replace the outdoor power P.C. board.	—
	Bus-bar voltage	5 times	Not lit	The bus-bar voltage exceeds 400 V or falls to low level during compressor operating.	• Check the voltage of power supply. • Replace the outdoor power P.C. board or the outdoor control P.C. board.	
14-time blink	4-way valve switching operation abnormality.	Lit	12 times	Connector of R.V. coil is disconnected, poorly connected or 4-way valve is faulty.	• Refer to 12-6. ⑤ "Check of R.V. coil". • Check the 4-way valve.	○
15-time blink	LEV and drain pump	Lit	Lit	The indoor unit detects an abnormality in the LEV and drain pump.	• Refer to 12-6. ⑥ "Check of LEV". • Check the drain pump of the indoor unit.	—

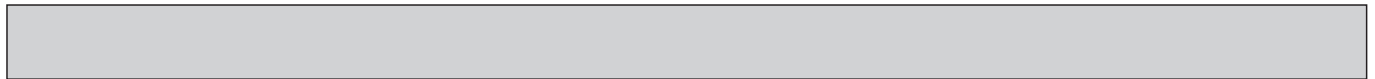
12-3. INSTRUCTION OF TROUBLESHOOTING

- Check the indoor unit with referring to the indoor unit service manual, and confirm that there is any problem in the indoor unit. Then, check the outdoor unit with referring to this page.



12-4. TROUBLESHOOTING CHECK TABLE

No.	Symptom	Indication		Abnormal point / Condition	Condition	Remedy
		LED1(Red)	LED2(Yellow)			
1	Outdoor unit does not operate.	Lit	Once	LEV and drain pump	The indoor unit detects an abnormality in the LEV and drain pump.	- Refer to 12-6. ④ "Check of LEV". - Check the drain pump of the indoor unit.
2		Lit	Twice	Outdoor power system	Overcurrent protection cut-out operates 3 consecutive times within 1 minute after the compressor gets started, or converter protection cut-out or bus-bar voltage protection cut-out operates 3 consecutive times within 3 minutes after startup.	- Check the connection of the compressor connecting wire. - Refer to 12-6. ⑤ "How to check inverter/compressor". - Check the stop valve.
3		Lit	3 times	Discharge temperature thermistor	A short circuit is detected in the thermistor during operation, or an open circuit is detected in the thermistor after 10 minutes of compressor startup.	Refer to 12-6. ⑤ "Check of outdoor thermistors".
4		Lit	4 times	Fin temperature thermistor	A short or open circuit is detected in the thermistor during operation.	Refer to 12-6. ⑤ "Check of outdoor thermistors".
				P. C. board temperature thermistor		Replace the outdoor control P.C. board.
5		Lit	5 times	Ambient temperature thermistor	A short or open circuit is detected in the thermistor during operation.	Refer to 12-6. ⑤ "Check of outdoor thermistors".
				Outdoor heat exchanger temperature thermistor	A short circuit is detected in the thermistor during operation, or an open circuit is detected in the thermistor after 5 minutes (in cooling) and 10 minutes (in heating) of compressor startup.	
				Defrost thermistor	A short circuit is detected in the thermistor during operation, or an open circuit is detected in the thermistor after 5 minutes of compressor startup.	
6		Lit	6 times	Zero cross detecting circuit (Outdoor control P.C. board)	Zero cross signal cannot be detected.	Replace the outdoor control P.C. board.
7		Lit	7 times	Outdoor control system	The nonvolatile memory data cannot be read properly.	Replace the outdoor control P.C. board.
8		Lit	8 times	Current sensor	Current sensor protection cut-out operates 2 consecutive times.	Replace the outdoor power P.C. board.
9		Lit	11 times	Communication error between P.C. boards	The communication protection cut-out between boards operates 2 consecutive times.	Check the connecting wire between outdoor control P.C. board and outdoor power P.C. board.
				M-NET communication error	M-NET adapter P.C. board detects an abnormality in the communication error.	Check the connecting wire between M-NET adapter P.C. board and outdoor control P.C. board, or terminal bed.
10		Lit	12 times	Zero cross detecting circuit (Outdoor power P.C. board)	The protection cut-out of the zero cross detecting circuit operates 10 consecutive times.	Replace the outdoor power P.C. board.
11		Lit	13 times	Current sensor	A short or open circuit is detected in the input current detection circuit during operation.	Replace the outdoor power P.C. board.
12		Lit	14 times	Voltage sensor	A short or open circuit is detected in the input voltage detection circuit during operation.	Replace the outdoor power P.C. board.
13		Lit	15 times	Relay operation	No relay operation is detected during operation.	Replace the outdoor power P.C. board.
14		Lit	21 times	4-way valve	Connector of R.V. coil is disconnected, poorly connected or 4-way valve is faulty.	- Refer to 12-6. ③ "Check of R.V. coil". - Check the 4-way valve.
15	'Outdoor unit stops and restarts 3 minutes later' is repeated.	Twice	Not lit	IPM protection	Overcurrent is detected after 30 seconds of compressor startup.	- Reconnect compressor connector. - Refer to 12-6. ⑤ "How to check inverter/compressor".
				Lock protection	Overcurrent is detected within 30 seconds of compressor startup.	- Check the stop valve. - Check the power module (PAM module).
16		3 times	Not lit	Discharge temperature protection	The discharge temperature exceeds 239°F (MXZ-2C20NA2, MXZ-2C20NA3, MXZ-2C20NA4)/222.8°F (MXZ-3C24/3C30/4C36NA, MXZ-3C24/3C30/4C36NA2, MXZ-3C24/3C30/4C36NA3, MXZ-3C24/3C30/4C36NA4)/240.8°F (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4) during operation. Compressor can restart if discharge temperature thermistor reads 176°F (MXZ-2C20NA2, MXZ-2C20NA3, MXZ-2C20NA4)/203°F (MXZ-3C24/3C30/4C36NA, MXZ-3C24/3C30/4C36NA2, MXZ-3C24/3C30/4C36NA3, MXZ-3C24/3C30/4C36NA4)/212°F (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4) or less 3 minutes later.	- Check the amount of gas and refrigerant circuit. - Refer to 12-6. ④ "Check of LEV".
17		4 times	Not lit	Fin temperature protection	The fin temperature exceeds during operation.	- Check refrigerant circuit and refrigerant amount. - Refer to 12-6. ⑥ "Check of outdoor fan motor".
				P.C. board temperature protection	The P.C. board temperature exceeds during operation.	



No.	Symptom	Indication		Abnormal point / Condition	Condition	Remedy
		LED1(Red)	LED2(Yellow)			
18	'Outdoor unit stops and restarts 3 minutes later' is repeated.	5 times	Not lit	High pressure protection	High pressure is detected with the high pressure switch (HPS) during operation. The outdoor heat exchanger temperature exceeds 158°F during cooling or the indoor gas pipe temperature exceeds 158°F during heating.	• Check around of gas and the refrigerant circuit. • Check the stop valve.
19		6 times	Not lit	Pre-heating protection	Overcurrent is detected during pre-heating.	• Reconnect compressor connector. • Refer to 12-6. ⑤ "How to check inverter/compressor". • Check the power module.
20		8 times	Not lit	Converter protection	A failure is detected in the operation of the converter during operation.	• Replace the outdoor power P.C. board.
21		9 times	Not lit	Bus-bar voltage protection	The bus-bar voltage exceeds 400 V or falls to low level during compressor operating.	• Check the voltage of power supply. • Replace the outdoor power P.C. board or the outdoor control P.C. board. • Refer to 12-6. ④ "Check of bus-bar voltage".
22		11 times	Not lit	Low out side temperature protection(cooling) Low out side temperature protection(Heating)	The ambient became 10.4°F or less. The ambient became 1.4°F or less. (MXZ-3C24/3C30/4C36/5C42NA, MXZ-3C24/3C30/4C36/5C42NA2, MXZ-3C24/3C30/4C36/5C42NA3, MXZ-3C24/3C30/4C36/5C42NA4) The ambient became -18°F or less. (MXZ-2C20/3C24/3C30NAHZ, MXZ-2C20/3C24/3C30NAHZ2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-2C20/3C24/3C30NAHZ4)	—
23		13 times	Not lit	Outdoor fan motor	A failure occurs 3 consecutive times within 30 seconds after the fan gets started.	• Refer to 12-6. ③ "Check of outdoor fan motor".
24		14 times	Not lit	4-way valve switching operation	Connector of R.V. coil is disconnected, poorly connected or 4-way valve is faulty.	• Refer to 12-6. ③ "Check of R.V. coil". • Check the 4-way valve.
25		Lit	8 times	Current sensor protection	A short or open circuit is detected in the current sensor during compressor operating.	• Replace the outdoor power P.C. board.
26		Lit	11 times	Communication between P.C. boards protection	Communication error occurs between the outdoor control P.C. board and outdoor power P.C. board for more than 10 seconds.	• Check the connecting wire between outdoor control P.C. board and outdoor power P.C. board.
27		Lit	12 times	Zero cross detecting circuit protection (Outdoor power P.C. board)	Zero cross signal cannot be detected while the compressor is operating.	• Replace the outdoor power P.C. board.
28	Outdoor unit operates.	Once	Lit	Primary current protection	The input current exceeds 15.0 A (MXZ-2C20NA2, MXZ-2C20NA3, MXZ-2C20NA4)/18.4 A (MXZ-3C24/3C30/4C36NA, MXZ-3C24/3C30/4C36NA2, MXZ-3C24/3C30/4C36NA3, MXZ-3C24/3C30/4C36NA4)/26.8 A (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4).	These symptoms do not mean any abnormality of the product, but check the following points. • Check if indoor filters are clogged. • Check if refrigerant is short. • Check if indoor/outdoor unit air circulation is short cycled.
29		Twice	Lit	High pressure protection Defrosting in cooling	The indoor gas pipe temperature exceeds 113°F during heating. The indoor gas pipe temperature falls 37.4°F or below during cooling.	
30		3 times	Lit	Discharge temperature protection	The frequency of the compressor is kept 80 Hz or more and the discharge temperature is kept under 122°F(COOL mode)/104°F(HEAT mode) for more than 40 minutes.	• Check refrigerant circuit and refrigerant amount. • Refer to 12-6. ⑥ "Check of LEV". • Refer to 12-6. ⑥ "Check of outdoor thermistors".
31		4 times	Lit	Low discharge temperature protection	The frequency of the compressor is kept 80 Hz or more and the discharge temperature is kept under 102.2°F for more than 20 minutes.	• Refer to 12-6. ⑥ "Check of LEV". • Check refrigerant circuit and refrigerant amount.
32		5 times	Lit	Cooling high pressure protection	The outdoor heat exchanger temperature exceeds 136.4°F during operation.	This symptom does not mean any abnormality of the product, but check the following points. • Check if indoor filters are clogged. • Check if refrigerant is short. • Check if indoor/outdoor unit air circulation is short cycled.
33		7 times	Lit	High → Low Pressure bypass valve Cooling evaporating temperature drop prevention control	During cooling operation, the temperature of indoor heat exchanger becomes 37.4°F or less within 1 hour after the compressor starts running, or it becomes less than 53.6°F - 60.8°F* later than that. * It depends on the difference between the set temperature and the room temperature. (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4)	This symptom does not mean any abnormality of the product, but check the following points. • Check the indoor filters are not clogged. • Check there is sufficient refrigerant. • Check the indoor/outdoor unit air circulation is not short cycled.
34		11 times	Lit	M-NET communication error	M-NET adapter P.C. board detects an abnormality in the communication error.	• Check the connecting wire between M-NET adapter P.C. board and outdoor control P.C. board, or terminal block.



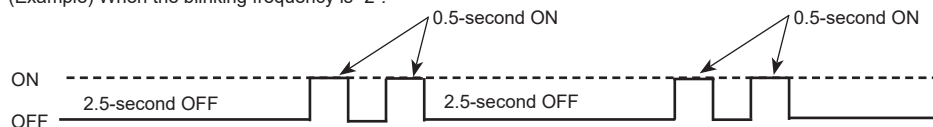
No.	Symptom	Indication		Abnormal point / Condition	Condition	Remedy
		LED1(Red)	LED2(Yellow)			
35	Outdoor unit operates normally.	7 times	Lit	High → Low pressure bypass valve High pressure protection control at startup of heating operation	The room temperature is 75.2°F or more when 1 or 2 unit(s) start(s) the heating operation. (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4)	This symptom does not mean any abnormality of the product.
				High → Low pressure bypass valve Compressor oil tempering control at startup of heating operation	Both the following are true: • The outside temperature is 28.4°F or less when the heating operation is started. • [(Discharge temperature) - (Indoor heat exchanger temperature)] < 9°F (MXZ-2C20/3C24/3C30NAHZ, MXZ-5C42NA, MXZ-2C20/3C24/3C30NAHZ2, MXZ-5C42NA2, MXZ-2C20/3C24/3C30NAHZ3, MXZ-5C42NA3, MXZ-2C20/3C24/3C30NAHZ4, MXZ-5C42NA4)	
36		8 times	Lit	Cooling evaporating temperature protection	During cooling operation, the temperature of indoor heat exchanger becomes 44.6°F - 51.8°F* or less within 1 hour after the compressor starts running, or it becomes 48.2°F - 62.6°F* or less later than that. * It depends on the indoor unit type/model or the difference between the set temperature and the room temperature.	This symptom does not mean any abnormality of the product.
37		9 times	Lit	Inverter check mode	The unit is operated with emergency operation switch.	—
38		Lit	Lit	Normal	—	—

NOTE: 1. The location of LED is illustrated at the right figure. Refer to 12-7.1.

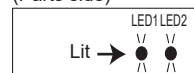
2. LED is lit during normal operation.

The blinking frequency shows the number of times the LED blinks after every 2.5-second OFF.

(Example) When the blinking frequency is "2".

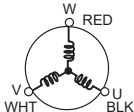
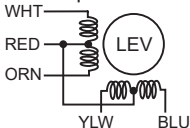


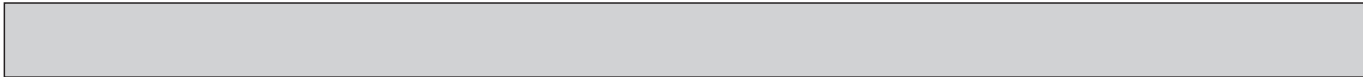
Outdoor control P.C. board
(Parts side)



12-5. TROUBLESHOOTING CRITERION OF MAIN PARTS

MXZ-3C24NA	MXZ-3C30NA	MXZ-4C36NA	MXZ-5C42NA	
MXZ-2C20NA2	MXZ-3C24NA2	MXZ-3C30NA2	MXZ-4C36NA2	MXZ-5C42NA2
MXZ-2C20NA3	MXZ-3C24NA3	MXZ-3C30NA3	MXZ-4C36NA3	MXZ-5C42NA3
MXZ-2C20NA4	MXZ-3C24NA4	MXZ-3C30NA4	MXZ-4C36NA4	MXZ-5C42NA4
MXZ-2C20NAHZ	MXZ-3C24NAHZ	MXZ-3C30NAHZ		
MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2		
MXZ-2C20NAHZ3	MXZ-3C24NAHZ3	MXZ-3C30NAHZ3		
MXZ-2C20NAHZ4	MXZ-3C24NAHZ4	MXZ-3C30NAHZ4		

Part name	Check method and criterion																																																
Defrost thermistor (RT61) Fin temperature thermistor (RT64) Ambient temperature thermistor (RT65) Outdoor heat exchanger temperature thermistor (RT68)	Measure the resistance with a multimeter. Refer to 12-7. "TEST POINT DIAGRAM AND VOLTAGE", 1. "Outdoor control P.C.board", 2. "Outdoor power P.C. board", for the chart of thermistor.																																																
Discharge temperature thermistor (RT62)	Measure the resistance with a multimeter. Before measurement, hold the thermistor with your hands to warm it up. Refer to 12-7. "TEST POINT DIAGRAM AND VOLTAGE", 1. "Outdoor control P.C. board" for the chart of thermistor.																																																
Compressor	Measure the resistance between terminals using a multimeter. (Winding temperature: 14°F - 104°F)  <table><tr><th colspan="4">Normal (Each phase)</th></tr><tr><td>MXZ-2C20NA2</td><td>MXZ-3C24NA</td><td>MXZ-3C30NA</td><td>MXZ-4C36NA</td></tr><tr><td>MXZ-2C20NA3</td><td>MXZ-3C24NA2</td><td>MXZ-3C30NA2</td><td>MXZ-4C36NA2</td></tr><tr><td>MXZ-2C20NA4</td><td>MXZ-3C24NA3</td><td>MXZ-3C30NA3</td><td>MXZ-4C36NA3</td></tr><tr><td></td><td>MXZ-3C24NA4</td><td>MXZ-3C30NA4</td><td>MXZ-4C36NA4</td></tr><tr><td>0.63 kΩ - 0.78 kΩ</td><td colspan="3">0.83 Ω - 1.03 Ω</td></tr></table> Measure the resistance between terminals using a multimeter. (Winding temperature: 14°F - 104°F) <table><tr><th colspan="4">Normal (Each phase)</th></tr><tr><td>MXZ-5C42NA</td><td>MXZ-2C20NAHZ</td><td>MXZ-3C24NAHZ</td><td>MXZ-3C30NAHZ</td></tr><tr><td>MXZ-5C42NA2</td><td>MXZ-2C20NAHZ2</td><td>MXZ-3C24NAHZ2</td><td>MXZ-3C30NAHZ2</td></tr><tr><td>MXZ-5C42NA3</td><td>MXZ-2C20NAHZ3</td><td>MXZ-3C24NAHZ3</td><td>MXZ-3C30NAHZ3</td></tr><tr><td>MXZ-5C42NA4</td><td>MXZ-2C20NAHZ4</td><td>MXZ-3C24NAHZ4</td><td>MXZ-3C30NAHZ4</td></tr><tr><td colspan="4">0.77 Ω - 0.95 Ω</td></tr></table>	Normal (Each phase)				MXZ-2C20NA2	MXZ-3C24NA	MXZ-3C30NA	MXZ-4C36NA	MXZ-2C20NA3	MXZ-3C24NA2	MXZ-3C30NA2	MXZ-4C36NA2	MXZ-2C20NA4	MXZ-3C24NA3	MXZ-3C30NA3	MXZ-4C36NA3		MXZ-3C24NA4	MXZ-3C30NA4	MXZ-4C36NA4	0.63 kΩ - 0.78 kΩ	0.83 Ω - 1.03 Ω			Normal (Each phase)				MXZ-5C42NA	MXZ-2C20NAHZ	MXZ-3C24NAHZ	MXZ-3C30NAHZ	MXZ-5C42NA2	MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2	MXZ-5C42NA3	MXZ-2C20NAHZ3	MXZ-3C24NAHZ3	MXZ-3C30NAHZ3	MXZ-5C42NA4	MXZ-2C20NAHZ4	MXZ-3C24NAHZ4	MXZ-3C30NAHZ4	0.77 Ω - 0.95 Ω			
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Outdoor fan motor	• Refer to 12-6. ©																																																
R.V. coil	Measure the resistance using a multimeter. (Part temperature: 14°F - 104°F) <table><tr><th colspan="4">Normal (Each phase)</th></tr><tr><td>MXZ-2C20NA2</td><td>MXZ-3C24NA</td><td>MXZ-3C30NA</td><td>MXZ-4C36NA</td></tr><tr><td>MXZ-2C20NA3</td><td>MXZ-3C24NA2</td><td>MXZ-3C30NA2</td><td>MXZ-4C36NA2</td></tr><tr><td>MXZ-2C20NA4</td><td>MXZ-3C24NA3</td><td>MXZ-3C30NA3</td><td>MXZ-4C36NA3</td></tr><tr><td></td><td>MXZ-3C24NA4</td><td>MXZ-3C30NA4</td><td>MXZ-4C36NA4</td></tr><tr><td>1.26 kΩ - 1.62 kΩ</td><td colspan="3">1.20 kΩ - 1.77 kΩ</td></tr></table> Measure the resistance using a multimeter. (Part temperature: 14°F - 104°F) <table><tr><th colspan="4">Normal (Each phase)</th></tr><tr><td>MXZ-5C42NA</td><td>MXZ-2C20NAHZ</td><td>MXZ-3C24NAHZ</td><td>MXZ-3C30NAHZ</td></tr><tr><td>MXZ-5C42NA2</td><td>MXZ-2C20NAHZ2</td><td>MXZ-3C24NAHZ2</td><td>MXZ-3C30NAHZ2</td></tr><tr><td>MXZ-5C42NA3</td><td>MXZ-2C20NAHZ3</td><td>MXZ-3C24NAHZ3</td><td>MXZ-3C30NAHZ3</td></tr><tr><td>MXZ-5C42NA4</td><td>MXZ-2C20NAHZ4</td><td>MXZ-3C24NAHZ4</td><td>MXZ-3C30NAHZ4</td></tr><tr><td colspan="4">1.24 kΩ - 1.86 kΩ</td></tr></table>	Normal (Each phase)				MXZ-2C20NA2	MXZ-3C24NA	MXZ-3C30NA	MXZ-4C36NA	MXZ-2C20NA3	MXZ-3C24NA2	MXZ-3C30NA2	MXZ-4C36NA2	MXZ-2C20NA4	MXZ-3C24NA3	MXZ-3C30NA3	MXZ-4C36NA3		MXZ-3C24NA4	MXZ-3C30NA4	MXZ-4C36NA4	1.26 kΩ - 1.62 kΩ	1.20 kΩ - 1.77 kΩ			Normal (Each phase)				MXZ-5C42NA	MXZ-2C20NAHZ	MXZ-3C24NAHZ	MXZ-3C30NAHZ	MXZ-5C42NA2	MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2	MXZ-5C42NA3	MXZ-2C20NAHZ3	MXZ-3C24NAHZ3	MXZ-3C30NAHZ3	MXZ-5C42NA4	MXZ-2C20NAHZ4	MXZ-3C24NAHZ4	MXZ-3C30NAHZ4	1.24 kΩ - 1.86 kΩ			
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2-way valve solenoid coil	Measure the resistance using a multimeter. (Part temperature: 14°F - 104°F) <table><tr><th colspan="4">Normal</th></tr><tr><td>MXZ-5C42NA</td><td>MXZ-2C20NAHZ</td><td>MXZ-3C24NAHZ</td><td>MXZ-3C30NAHZ</td></tr><tr><td>MXZ-5C42NA2</td><td>MXZ-2C20NAHZ2</td><td>MXZ-3C24NAHZ2</td><td>MXZ-3C30NAHZ2</td></tr><tr><td>MXZ-5C42NA3</td><td>MXZ-2C20NAHZ3</td><td>MXZ-3C24NAHZ3</td><td>MXZ-3C30NAHZ3</td></tr><tr><td>MXZ-5C42NA4</td><td>MXZ-2C20NAHZ4</td><td>MXZ-3C24NAHZ4</td><td>MXZ-3C30NAHZ4</td></tr><tr><td colspan="4">0.97 kΩ - 1.37 kΩ</td></tr></table>	Normal				MXZ-5C42NA	MXZ-2C20NAHZ	MXZ-3C24NAHZ	MXZ-3C30NAHZ	MXZ-5C42NA2	MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2	MXZ-5C42NA3	MXZ-2C20NAHZ3	MXZ-3C24NAHZ3	MXZ-3C30NAHZ3	MXZ-5C42NA4	MXZ-2C20NAHZ4	MXZ-3C24NAHZ4	MXZ-3C30NAHZ4	0.97 kΩ - 1.37 kΩ																											
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0.97 kΩ - 1.37 kΩ																																																	
Linear expansion valve 	Measure the resistance using a multimeter. (Part temperature: 14°F - 104°F) <table><tr><th>Color of lead wire</th><th>Normal</th></tr><tr><td>WHT - RED</td><td rowspan="4">37.4 Ω - 53.9 Ω</td></tr><tr><td>RED - ORN</td></tr><tr><td>YLW - RED</td></tr><tr><td>RED - BLU</td></tr></table>	Color of lead wire	Normal	WHT - RED	37.4 Ω - 53.9 Ω	RED - ORN	YLW - RED	RED - BLU																																									
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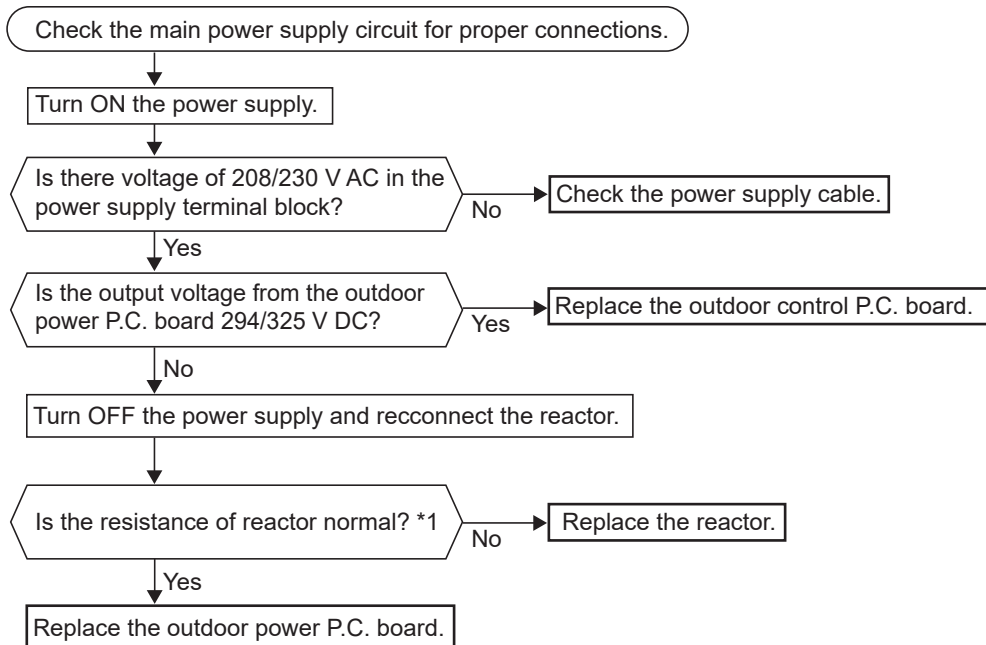


Part name	Check method and criterion		
High pressure switch(HPS)		Pressure	Normal
	HPS	537 ± 22 PSIG	Close
		696 ⁺⁷ / ₋₁₅ PSIG	Open
Defrost heater	Measure the resistance using a multimeter. (Part temperature: 14°F - 104°F)		
	Normal		
	MXZ-2C20NAHZ	MXZ-3C24NAHZ	MXZ-3C30NAHZ
	MXZ-2C20NAHZ2	MXZ-3C24NAHZ2	MXZ-3C30NAHZ2
	MXZ-2C20NAHZ3	MXZ-3C24NAHZ3	MXZ-3C30NAHZ3
	MXZ-2C20NAHZ4	MXZ-3C24NAHZ4	MXZ-3C30NAHZ4
	0.35 kΩ - 0.50 kΩ		

12-6. TROUBLESHOOTING FLOW

Outdoor unit does not operate.

Ⓐ Check of power supply



*1 MXZ-3C24NA MXZ-3C30NA MXZ-4C36NA
 MXZ-2C20NA2 MXZ-3C24NA2 MXZ-3C30NA2 MXZ-4C36NA2
 MXZ-2C20NA3 MXZ-3C24NA3 MXZ-3C30NA3 MXZ-4C36NA3
 MXZ-2C20NA4 MXZ-3C24NA4 MXZ-3C30NA4 MXZ-4C36NA4

Measuring points	Resistance
pin 1 – pin 2	1 Ω or less
pin 3 – pin 4	1 Ω or less

MXZ-5C42NA MXZ-5C42NA2 MXZ-5C42NA3 MXZ-5C42NA4
 MXZ-2C20NAHZ MXZ-3C24NAHZ MXZ-3C30NAHZ
 MXZ-2C20NAHZ2 MXZ-3C24NAHZ2 MXZ-3C30NAHZ2
 MXZ-2C20NAHZ3 MXZ-3C24NAHZ3 MXZ-3C30NAHZ3
 MXZ-2C20NAHZ4 MXZ-3C24NAHZ4 MXZ-3C30NAHZ4

Measuring points	Resistance
–	1 Ω or less

- When unit cannot operate neither by the remote controller nor by EMERGENCY OPERATION switch.
Indoor unit does not operate.
- When OPERATION INDICATOR lamp blinks ON and OFF in every 0.5-second.
Outdoor unit does not operate.

② How to check miswiring and serial signal error (when outdoor unit does not work)

LED indication for communication status

Communication status is indicated by the LED.

Unit status

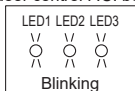
Blinking: normal communication

Lit: abnormal communication or not connected

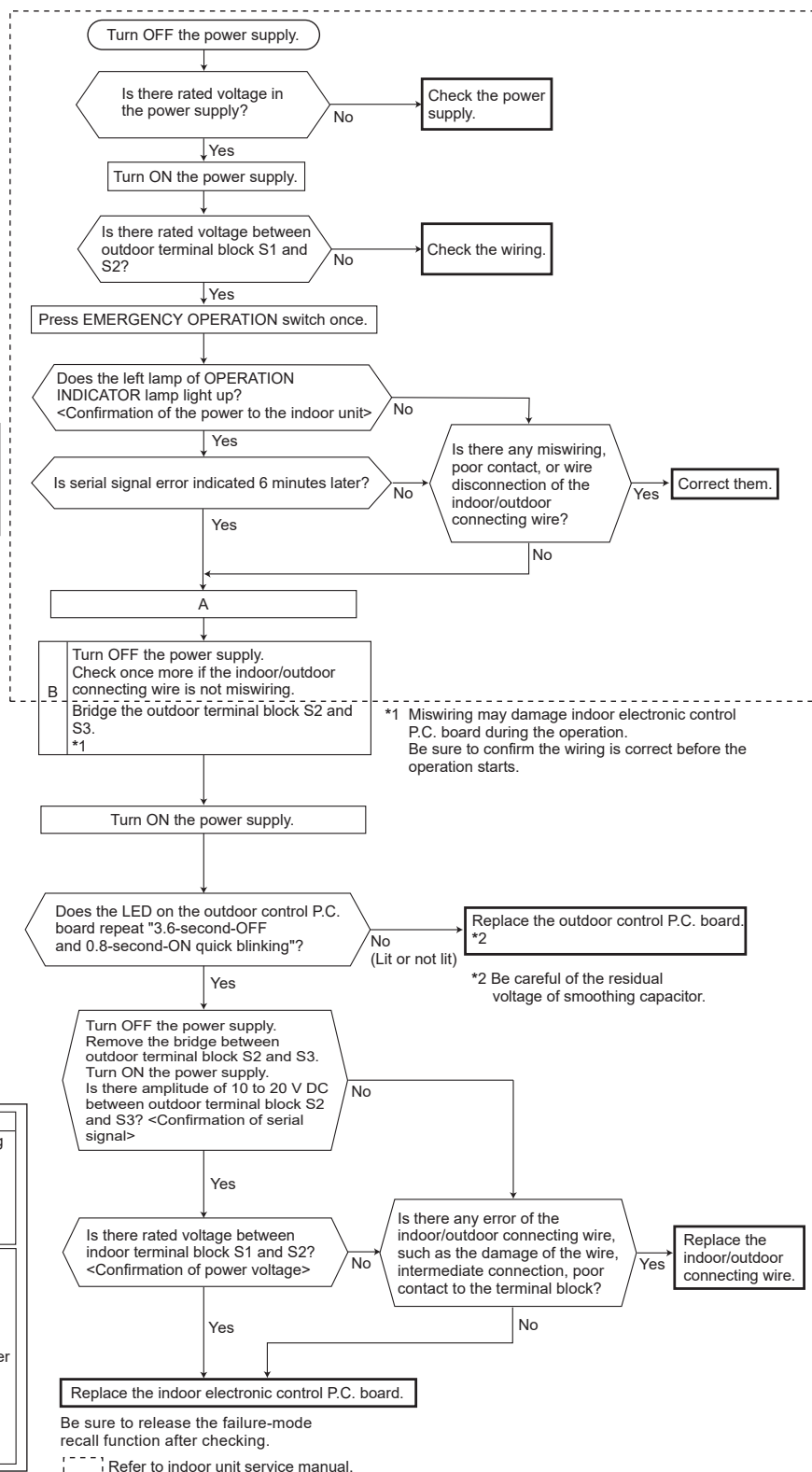
Pattern 1 and 2 is repeatedly displayed alternately. Each pattern is displayed for 15 seconds.

NOTE: "Lit" in the table below does not indicate abnormal communication.

Outdoor control P.C. board



Pattern	LED 1	LED 2	LED 3
1	Unit A status	Unit B status	Lit
2	Unit C status	Unit D status	Not lit
3	Unit E status	—	Blinking



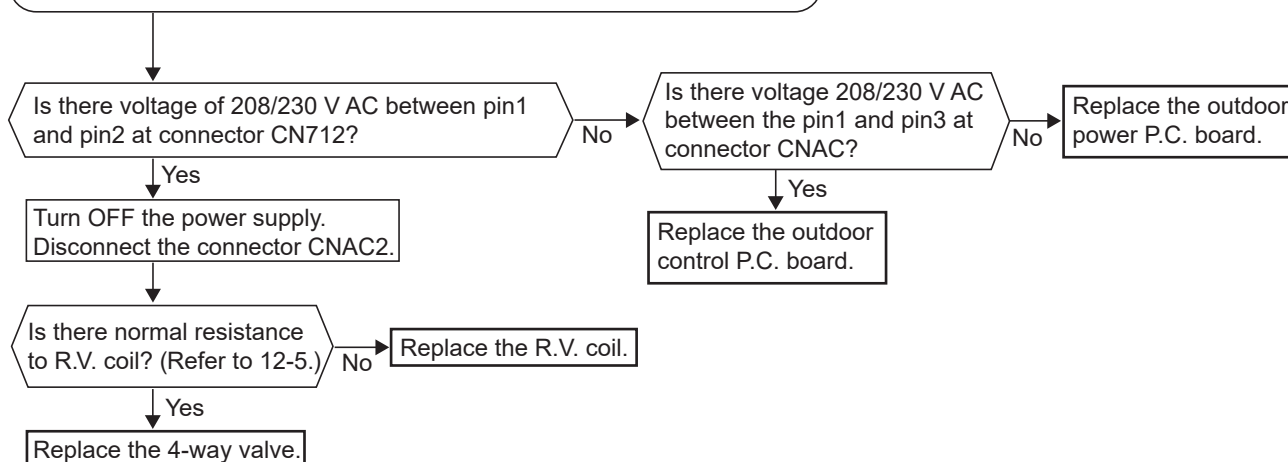
The cooling operation or heating operation does not operate.

© Check of R.V. coil

• When cooling operation does not work,

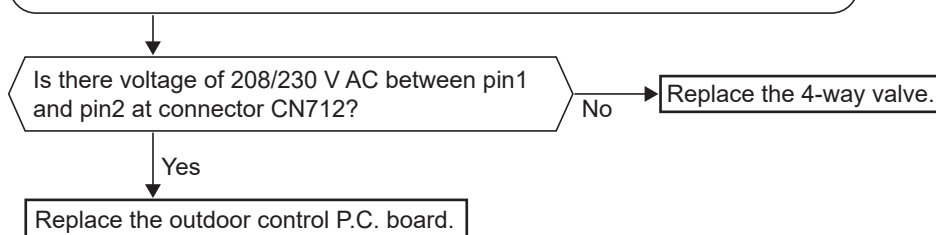
1. Disconnect the lead wire leading to the compressor.
2. 3 minutes after turning ON the power supply, start EMERGENCY OPERATION in COOL mode.

CNAC CN712	Outdoor control P.C. board
CNAC2	Outdoor power P.C. board



• When heating operation does not work,

1. Disconnect the lead wire leading to the compressor.
2. 3 minutes after turning ON the power supply, start EMERGENCY OPERATION in HEAT mode.



- When cooling, heat exchanger of non-operating indoor unit frosts.
- When heating, non-operating indoor unit gets warm.

① Check of LEV

Turn ON the power supply to the outdoor unit after checking LEV coil is mounted to the LEV body securely.

Is "click - click" sound heard?
Or, do you feel vibration of LEV coil with your hand?

Yes

Normal

No

Disconnect the connectors.

MXZ-2C

CN791: LEV A, CN792: LEV B,

CN797: LEV R (**MXZ-2C20NA2, MXZ-2C20NA3, MXZ-2C20NA4**)

MXZ-3C/4C/5C

CN791: LEV A, CN792: LEV B, CN793: LEV C

CN794: LEV D (**MXZ-4C/5C**),

CN795: LEV E (**MXZ-5C**),

Is there normal resistance to LEV coil?

(Refer to 12-5.)

Yes

Replace the outdoor control P.C. board.

No

Replace LEV coil.

CN791	Outdoor control P.C. board
CN792	
CN793	
CN794	
CN795	
CN797	

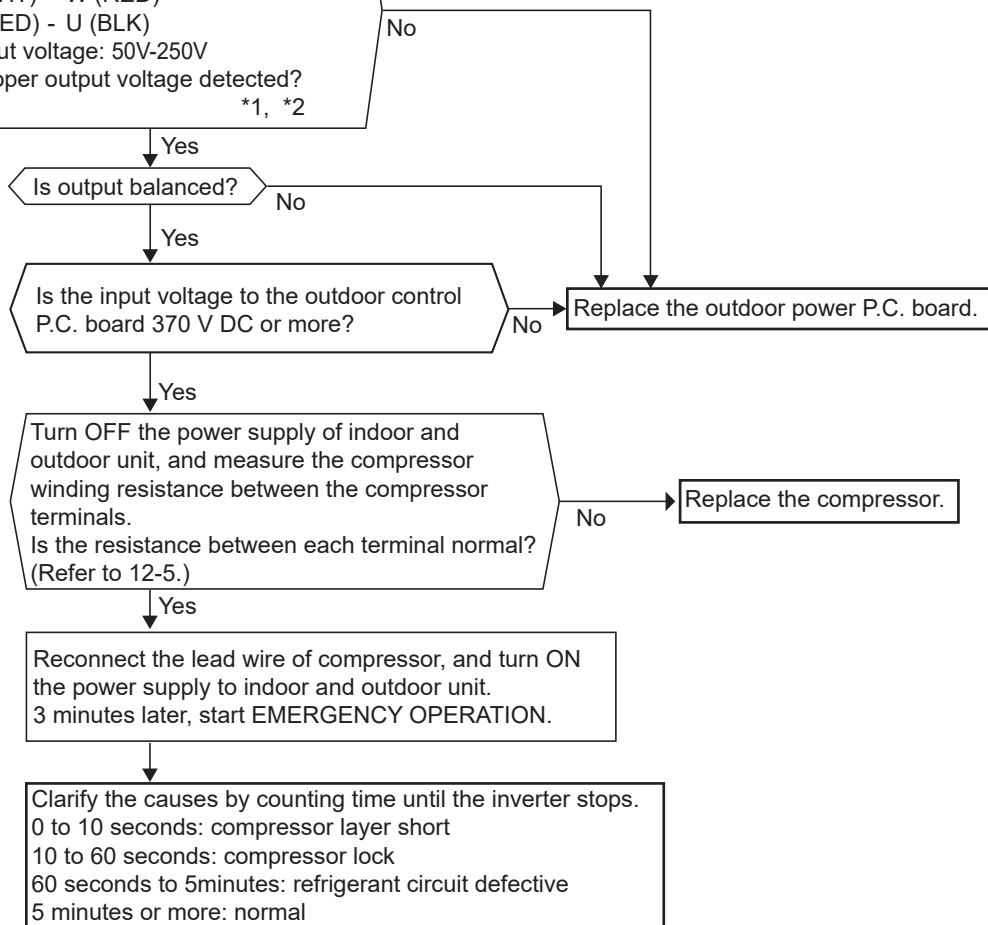
- When heating, room does not get warm.
- When cooling, room does not get cool.

Ⓔ How to check inverter/compressor

Disconnect the terminal of the compressor or the connector (CNMC) between the compressor and the outdoor power P.C. board. 3 minutes after the power supply is turned ON, start EMERGENCY OPERATION.

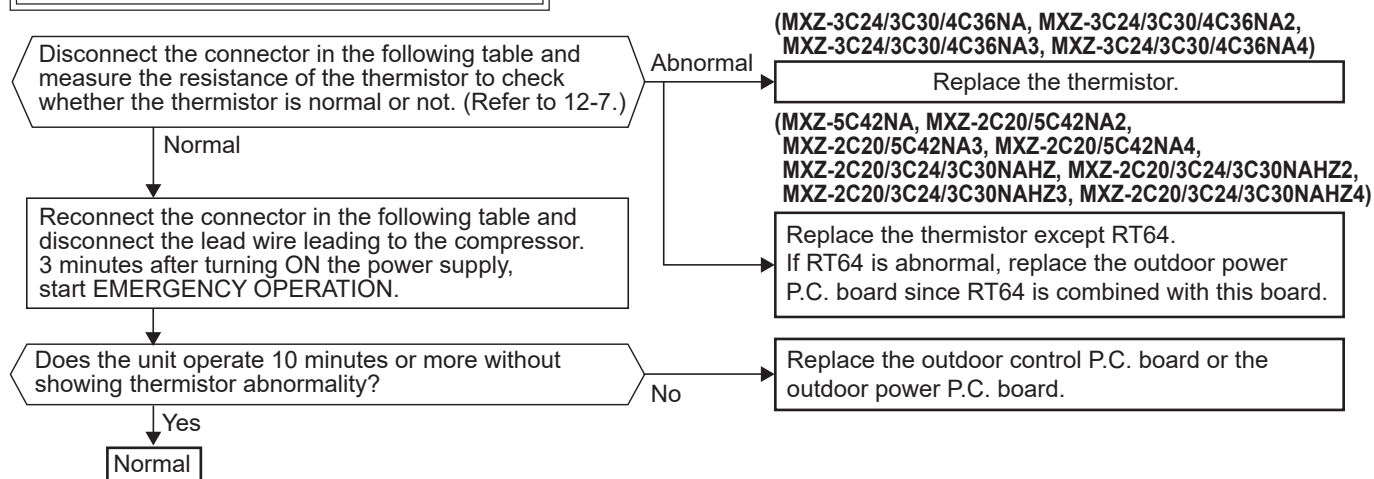
Measure the voltage between each lead wire leading to the compressor.
 U (BLK) - V (WHT)
 V (WHT) - W (RED)
 W (RED) - U (BLK)
 Output voltage: 50V-250V
 Is proper output voltage detected?
 *1, *2

- *1 • After the outdoor fan starts running, wait for 1 minute or more before measuring the voltage.
- The output voltage values have the tolerance of $\pm 20\%$.
- *2 • The output differs depending on the capacity or the number of indoor units to be operated.



• When thermistor is abnormal,

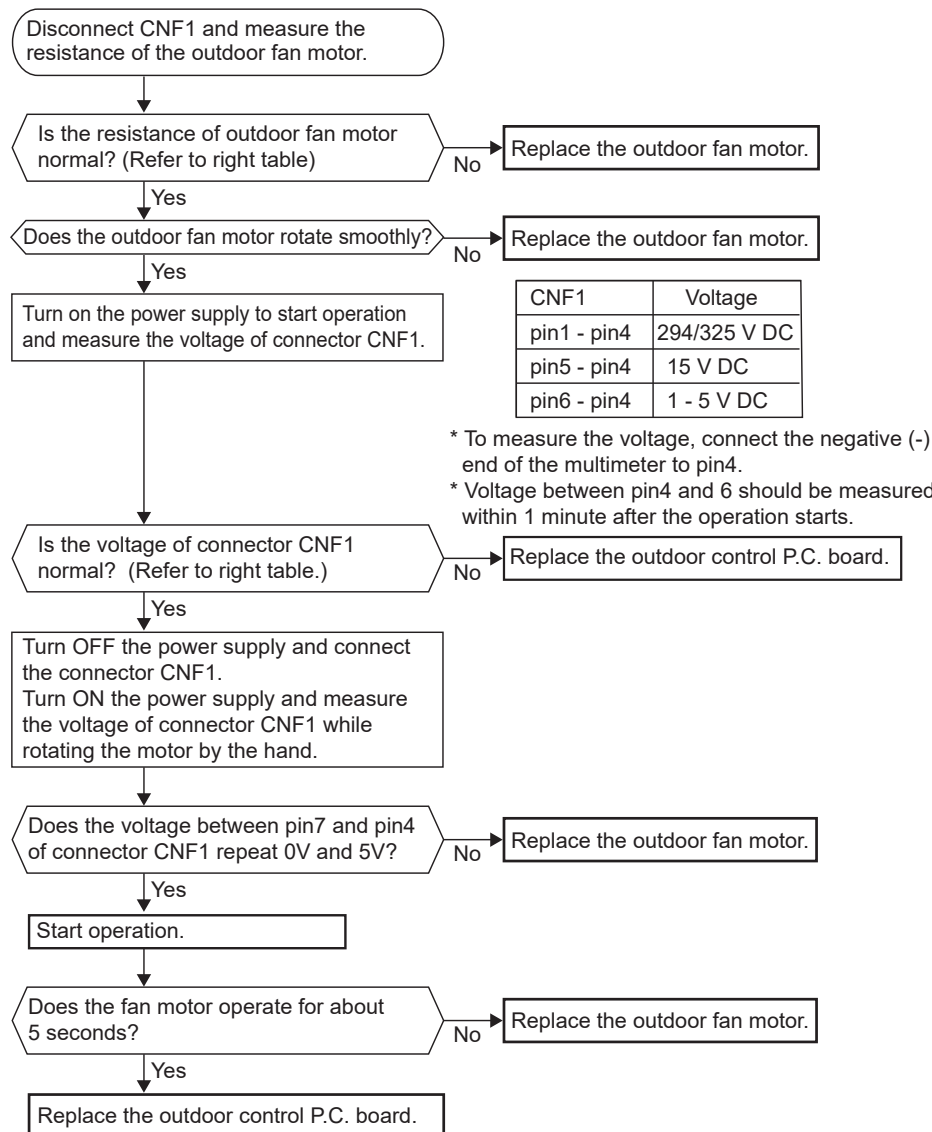
⑤ Check of outdoor thermistors



Thermistor	Symbol	Connector, Pin No.	Board
Defrost	RT61	Between CNTH1 pin1 and pin2	Outdoor control P.C. board
Discharge temperature	RT62	Between CNTH1 pin3 and pin4	
Outdoor heat exchanger temperature	RT68	Between CNTH1 pin7 and pin8	
Ambient temperature	RT65	Between CNTH2 pin1 and pin2	
Fin temperature	RT64	Between CN171 pin1 and pin2	Outdoor power P.C. board

• Fan motor does not operate or stops operating shortly after starting the operation.

③ Check of outdoor fan motor



CNF1	Outdoor control P.C. board
------	----------------------------

Model name of fan motor*:
SIC-71XX-XXXX-X, SIC-81XX-XXXX-X

Measuring points	Resistance
pin1 - pin4	∞
pin5 - pin4	60 kΩ
pin6 - pin4	160 kΩ
pin7 - pin4	∞

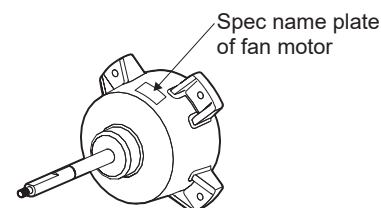
Model name of fan motor*:
SIC-82XX-XXXX-X, SIC-88XX-XXXX-X

Measuring points	Resistance
pin1 - pin4	1.1 MΩ
pin5 - pin4	40 kΩ
pin6 - pin4	220 kΩ
pin7 - pin4	∞

* To measure the resistance, connect the negative (-) end of the multimeter to pin4.

* See the spec name plate indicated in the diagram for the model name of fan motor.

* Where "X" in model name of fan motor represents numbers and letters

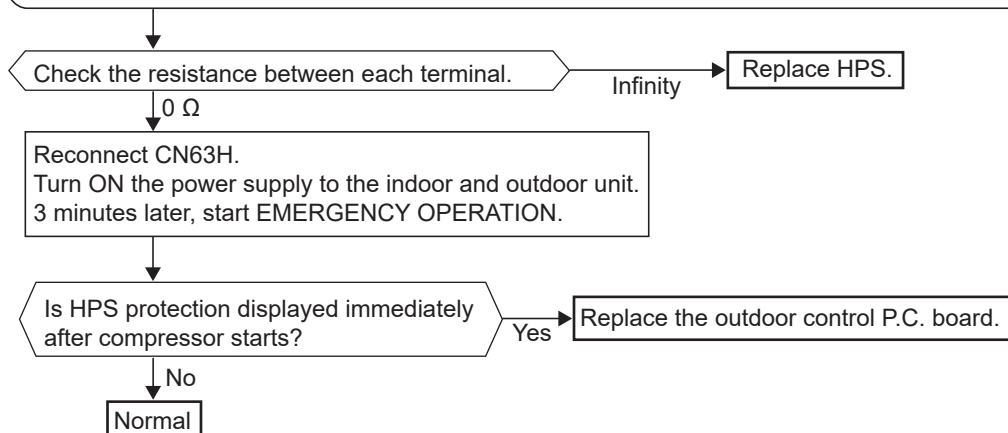


- When the operation frequency does not go up from the lowest frequency.

Ⓜ Check of HPS

CN63H	Outdoor control P.C. board
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1. Disconnect the connector CN63H in the outdoor control P.C. board.
2. Check the resistance of HPS after 1 minute has passed since the outdoor unit power supply was turned OFF.

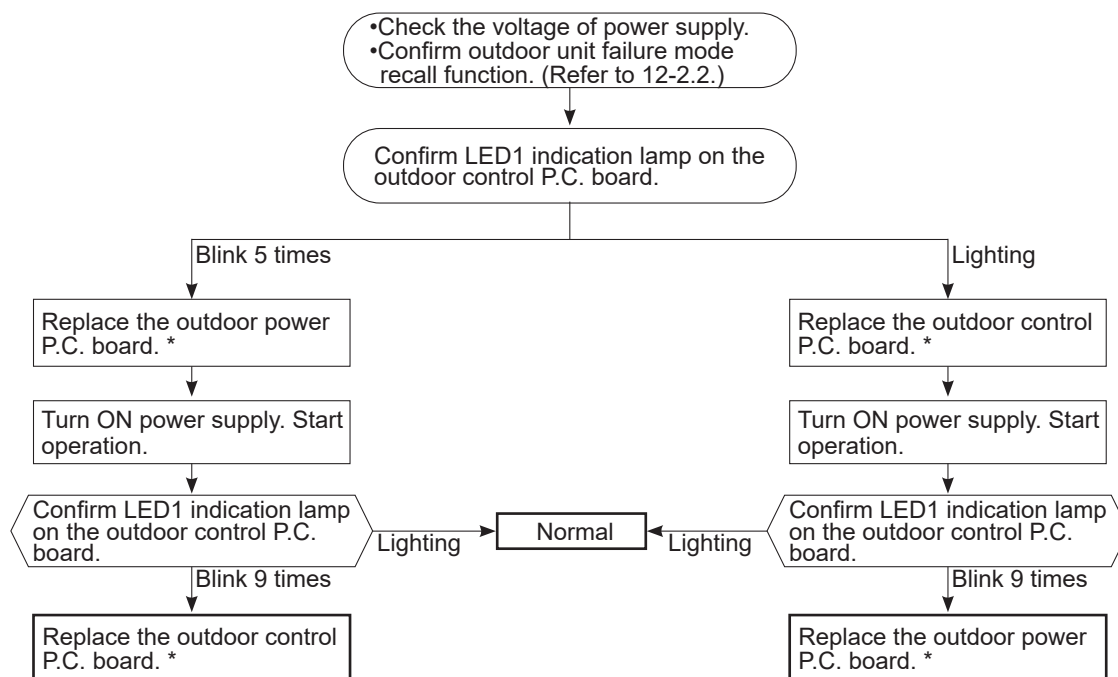


① The other cases

Indoor unit does not operate. (different operating models in multi system)

- When you try to run 2 indoor units simultaneously, one for cooling and the other for heating, the unit which transmits signal to the outdoor units first decides the operation mode.
- When the above situation occurs, set all the indoor units to the same mode, turn OFF the indoor units, and then turn them back ON.
- Though the top of the indoor unit sometimes gets warm, this does not mean malfunction. The reason is that the refrigerant gas continuously flows into the indoor unit even while it is not operating.

Ⓜ Check of bus-bar voltage



* Turn OFF power supply before removing P.C. board.