



Product Bulletin

Split Systems, DX Cassette Type 18,000--42,000 BTU/H, 50Hz Cooling Only and Heat Pump R22 and R407c



	Indoor unit	Outdoor Unit
50 Hz; R22		
Cooling only	MCC518BB	TTK518ZB
	MCC524BB	TTK524ZB
	MCC542BB	TTK542ZD
Heat pumps	MWC518BB	TWK518ZB
	MWC524BB	TWK524ZB
	MWC542BB	TWK542ZD
50 Hz; R407c		
Cooling only	MCC518CB	TTK518BB
	MCC524CB	TTK524BB
	MCC542CB	TTK542BD
Heat pumps	MWC518CB	TWK518BB
	MWC524CB	TWK524BB
	MWC542CB	TWK542BD



Features and Benefits

Designed to perform, Built to Last

The Trane global reputation for Innovation, excellence and reliability finds full expression in the Trane's global range of mini-split air conditioners.

Each of the quality individual models in the range comprises the optimum blend of advanced technology, attractive design, outstanding value and solid reliability.

Unequaled Reliability, Durability

Proven Design Through Testing and Research

Trane air conditioners are constructed to provide long life and trouble-free enjoyment. At Trane's Unique **System Extreme Environment Test Center**, products are tested to stimulate conditions from arctic coasts to desert plains, to prove durability in the design.

Remote Control

Easy to read, easy to use.

Auto Mode

Controls temperature to a precise setting. Fan speed is automatically set according to the room temperature to provide just the right amount of airflow, providing comfort without excessive noise.

Dry Mode: Dehumidification

Eliminates humidity efficiently, providing dry energy-efficient comfort.

Fan Speed Control: Adjustable Air Speed

Adjusting the fan speed four ways (Low, Medium, High and Automatic) allows the fan speed to be set automatically based on the temperature of the room.

Sleep Mode

Adjusts the temperature automatically, while you sleep, to provide optimum comfort and energy savings.

Louver: Direct the Air Flow

Easily adjust the direction of air flow to exactly where you want, or select sweep provide air to all parts of the room using the remote control.

24-Hour Timer

Convenient energy-saving feature allows you to preset the times that the system will turn ON and OFF for increased comfort.

Condensing Unit

- Quiet, attractive condensing unit is compact to fit in small spaces.
- Galvanized, coated steel, protect iron efficiently.
- Refrigerant is precharged for easy installation in the field.
- **Silver-Grey Powder Paint Finish**
Superior paint process that gives a high-gloss finish and protects the unit from fading and corrosion, making the unit looks new for many years.
- Attractive silver-gray color.
- **Energy Efficient**
Provides lower operating cost.
- Blue wave hydrophilic fin, evacuates condensate efficiently during the defrost cycle.
- Flare refrigerant connection.

Featuring small space occupation and delicate panel, Cassette type air-conditioner serves not only as an air-conditioner but an indoor decoration as well, which makes it widely used in offices, stores, entertainment resorts and housing etc. Enjoying the functions of heating, cooling and dehumidification, it can meet various requirements of the people. Mounted at the center of the ceiling, warm air or cool air can evenly fill the space, which makes people comfortable at any part of a room.





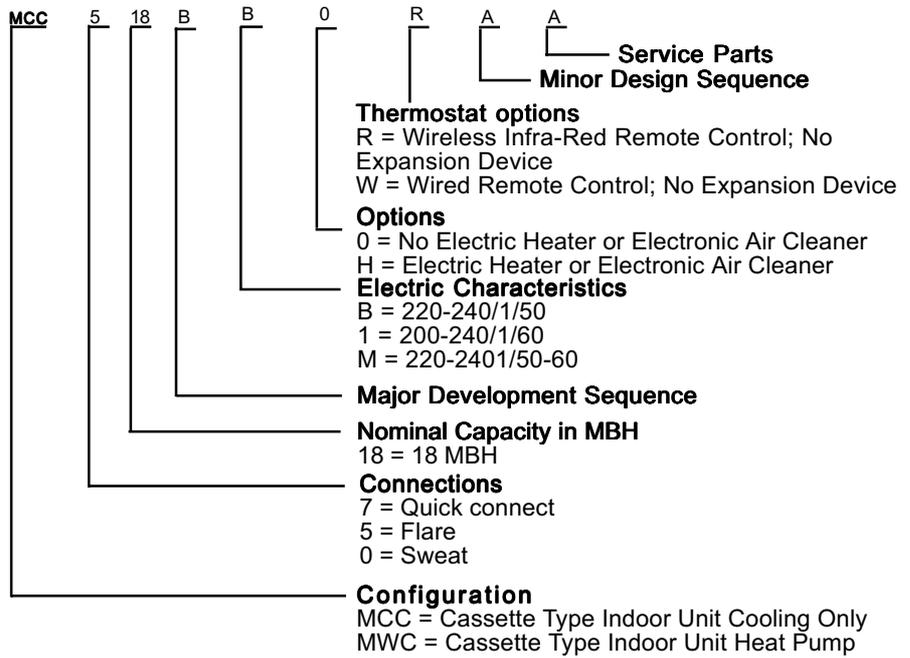
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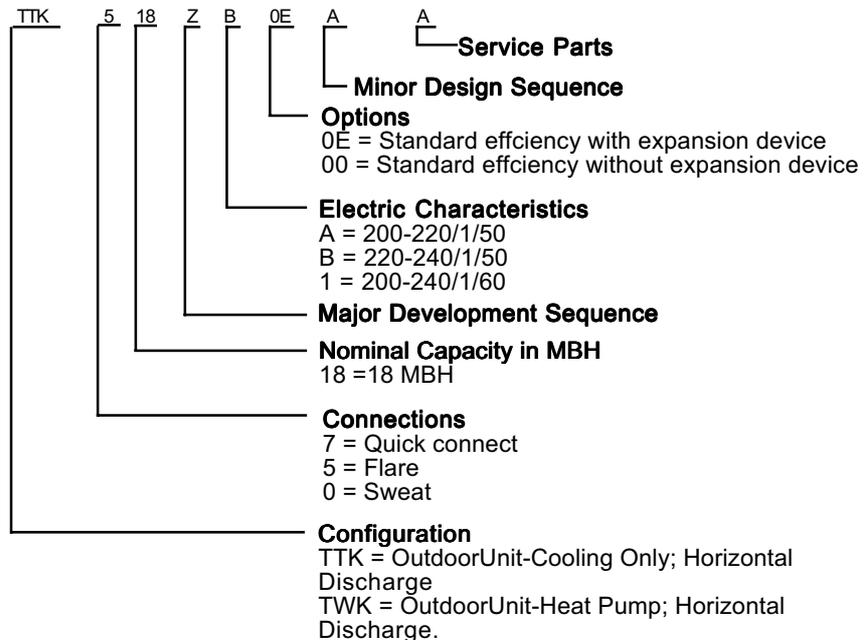


Model Number Description

Indoor Unit



Outdoor Unit





General Data

Systems

Models	Indoor unit Outdoor unit	MCC518BB TTK518ZB	MCC524BB TTK524ZB	MCC542BB TTK542ZD
Functions		cooling	cooling	cooling
Power	(PH-Hz-V)	1/50/220	1/50/220	3/50/380
Capacity	W	5000	7000	12000
Total input current	A	9.3	12.35	8
Air flow	M ³ /h	680	1180	1860
Dehumidifying	L/h	2.9	4	7.0

Indoor Units (R22)

Models		MCC518BB	MCC524BB	MWC542BB
Fan motor	Speed (r/min) Output power (W)	620/570/520 35	600/550/500 35	610/560/510 50
Fan	Type -Number Di- ameter L(mm)	φ450×112	Centrifugal fan-1 φ450×140	φ502×160
Evaporator	Type Rows/Fin-Space(mm) Face area (m ²)	Aluminum foil fin-copper tube 2/1.3 0.23	2/1.5 0.34	3/1.5 0.5
Stepping motor	Model Input power (W)	SM008 3W-2.5r/min	SM008 3W-2.5r/min	SM008 3W-2.5r/min
Control mode		Remote control	Remote control	Remote control
Fuse(A)		3.5	3.5	4.5
Capacitor (μF)		≤ 46	≤ 47	≤ 53
Sound level dB(A)	Panel	950×60×950	950×60×950	950×60×950
Dimensions	Body	840×190×840	840×240×840	840×320×840
(W H D)(mm³)	Panel	6.5	6.5	6.5
Net weight	Body	25	30	38
(kg)				



Outdoor units (R22)

Models		TTK518ZB	TTK524ZB	TTK542ZD
Input power(W) (Cooling/Heating)		1880	2610	4600
Current (A) (Cooling/Heating)		8.8	11.85	7.5
Refrigerant control		Capillary tube	Capillary tube	Capillary tube
Compressor	Type	Rotary	Reciprocating	Reciprocating
		SHW33TC4-U	AWG5523EXC	AGC5561EXG
	Nominal power (W)	1990	2660	5248
	Locked Rotor current(A)	49	82	62
	Protection device	Built-in device	Built-in device	Built-in device
	Start-up type	PSC	CSR	R
	Working temperature	120°C	143.3°C	143.3°C
C o n - denser		Aluminum foil fin-copper tube type		
	Rows/Fin-space (mm)	2/1.8	2/2.0	2/2.0
	Face area (m ²)	0.40	0.49	0.73
Motor	Type	FW60D	FW60D	FW68D
	Power (W)	60	60	68
	speed (r/min)	780/620	780/620	840/640
	Number	1	1	2
Fan	Type-Number	Axial-1	Axial-1	Axial-2
	Diameter(mm)	φ 450	φ 450	φ 450
Defrosting type		Automatic	Automatic	Automatic
Sound level dB(A)		≤58	≤59	≤60
Dimensions(W×H×D)(mm³)		950×700×412	950×840×412	950×1240×412
Net weight(kg)		65	75	112
Refrigerant/Charge(kg)		R22/2.2	R22/2.7	R22/4.0
Connection tube				
Size	Liquid line(mm)	φ 9.52	φ 9.52	φ 12
	Gas line(mm)	φ 16	φ 16	φ 19
Connection Type		Flare	Flare	Flare
Standard tube length(m)		5	5	5

(1): Rating conditions:

Cooling mode: Indoor 27°C DB / 19°C WB; Outdoor 35°C DB.

Heating mode: Indoor 20°C DB / 7°C DB; Outdoor 6°C WB.

(2): Sound pressure level 1m from the units.

(3): All above should be changed without notice, there are latest and accurate specifications on the nameplate of the units.



General Data

Systems

Models	Indoor unit Outdoor unit	MWC518BB TWK518ZB	MWC524BB TWK524ZB	MWC542BB TWK542ZD
Functions		cooling	heat pump	cooling
Power	(PH-Hz-V)	1/50/220	1/50/220	1/50/220
Capacity	W	5000	5400+700	7000
Total input current	A	9.3	9.3	12.35
Air flow	M ³ /h	680	680	1180
Dehumidifying	L/h	2.9	2.9	4.0

Indoor Units (R22)

Models		MWC518BB	MWC518BB	MWC524BB	MWC524BB	MWC542BB	MWC542BB
Fan motor	Speed (r/min)	620/570/520	620/570/520	600/550/500	600/550/500	610/560/510	610/560/510
	Output power (W)	35	35	35	35	50	50
Fan	Type -Number	Centrifugal fan-1					
	Diameter×L(mm)	φ 450×112	φ 450×112	φ 450×140	φ 450×140	φ 502×160	φ 502×160
Evaporator	Type	Aluminum foil fin-copper tube					
	Rows/Fin-Space(mm)	2/1.3	2/1.3	2/1.5	2/1.5	3/1.5	3/1.5
	Face area (m ²)	0.23	0.23	0.34	0.34	0.5	0.5
Stepping motor	Model	SM008	SM008	SM008	SM008	SM008	SM008
	Input power (W)	3W-2.5r/min	3W-2.5r/min	3W-2.5r/min	3W-2.5r/min	3W-2.5r/min	3W-2.5r/min
Control mode		Remote control					
Fuse(A)		Control Front panel 3.15A; Transformer Board 3.15A; Transformer 0.2A					
Capacitor (μF)		≤46	≤46	≤47	≤47	≤53	≤53
Sound level dB(A)	Panel	950×60×950	950×60×950	950×60×950	950×60×950	950×60×950	950×60×950
Dimensions	Body	840×190×840	840×190×840	840×240×840	840×240×840	840×320×840	840×320×840
(W H D)(mm³)	Panel	6.5	6.5	6.5	6.5	6.5	6.5
Net weight	Body	25	25	30	30	38	38
(kg)							



Outdoor units (R22)

Models		TWK518ZB	TWK518ZB	TWK524ZB	TWK524ZB	TWK542ZD	TWK542ZD
Input power(W)(Cooling/Heating)		1880	1880	2610	2480	4600	4250
Current (A) (Cooling/Heating)		8.8	8.8	11.85	11.3	7.5	7.0
Refrigerant control		Capillary tube	Capillary tube	Capillary tube	Capillary tube	Capillary tube	Capillary tube
Compressor	Type	Rotary	Rotary	Reciprocating	Reciprocating	Reciprocating	Reciprocating
		SHW33TC4-U	SHW33TC4-U	AWG5523EXC	AWG5523EXC	AGC5561EXG	AGC5561EXG
	Nominal power (W)	1990	1990	2660	2660	5248	5248
	Locked Rotor current(A)	49	49	82	82	62	62
	Protection device	Built-in device	Built-in device	Built-in device	Built-in device	Built-in device	Built-in device
	Start-up type	PSC	PSC	CSR	CSR	IR	IR
	Working temperature	120°C	120°C	143.3°C	143.3°C	143.3°C	143.3°C
C o n - denser		Aluminum foil fin-copper tube type					
	Rows/Fin-space (mm)	2/1.8	2/1.8	2/2.0	2/2.0	2/2.0	2/2.0
	Face area (m ²)	0.40	0.40	0.49	0.49	0.73	0.73
Motor	Type	FW60B	FW60B	FW60T	FW60T	FW68T	FW68T
	Power (W)	60	60	60	60	68	68
	speed (r/min)	780/620/350	780/620/350	780/620/350	780/620/350	840/740/640	840/740/640
	Number	1	1	1	1	2	2
Fan	Type-Number	Axial-1	Axial-1	Axial-1	Axial-1	Axial-2	Axial-2
	Diameter(mm)	φ 450	φ 450	φ 450	φ 450	φ 450	φ 450
Defrosting type		Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Sound level dB(A)		≤ 58	≤ 58	≤ 60	≤ 60	≤ 60	≤ 60
Dimensions(W×H×D)(mm³)		950×700×412	950×700×412	950×840×412	950×840×412	840×412×1120	840×412×1120
Net weight(kg)		65	65	75	75	112	112
Refrigerant/Charge(kg)		R22/2.05	R22/2.05	R22/2.7	R22/2.7	R22/4.2	R22/4.2
Connection tube							
Size	Liquid line(mm)	φ9.52	φ9.52	φ9.52	φ9.52	φ 12	φ 12
	Gas line(mm)	φ16	φ16	φ16	φ16	φ19	φ19
Connection Type		Flare	Flare	Flare	Flare	Flare	Flare
Standard tube length(m)		5	5	5	5	5	5

(1): Rating conditions:

Cooling mode: Indoor 27°C DB / 19°C WB; Outdoor 35°C DB.

Heating mode: Indoor 20°C DB / 7°C DB; Outdoor 6°C WB.

(2): Sound pressure level 1m from the units.

(3): All above should be changed without notice, there are latest and accurate specifications on the nameplate of the units.



General Data

Systems

Models	Indoor unit Outdoor unit	MCC518CB TTK518BB	MCC524CB TTK524BB	MCC542CB TTK542BD
Functions		cooling	cooling	cooling
Power	(PH-Hz-V)	1/50/220~230	1/50/220~230	3/50/380~400
Capacity	W	5000	7000	12000
Total input current	A	10.2	15.5	9.6
Air flow	M ³ /h	680	1180	1860
Dehumidifying	L/h	2.9	4	7.0

Indoor Units (R407c)

Models		MCC518CB	MCC524BB	MWC542BB
Fan motor	Speed (r/min) Output power (W)	620/570/520 35	600/550/500 35	610/560/510 50
Fan	Type -Number Di- ameter L(mm)	φ450×112	Centrifugal fan-1 φ450×140	φ502×160
Evaporator	Type Rows/Fin-Space(mm) Face area (m ²)	Aluminum foil fin-copper tube 2/1.3 0.23	2/1.5 0.34	3/1.5 0.5
Stepping motor	Model Input power (W)	SM008 3W-2.5r/min	SM008 3W-2.5r/min	SM008 3W-2.5r/min
Control mode		Remote control	Remote control	Remote control
Fuse(A)		Control Front panel 3.15A; Transformer 0.2A		
Capacitor (μF)		3.5	3.5	4.5
Sound level dB(A)		≤ 46	≤ 47	≤ 53
Dimensions	Panel Body	950×60×950 840×190×840	950×60×950 840×240×840	950×60×950 840×320×840
(W H D)(mm³)	Panel	6.5	6.5	6.5
Net weight	Body	25	30	38
(kg)				



Outdoor units (R407c)

Models		TTK518BB	TTK524BB	TTK542BD
Input power(W) (Cooling/Heating)		1880	2610	4600
Current (A) (Cooling/Heating)		9.7	15	9.1
Refrigerant control		Capillary tube	Capillary tube	Capillary tube
Compressor	Type	Rotary	Rotary	Scroll
		C-2RN170H5U	C-RN220H5B	C-8RN373H8A
	Nominal power (W)	1990	2660	5248
	Locked Rotor current(A)	49	82	62
	Protection device	Built-in device	Built-in device	Built-in device
	Start-up type	PSC	CSR	R
	Working temperature	120°C	143.3°C	143.3°C
C o n - denser		Aluminum foil fin-copper tube type		
	Rows/Fin-space (mm)	2/1.8	2/2.0	2/2.0
	Face area (m ²)	0.40	0.49	0.73
Motor	Type	FW60D	FW60D	FW68D
	Power (W)	60	60	68
	speed (r/min)	780/620	780/620	840/640
	Number	1	1	2
Fan	Type-Number	Axial-1	Axial-1	Axial-2
	Diameter(mm)	φ 450	φ 450	φ 450
Defrosting type		Automatic	Automatic	Automatic
Sound level dB(A)		≤58	≤59	≤60
Dimensions(W×H×D)(mm³)		950×700×412	950×840×412	1120×840×412
Net weight(kg)		65	65	65
Refrigerant/Charge(kg)		R407c/2.2	R407c/2.8	R407c/3.8
Connection tube				
Size	Liquid line(mm)	φ 9.52	φ 9.52	φ 12
	Gas line(mm)	φ 16	φ 16	φ 19
Connection Type		Flare	Flare	Flare
Standard tube length(m)		5	5	5

(1): Rating conditions:

Cooling mode: Indoor 27°C DB / 19°C WB; Outdoor 35°C DB.

Heating mode: Indoor 20°C DB / 7°C DB; Outdoor 6°C WB.

(2): Sound pressure level 1m from the units.

(3): All above should be changed without notice, there are latest and accurate specifications on the nameplate of the units.



General Data

Systems

Models	Indoor unit Outdoor unit	MWC518CB TWK518BB	MWC524CB TWK524BB	MWC542CB TWK542BD			
Functions		cooling	heat pump	cooling	heat pump	cooling	heat pump
Power	(PH-Hz-V)	1/50/220~230	1/50/220~230	1/50/220~230	1/50/220~230	3/50/380~400	3/50/380~400
Capacity	W	5000	5400	7000	7500	12000	12500
Total input current	A	10.1	10.1	15.3	15.5	9.6	9.7
Air flow	M ³ /h	680	680	1180	1180	1860	1860
Dehumidifying	L/h	2.9	2.9	4.0	4.0	7.0	7.0

Indoor Units (R407c)

Models		MWC518CB	MWC518CB	MWC524CB	MWC524CB	MWC542CB	MWC542CB
Fan motor	Speed (r/min)	620/570/520	620/570/520	600/550/500	600/550/500	610/560/510	610/560/510
	Output power (W)	35	35	35	35	50	50
Fan	Type -Number	Centrifugal fan-1					
	Diameter×L(mm)	φ 450×112	φ 450×112	φ 450×140	φ 450×140	φ 502×160	φ 502×160
Evaporator	Type	Aluminum foil fin-copper tube					
	Rows/Fin-Space(mm)	2/1.3	2/1.3	2/1.5	2/1.5	3/1.5	3/1.5
	Face area (m ²)	0.23	0.23	0.34	0.34	0.5	0.5
Stepping motor	Model	SM008	SM008	SM008	SM008	SM008	SM008
	Input power (W)	3W-2.5r/min	3W-2.5r/min	3W-2.5r/min	3W-2.5r/min	3W-2.5r/min	3W-2.5r/min
Control mode		Remote control					
Fuse(A)		Control Front panel 3.15A; Transformer Board 3.15A; Transformer 0.2A					
Fuse(A)		3.5	3.5	3.5	3.5	4.5	4.5
Capacitor (μF)		≤46	≤46	≤47	≤47	≤53	≤53
Sound level dB(A)	Panel	950×60×950	950×60×950	950×60×950	950×60×950	950×60×950	950×60×950
Dimensions	Body	840×190×840	840×190×840	840×240×840	840×240×840	840×320×840	840×320×840
(W H D)(mm³)	Panel	6.5	6.5	6.5	6.5	6.5	6.5
Net weight	Body	25	25	30	30	38	38
(kg)							



Outdoor units (R407c)

Models		TWK518BB	TWK518BB	TWK524BB	TWK524BB	TWK542BD	TWK542BD
Input power(W)(Cooling/Heating)		1880	1880	2610	2480	4600	4250
Current (A) (Cooling/Heating)		9.6	9.6	14.8	15	9.1	9.2
Refrigerant control		Capillary tube	Capillary tube	Capillary tube	Capillary tube	Capillary tube	Capillary tube
Compressor	Type	Rotary	Rotary	Rotary	Rotary	Scroll	Scroll
		C-2RN170H5U	C-2RN170H5U	C-RN220H5B	C-RN220H5B	C-8RN373H8A	C-8RN373H8A
	Nominal power (W)	1990	1990	2660	2660	5248	5248
	Locked Rotor current(A)	49	49	82	82	62	62
	Protection device	Built-in device	Built-in device	Built-in device	Built-in device	Built-in device	Built-in device
	Start-up type	PSC	PSC	CSR	CSR	R	R
	Working temperature	120°C	120°C	143.3°C	143.3°C	143.3°C	143.3°C
C o n - denser		Aluminum foil fin-copper tube type					
	Rows/Fin-space (mm)	2/1.8	2/1.8	2/2.0	2/2.0	2/2.0	2/2.0
	Face area (m ²)	0.40	0.40	0.49	0.49	0.73	0.73
Motor	Type	FW60B	FW60B	FW60T	FW60T	FW68T	FW68T
	Power (W)	60	60	60	60	68	68
	speed (r/min)	780/620/350	780/620/350	780/620/350	780/620/350	840/640/350	840/640/350
	Number	1	1	1	1	2	2
Fan	Type-Number	Axial-1	Axial-1	Axial-1	Axial-1	Axial-2	Axial-2
	Diameter(mm)	φ 450	φ 450	φ 450	φ 450	φ 450	φ 450
Defrosting type		Automatic	Automatic	Automatic	Automatic	Automatic	Automatic
Sound level dB(A)		≤ 58	≤ 58	≤ 60	≤ 60	≤ 63	≤ 63
Dimensions(W×H×D)(mm³)		950×700×412	950×700×412	950×840×412	950×840×412	840×412×1120	840×412×1120
Net weight(kg)		65	65	75	75	112	112
Refrigerant/Charge(kg)		R407c/2.2	R407c/2.2	R407c/2.8	R407c/2.8	R407c/3.8	R407c/3.8
Connection tube							
Size	Liquid line(mm)	φ9.52	φ9.52	φ9.52	φ9.52	φ 12	φ 12
	Gas line(mm)	φ16	φ16	φ16	φ16	φ19	φ19
Connection Type		Flare	Flare	Flare	Flare	Flare	Flare
Standard tube length(m)		5	5	5	5	5	5

(1): Rating conditions:

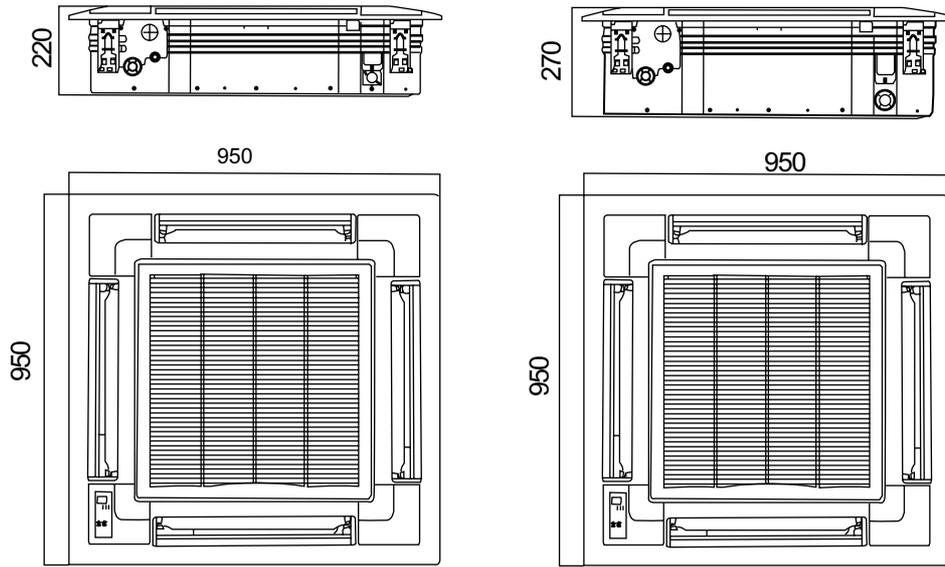
Cooling mode: Indoor 27°C DB / 19°C WB; Outdoor 35°C DB.

Heating mode: Indoor 20°C DB / 7°C DB; Outdoor 6°C WB.

(2): Sound pressure level 1m from the units.

(3): All above should be changed without notice, there are latest and accurate specifications on the nameplate of the units.

Indoor Unit Dimensions and Installation Clearance



Unit: mm

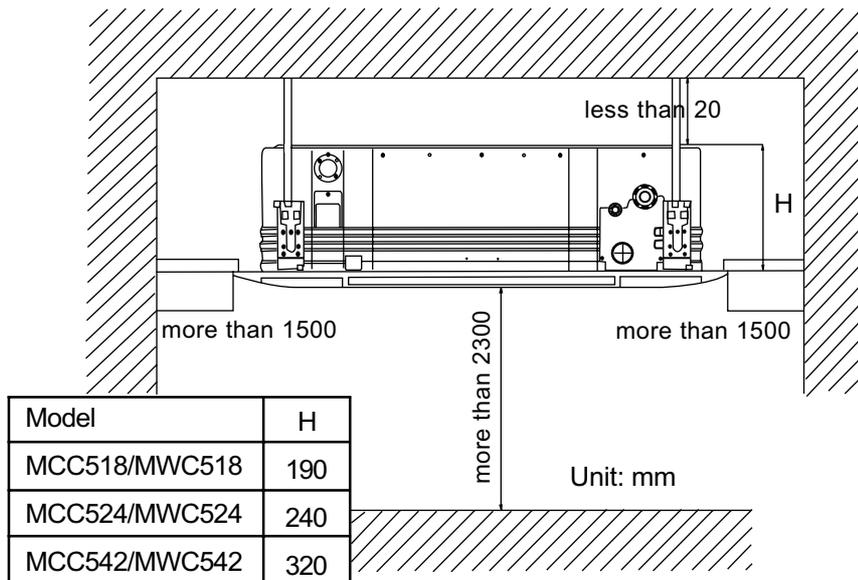
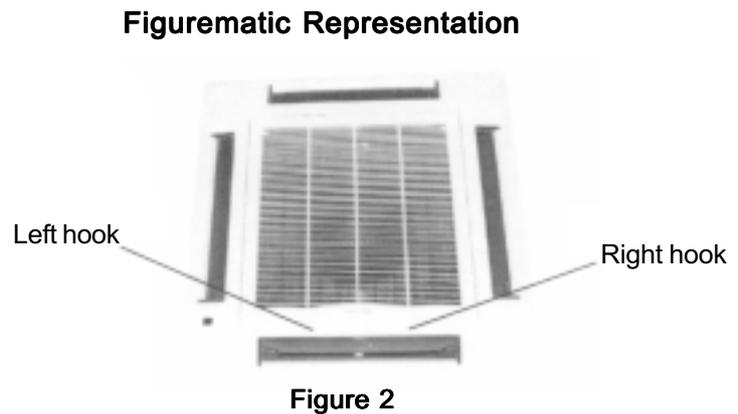


Figure 1

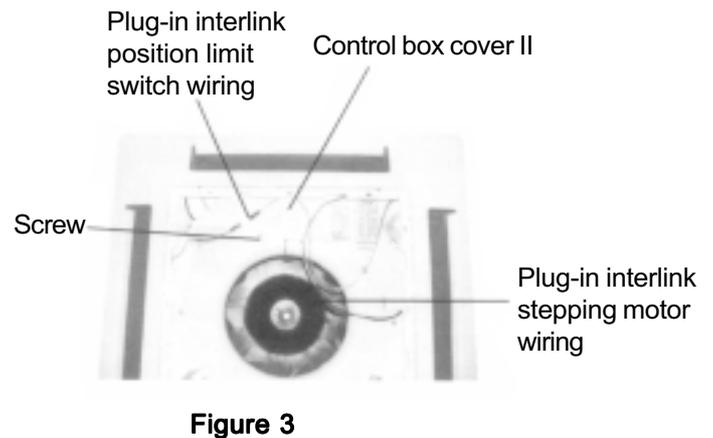
Indoor Unit Disassembly Procedure

Operation Procedure

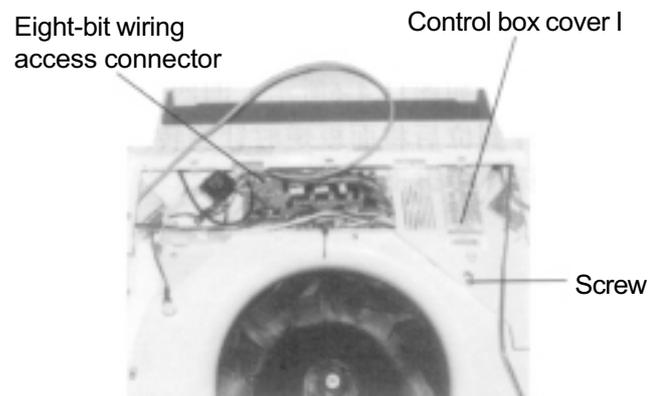
- ① Disassemble front panel grill
 - Push the left and right hooks to the middle and lift the panel grill. Pull it out at 45° angle as shown in figure 2.



- ② Disassemble front panel
 - Loosen the plug-in interlink tie-in between the stepping motor wiring and position limit switch wiring. (Figure 3)



- Unscrew the control box cover II with a screwdriver. Remove the control box cover, and pull out the eight-bit wiring access connector. (Figure 4)



Operation Procedure

- Pull out four corner covers, and remove them as shown in figure 5 and 6

Figurematic Representation

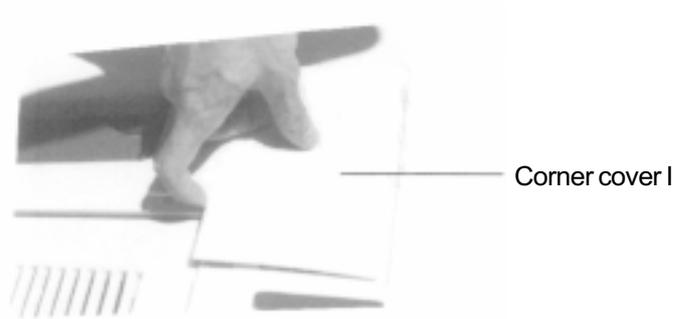


Figure 5

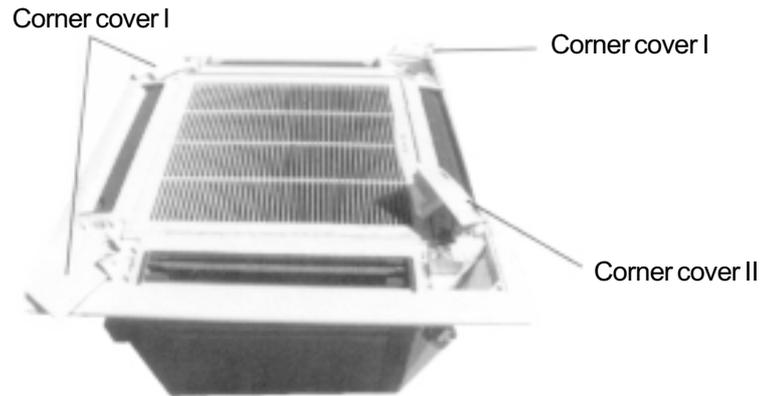


Figure 6

- Unscrew the four screws (as shown in figure 7), and rotate the panel counter-clockwise. Lift it and remove the control box.

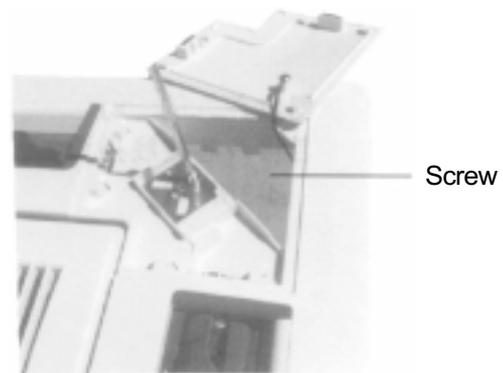


Figure 7

Operation Procedure

- ③ Disassemble the drain pan.
- Remove the screw on the control box cover I as shown in figure 6.
 - After remove the control box cover I, loosen the grounding wire, and pull out the motor wiring as shown in figure 8.
 - Pull out water level switch wire, pump wire and tube temperature sensor.
 - Unscrew the four screws as shown in figure 9, pull upwards the drain pan and remove it.
- ④ Disassemble the control box
- Unscrew the two screws as shown in figure 10, and remove the control box.

Figurematic Representation

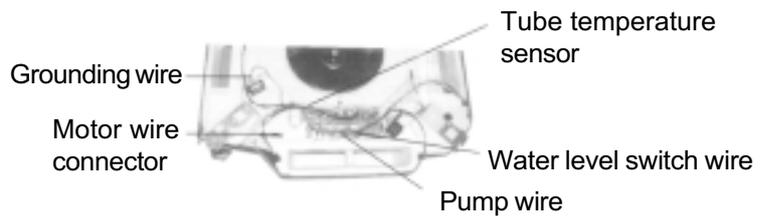


Figure 8

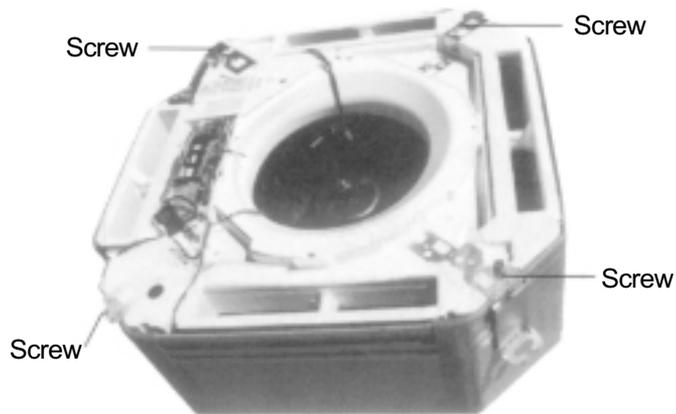


Figure 9



Figure 10

Operation Procedure

- ⑤ Disassemble the control board
 - Push the two clamps as shown in figure 11, pull upwards the control board and remove it.

Figurematic Representation

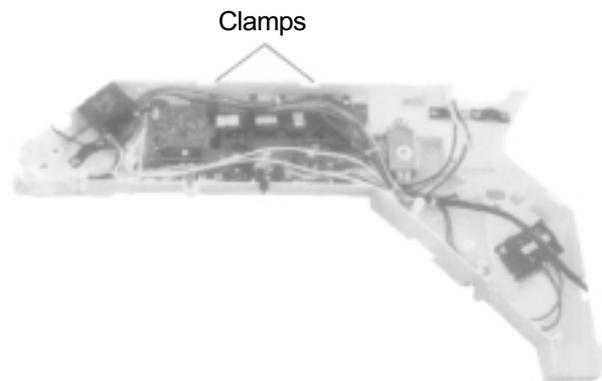


Figure 11

- ⑥ Disassemble the fan
 - Unscrew the nut with washer using a screwdriver. Lift the fan upwards and remove it as shown in figure 12

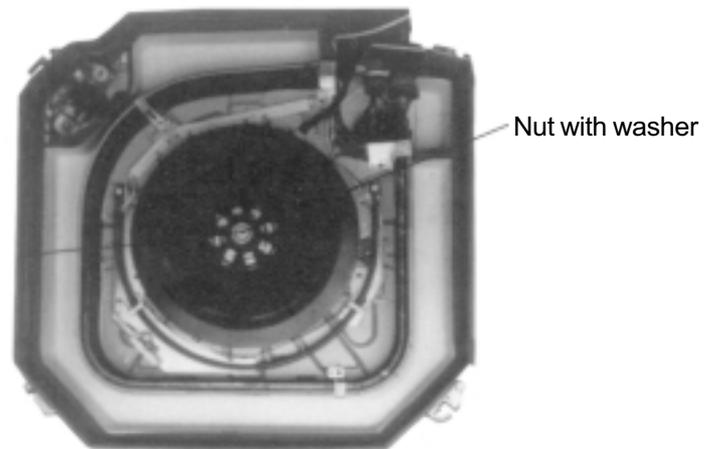


Figure 12

Operation Procedure

- ⑦ Disassemble the motor
- Unscrew the two screws as shown in figure 13 with a screwdriver.

Figurematic Representation

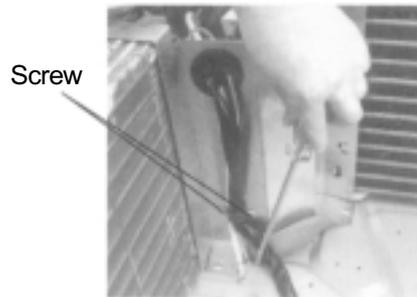


Figure 13

- Unscrew the eight screws as shown in figure 14, and remove the motor.

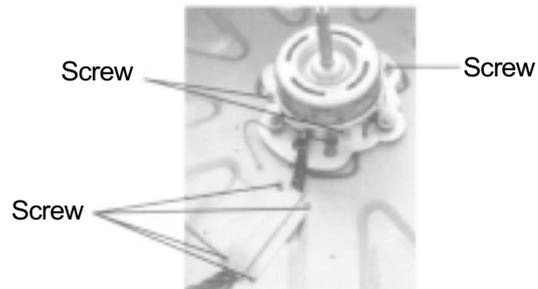


Figure 14

- ⑧ Disassemble the evaporator parts

- Unscrew the two screws as shown in figure 15, and remove the connecting board of evaporator.

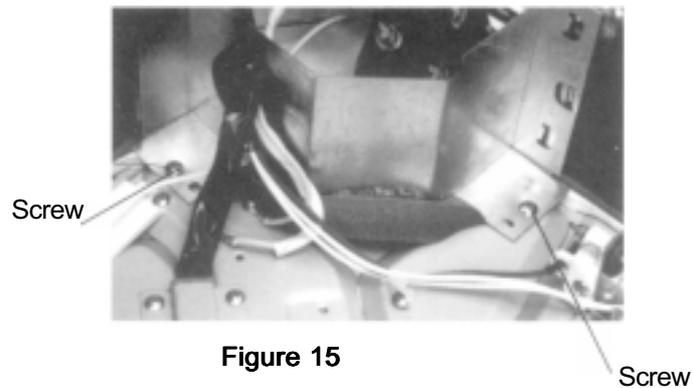


Figure 15

- Unscrew the two screws as shown in figure 16, and remove the outlet tube board.



Figure 16

Operation Procedure

- Unscrew the screw as shown in figure 17, and remove the evaporator supports. Lift the evaporator parts and disassemble it.

Figurematic Representation

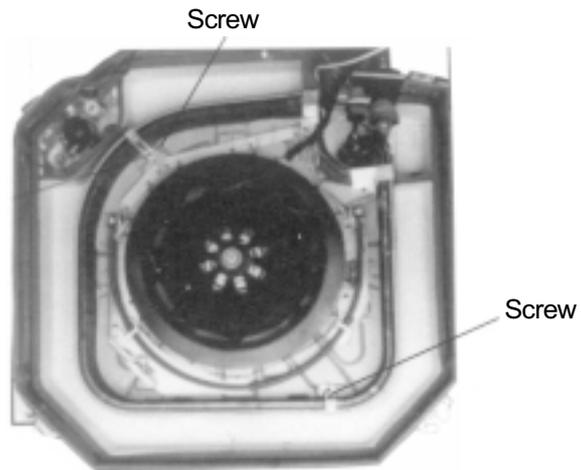


Figure 17

- ⑨ Disassemble the pump drain hose.
- Cut the wire clip as shown in figure 18, and separate the drain pump hose and pump outlet.

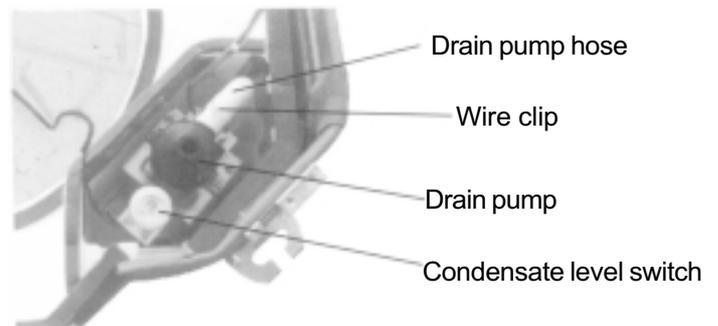


Figure 18

- Unscrew the two screws as shown in figure 19, and pull outwards the drain pump hose and remove it.

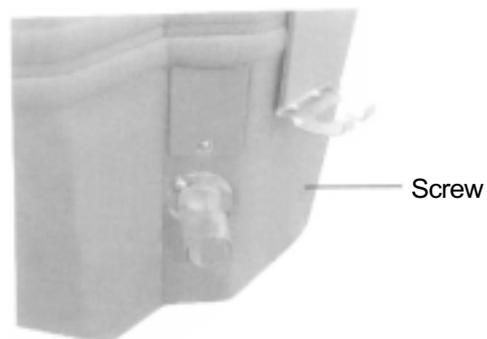


Figure 19

Operation Procedure

- ⑩ Disassemble the pump parts.
- Use sleeve spanner to unscrew the three nuts with washer as shown in figure 20, and pull upwards the pump parts and remove them.

Figurematic Representation

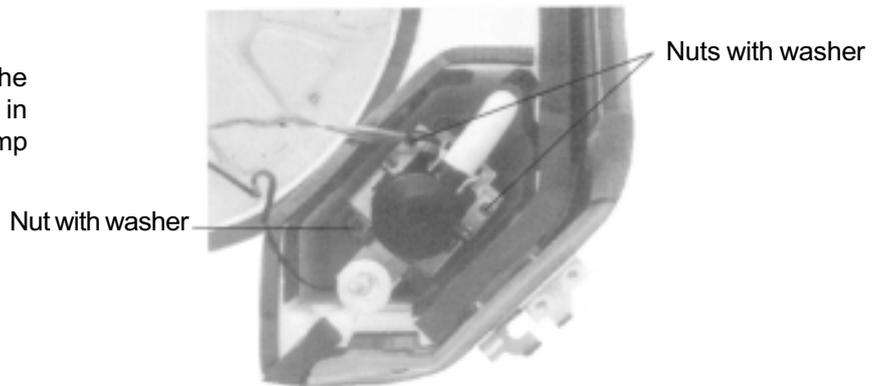


Figure 20

- ⑪ Disassemble the pump .
- Unscrew the four screws as shown in figure 21 with a screwdriver.

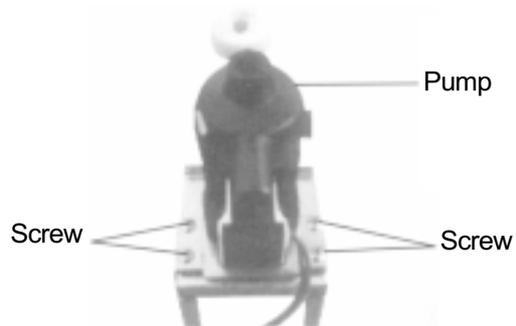


Figure 21

- ⑫ Disassemble the condensate level switch.
- Unscrew the two screws as shown in figure 22 with a screwdriver.

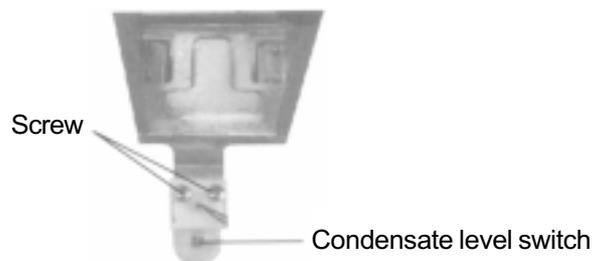


Figure 22

Operation Procedure

- ⑬ Disassemble the filter.
- Push the two hooks inwards. Push the filter backwards and remove it as shown in figure 23

Figurematic Representation

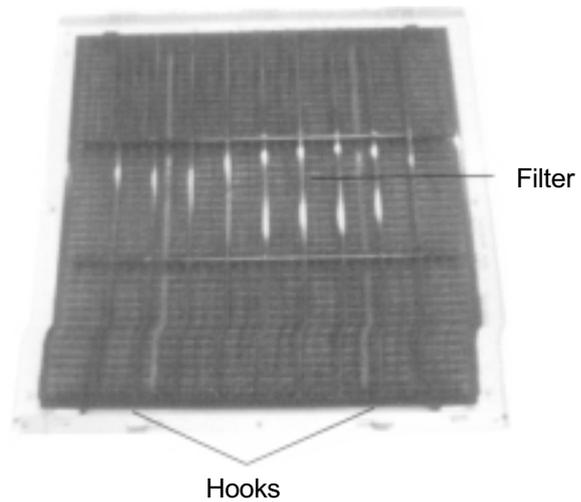


Figure 23

- ⑭ Disassemble the corner inner cover.
- Unscrew the screws as shown in figure 24.

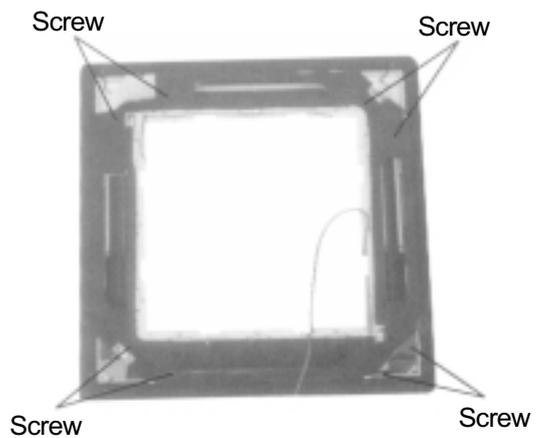


Figure 24

Operation Procedure

- ⑮ Disassemble the stepping motor.
- Using a screwdriver to unscrew the two screws as shown in figure 25.

Figurematic Representation

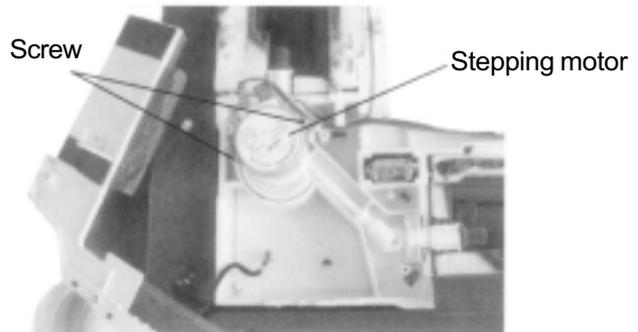


Figure 25

- ⑯ Disassemble the louver.
- Lift the connecting rod and pull it from the cardan joint as shown in figure 26.

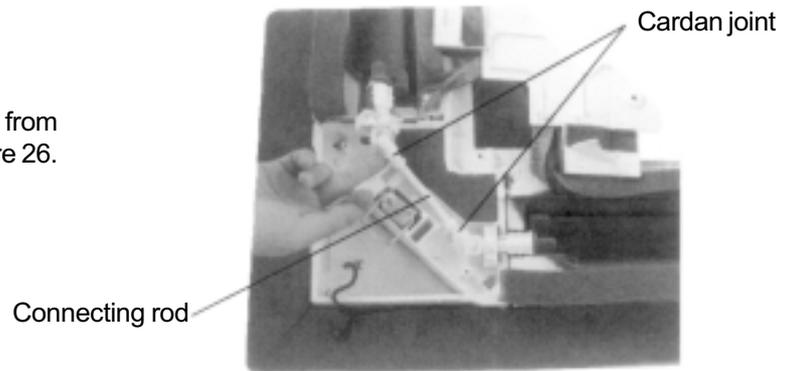


Figure 26

- Unscrew the screw as shown in figure 27 with a screwdriver.



Figure 27

Operation Procedure

- ⑰ Disassemble the front panel control board.
- Using a screwdriver to unscrew the screw as shown in figure 28, pull forward and lift upward the receiver window and remove it.

Figurematic Representation

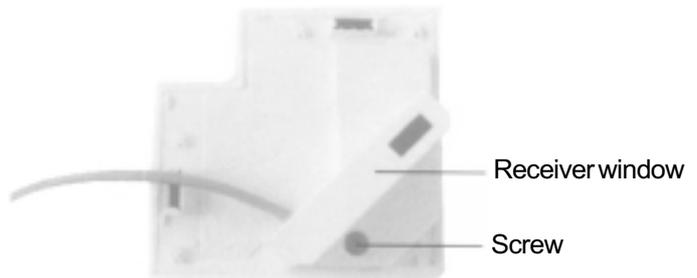


Figure 28

- Pull outwards the two hooks as shown in figure 29 and remove the front panel control board.

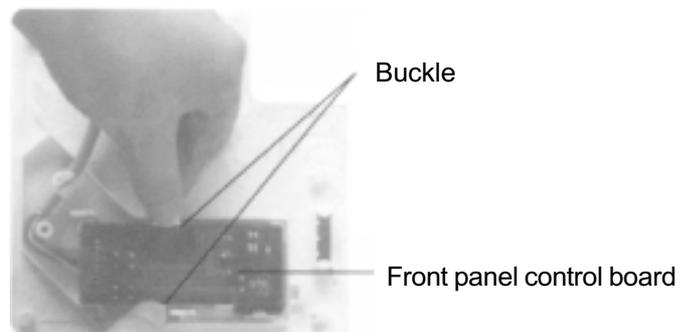


Figure 29

- ⑱ Disassemble the electric heater parts (only applicable to MWC518 and MWC524).
- Remove the drain pan.
- Unscrew the five screws as shown in figure 30, and remove the electric heater parts.

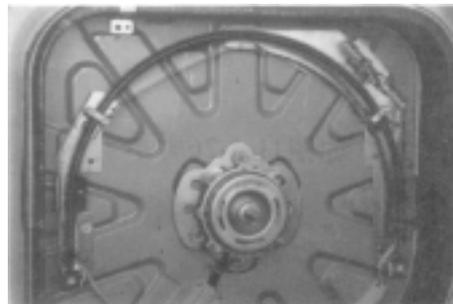
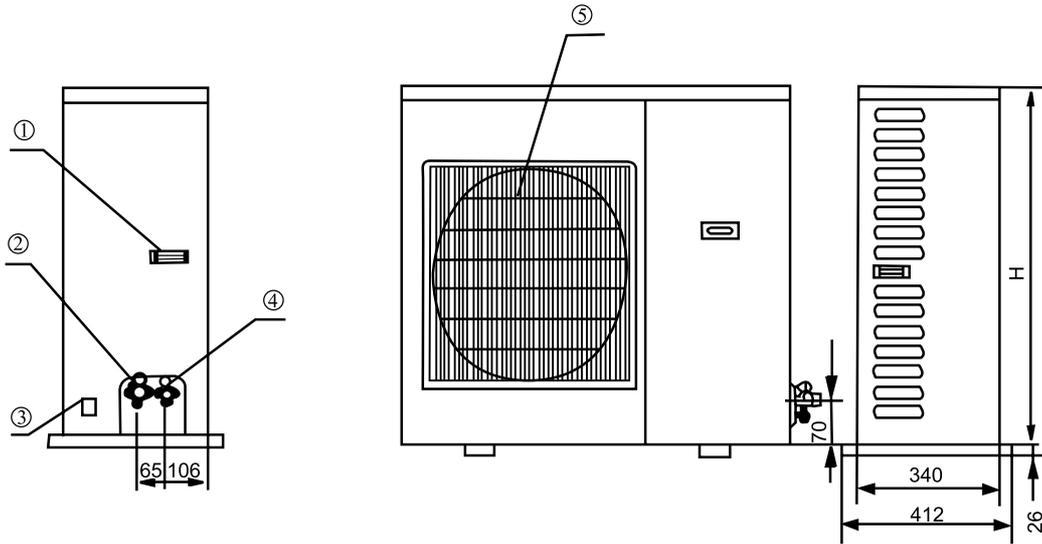
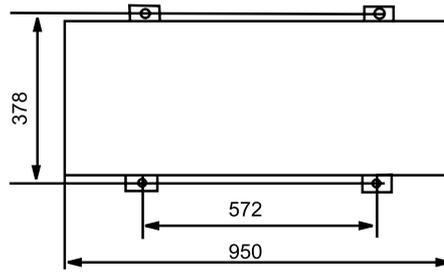


Figure 30

Outdoor Unit Dimensions and Installation Clearance



Model	H(mm)
TTK518 TWK518	700
TTK524 TWK524	840
TTK542 TWK542	1120



unit: mm

- (1) handle (2) gas line valve parts (3) wire access rectangle hole
 (4) liquid line valve parts (5) front grill

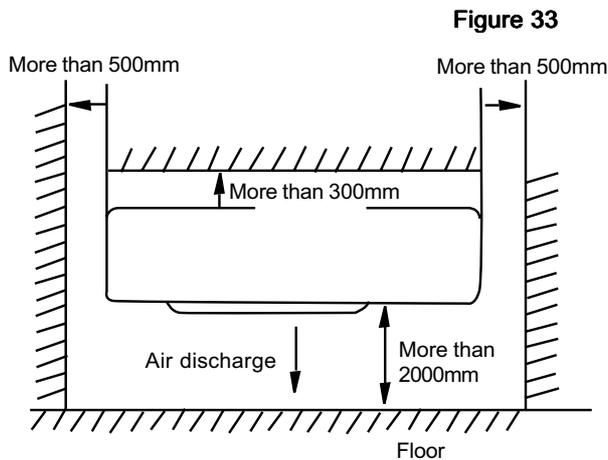
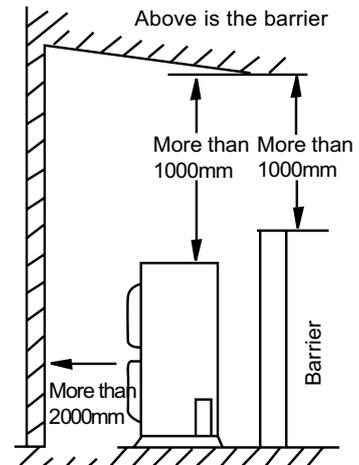


Figure 34



Disassembling Procedure of Outdoor Unit

Operation Procedure

- ① Disassemble the front side panel.
 - Unscrew the four fastening-screws on the front side panel as shown in figure 35.
 - Grasp the handle, and push it downward to remove the front side panel.

Figurematic Representation

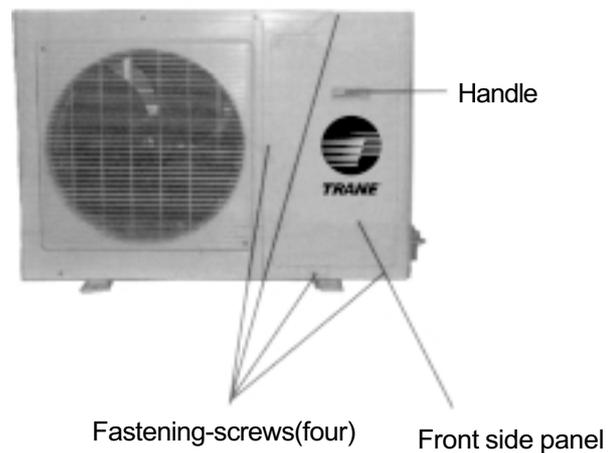


Figure 35

Operation Procedure

- ② Disassemble the rear side panel.
 - Turn off the power wire and control wire of the connector, and pull out the power wire and control wire.
 - Unscrew the fastening-screws of control box and rear side panel.(total 11)
 - Grasp the handle, and pull upwards the rear side panel and remove it as shown in figure 36 and 37.

Figurematic Representation

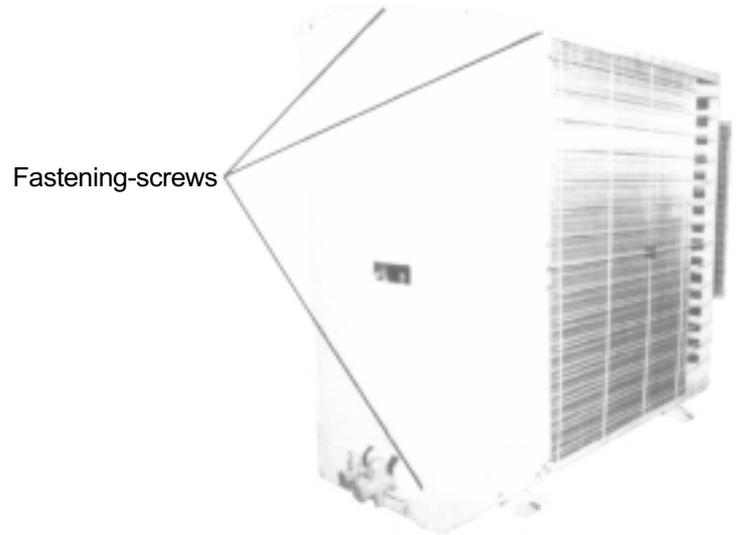


Figure 36

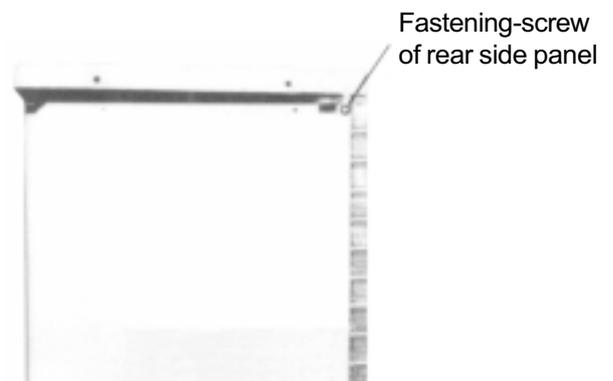


Figure 37

Operation Procedure

- ③ Disassemble the control box.
- Unscrew the two screws fastening the control box, and pull the control box upward and remove it as shown in figure 38.

Figurematic Representation

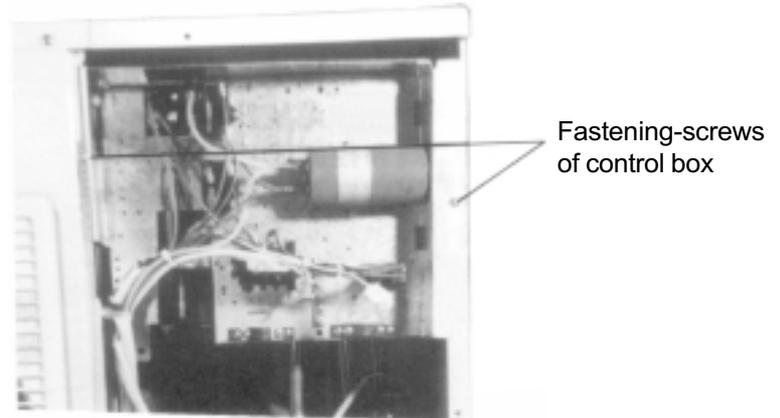


Figure 38

- ④ Disassemble the compressor
- Pull out the wire on the electric wire pole.
 - Unsolder the discharge tube and suction tube to separate them as shown in figure 39.
 - Unscrew the four fastening-screws to remove the compressor.

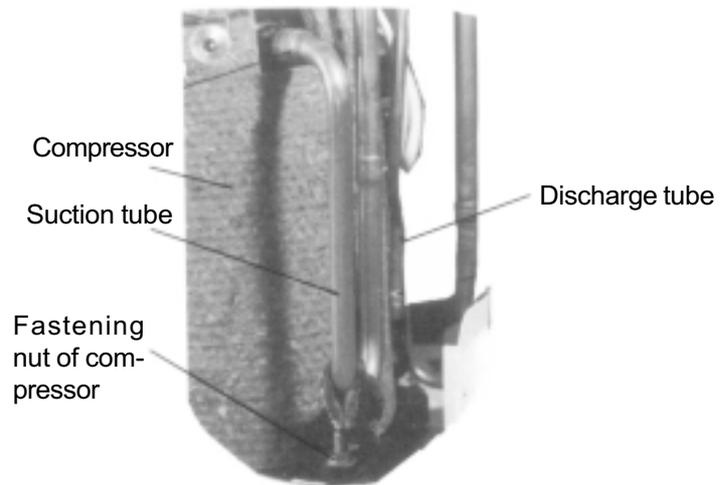


Figure 39

- ⑤ Disassemble the reversing valve.
- Unscrew the screws fastening the reversing valve coil on the reversing valve.
 - Remove the reversing valve coil.
 - Unsoldering the soldering locations connecting the reversing valve with other tubes.
 - Remove the reversing valve as shown in figure 40.

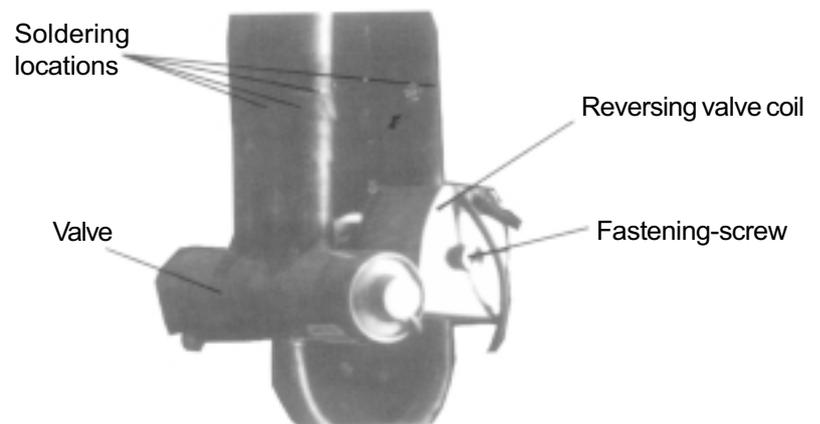


Figure 40

Note: Keep the fire flame away from other parts while unsoldering. Wrap the valve with wet cloth completely to protect it from damage.

Operation Procedure

- ⑥ Disassemble the capillary tube
 - Remove the front side panel
 - Remove the small cover and rear side panel.
 - Unsoldering the two soldering locations connecting capillary with other tubes.
 - Remove the capillary as shown in figure 41.

Figurematic Representation

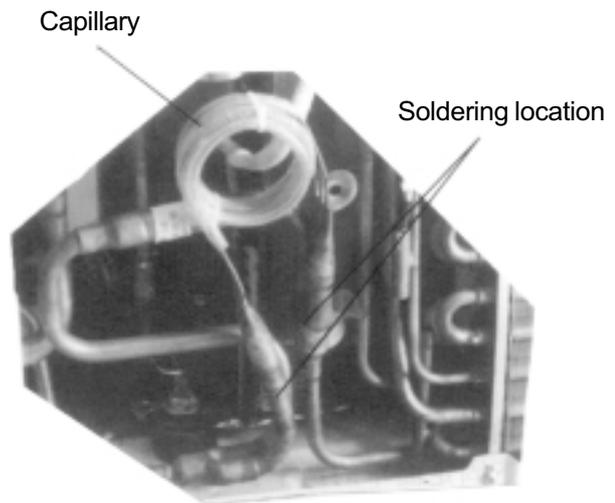


Figure 41

- ⑦ Disassemble the gas line valve
 - Unscrew the two bolts fixing the gas line valve.
 - Unsoldering the soldering location connecting the gas line valve with suction tube, remove the gas line valve as shown in figure 42.

Note: Wrap the valve with wet cloth completely to protect it from damage.

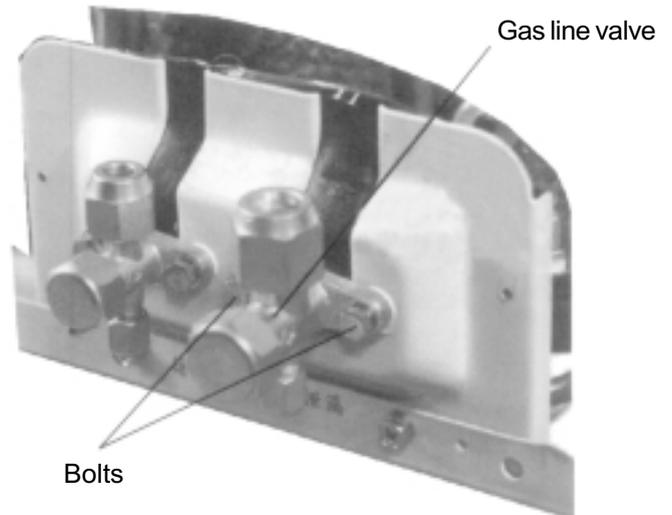


Figure 42

Operation Procedure

- ⑧ Disassemble the liquid line valve.
- Remove the front side panel.
 - Remove the small cover and rear side panel.
Unscrew the two bolts fixing the liquid line valve (2).
Unsoldering the two soldering locations connecting liquid line valve with other tubes as shown in figure 43.
Remove the liquid line valve.

Figurematic Representation

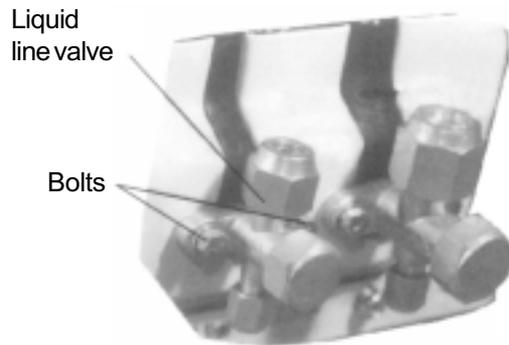


Figure 43

- ⑨ Disassemble the axial fan
- Unscrew the two self-tapping screws fixing the front grill as shown in figure 44.
 - Pull downwards the front grill (there is a hook behind the front grill)

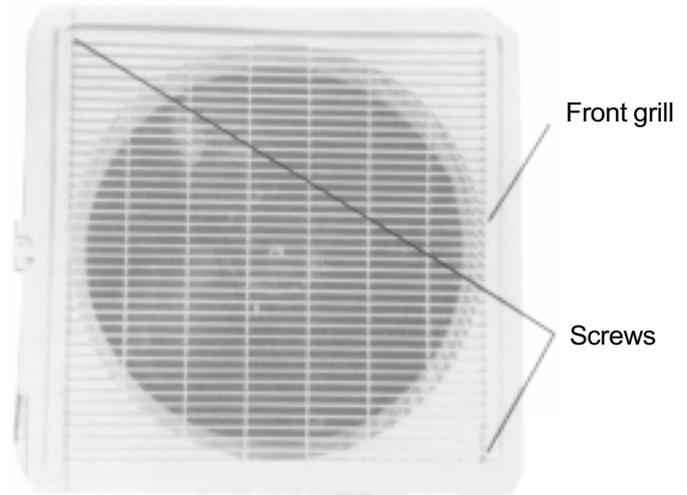


Figure 44

- Unscrew the ball nut fixing the axial fan, and remove the out gear-locking washer.
- Pull out the axial fan.

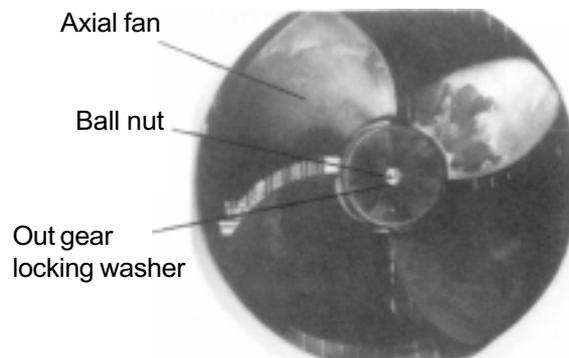


Figure 45

Operation Procedure

- ⑩ Disassemble the top cover.
- Unscrew the fastening-screws of top cover (4), and remove the top cover as shown in figure 46.

Figurematic Representation

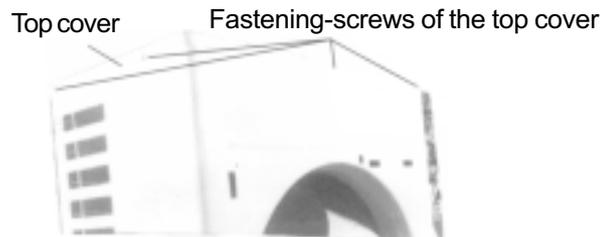


Figure 46

- ⑪ Disassemble the panel.
- Unscrew the fastening-screws of the panel (7), and remove the panel as shown in figure 47.

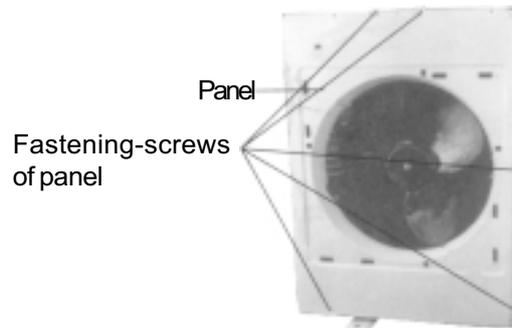


Figure 47

- ⑫ Disassemble the fan motor.
- Loosen the motor wiring connector, and put the motor wire through wiring hole as shown in figure 48.

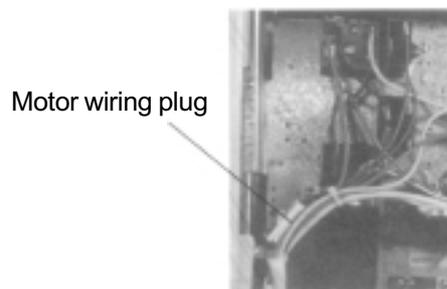


Figure 48

- Unscrew the screws fixing the motor bracket, and remove the motor bracket.
- Unscrew the fastening-screws fixing the motor on the motor bracket. Pull backwards and remove the motor as shown in figure 49.
- Unscrew the ball nut fixing the axial fan, and remove the out gear-locking washer.
- Pull out the axial fan.

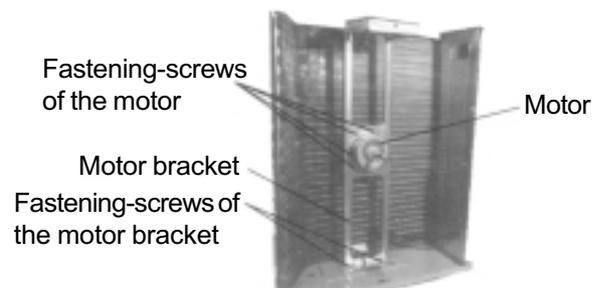


Figure 49

Refrigeration System

Cooling system

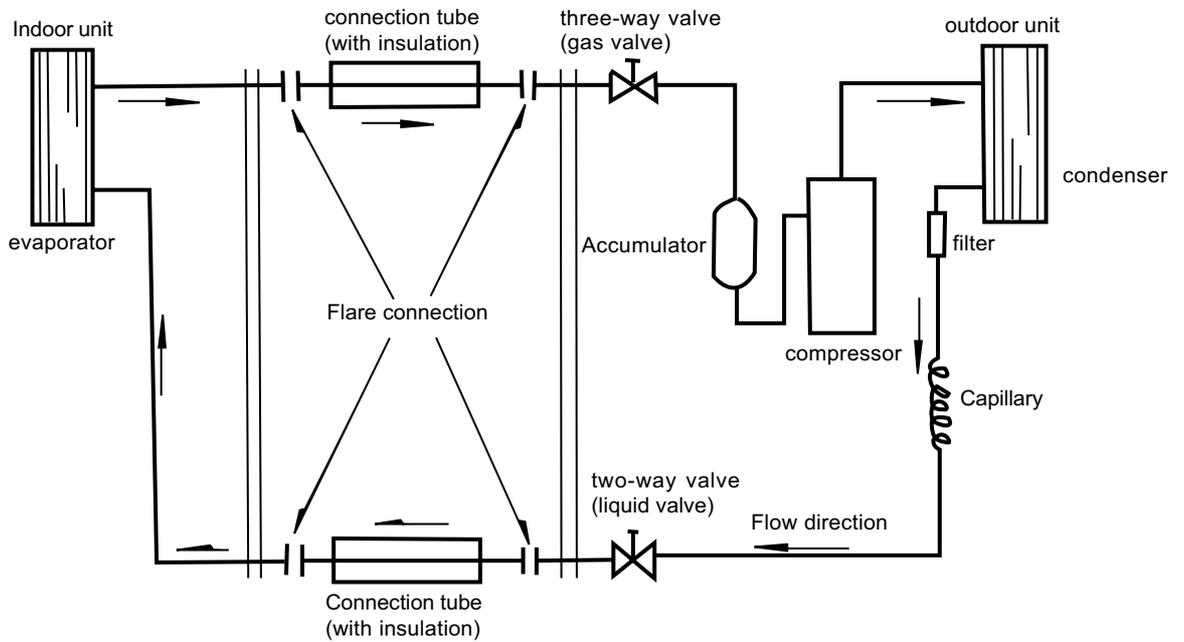


Figure 51

Heat Pump system

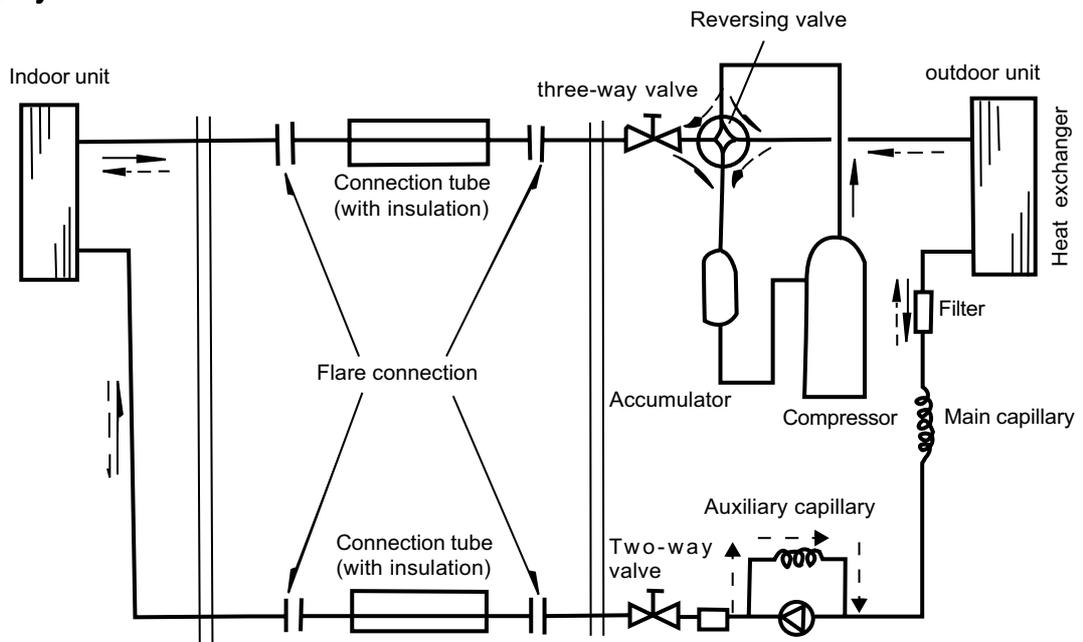


Figure 52

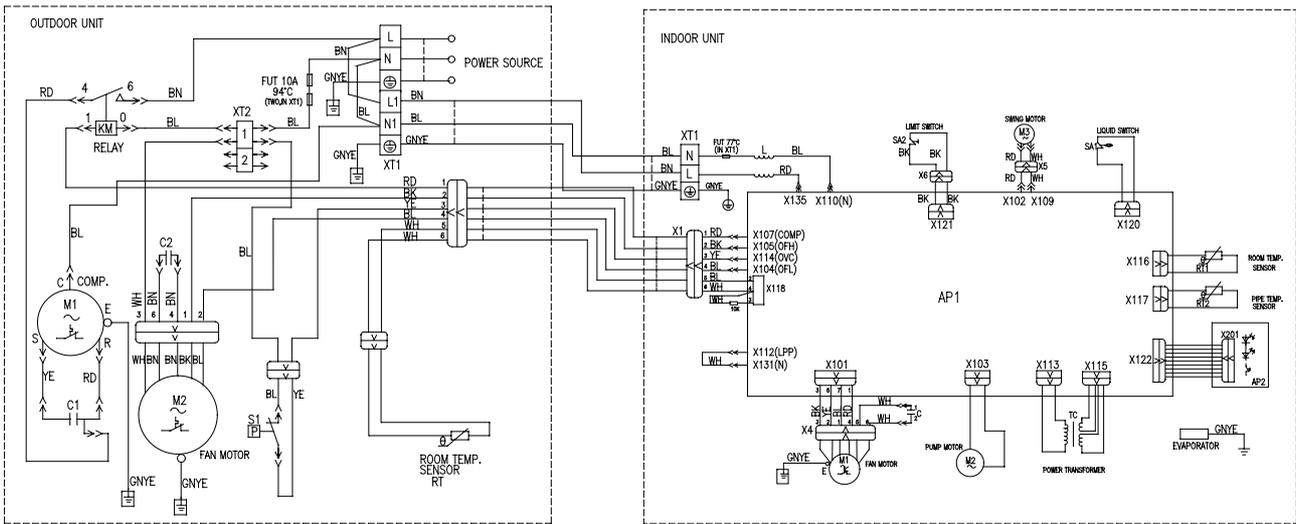
→ Flow direction in cooling
 ← - - Flow direction in heating



Wiring diagram

R22 , cooling only.
18MBh.

MCC518BB0RAA_TTK518ZB0EAA

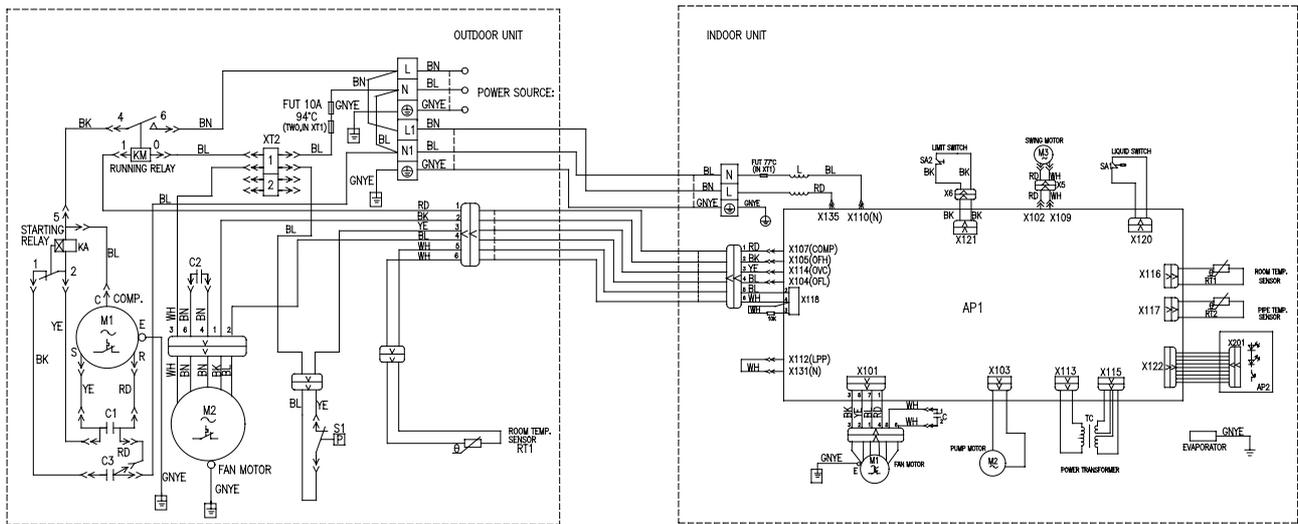


MCC518BB0RAA_TTK518ZB0EAA



R22 , cooling only.
24MBh.

MCC524BB0RAA_TTK524ZB0EAA

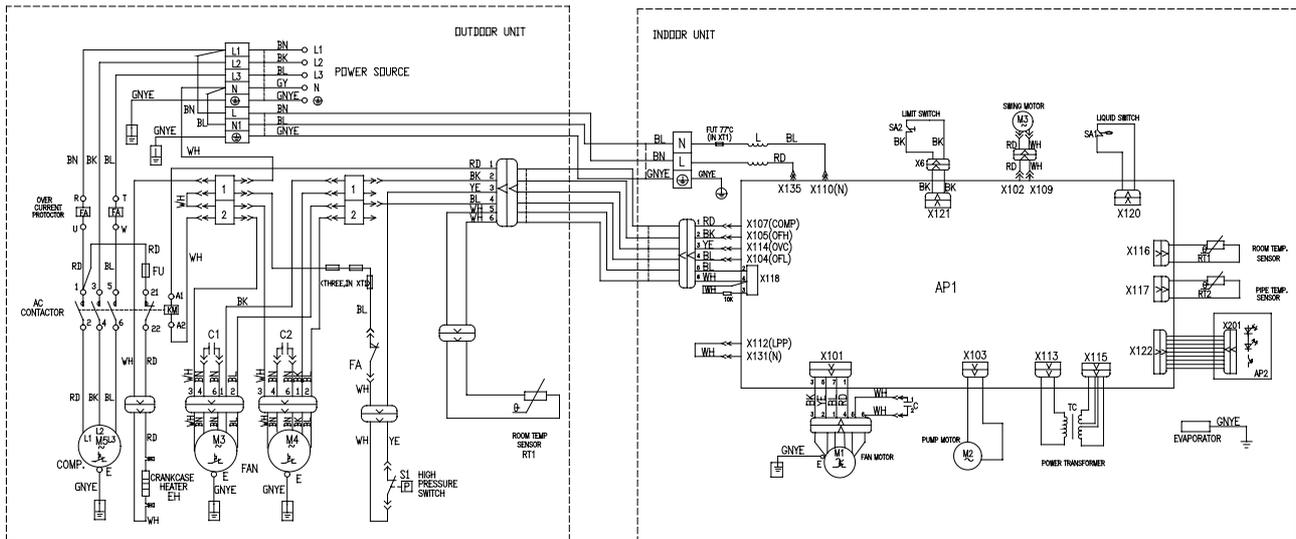


MCC524BB0RAA_TTK524ZB0EAA



R22 , cooling only.
42MBh.

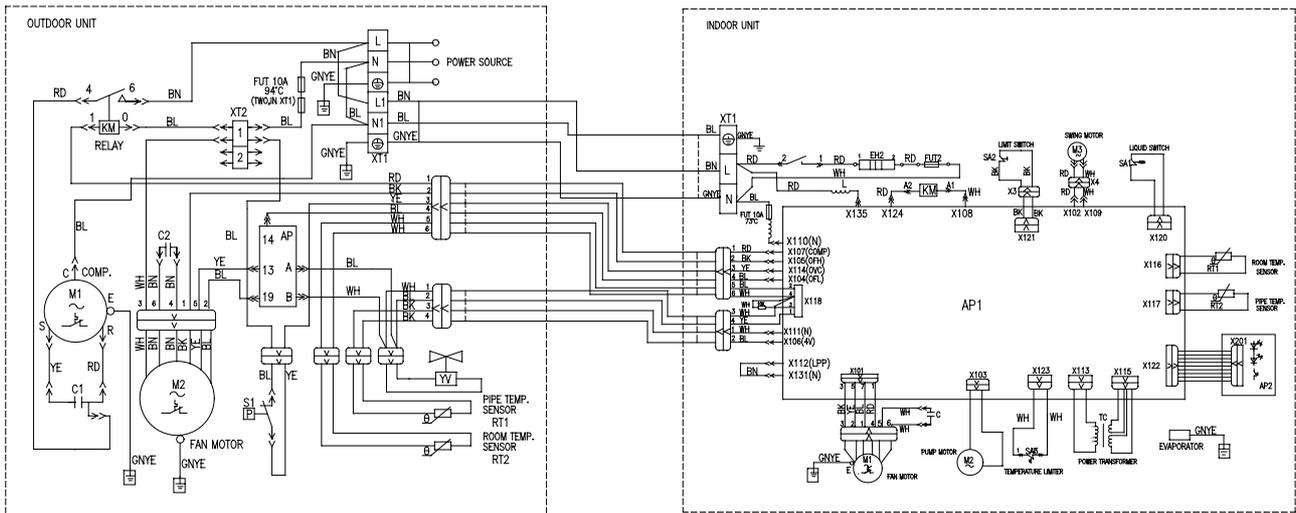
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MCC542BB0RAA_TTK542ZD0EAA

R22 , heat pump.
18MBh.

MWC518BBHRAA_TW518ZB0EAA

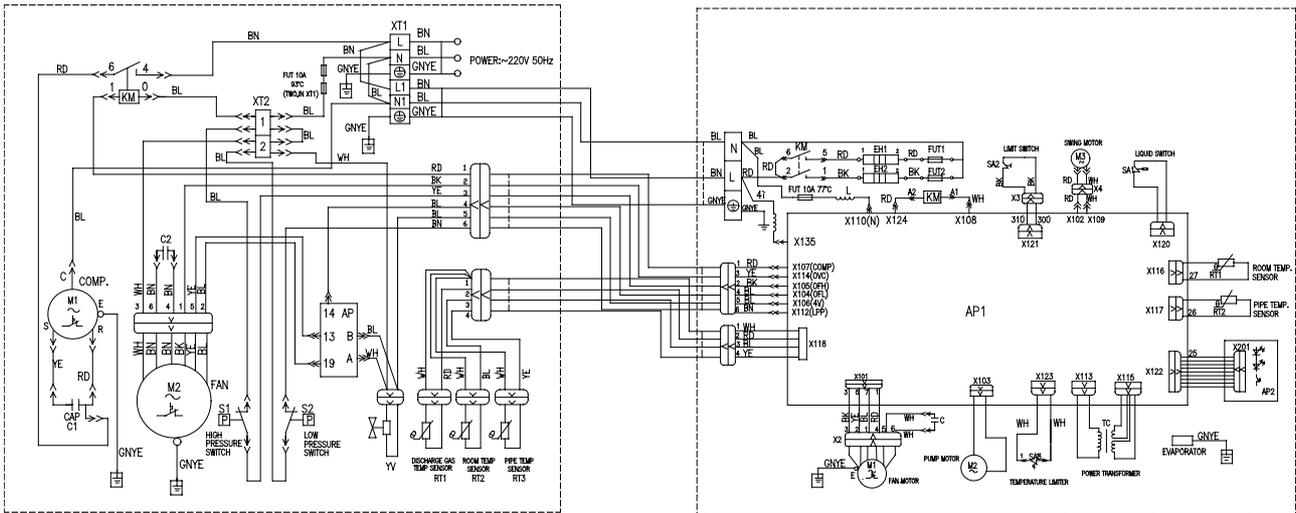


MWC518BBHRAA_TW518ZB0EAA



R22 , heat pump.
24MBh.

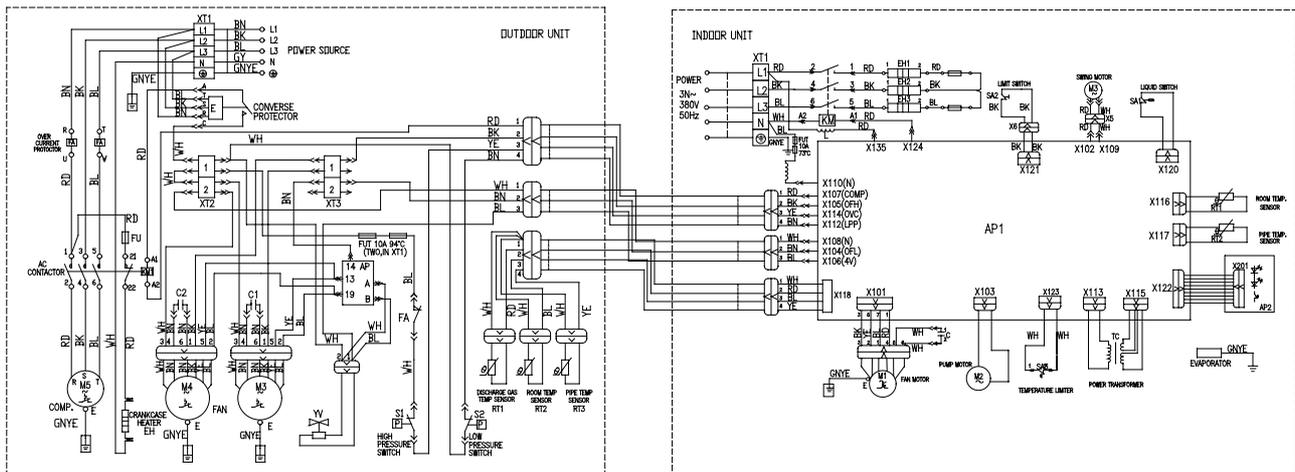
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MWC524BBHRAA_TWK524ZB0EAA

R22 , heat pump.
42MBh.

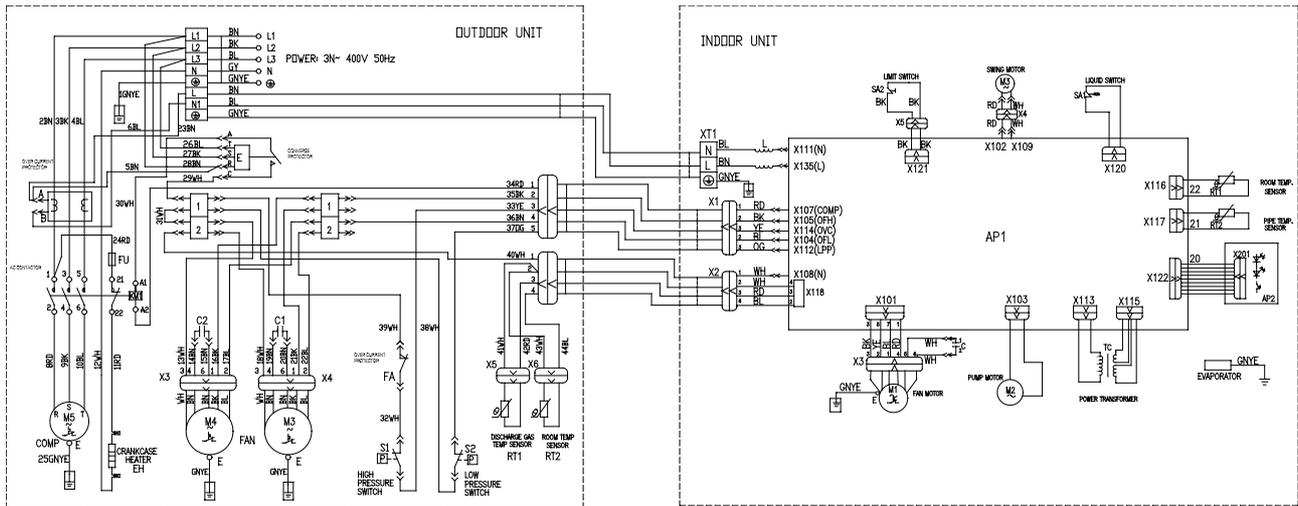
MWC542BBHRAA_TWK542ZD0EAA



MWC542BBHRAA_TWK542ZD0EAA

R407c , cooling only.
42MBh.

MCC542CB0RAA_TTK542BD0EAA

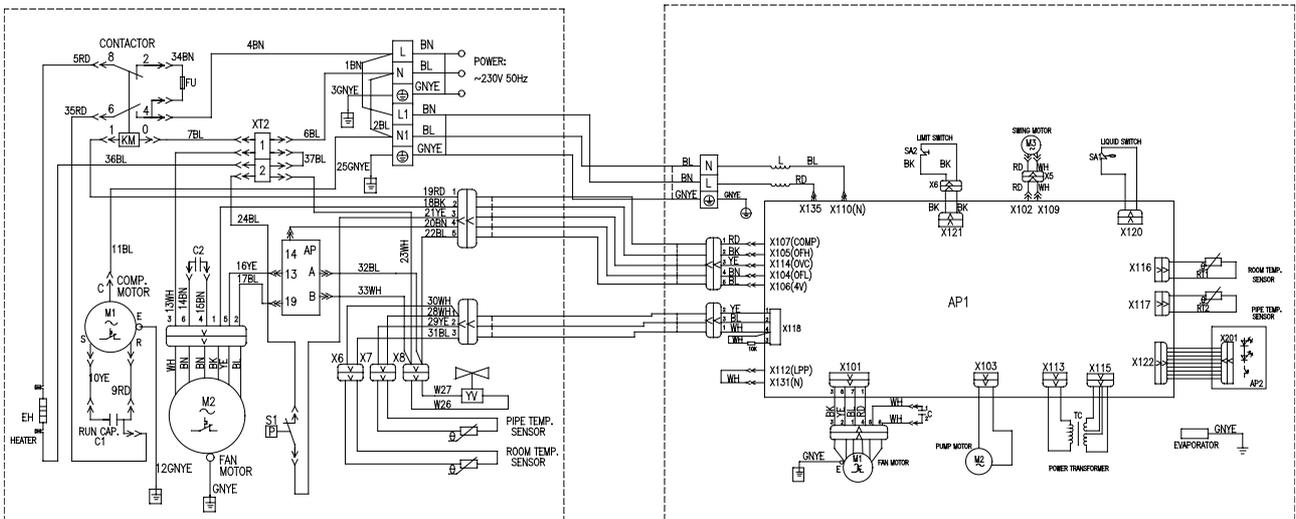


MCC542CB0RAA_TTK542BD0EAA



R407c , heat pump.
18 , 24MBh.

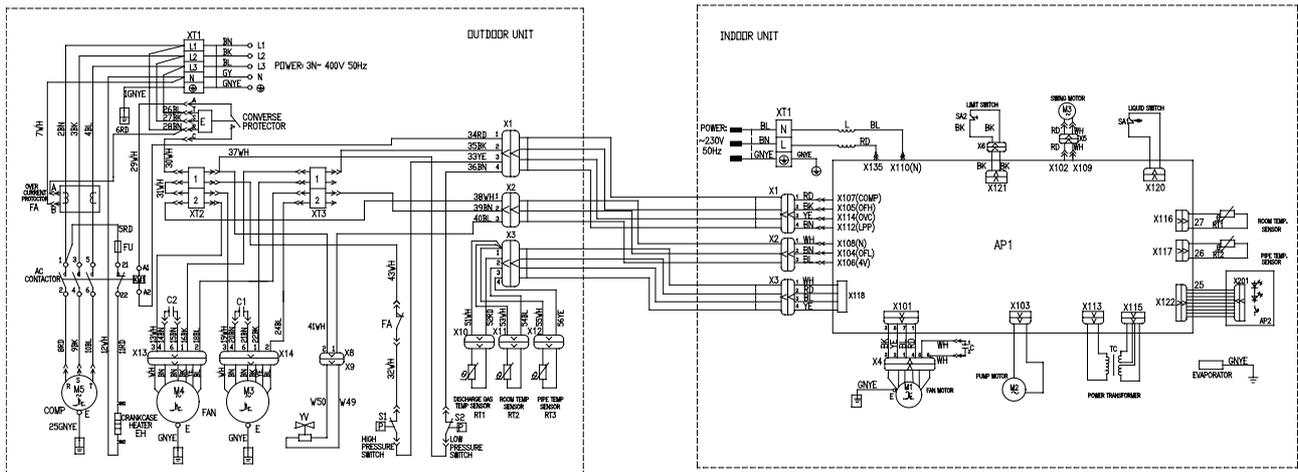
MWC518_24CB0RAA&TWK518_24BB0EAA





R407c , heat pump.
42MBh.

MWC542CB0RAA_TW542BD0EAA



MWC542CB0RAA_TW542BD0EAA

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