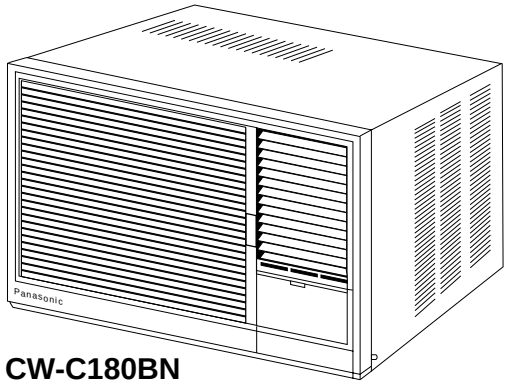
ORDER NO. MAC9604015C3

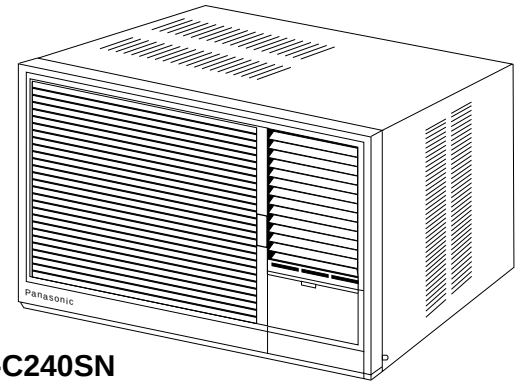
Service Manual

Room Air Conditioners

MODELS : CW-C180BN, CW-C240SN, CW-A180BN, CW-A240SN.



CW-C180BN
CW-A180BN



CW-C240SN
CW-A240SN

CONTENTS

Panasonic

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or **death**.

All illustration shown inside caters for models **CW-C180BN, CW-A180BN** unless stated otherwise

PRODUCT SPECIFICATIONS

MODELS			CW-C180BN	CW-C240SN	CW-A180BN		CW-A240SN	
					COOLING	HEATING	COOLING	HEATING
CAPACITY		(Btu/h)	17,900 – 17,700	22,700 – 22,510	15,690 – 15, 510	15,340 – 14,830	21,140 – 20,630	20,800 – 19,780
		(W)	5,250 – 5,200	6,650 – 6,600	4,600 – 4,550	4,500 – 4,350	6,200 – 6,050	6,100 – 5,800
MOISTURE REMOVAL		(ℓ/h)	2.9	4.0	2.5	—	3.4	—
		(Pints/h)	6.1	8.5	5.3		7.2	
AIR CIRCULATION		(m^3/min)	14.0	17.0	14.0		16.0	
		(Cft/min)	490	600	490		560	
COMPRESSOR OUTPUT		(W)	1,700	2,200	1,700		2,200	
ELECTRICAL DATA		Phase	Single					
		Cycle (Hz)	50					
		Voltage (V)	240 – 220					
		Running Current (A)	11.6 – 11.2	15.2 – 15.4	11.7 – 11.0	9.9 – 8.9	14.8 – 14.6	13.6 – 12.8
		Starting Current (A)	50	60	50		60	
		Input (W)	2,360 – 2,230	3,100 – 3,050	2,450 – 2,300	1,950 – 1,700	3,150 – 3,050	2,800 – 2,650
CABINET DIMENSIONS		Height (mm)	16 – 7/8" (428)	16 – 7/8" (428)	16 – 7/8" (428)		16 – 7/8" (428)	
		Width (mm)	26" (660)	26" (660)	26" (660)		26" (660)	
		Depth (mm)	25 – 7/32" (640)	28 – 3/4" (730)	25 – 7/32" (640)		28 – 3/4" (730)	
NET WEIGHT		(kg)	59	72	59		74	
		(lbs)	130	160	130		164	
REFRIGERANT (R-22)		(g)	980	1,350	1,090		1,030	
		(oz)	34.6	47.7	38.5		36.4	
NOISE LEVEL	High	Indoor dB (A)	52 – 51	58 – 57	52 – 51	52 – 51	58 – 58	—
		Outdoor dB (A)	60 - 59	67 – 66	60 – 59	61 – 60	68 – 69	—
	Low	Indoor dB (A)	49 – 48	54 – 53	49 – 48	48 – 47	54 – 54	—
		Outdoor dB (A)	56 – 55	66 – 63	57 – 56	59 – 58	65 – 65	—

* Specifications are subject to change without notice for further improvement.

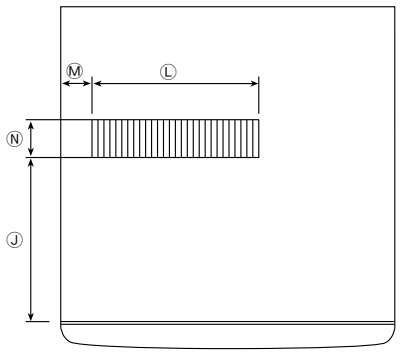
DIMENSIONS

CW-C180BN
CW-A180BN

ITEM	CW-C180BN, CW-A180BN
Ⓐ Width	26" (660)
Ⓑ Height	16 – 7/8" (428)
Ⓒ Depth	25 – 7/32" (640)
Ⓓ	23 – 7/32" (590)
Ⓔ	1 – 31/32" (50)
Ⓕ	10 – 15/16" (220)
Ⓖ	3 – 11/32" (92)
Ⓗ	3 – 1/32" (77)
Ⓘ	15 – 32" (12)
Ⓙ	10 – 15/16" (278)
Ⓚ	1 – 1/16" (27)
Ⓛ	12 – 17/32" (318)
Ⓜ	3 – 5/32" (80)
Ⓝ	3 – 35/64" (90)

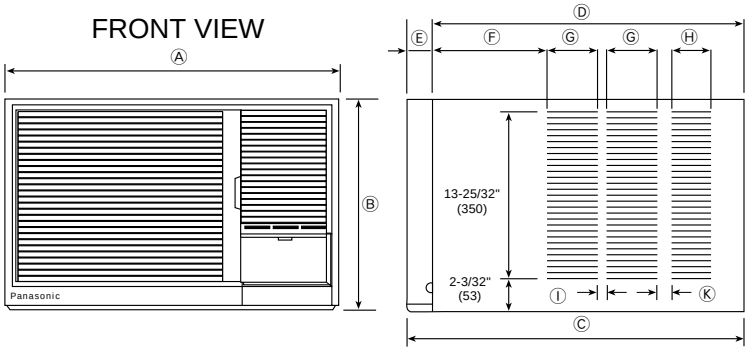
Unit : (mm)

TOP VIEW



SIDE VIEW

FRONT VIEW

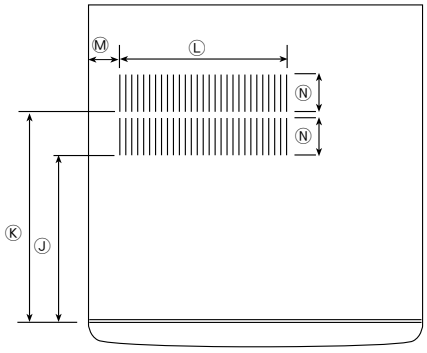


CW-C240SN
CW-A240SN

ITEM	CW-C240SN, CW-A240SN
Ⓐ Width	26" (660)
Ⓑ Height	16 – 7/8" (428)
Ⓒ Depth	28 – 25/32" (730)
Ⓓ	26 – 25/32" (680)
Ⓔ	1 – 31/32" (50)
Ⓕ	11 – 13/16" (300)
Ⓖ	2 – 3/64" (75)
Ⓘ	3/64" (15)
Ⓙ	10 – 13/16" (288)
Ⓚ	15 – 11/32" (389.6)
Ⓛ	12 – 17/32" (318)
Ⓜ	3 – 5/32" (80)
Ⓝ	3 – 35/64" (90)

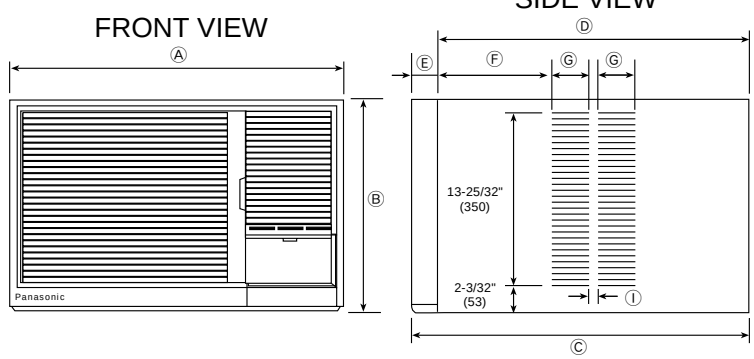
Unit : (mm)

TOP VIEW



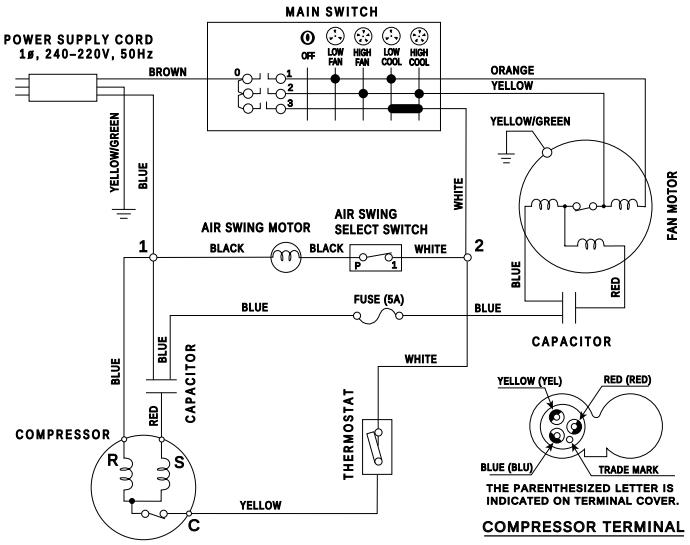
SIDE VIEW

FRONT VIEW



WIRING DIAGRAM

CW-C180BN



Resistance of Fan Motor windings and rated Capacitor

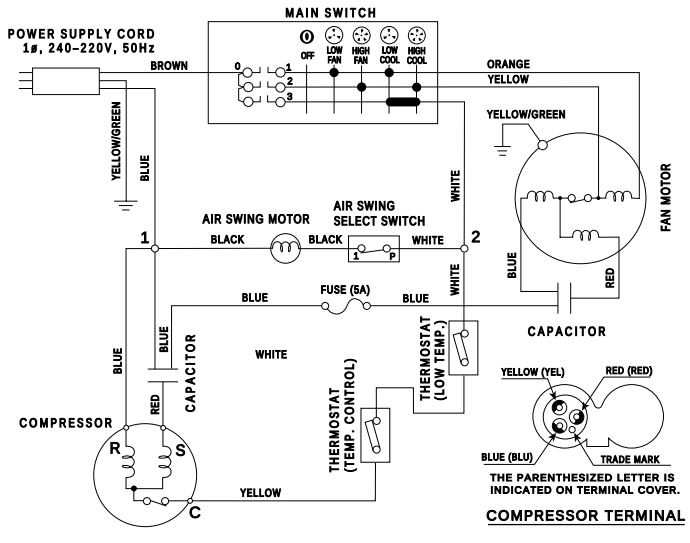
	CW-C180BN
Connection	CWA95263
BLUE–YELLOW	47.9Ω
YELLOW–ORANGE	25.2Ω
RED–YELLOW	103.3Ω
CAPACITOR	CWA31357 3.5µF, 450VAC

Resistance of Compressor windings and rated Capacitor

	CW-C180BN
Connection	2JS350D6BA02
C-R	0.95Ω
C-S	4.18Ω
CAPACITOR	CWA31504 35µF, 370VAC

* Resistance at 20°C of Ambient Temp.

CW-C240SN



Resistance of Fan Motor windings and rated Capacitor

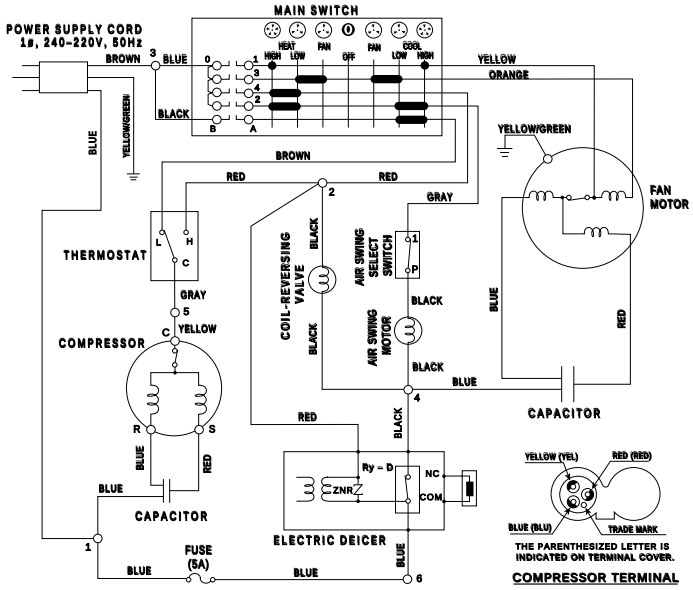
	CW-C240SN
Connection	CWA92125
BLUE–YELLOW	18.8Ω
YELLOW–ORANGE	6.25Ω
RED–YELLOW	51.5Ω
CAPACITOR	CWA31244 3µF, 400VAC

Resistance of Compressor windings and rated Capacitor

	CW-C240SN
Connection	2JS442D4AA01
C-R	0.95Ω
C-S	4.39Ω
CAPACITOR	CWA31338 45µF, 370VAC

* Resistance at 20°C of Ambient Temp.

CW-A180BN



Resistance of Fan Motor windings and rated Capacitor

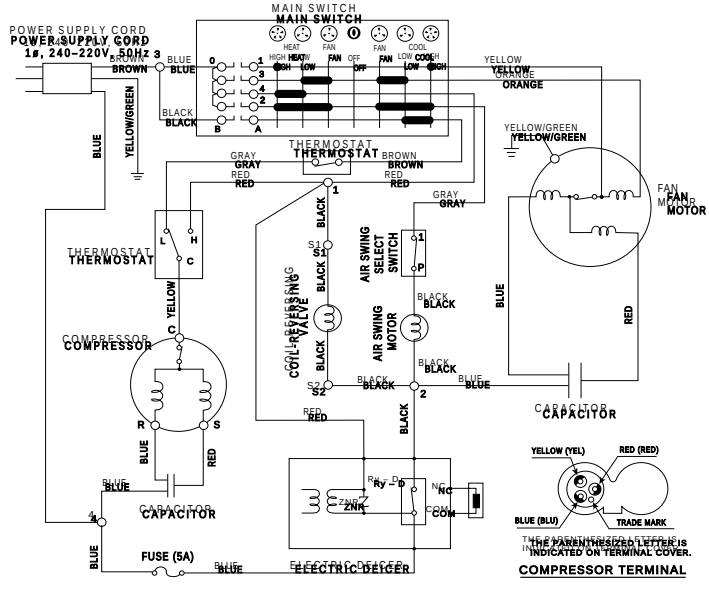
	CW-A180BN
Connection	CWA95263
BLUE–YELLOW	47.9Ω
YELLOW–ORANGE	25.2Ω
RED–YELLOW	103.3Ω
CAPACITOR	CWA31357 3.5µF, 450VAC

Resistance of Compressor windings and rated Capacitor

	CW-A180BN
Connection	2JS356D6DA01
C-R	0.86Ω
C-S	3.45Ω
CAPACITOR	CWA31506 45µF, 370VAC

* Resistance at 20°C of Ambient Temp.

CW-A240SN



Resistance of Fan Motor windings and rated Capacitor

	CW-A240SN
Connection	CWA92125
BLUE–YELLOW	18.8Ω
YELLOW–ORANGE	6.3Ω
RED–YELLOW	51.5Ω
CAPACITOR	CWA31244 3µF, 400VAC

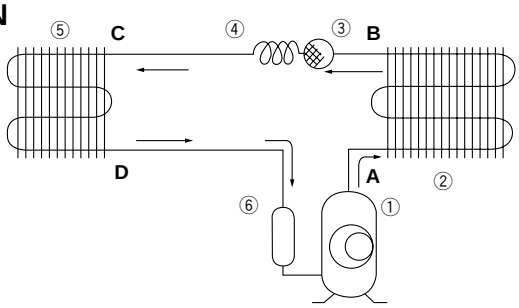
Resistance of Compressor windings and rated Capacitor

	CW-A240SN
Connection	2JS442D4AA01
C-R	0.95Ω
C-S	4.39Ω
CAPACITOR	CWA31506 45µF, 370VAC

* Resistance at 20°C of Ambient Temp.

REFRIGERATION CYCLE DIAGRAM

CW-C180BN
CW-C240SN

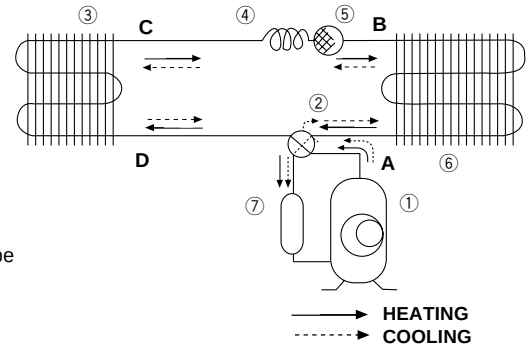


① Compressor
② Condenser
③ Strainer
④ Capillary Tube
⑤ Evaporator
⑥ Accumulator

ITEM	PRESSURE (kg/cm²)	TEMP. (°C)
A	17.5 ~ 21.0	75 ~ 90
B	17.2 ~ 20.7	38 ~ 45
C	5.5 ~ 6.1	7 ~ 15
D	5.3 ~ 5.8	5 ~ 15

* Indoor temp. at 27°C (DB), 19°C (WB) and Outdoor at 35°C , 24°C.

CW-A180BN
CW-A240SN



① Compressor
② 4-Way Valve
③ Evaporator
④ Capillary Tube
⑤ Strainer
⑥ Condenser
⑦ Accumulator

COOLING

ITEM	PRESSURE (kg/cm²)	TEMP. (°C)
A	18.5 ~ 22.0	80 ~ 95
B	18.2 ~ 21.7	44 ~ 52
C	5.7 ~ 6.3	7 ~ 15
D	5.5 ~ 6.0	6 ~ 16

* Indoor temp. at 27°C (DB), 19°C (WB) and Outdoor at 35°C , 24°C.

HEATING

ITEM	PRESSURE (kg/cm²)	TEMP. (°C)
A	15.5 ~ 19.0	55 ~ 70
B	4.0 ~ 4.5	0 ~ 5
C	15.0 ~ 18.5	37 ~ 47
D	15.4 ~ 18.9	45 ~ 55

* Indoor temp. at 21°C (DB), and Outdoor at 7°C (DB), 6°C (WB).

AIR CONDITIONER PERFORMANCE EVALUATION

COOLING

SUCTION & DISCHARGE AIR TEMPERATURE DIFFERENCE	CURRENT	DETERMINATION	REMEDY
8°C and over	As specified	Nothing wrong	• None
8°C and over	Higher than specified	Nothing wrong, outdoor temperature is too high, heat radiation is not efficient	• Improve heat radiation
Under 8°C	Higher than specified but below 150% of specified	Something is preventing heat radiation	• Excessive amount of refrigerant • Improve heat radiation
Under 8°C	Lower than specified	Leakage of refrigerant or refrigerant system is blocked	• Locate repair leak • Flush refrigeration cycle
Under 8°C	Higher than 150% of specified	Compressor defect or compressor capacitor defect	• Replace the compressor or compressor capacitor

HEATING

SUCTION & DISCHARGE AIR TEMPERATURE DIFFERENCE	CURRENT	DETERMINATION	REMEDY
12°C and over	As specified	• Nothing wrong	• None
12°C and over	Higher than specified	• Nothing wrong, outdoor temperature is high • Something is preventing heat radiation at indoor heat-exchanger	• None • Clean air-filter
Under 12°C	Lower than specified	• Nothing wrong, outdoor temperature is too low • Something is preventing heat radiation at outdoor heat-exchanger • Leakage of refrigerant • Refrigerant system is blocked	• None • Improve heat radiation at outdoor heat-exchanger • Locate & repair leak • Flush refrigeration leak
Under 12°C	Higher than 150% of specified	• Compressor defect • Compressor capacitor defect	• Replace compressor • Replace compressor capacitor

* Note: Room air humidity is relatively higher, the Temp. difference will be smaller.

HOW TO INSTALL

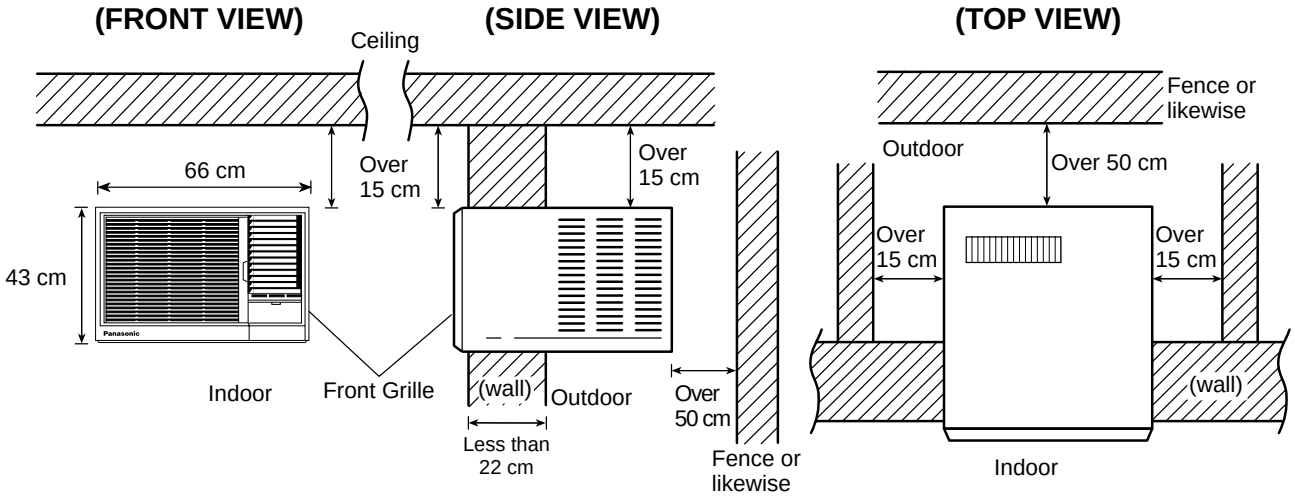
Please read the following before installing the Air Conditioner.
Select the best location for the most efficient cooling.

Location

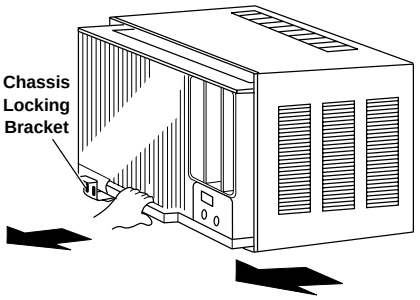
- The air conditioner should be installed in a dry place where there are no draughts.
- Condensation from the air conditioner must be drained to an appropriate location.
- Do not install in a location where flammable gas leaks are a possibility.
- Using in locations where the air is salty such as beside the sea or near hot spas, or where sulphurous gas is generated, may lead to a malfunction. Please consult your dealer.
- Select a installation location which is rigid and strong enough to support or hold the unit and select a location for easy maintenance.

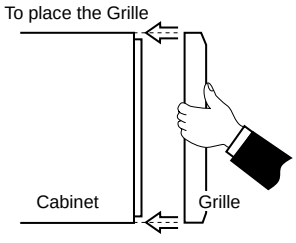
How to install

- There should not be any obstacles surrounding the unit.
- Prepare the installation hole slightly bigger than cabinet size.



1) PREPARE CHASSIS
   - Remove chassis locking bracket by loosening the screw.
   - Slide the chassis out from the cabinet.
2) Place cabinet into opening and secure it by wood screws or nails.
   - The cabinet should be installed tilted slightly lower to the rear for necessary condensate drainage. (Max. 10mm).
3) Slide Chassis into the cabinet which installed the above 2.
   - The tubings or ducting part should not touch the cabinet
4) Lock the chassis into cabinet by chassis locking bracket.
5) Place FRONT GRILLE onto CABINET by screws.
   - To place the grille, hook top of grille onto top of cabinet, push bottom of grille in until it snaps into place. Secure the Front Grille with the screws at the right, left and center of the grille.





HOW TO INSTALL

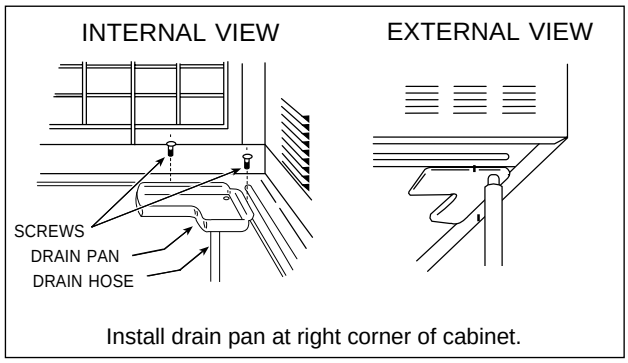
3. Drain Water....

To get the maximum cooling efficiency this air conditioner is designed to splash the condensate on the condenser coil.
This method is called “Slinger-Up System”. (For cooling model only)
If the splashing sound annoys you, you can provide an outside drain by using the following procedure which may, however cause a small loss of performance.

1. Slide out the chassis from the cabinet.
2. Remove the rubber plug from the body base plate. (For cooling model only)
3. Install the drain pan prepared in the accessory kit to the corner of the cabinet with 2 screws.
4. Connect the drain hose to the outlet on the drain pan bottom.
5. Slide the chassis into its original place in the cabinet.

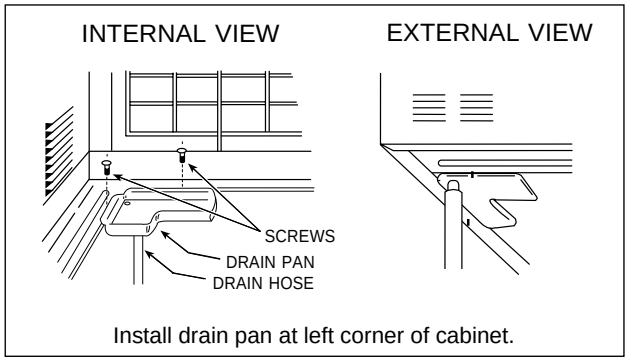
Note: Drain hose or tubing can be purchased locally to satisfy your particular needs.

(CW-C180BN, CW-A180BN)



Install drain pan at right corner of cabinet.

(CW-C240SN, CW-A240SN)



Install drain pan at left corner of cabinet.

4. Plug line cord into wall receptacle.

<240–220V, 50Hz>

- Power should be from independent circuit.
- Nominal cross sectional area of power supply wire must be 3 core x 2.5 mm^2 or above.

HOW TO OPERATE

CW-C180BN, CW-C240SN (Cooling Only)

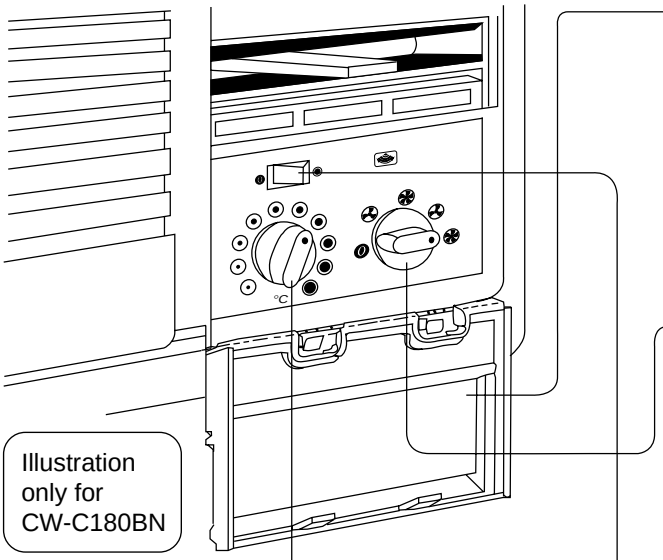


Illustration only for CW-C180BN

1. Power Supply

Set the Main Control Knob to the " ⏻ " OFF position; confirm that the power supply cord is connected to a proper AC outlet.

Recommended

Use the air conditioner under the following conditions:

• Operating temperature range.

(unit in °C)

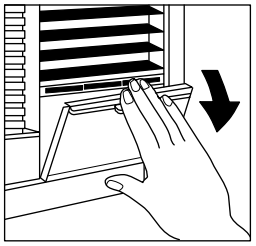
	Indoor unit		Outdoor unit	
	D.B.T.	W.B.T.	D.B.T.	W.B.T.
Maximum Temperature	32	23	43	26
Minimum Temperature	21	15	21	15

D.B.T.: Dry Bulb Temperature
W.B.T.: Wet Bulb Temperature

• Humidity does not exceed 90%.

Continuous operation at over 90% humidity may create condensation and waterdrops on the intake and outlet vents.

2. Open the cover



3. Main Control Knob

Set to either " ✣ " LOW COOL or " ✣ " HIGH COOL as required.
(FAN setting operates the fan only.)

* Caution: If the Main Control Knob is turned off or changed to a fan setting from a cooling operation setting, WAIT at least 3 minutes before resetting to a cooling operation.

4. Thermostat Control Knob

Set the Thermostat Control Knob at the desired setting. (Usually " ◉ ~ ◉ " is a recommended setting position.) If the room temperature is unsatisfactory after a reasonable amount of time, turn the control knob clockwise to cool the room more, or anticlockwise to cool the room less.

• When the Thermostat Control Knob is set to " ◉ ", moisture may freeze onto the coils and prevent effective cooling. If this happens, turn the knob to " ✣ " HIGH FAN, and the thermostat control knob anticlockwise. This will quickly defrost the cooling coil so that normal cooling can be resumed.

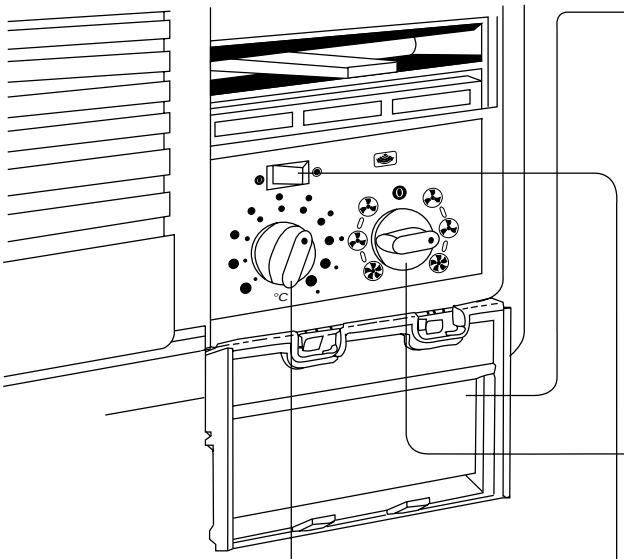
5. Air Swing Switch (Airflow direction adjustment Side-to-Side)

For fixed side-to-side air direction, set the Air Swing Switch to " ◉ " ON until the desired air direction is obtained, then move it to " ⏻ " OFF.

For continuous side-to-side air circulation, set the Air Swing Switch to " ◉ " ON and leave it there.

HOW TO OPERATE

CW-A180BN, CW-A240SN (Cooling & Heating)



1. Power Supply

Set the Main Control Knob to the " ⓪ " OFF position; confirm that the power supply cord is connected to a proper AC outlet.

Recommended

Use the air conditioner under the following conditions:

• Operating temperature range.

(unit in °C)

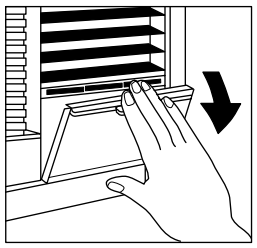
		Indoor unit		Outdoor unit	
		D.B.T.	W.B.T.	D.B.T.	W.B.T.
COOLING	Maximum Temperature	32	23	43	26
COOLING	Minimum Temperature	21	15	21	15
HEATING	Maximum Temperature	27	–	21	15
HEATING	Minimum Temperature	20	–	-5	-6

D.B.T.: Dry Bulb Temperature
W.B.T.: Wet Bulb Temperature

• Humidity does not exceed 90%.

Continuous operation at over 90% humidity may create condensation and waterdrops on the intake and outlet vents.

2. Open the cover



3. Main Control Knob

Set to either " ✇ " LOW COOL or " ✇ " HIGH COOL and " ✇ " LOW HEAT or " ✇ " HIGH HEAT as required.
(FAN setting operates the fan only.)

* Caution: If the Main Control Knob is turned off or changed to a fan setting from a cooling or heating operation setting, WAIT at least 3 minutes before resetting to a cooling or heating operation.

4. Thermostat Control Knob

Set the Thermostat Control Knob to the desired setting. (Usually "● ~●" (Red) is a recommended setting for heating and "● ~ ●" (Blue) for cooling.) If the room temperature is unsatisfactory after a reasonable amount of time, turn the control knob clockwise or anti-clockwise to make the room cooler or warmer.

• When the Thermostat Control Knob is set to "●" (Blue), moisture may freeze onto the coils and prevent effective cooling. If this happens, turn the knob to " ✇ " (Gray) FAN, and the thermostat control knob anticlockwise. This will quickly defrost the cooling coil so that normal cooling can be resumed.

5. Air Swing Switch (Airflow direction adjustment Side-to-Side)

For fixed side-to-side air direction, set the Air Swing Switch to " ◉ " ON until the desired air direction is obtained, then move it to " ⓪ " OFF.

For continuous side-to-side air circulation, set the Air Swing Switch to "◉" ON and leave it there.

TROUBLESHOOTING GUIDE

WARNING: DISCONNECT UNIT FROM ELECTRICAL POWER SUPPLY BEFORE MAKING ANY ELECTRICAL CHECKS.
DISCHARGE THE CAPACITOR BEFORE CHECKING IT.

TROUBLE	CHECK	RESULT	CAUSE	REMEDY
Fan Motor and Compressor won't run.	1. Supply Voltage. 2. Fuse Box or Circuit Breaker. 3. Power cord or Wiring Harness. 4. Thermostat Setting.	Less than - 10% by Rated. Open Contacts. Pulled loose or Shorted. Higher than ROOM TEMP.	Customer Restarted unit immediately without waiting 3 minutes	Consult ELECTRICIAN. Repair Open Circuit. WAIT FOR 3 MINUTES. Repair or Replace it. Set it LOWER.
Fan Motor won't run	1. Objects around Fan. 2. RESISTANCE between Wires. 3. Capacitor Fan Motor. 4. Main Control Switch.	Locked Fan. Shorted/Open circuit. OHM Meter doesn't Deflect. No contacts at Position Shown.	Fan Hitting Cowling or Foreign Materials. Frozen Bearings. Shorted or Burned out. Capacitor Defect. Main Control Switch defect.	Adjust Fan Position set screw. Remove Foreign Materials. Replace Fan Motor. Replace Fan Motor. Replace Capacitor Fan. Replace Main Control Switch.
Compressor won't run (Fan runs)	1. Thermostat Setting. 2. RESISTANCE between Terminal and the Compressor Body. 3. RESISTANCE between Terminals. 4. Overload Protector. 5. Capacitor Compressor. 6. Thermostat. 7. Main Control Switch.	Higher than ROOM TEMP. Shorted. Shorted. Infinity between Terminals. OHM Meter doesn't deflect. No CLICK around position. No contacts at Position shown.	Winding Coil touched to the Body. Rear Shorted or Burnt out. Overload protector defect. Capacitor defect. Thermostat defect. Main Control Switch defect.	Set it lower. Replace Compressor. Replace Compressor. Replace Overload Protector. Replace Capacitor Comp. Replace Thermostat. Replace Main Control Switch.
Insufficient cooling or heating	1. Thermostat Setting. 2. Ventilation Door open. 3. Air Filter dirty. 4. Location of installation. 5. Evaporator/Condenser Coil obstructed. 6. Unit capacity for the room too small. 7. Temp difference and Running Current.	Higher or lower than ROOM TEMP. Open. Clogged or Dirty. Sunlight hitting outdoor side at cooling. Obstacles. Clogged or Dirty. Not Satisfied. REFER PERFORMANCE EVALUATION.	Reduces capacity. Restricted air circulation. Restricted Heat Exchanger Restricted Heat Exchanger. Restricted air circulation. Leakage of refrigerant or refrigeration system is blocked.	Set it lower or higher. Close Vent door. Clean or Replace Air Filter. Consider building an AWNING. Remove obstacles or reinstall unit. Clean by steam cleaner. Replace the Unit with bigger one. Locate repair leak. Flush refrigeration cycle.
Noise	1. Source of Noise.	Vibration. Intermittent Noise.	Faulty installation. Fan hitting objects. Refrigerant tubing touching each other. Fan splashing Drain Water.	Reinstall unit or Reinforce the installation. Adjust Fan position or remove Foreign Materials. About 1/2" Clearance. Consider Attaching the Drain Pan and pull plug in bottom pan. (REFER INSTALLATION INSTRUCTIONS)
No heating (Fan and Compressor run.)	1. Reversing Valve Coil. 2. Reversing Valve.	Infinity between Coil. Resistance between Reversing Valve Coil.		Replace Reversing Valve coil. Replace Reversing Valve.
Water dripping inside room	1. Unit Installation. 2. Drain Tray-STYROFOAM Pieces blocking Drain Channel.	Tilted to inside room. Clogged.	Restricted run off. Clogged or blocked.	Tilt unit to outside slightly. Remove the foreign materials. (REFER OPERATING INSTRUCTIONS)
Frozen Evaporator	1. Thermostat Setting 2. Air Filter/Evaporator. 3. Temp. difference and Running Current.	Set too low for ambient conditions. Clogged or Dirty. REFER PERFORMANCE EVALUATION.	Outdoor TEMP. Low (Night time) Restricted air circulation Leakage of refrigerant or refrigeration system is blocked.	Set Main Control Switch to Fan to melt ICE and Set the Temp. control to higher temperature Clean Air Filter/Evaporator. Locate repair leak. Flush refrigeration cycle.
Frozen Condenser	1. Outdoor ambient temp.	Heating Operation at Low outdoor ambient temp.	Outdoor ambient temp. is Low.	Set Main Control Switch to Fan to melt ICE.

CARE AND MAINTENANCE

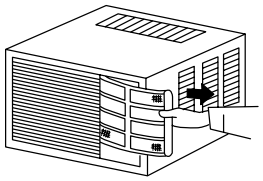
Always turn off the air conditioner and main power supply before cleaning to ensure safety.

Air Filter

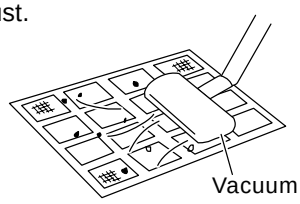
The air filter behind the intake grille should be washed at least every two weeks or as often as it needs cleaning.

HOW TO CLEAN THE AIR FILTER:

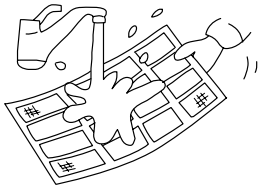
1. To remove the air filter, grasp the tab on the filter and pull to the right.



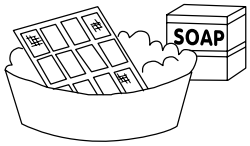
2. Vacuum the filter on the dusty side to remove light dust.



3. Wash the filter, cleaner side up under gently flowing water to wash out accumulated dust and lint.



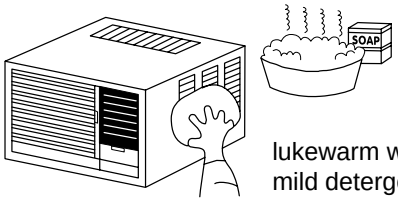
4. If the filter is very dirty, use a mild household detergent in the wash water.



Let the filter dry thoroughly before reinstalling it. When reinstalling the filter, be sure the word “FRONT” is facing you as you slide the filter back into place.

Cabinet

Clean the cabinet with mild soap or detergent and lukewarm water.



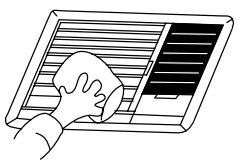
lukewarm water + mild detergent

Caution

Wipe off dirt with a soft, dry cloth (use a vacuum cleaner to remove dust from the air intake.)
Use a cloth and water less than 40°C to remove stubborn dirt (the cloth should be well-wrung).
Do not use the following cleansers as they cause the paint to peel and lead to malfunctions:
Benzene, thinner, scouring powder, chemical-soaked cloths, etc.

Front Grille

Clean the front grille with a clean cloth lightly dampened with mild liquid dish-washing detergent.



Annual check

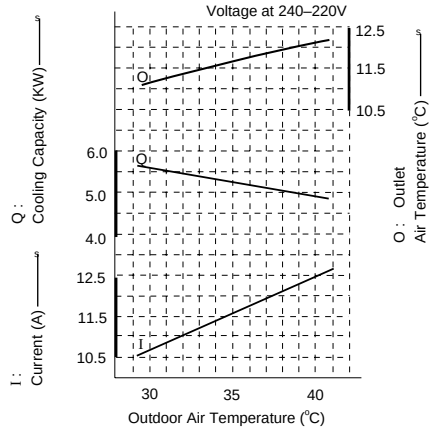
* After long-term usage of room air conditioners, dust and dirt will accumulate inside, lowering the performance. This may cause the generation of odour or may impede the drainage of the dehumidifying water.
* Besides regular cleaning of the air conditioner, a separate annual check is also recommended (chargeable). Please request your dealer to carry out these checks.

TECHNICAL DATA

• Operation Characteristics

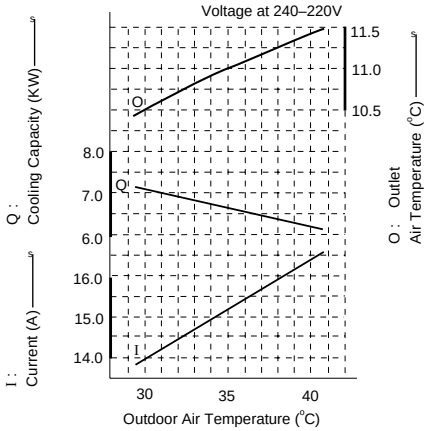
CW-C180BN

Cooling Characteristic



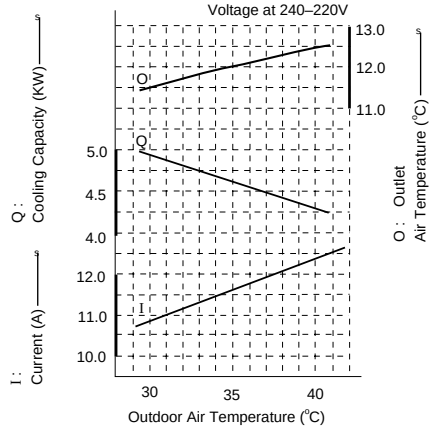
CW-C240SN

Cooling Characteristic

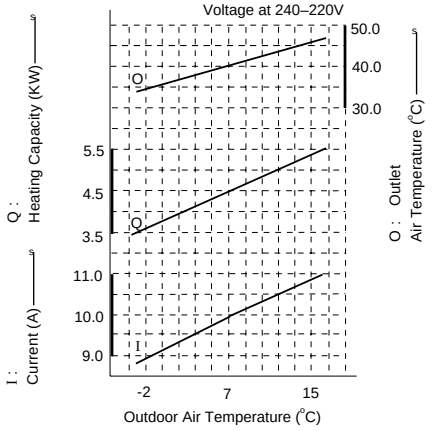


CW-A180BN

Cooling Characteristic

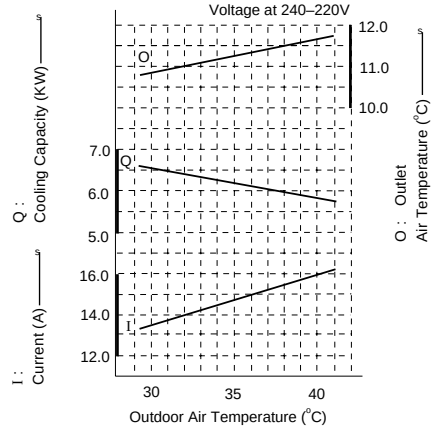


Heating Characteristic

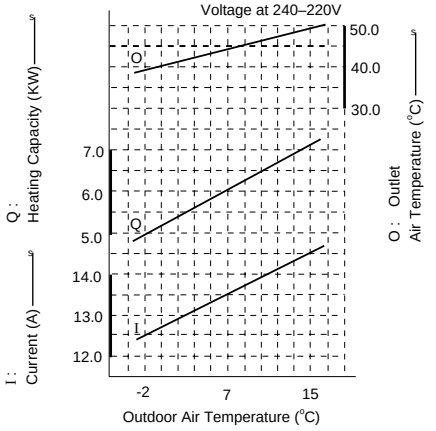


CW-A240SN

Cooling Characteristic

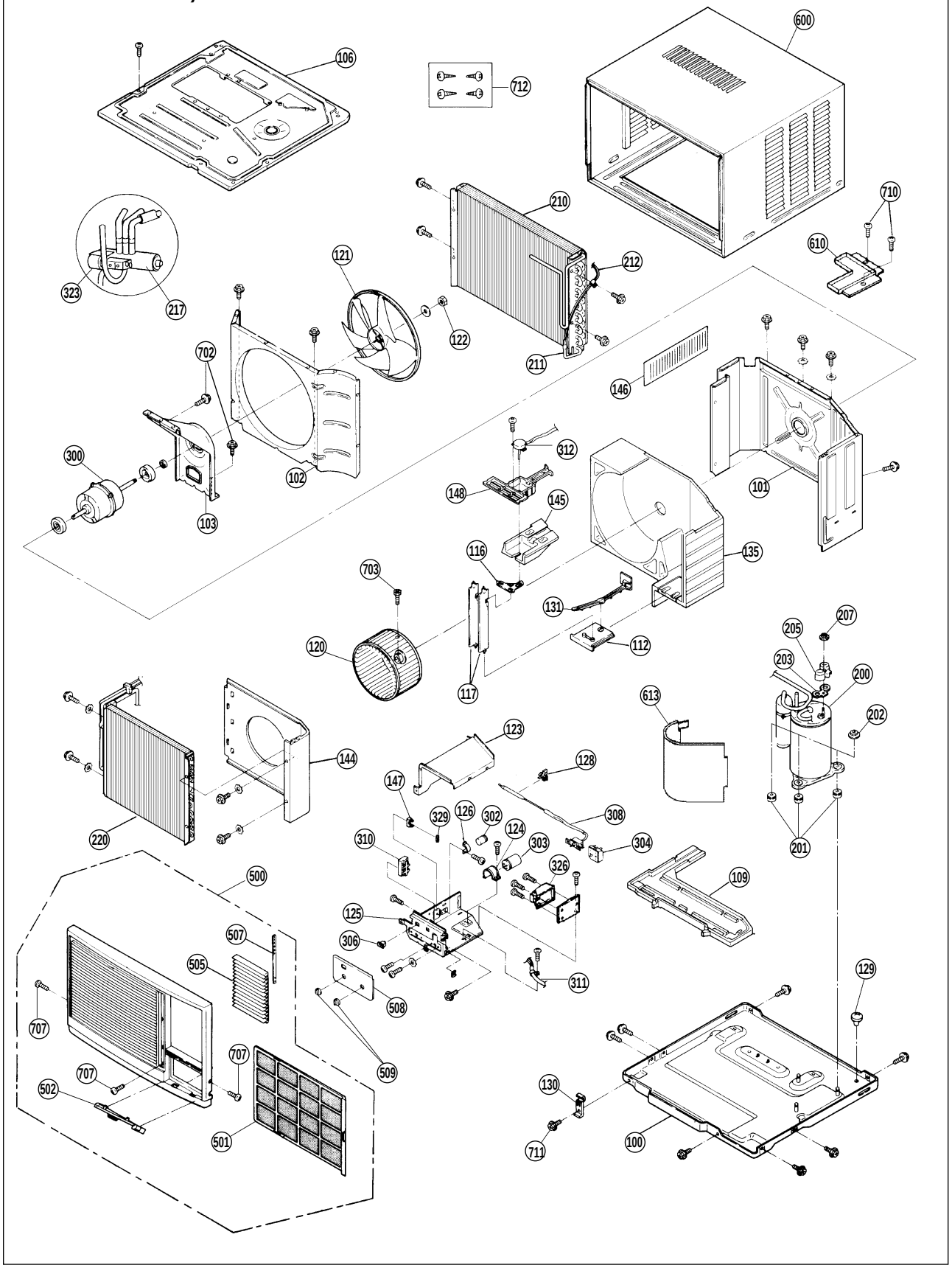


Heating Characteristic



EXPLODED VIEW

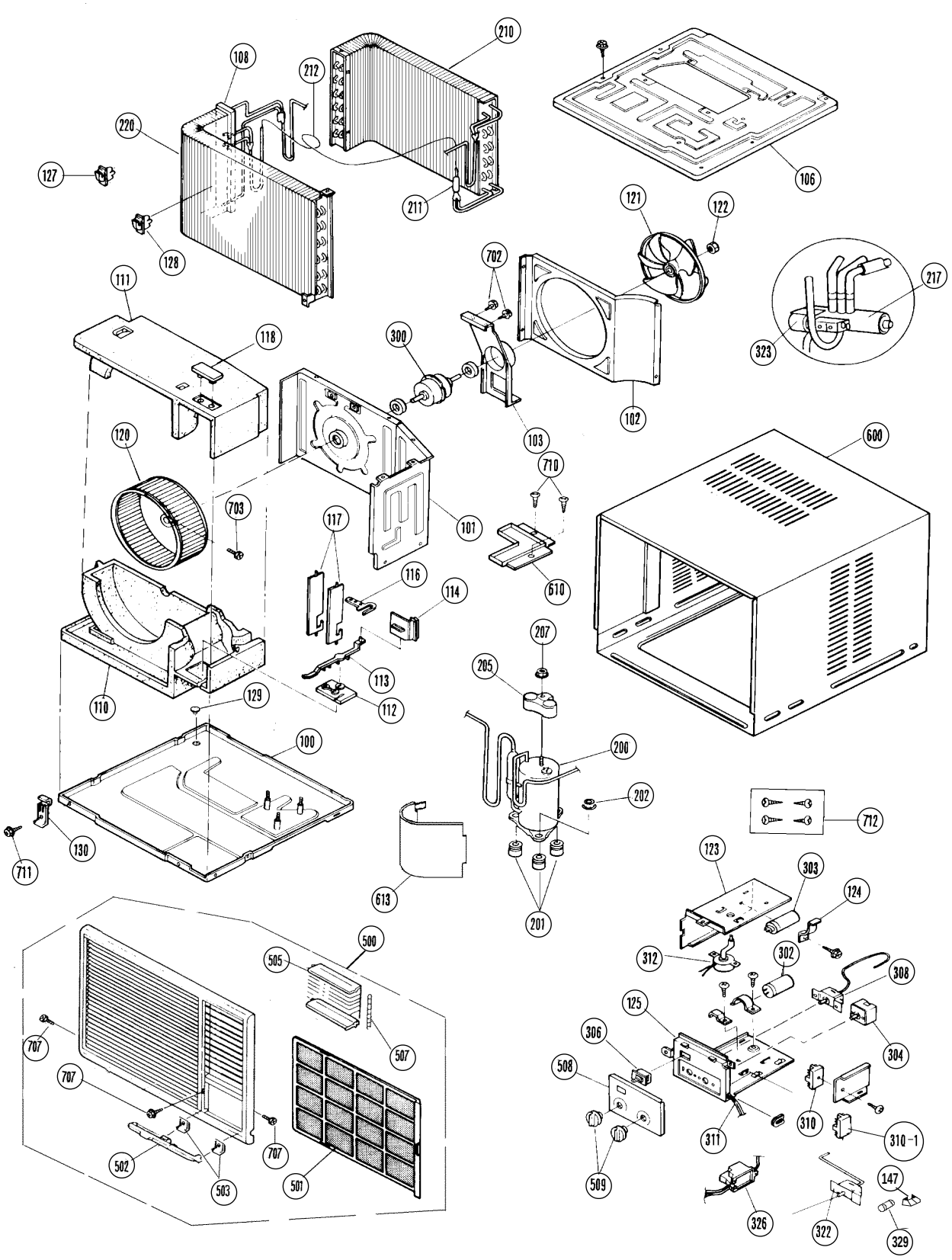
CW-C180BN, CW-A180BN



- The above exploded view is for the purpose of parts disassembly and replacement.
  The non-numbered parts are not kept as standard service parts.

EXPLODED VIEW

CW-C240SN, CW-A240SN



- The above exploded view is for the purpose of parts disassembly and replacement.
  The non-numbered parts are not kept as standard service parts.

REPLACEMENT PARTS LIST

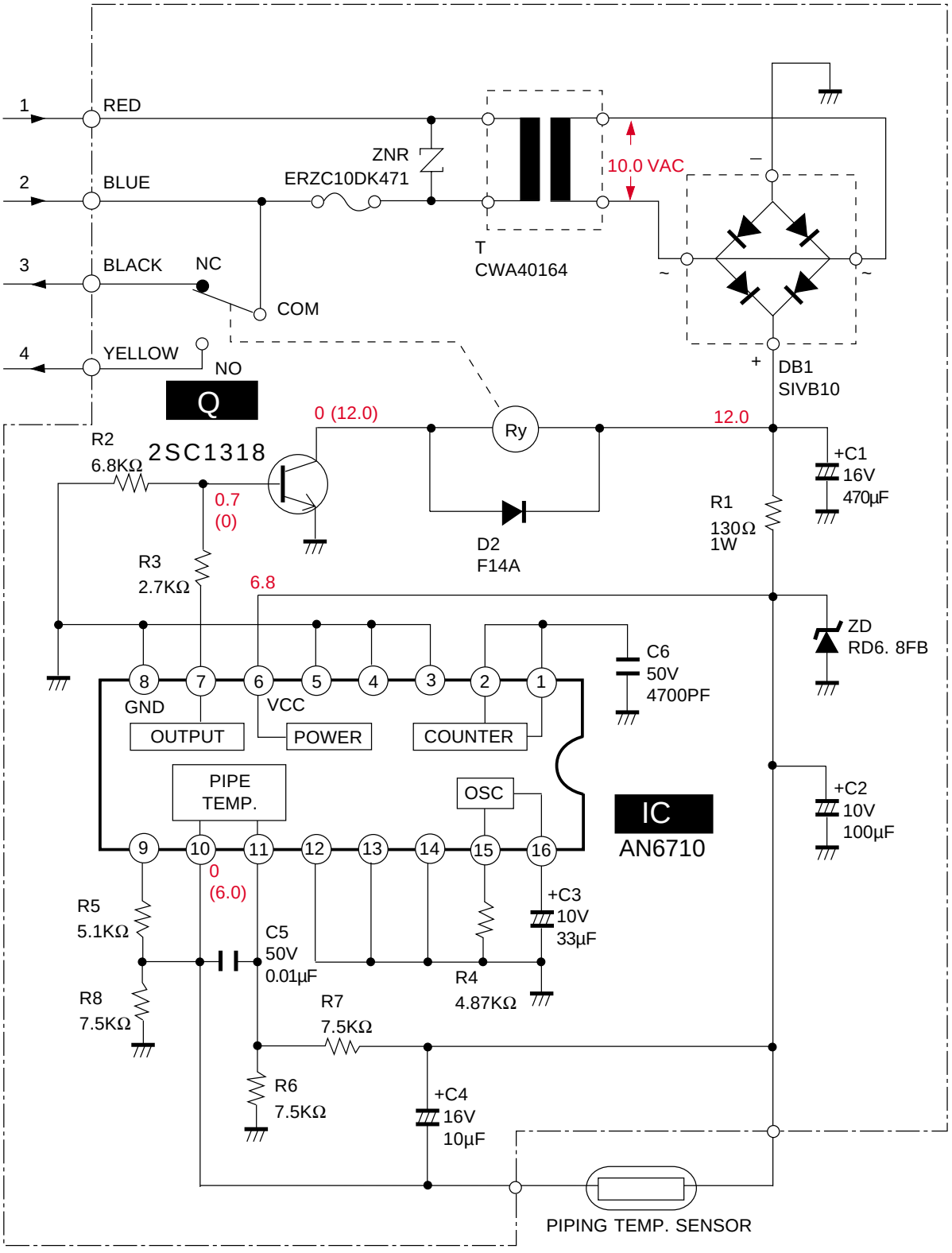
REF.NO.	DESCRIPTION & NAME	QTY	CW-C180BN	CW-A180BN	CW-C240SN	CW-A240SN
100	BASE PAN ASS'Y	1	CWD52K226A	CWD52K225A	CWD52K183A	CWD52K193A
101	BULKHEAD	1	CWD53K093	←	CWD53K087	CWD53K083
102	AIR GUIDER-PROPELLER FAN	1	CWD31092	←	CWD31K037	CWD31075
103	BRACKET-FAN MOTOR	1	CWD54091	←	CWD54142	←
106	TOP PLATE ASS'Y	1	CWD64K036	←	CWD64k029	←
108	COVER-EVAPORATOR	1	—	—	CWD11030	←
109	DRAIN TRAY-EVAPOPATOR	1	CWH40166	←	—	—
110	AIR GUIDER-B. WHEEL (BOTTOM)	1	—	—	CWD32099	←
111	AIR GUIDER-B. WHEEL (UPPER)	1	—	—	CWD32098	←
112	HOLDER-VENT. LEVER	1	CWD91021	←	CWD66156	←
113	VENTILATION LEVER	1	—	—	CWH22004	←
114	VENTILATION DOOR	1	—	—	CWH21012	←
116	CONNECTING BAR-A. SWING VANES	1	CWE26139	←	CWE26092	←
117	VANE-AIR SWING	2	CWE24314	←	CWC24210	←
118	GUIDER-A. SWING VANES	1	—	—	CWE26106	←
120	BLOWER WHEEL ASS'Y	1	CWH01K052	←	CWH01K056	←
121	PROPELLER FAN	1	CWH00009	←	←	←
122	NUT-P. FAN	1	CWH56033	←	←	←
123	CONTROL BOARD (AUX.)	1	CWD60384	←	CWH10K337	←
124	HOLDER-CAPACITOR (COMP.)	1	CWH30133	CWH30102	CWH30101	←
125	CONTROL BOARD (MAIN)	1	CWH10772	CWH10899	CWH10666	CWH10666
126	HOLDER-CAPACITOR (FAN)	1	CWH30132	←	—	—
127	HOLDER-SENSOR	1	—	—	—	CWH32048
128	HOLDER-SENSOR	1	CWH32085	CWH32086	CWH4690379	←
129	DRAIN PLUG-BASE PAN	1	CWH4611062	—	CWH4611062	—
130	CHASSIS LOCKING BRACKET	1	CWD93302	←	←	←
131	VENTILATION ASS'Y	1	CWH22007	←	—	—
135	AIR GUIDER-B. WHEEL	1	CWD32124	←	—	—
144	AIR GUIDER-B. WHEEL (FRONT)	1	CWD32126	CWD32126 (A)	—	—
145	RECTIFICATION PLATE	1	CWD21008	←	—	—
146	SPLASH WATER PROOF LOUVER	1	CWD91029A	—	—	—
147	FUSE HOLDER	1	XCSCW011	—	XCSCW011	←
148	BOX FOR AIR-SWING MOTOR	1	CWD66191	←	—	—
200	COMPRESSOR	1	2JS350D6BA02 (B09567)	2JS356D6DA01 (CWB09525)	2JS442D4AA01 (B09374)	←
201	BUSHING-COMP. MOUNT.	3	CWH50055	←	←	←
202	NUT-COMP. MOUNT.	3	CWH4582065	←	←	←
203	GASKET-TERMINAL COVER	1	CWH7070603	←	—	—
205	TERMINAL COVER-COMP.	1	CWH7070206	←	←	←
207	NUT-TERMINAL. COVER	1	CWH7080300	←	←	←
210	CONDENSER	1	CWB32604	CWB32484	CWB32C073	CWB32C095
211	STRAINER	1	CWB11025	←	←	←
212	CAPILLARY TUBE	2	CWB15491 (2)	CWB15363	CWB15315 (1)	CWB15589 (2)
217	4-WAY VALVE	1	—	CWB00003	—	CWB00003
220	EVAPORATOR	1	CWB30C049	←	CWB30C004	CWB30C015
300	FAN MOTOR	1	CWA95263	←	CWA92125	←
302	CAPACITOR-FAN	1	CWA31357 (3.5μF, 450VAC)	←	CWA31244 (3μF, 400VAC)	←
303	CAPACITOR-COMP.	1	CWA31504 (35μF, 370VAC)	CWA31506 (45μF, 370VAC)	←	←
304	MAIN CONTROL SWITCH	1	CWA07034	CWA07040	CWA07034	CWA07043
306	SWITCH-AIR SWING	1	CWA05024	←	←	←
308	THERMOSTAT ROOM	1	CWA15122	CWA15123	CWA15122	CWA15123
310	TERMINAL BOARD	1	CWA4711013	CWA4711060	CWA4711013	←
310-1	TERMINAL BOARD	1	—	—	—	CWA4711022
311	POWER SUPPLY CORD	1	CWA20C538	CWA20C643	CWA20C539	CWA20C481
312	AIR SWING MOTOR	1	CWA98K067	←	CWA98K046	←
322	SWITCH-LOW TEMP CUT	1	—	—	CWA15005	←
323	COIL-4 WAY VALVE	1	—	CWA43C365	—	CWA43C356
326	DEICER	1	—	CWA17004	—	CWA17004
329	FUSE	1	XBA2C50TR0	CWA16C158	XBA2C50TRO	←
500	FRONT GRILLE COMPLETE	1	CWE11C697	←	←	←
501	AIR FILTER	1	CWD00157D	←	←	←
502	GRILLE DOOR ASS'Y	1	CWE14K046	←	←	←
503	HINGE-G. DOOR	2	CWH61029E	←	←	←
505	VANE	14	CWE24301D	←	←	CWE24301D
507	LINK-VANES	1	CWE26136	←	←	←
508	CONTROL ESCUTCHEON	1	CWE311086	CWE311085	CWE311073	CWE311113
509	KNOB-TURNING	2	CWE17C076	←	←	←
600	CABINET COMPLETE	1	CWE00C121	CWE00C124	CWE00C120	←
610	DRAIN PAN	1	CWH40077	←	←	←
613	SOUND PROOF-COMP.	1	CWG30377	—	CWG30377	—
702	SCREW-BRACKET FAN MOTOR	4	CWH55039	←	←	←
703	SCREW-BLOWER WHEEL	1	CWH4580326	←	←	←
707	SCREW-F. GRILLE MOUNT.	1	CWH82C163	←	←	←
710	SCREW-DRAIN PAN	1	CWG86C733	←	←	←
711	SCREW-C. LOCKING BRACKET	1	XTT4+8B	←	←	←
712	SCREW-UNIT INSTALLATION	1	CWG86C280	←	←	←
	OPERATING INSTRUCTIONS	1	F561189	←	←	←

All parts are supplied from MAICO, Malaysia (Vendor Code : 061).

- The above parts are kept for seven years in accordance with MEI service policy. However, longer lead time will be taken in supplying the non-numbered parts.

ELECTRONIC CIRCUIT DIAGRAM

- **CW-A180BN, CW-A240SN**
  (DEICER SCHEMATIC DIAGRAM)



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