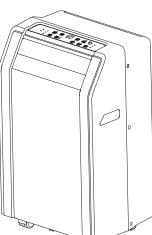


Website: www.mideaaircon.com

Service Manual AIR CONDITIONER

Portable Type





N1 series

N series

N portoblo (ALIAM	MPN-05CRN1-BH2(H)	US-KC15Y1/N1-N(H2H)
N portable (AHAM	MPN-08CRN1-BH2(H)	US-KC23Y1/N1-N(H2H)
standard)	MPN-12CRN1-BH9(H)	US-KC35Y1/N1-N(H9H)
	MPN-05CRN1-BH9	US-KC15Y1/N1-N(H9)
	MPN-08CRN1-BH9	US-KC23Y1/N1-N(H9)
N portable (ASHRAE	MPN-085CRN1-BH9	US-KC25Y1/N1-N(H9)
standard)	MPN-10CRN1-BH9	US-KC30Y1/N1-N(H9)
	MPN-12CRN1-BH9	US-KC35Y1/N1-N(H9)
	MPN-14CRN1-BI6	US-KC41Y1/N1-N(I6)
	MPN1-08CRN1-BH2(H)	US-KC23Y1/N1-N1(H2H)
N1 portable (AHAM	MPN1-09CRN1-BH2(H)	US-KC26Y1/N1-N1(H2H)
standard)	MPN1-10CRN1-BH2(H)	US-KC30Y1/N1-N1(H2H)
	MPN1-12CRN1-BH9(H)	US-KC35Y1/N1-N1(H9H)
	MPN1-08CRN1-BH9	US-KC23Y1/N1-N1(H9)
N1 portable (ARI	MPN1-10CRN1-BH9	US-KC30Y1/N1-N1(H9)
standard)	MPN1-12CRN1-BH9	US-KC35Y1/N1-N1(H9)
	MPN1-14CRN1-BI6	US-KC41Y1/N1-N1(I6)

CONTENT

1	Safety precaution	1
1.1	Installation	
1.2	Caution	1
1.3	Operational	
2	Out dimension	2
3	Display	3
4	Refrigerant cycle diagram	4
5	PCB drawing & wiring diagram	5
6	Specification	
7	Installation detail	
7.1	Position requirement for installation	
7.2	Preparation work	7
7.3	Installation in a double-hung sash windows	8
7.4	Installation in a sliding sash windows	9
8	Feature1	1
9	Basic test procedure1	2
9.1	Defect ive compressor1	2
9.2	Sealed refrigeration system repairs1	
9.3	Fan motor1	5
9.4	Capacitor1	-
10	Characteristic of temperature sensor1	5
11	Trouble shooting1	7

1 Safety precaution

1.1 Installation

For electrical work, contact the dealer, seller, a qualified electrician, or an Authorized service center.

Do not disassemble or repair the product by yourself.

Sharp edges could cause injury, be especially careful of the case edges and the fins on the condenser and evaporator.

Be sure the installation area does not deteriorate with age.

Take care to ensure that power cable could not be pulled out or damaged during operation. Do not place anything on the power cable.

Do not plug or unplug the power supply plug during operation.

Do not store or use flammable gas or combustible near the product.

When flammable gas leaks, turn off the gas and open a window for ventilation before turn the product on.

If strange sounds, or small or smoke comes from product. Turn the breaker off or disconnect the power supply cable as soon as possible.

When the product is soaked (flooded or submerged), contact an Authorized service center. Be caution that water could not enter the product.

Turn the main power off when cleaning or maintaining the product.

When the product is not be used for a long time, disconnect the power supply plug or turn off the breaker.

1.2 Caution

Always check for gas (refrigerant) leakage after installation or repair of product.

Install the drain hose to ensure that water is drained away properly.

Keep level even when installing the product.

Do not install the product where the noise or hot air from the outdoor unit could damage the neighborhoods.

Use two or more people to lift and transport the product.

Do not install the product where it will be exposed to sea wind (salt spray) directly.

1.3 Operational

Do not expose the skin directly to cool air for long periods of time. (Do not sit in the draft). Do not use the product for special purposes, such as preserving foods, works of art, etc. It is a consumer air conditioner, not a precision refrigerant system.

Do not block the inlet or outlet of air flow.

Use a soft cloth to clean. Do not use harsh detergents, solvents, etc.

Do not touch the metal parts of the product when removing the air filter. They are very sharp. Do not step on pr put anything on the product. (Outdoor units)

Always insert the filter securely. Clean the filter every two weeks or more often if necessary. Do not insert hands or other object through air inlet or outlet while the product is operated. Do not drink the water drained from the product.

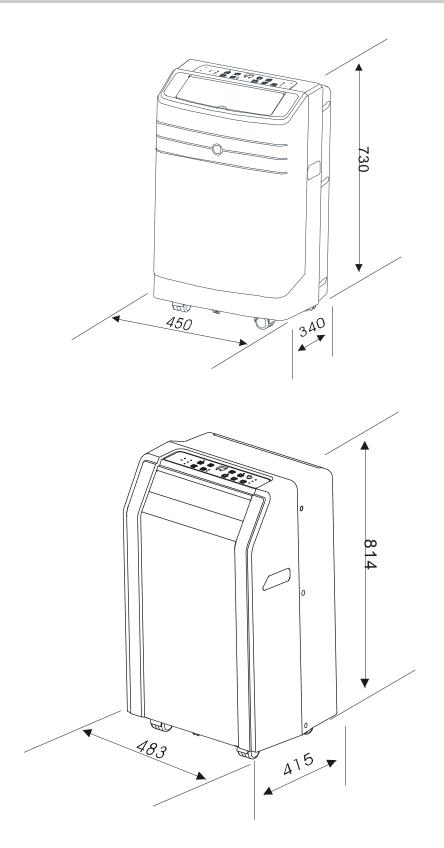
Use a firm stool or ladder when cleaning or maintaining the product.

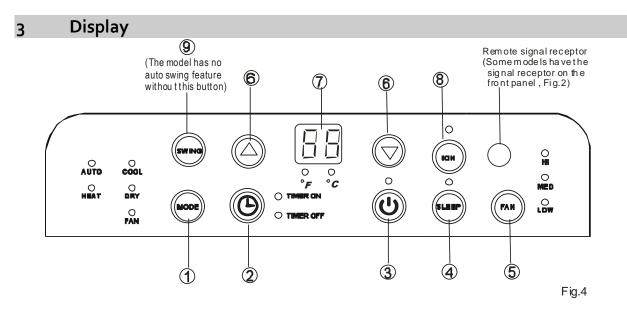
Replace the all batteries in the remote control with new ones of the same type. Do not mix old and mew batteries or different types of batteries.

Do not recharge or disassemble the batteries. Do not dispose of batteries in a fire.

If the liquid from the batteries gets onto your skin or clothes, wash it well with clean water. Do not use the remote of the batteries have leaked.

2 Out dimension





MODE select button

Selects the appropriate operating mode. Each time you press the button, a mode is selected in a sequence that goes from AUTO, COOL, DRY, FAN and HEAT(cooling only models without). The mode indicator light illuminates under the different mode settings Fig.4.

2 TIMER button

Used to initiate the AUTO ON start time and AUTO OFF stop time program, in conjuction with the $\triangle \& \nabla$ buttons.

• POWER button

Power switch on/off.

SLEEP button

Used to initiate the SLEEP operation.

G FAN button

Control thef an speed Press to select the fan speed int hree steps-LOW, MED, and HI. The fan speed in dicator light illuminates under different fan setting s.

B ION button(optional)

Press the ION button, the ion generator is ener gized and will help to remove pollen and impur ities from the air, and trap them in the filter. Press it again to stop the function.

\bigcirc UP(\triangle) and DOWN(\bigtriangledown) button

Used to adjust (increasing/decreasing) temperature settings(1°C/2°F increments) in a range of 17°C(62°F) to 30°C(88°F) or the TIMER setting in a range of 0~24hrs.. **NOTE:** The control is capable of displaying temperature in degrees Fahrenheit or degrees

Celsius. To convert from one to the other, press and hold the Up and Down buttons at the same time, for 3 seconds.

LED Display

Shows the set temperature in "°C" or "°F" and the Auto-timer settings. While on DRY and FAN modes, it shows the room temperature.

Error codes:

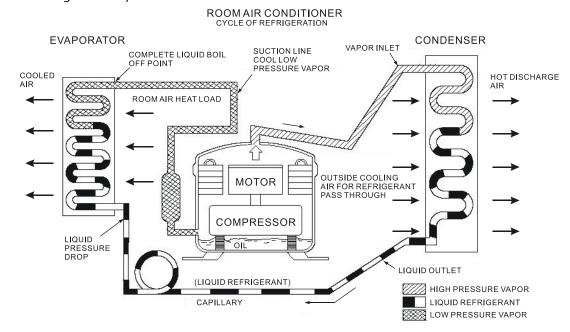
- *E1-* Room temperature sensor error-Unplug the unit and plug it back in. If error repeats, call for service.
- *E2-* Evaporator temperature sensor error-Unplug the unit and plug it back in. If error repeats, call for service.
- *P1-* Bottom tray is full Connect the drain hose and drain the collected water away. If error repeats, call for service.

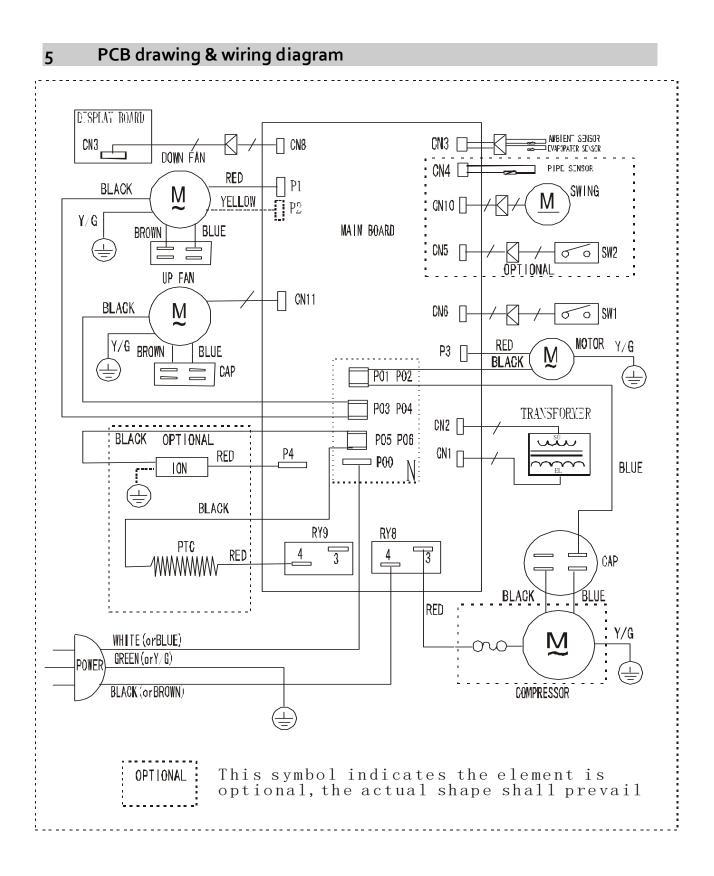
SWING button

(Applicable to the models with auto swing feature only) When the operation is ON, press the SWING button can stop the louver at the desired angle. The louver swing up to an angle of 6° for each press. Keep pressing the button more than 2 seconds can initiate the auto swing feature.

4 Refrigerant cycle diagram

The figure below is a brief description of the important components and their function in what is called the refrigeration system



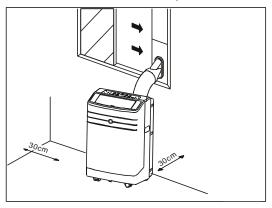


6 Specifica	ation								
Model		r		r			System	1	
Market model	Cooling	EER	Amps (Cool)	Watts (Cool)	Compressor	R	Amount	Design Pressure	Air Flow
	Btu/H	Btu/H.W	А	W			oz/g	Psig	M ³ /H(CFM)
MPN-05CRN1-BH2(H)	5000	8.2	5.4	600	39A121AA&54KA	R410A	10.2/290	550/340	360/310/270
MPN-08CRN1-BH2(H)	8000	8.2	8.5	950	39A191AD&5JKB	R410A	11.3/320	550/340	360/310/270
MPN-12CRN1-BH9(H)	12000	8.9	11.9	1340	44A281BG&FJKC	R410A	15.2/430	550/340	600/530/450
MPN-05CRN1-BH9	5800	8.9	5.8	650	39A111AA&54KA	R410A	9.88/280	550/340	360/300/260
MPN-08CRN1-BH9	8100	8.9	8.2	910	39A171AD&5DKB	R410A	10.23/290	550/340	360/300/260
MPN-085CRN1-BH9	8500	8.9	8.5	950	39A171AD&5DKB	R410A	10.23/290	550/340	360/300/260
MPN-10CRN1-BH9	10000	8.9	10.1	1125	44A231BG&FEKC	R410A	13.1/370	550/340	360/300/260
MPN-12CRN1-BH9	12000	8.9	11.9	1340	EA103M1C-1DZDU1	R410A	14.8/420	550/340	600/530/450
MPN-14CRN1-BI6	14000	9.6	12.5	1400	44A281BG&FJKC	R410A	14.8/420	550/340	600/530/450
MPN1-08CRN1-BH2(H)	8000	8.2	8.5	950	39A191AD&5JKB	R410A	13.1/370	550/340	370/320/270
MPN1-09CRN1-BH2(H)	9000	8.2	9.8	1090	44A231BG&FEKC	R410A	14.5/410	550/340	390/360/330
MPN1-10CRN1-BH2(H)	10000	8.2	10.8	1210	EA103M1C-1DZDU1	R410A	14.8/420	550/340	390/360/330
MPN1-12CRN1-BH9(H)	12000	8.9	11.9	1340	44A281BG&FJKC	R410A	15.2/430	550/340	600/530/450
MPN1-08CRN1-BH9	8100	8.9	8.2	940	39A171AD&5DKB	R410A	10.6/300	550/340	380/330/290
MPN1-10CRN1-BH9	10000	8.9	10.1	1170	44A231BG&FEKC	R410A	14.1/400	550/340	380/330/290
MPN1-12CRN1-BH9	12000	8.9	11.9	1340	EA103M1C-1DZDU1	R410A	15.2/430	550/340	470/430/370
MPN1-14CRN1-BI6	14000	9.6	12.5	1400	44A281BG&FJKC	R410A			

7 Installation detail

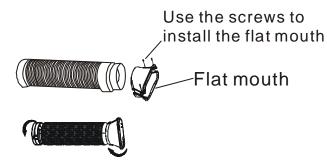
7.1 Position requirement for installation

Installation must be in a flat and spacious location where the air outlets will not be covered up. A minimum clearance of 30cm from a wall or other obstacles should be kept. The appliance shall not be used in the washroom. The plug shall accessible after appliance is positioned. Wiring shall be done according to National rules. Please see the picture show as below.

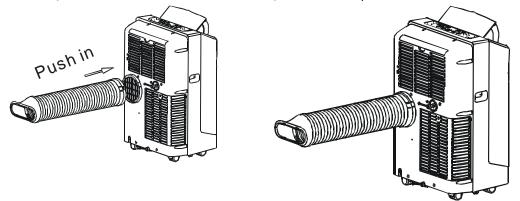


7.2 Preparation work

First of all, prepare the exhaust hose as the below picture show to you.



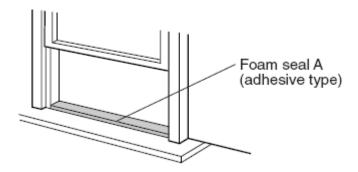
Second, connect the exhaust hose with unit, like the blow picture.



After this two steps, please make sure the exhaust hose's connect is OK.

7.3 Installation in a double-hung sash windows

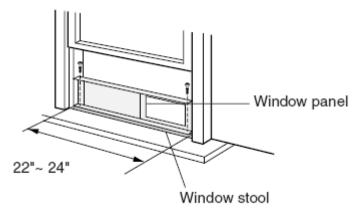
7.3.1 Cut the foam seal (adhesive type) to the proper length and attach it to the window stool.



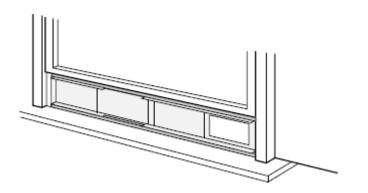
7.3.2 Attach the window panel to the window stool. Adjust the length of the window panel according to the width of window, short the adjustable panel if the width of window is less than 26".

Open the window sash and place the window panel on the window stool.

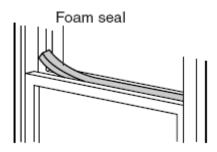
Secure the window panel to the window stool with 2 screws.



7.3.3 Cut the foam seal (adhesive type) to the proper length attach it on the top of window.Show as below picture.

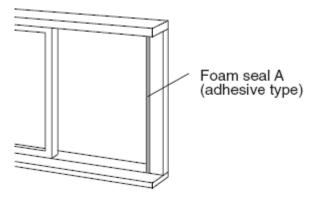


- 7.3.4 Close the window sash securely against the window.
- 7.3.5 Cut the foam seal to an appropriate length and sealing the open gap between the top window sash and outer window sash. Show as below picture.



7.4 Installation in a sliding sash windows

7.4.1 Cut the foam seal to a proper length and adhesive to the window frame.

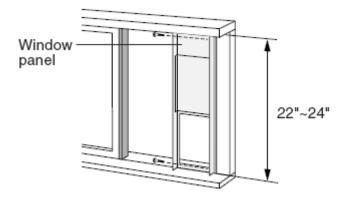


7.4.2 Attach the window panel to the window stool.

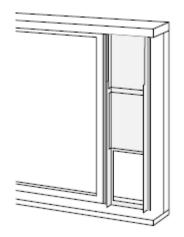
Adjust the length of the sliding window panel according to the width of window, short the adjustable panel if the width of window is less than 26".

Open the sliding sash and place the window panel on the window stool.

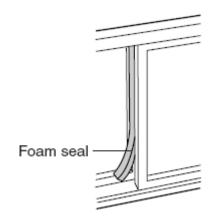
Secure the sliding window panel to the window stool with 2 screws.



7.4.3 Cut the foam seal (adhesive type) to the proper length attach it on the top of window. Show as below picture.



- 7.4.4 Close the sliding sash securely against the window.
- 7.4.5 Cut the foam seal to an appropriate length and sealing the open gap between the top window sash and outer window sash. Show as below picture.



8 Feature



Double louver flat appearance, Simple and generous Straight condenser, low cost, High-efficiency duct inside (After the lower right panel) High heat exchanger designed
Turbo cooling function Flexible air exhaust Advanced shower system Follow me function 24 hour on/off Cooling Dry Fan only No water tank design

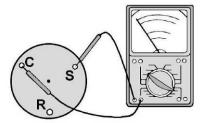
9 Basic test procedure

9.1 Defective compressor

Compressors are single phase, 115 or 230/208 volt, depending on the model unit. All compressor motors are permanent split capacitor type using only a running capacitor across the start and run terminal.

All compressors are internally spring mounted and externally mounted on rubber isolators.

9.1.1 Compressor wiring test



Remove compressor terminal box cover and disconnect wires from terminals. Using an ohmmeter, check continuity across the following:

Terminal "C" and "S" - no continuity

- Open winding - replace compressor.

Terminal "C" and "R" - no continuity

- Open winding - replace compressor.

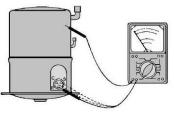
Terminal "R" and "S" - no continuity

- Open winding - replace compressor.

9.1.2 Ground test

Use an ohmmeter set on its highest scale. Touch one lead to the compressor body (clean point of

contact as a good connection is a must) and the other probe in turn to each compressor terminal (see Figure 2.) If a reading is obtained, the compressor is grounded and must be replaced.



9.1.3 Checking the compressor efficiency

The reason for compressor inefficiency is normally due to broken or damaged suction and/or discharge valves, reducing the ability of the compressor to pump refrigerant gas. This condition can be checked as follows:

- 1. Install a piercing valve on the suction and discharge or liquid process tube.
- 2. Attach gauges to the high and low sides of the system.
- 3. Start the system and run a "cooling or heating performance test."
- If test shows:
- A. Below normal high side pressure.
- B. Above normal low side pressure.
- C. Low temperature difference across coil.
- The compressor valves are faulty replace the compressor.

9.1.4 Terminal overload (external)

Some compressors are equipped with an external overload which is located in the compressor terminal box adjacent to the compressor body The overload is wired in series with the common motor terminal. The overload senses both major amperage and compressor temperature. High motor temperature or amperage heats the disc causing it to open and break the circuit to the common motor terminal.

Heat generated within the compressor shell is usually due to:

- 1. High amperage.
- 2. Low refrigerant charge.
- 3. Frequent recycling.
- 4. Dirty condenser.

9.1.5 Terminal overload – Test (compressor external type)

- 1. Remove overload.
- 2. Allow time for overload to reset before attempting to test.

3. Apply ohmmeter probes to terminals on overload wires. There should be continuity through the overload.

9.1.6 Terminal overload (internal)

Some model compressors are equipped with an internal overload. The overload is embedded in the motor windings to sense the winding temperature and/or current draw. The overload is connected in series with the common motor terminal.

Should the internal temperature and/or current draw become excessive; the contacts in the overload will open, turning off the compressor? The overload will automatically reset, but may require several hours before the heat is dissipated.

- 9.1.7 Checking the internal overload
 - 1. With no power to unit, remove the leads from the compressor terminals.
 - 2. Using an ohmmeter, test continuity between terminals C-S and C-R. If not continuous, the

compressor overload is open and the compressor must be replaced.

9.2 Sealed refrigeration system repairs

- 9.2.1 Equipment require
 - 1. Voltmeter
 - 2. Ammeter
 - 3. Ohmmeter
 - 4. E.P.A. Approved Refrigerant Recovery System.
 - 5. Vacuum Pump (capable of 200 microns or less vacuum.)
 - 6. Acetylene Welder
 - 7. Electronic Halogen Leak Detector (G.E. Type H-6 or equivalent.)
 - 8. Accurate refrigerant charge measuring device such as:
 - a. Balance Scales 1/2 oz. accuracy
 - b. Charging Board 1/2 oz. accuracy
 - 9. High Pressure Gauge (o 400 lbs.)
 - 10. Low Pressure Gauge (30 150 lbs.)
 - 11. Vacuum Gauge (o 1000 microns)
- 9.2.2 Equipment must be capable of:
 - 1. Recovery CFC's as low as 5%.
 - 2. Evacuation from both the high side and low side of the system simultaneously.
 - 3. Introducing refrigerant charge into high side of the system.
 - 4. Accurately weighing the refrigerant charge actually introduced into the system.
 - 5. Facilities for flowing nitrogen through refrigeration tubing during all brazing processes.
- 9.2.3 Hermetic compressor replacement.

The following procedure applies when replacing components in the sealed refrigeration circuit or repairing refrigerant leaks. (Include Compressor, condenser, evaporator, capillary tube, refrigerant leaks, etc.)

1. Recover the refrigerant from the system at the process tube located on the high side of the system by installing a line tap on the process tube. Apply gauge from process tube to EPA approved gauges from process tube to EPA approved recovery system. Recover CFCs in system to at least 5%.

2. Cut the process tube below pinch off on the suction side of the compressor.

3. Connect the line from the nitrogen tank to the suction process tube.

4. Drift dry nitrogen through the system and unsolder the more distant connection first. (Filter drier, high side process tube, etc.)

5. Replace inoperative component, and always install a new filter drier. Drift dry nitrogen through the system when making these connections.

6. Pressurize system to 30 PSIG with proper refrigerant and boost refrigerant pressure to 150 PSIG with dry nitrogen.

7. Leak test complete system with electric halogen leak detector, correcting any leaks found. 8. Reduce the system to zero gauge pressure.

9. Connect vacuum pump to high side and low side of system with deep vacuum hoses, or copper tubing. (Do not use regular hoses.)

10. Evacuate system to maximum absolute holding pressure of 200 microns or less. NOTE: This process can be speeded up by use of heat lamps, or by breaking the vacuum with refrigerant or dry nitrogen at 5,000 microns. Pressure system to 5 PSIG and leave in system a minimum of 10 minutes. Recover refrigerant, and proceed with evacuation of a pressure of 200 microns or a minimum of 10%.

11. Break vacuum by charging system from the high side with the correct amount of refrigerant specified. This will prevent boiling the oil out of the crankcase.

NOTE: If the entire charge will not enter the high side, allow the remainder to enter the low side in small increments while operating the unit.

12. Restart unit several times after allowing pressures to stabilize. Pinch off process tubes, cut and solder the ends. Remove pinch off tool, and leak check the process tube ends.

9.2.4 Special procedure in the case of compressor motor burnout.

1. Recover all refrigerant and oil from the system.

2. Remove compressor, capillary tube and filter drier from the system.

3. Flush evaporator condenser and all connecting tubing with dry nitrogen or equivalent, to remove all contamination from system. Inspect suction and discharge line for carbon deposits. Remove and clean if necessary.

4. Reassemble the system, including new drier strainer and capillary tube.

5. Proceed with processing as outlined under hermetic component replacement.

9.2.5 Rotary compressor special troubleshooting and service

Basically, troubleshooting and servicing rotary compressors is the same as on the reciprocating compressor with only a few exceptions.

1. Because of the spinning motion of the rotary, the mounts are critical. If vibration is present, check the mounts carefully.

2. The electrical terminals on the rotary are in a different order than the reciprocating compressors. The terminal markings are on the cover gasket. Use your wiring diagram to insure correct connections.

9.2.6 Refrigerant charge

1. The refrigerant charge is extremely critical. It must be measured charge carefully - as exact as possible to the nameplate charge.

2. The correct method for charging the rotary is to introduce liquid refrigerant into the high side of the system with the unit off. Then start compressor and enter the balance of the charge, gas only, into the low side.

The introduction of liquid into the low side, without the use of a capillary tube, will cause damage to the discharge valve of the rotary compressor.

NOTE: All inoperative compressors returned to Friedrich must have all lines properly plugged with the plugs from the replacement compressor.

9.3 Fan motor

A single phase permanent split capacitor motor is used to drive the evaporator blower and condenser fan. A self-resetting overload is located inside the motor to protect against high temperature and high amperage conditions.

9.3.1 Fan motor test

1. Determine that capacitor is serviceable.

2. Disconnect fan motor wires from fan speed switch or system switch.

3. Apply "live" test cord probes on black wire and common terminal of capacitor. Motor should run at high speed.

4. Apply "live" test cord probes on red wire and common terminal of capacitor. Motor should run at low speed.

5. Apply "live" test cord probes on each of the remaining wires from the speed switch or system switch to test intermediate speeds.

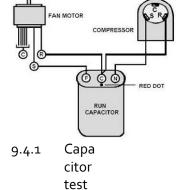
9.4 Capacitor

A run capacitor is wired across the auxiliary and main winding of a single phase permanent split

capacitor motor such as the compressor and fan motor. A single capacitor can be used for each motor or a dual rated capacitor can be used for both.

1	1 /				5 7 1	
Temp.℃	Resistance KΩ	Temp.℃	Resistance KΩ	Temp.℃	Resistance KΩ	characteristics of a motor. The capacitor
-10	62.2756	17	14.6181	44	4.3874	also reduces
-9	58.7079	18	13.918	45	4.2126	the line
-8	56.3694	19	13.2631	46	4.0459	current to the
-7	52.2438	20	12.6431	47	3.8867	motor by
-6	49.3161	21	12.0561	48	3.7348	improving the
-5	46.5725	22	11.5	49	3.5896	power factor
-4	44	23	10.9731	50	3.451	of the load.
-3	41.5878	24	10.4736	51	3.3185	Run capacitor
-2	39.8239	25	10	52	3.1918	hook-up line
-1	37.1988	26	9.5507	53	3.0707	side of the
0	35.2024	27	9.1245	54	2.959	capacitor is
1	33.3269	28	8.7198	55	2.8442	marked with a
2	31.5635	29	8.3357	56	2.7382	red dot and is
3	29.9058	30	7.9708	57	2.6368	wired to the
4	28.3459	31	7.6241	58	2.5397	line side of the
5	26.8778	32	7.2946	59	2.4468	circuit
6	25.4954	33	6.9814	60	2.3577	
7	24.1932	34	6.6835	61	2.2725	
8	22.5662	35	6.4002	62	2.1907	
9	21.8094	36	6.1306	63	2.1124	
10	20.7184	37	5.8736	64	2.0373	<u>(</u>)
11	19.6891	38	5.6296	65	1.9653	Ó
12	18.7177	39	5.3969	66	1.8963	PI
13	17.8005	40	5.1752	67	1.83	CAPA
14	16.9341	41	4.9639	68	1.7665	
15	16.1156	42	4.7625	69	1.7055	9.4.1 Capa
16	15.3418	43	4.5705	70	1.6469	citor

The capacitor's primary function is to reduce the line current while greatly improving the torque



1. Remove capacitor from unit.

2. Check for visual damage such as bulges, cracks, or leaks.

3. For dual rated, apply an ohmmeter lead to common (C) terminal and the other probe to the compressor (HERM) terminal. A satisfactory capacitor will cause a deflection on the pointer, and then gradually move back to infinity.

4. Reverse the leads of the probe and momentarily touch the capacitor terminals. The deflection of the pointer should be two times that of the first check if the capacitor is good.

5. Repeat steps 3 and 4 to check fan motor capacitor.

NOTE: A shorted capacitor will indicate a low resistance and the pointer will move to the "o" end of the scale and remain there as long as the probes are connected.

An open capacitor will show no movement of the pointer when placed across the terminals of the capacitor.

Characteristic of temperature sensor 10

11 Trouble shooting

PROBLEM	POSSIBLE CAUSE	REMEDY
No power display	Power failure	Check the power supplier if the power supplier is supplied to the unit. Check the power cord and correct if damaged.
on panel or any one of the buttons failure.	Transformer (Discharge transformer before testing)	Check resistance between the two input/output lines on transformer. Replace the transformer if either of the input/output is open or the transformer is damaged.
Remote control	Display board or main PCB failure	Check the voltage on display board. Replace the display board if it is +5V else replace the main PCB.
failure.	Battery failure	Check the voltage of battery. Replace batteries if the voltage is lower than 2.3V.
Fan motor runs	Cycles on overload.	Check voltage. Call an electrician if not within limits.

intermittently		Test capacitor.
incentificentify		Replace if not within +/-10% of manufacture's rating.
		Check bearings. Replace the motor if the blower wheel cannot
		rotate freely.
		Pay attention to any change from high speed to low speed.
		Replace the motor if the speed does not change.
		The amount of the refrigerant is too much, making the
Compressor stops	Refrigerant	compressor load too big. Recycle and recharge the refrigerant
instantly after	Kenigerane	after checking for the reason.
startup.		The compressor is blocked inside. Replace after checking for
startop.	Compressor	the reason.
	No power	Check voltage at electrical outlet. Correct if none.
	Water alarm	Check and correct if water alarm happens.
		Check voltage at the power cord terminal on Main PCB.
	Power supply cord	Replace the power cord if none.
		Check resistance between the two input/output lines on
	Transformer (Discharge	transformer. Replace the transformer if either of the
	transformer before testing)	input/output is open or the transformer is damaged.
	Wire disconnected or	Connect wire. Refer to wiring diagram for terminal
Fan motor will not	connection loose	identification. Repair or replace loose terminal.
run.		Select fan speed and Check the voltage on main PCB. Replace
	Main PCB failure	the main PCB if no voltage in anyone.
		Test capacitor.
	Capacitor (Discharge	Replace if not within +/-10% of manufacture's rating. Replace if
	capacitor before testing)	shorted, open or damaged.
	Will not rotate	Fan blower hitting scroll. Realign assembly.
		Check fan motor bearings. Replace the motor if motor shaft do
	will not rotate	not rotate.
	Fan blower	Replace the fan blower if cracked, out of balance, or partially
		missing.
Fan motor noise.	Loose screws	Tighten them.
		Replace the motor if knocking sounds continue when running
	Worn bearings	or loose, or the motor hums or noise appears to be internal while running.
	Voltage	
	voltage	Check voltage. Call Supply Authority if not within limits.
		Check the wire connections, if loose, repair or replace the
	Wiring	terminal. If wires are off, refer to wiring diagram for
		identification, and replace. Check wire locations. If not per
		wiring diagram, correct.
Compressor will	Main PCB failure	Check voltage of main PCB. Replace the main PCB if open.
not run while fan	Capacitor (Discharge	Check the capacitor.
motor runs.	capacitor before testing)	Replace if not within +/-10% of manufacturers rating. Replace
		if shorted, open, or damaged.
	Room temp sensor	Check the temperature setting if not at the coolest (in cooling
	'	mode) or the warmest (in heating mode). Set it if not.
	Compressor	Check the compressor for open circuit or ground. If open or
		arounded replace the compressor
		grounded, replace the compressor.
Excessive noise.		Remove the cabinet and carefully rearrange tubing not to
Excessive noise.	Copper tubing	Remove the cabinet and carefully rearrange tubing not to contact cabinet, compressor, shroud and barrier.
Excessive noise.	Copper tubing Water depth is over load in	Remove the cabinet and carefully rearrange tubing not to contact cabinet, compressor, shroud and barrier. Use a drain hose and a pan to drain the condensed water in the
	Copper tubing Water depth is over load in chassis(P1)	Remove the cabinet and carefully rearrange tubing not to contact cabinet, compressor, shroud and barrier.
Excessive noise. Water full alarm	Copper tubing Water depth is over load in chassis(P1) Water depth sensor if	Remove the cabinet and carefully rearrange tubing not to contact cabinet, compressor, shroud and barrier. Use a drain hose and a pan to drain the condensed water in the chassis.
	Copper tubing Water depth is over load in chassis(P1) Water depth sensor if failure	Remove the cabinet and carefully rearrange tubing not to contact cabinet, compressor, shroud and barrier. Use a drain hose and a pan to drain the condensed water in the chassis. Check and replace if failure.
	Copper tubing Water depth is over load in chassis(P1) Water depth sensor if	Remove the cabinet and carefully rearrange tubing not to contact cabinet, compressor, shroud and barrier. Use a drain hose and a pan to drain the condensed water in the chassis. Check and replace if failure. Check and replace if the motor is failure.
Water full alarm	Copper tubing Water depth is over load in chassis(P1) Water depth sensor if failure	Remove the cabinet and carefully rearrange tubing not to contact cabinet, compressor, shroud and barrier. Use a drain hose and a pan to drain the condensed water in the chassis. Check and replace if failure.
	Copper tubing Water depth is over load in chassis(P1) Water depth sensor if failure shaded pole motor failure	Remove the cabinet and carefully rearrange tubing not to contact cabinet, compressor, shroud and barrier. Use a drain hose and a pan to drain the condensed water in the chassis. Check and replace if failure. Check and replace if the motor is failure.

	Unit undersized	Determine if the unit is properly sized for the area to be cooled
		or heated.
	Condenser and Evaporator	Clean or replace if restricted.
	shaded pole motor failure	Check and replace if the motor is failure.
		Check the fan capacitor and replace if not within +/-10% of
	Fan motor	manufactures rating.
		Clean or remove if any barrier is found to block the inlet/outlet
	Air flow	wind flow of the unit.
	Langua fringmant	Check the tubes for reasons of leakage. Recycle the
	Less refrigerant	refrigerant, correct the leakage points and recharge.
		Regulate the flow if capillary tube and make the evaporating
	Capillary tube	temperature appropriate if the evaporator is frosted. Replace if
	. ,	blocked. Repair joint if leaking.
		The inlet and outlet valve of the compressor is damaged,
		making the low pressure connected with the high pressure.
	Compressor	The refrigerating system can not produce high pressure and
		low pressure. Replace the compressor after checking for the
		reason.
	Heat sources	Reduce if too many.
	No power	Check the voltage. Call an electrician if no within the limit.
	Wiring	Check the terminals. Repair and correct if loose.
	Temperature setting	Check and adjust the temperature setting.
	Mode setting	Check and adjust the mode setting.
No cooling or	9	Check and replace if the compressor, the over-load protector
heating.	Compressor	or wiring is broken.
_	Electric heater failure	Check and replace if the heater is damaged.
	Over heat fuse failure	Check and replace if the fuse is damaged.
		Check the voltage of main PCB. Replace the main PCB when
	Main PCB	the unit failure in heating mode.
	Device events	The input power supply voltage is too low. Call an electrician if
	Power supply	not within limits.
The unit starts and		Check and replace the main PCB if the compressor relay on
stops frequently.	Main PCB	PCB is shorted or damaged.
	De arra temperatura	When the room temperature is too high, the compressor will
	Room temperature	protect.

Exploded View & Parts Listing: MPN-10CRN1-BH9

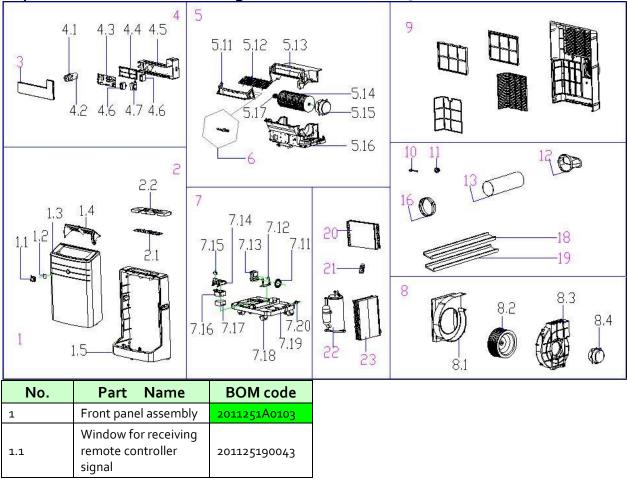
4.1 4.3 4.4 4.5 4.1 4.3 4.4 4.5 5.11 4.2 4.6 4.7 4.6	5.12 5.13 5.17 5.14 5.17 5.15 5.16	
2.2 1.3 1.4 1.1 1.2 2.1 7 7.15 7 7.15 7 7.15 7 7.15 7 7.15 7 7.15 7 7.15 7 7.16 7		12 18 19 8.3 8.4 0 8.4

No.	Part Name	BOM code
1	Front panel assembly	201125190041
1.1	Window for receiving remote controller signal	201125190043
1.2	Receiving board assembly	201325290014
1.3	Front panel	201125190044
1.4	Cover of Air-out frame assembly	201125190039
1.5	Panel(Mid)	201125190042
2	Display box assembly	2033252A0019
2.1	display board assembly	201325490127
3	E-part box cover	201225590019
4	E-Part box assembly	203325390080
4.1	Capacitor clamp	201225590021
4.2	Compressor capacitor	202401000810
4.3	Main control board	201325190032
4.4	Installation board for Main control board	201125190038

4.5Base of control box2012255900204.6Capacitor2024011001224.7Transformer202300901934.7Transformer202300901935.11Inside fan scroll assembly2011251901485.11Bottom holder 1 of indoor Volute Shell2011251900555.12Net cover for Air out frame2011251900545.13Cover of Shell2011002001135.14Cross flow fan assembly20110200135.15Fan motor2024004009785.16Stom holder 2 of indoor Volute Shell2011251900565.17Bearing holder2011251900565.18Sottom holder 2 of indoor Volute Shell2011251900565.19Bottom holder 2 of indoor 2 of indoor Volute Shell2011251900565.14Bearing holder2021251900565.15Bearing holder2011251900567.11Water wheel2011251900527.11Water wheel2011251900487.12Holder for fan motor2012251900197.13Motor2022000027.14Micro switch holder2012251900497.15Micro switch assembly2011251900497.19Chassis assembly2011251900497.19Chassis assembly2011251900497.14Micro switch assembly2012251900117.15Micro switch assembly2011251900497.19Chassis assembly2011251900497.19Ch		1	
4.6Capacitor2024011001224.7Transformer202300901931.nside fan scroll assembly2011251901485Bottom holder t of indoor Volute Shell2011251900555.11Bottom holder t of indoor Volute Shell2012251900105.12Net cover for Air out frame2012251900105.13Cross flow fan assembly2011002001135.14Cross flow fan assembly2011002001135.15Fan motor2024004009785.16Bottom holder 2 of indoor Volute Shell2011251900565.17Bearing holder 2 of indoor Volute Shell2011251900565.18Chassis assembly2011251900517.11Water wheel2011251900527.12Holder for fan motor2012251900197.13Motor2012251900197.14Micro switch holder2011251900487.15Micro switch holder2011251900487.16Dobber case2011251900497.18Universal wheel202725000027.19Chassis corell2011251900497.19Chassis corell2011251901518.1Outdoor volute shell2011251901518.2Outdoor volute shell2011251901518.3Outdoor volute shell2011251901518.4Fan motor2024004009699Rear panel assembly201125190051	4.5		201225590020
4.7Transformer202300901931nside fan scroll assembly2011251901485Bottom holder 1 of indoor Volute Shell2011251900555.11Bottom holder 1 of indoor Volute Shell2012251900105.12Net cover for Air out frame2012251900105.13Cross flow fan assembly2011002001135.14Cross flow fan assembly2011002001135.15Fan motor2024004009785.16Bottom holder 2 of indoor Volute Shell2011251900565.17Bearing holder 2 of indoor Volute Shell2011251900565.18Chassis assembly2011251900567.11Water wheel2011251900527.12Holder for fan motor2012251900197.13Motor2012251900197.14Micro switch holder2011251900487.15Micro switch holder2011251900497.16Dobber case2011251900497.18Universal wheel202725000027.19Chassis assembly2011251900497.19Chassis2011251900497.19Chassis2011251901518.1Outdoor volute shell2011251901518.2Outdoor volute shell2011251901518.3Outdoor volute shell2011251901518.4Fan motor2024004009699Rear panel assembly201125190051 cover	4.6	Capacitor	202401100019
17Inside fan scroll assembly2012 51901485Inside fan scroll assembly2011251901485.11Bottom holder 1 of indoor Volute Shell2011251900555.12Net cover for Air out frame2012251900105.13Cover of indoor Volute Shell2011251900545.14Cross flow fan assembly2011002001135.15Fan motor2024004009785.16Bottom holder 2 of indoor Volute Shell2011251900565.17Bearing holder2027301002016Pin assembly2011251900567.11Water wheel2011251900527.12Holder for fan motor2012251900197.14Micro switch holder2011251900487.15Micro switch holder2021251900197.16Dobber case2011251900487.17Dobber2022251900017.18Universal wheel202725000027.19Chassis2011251900497.20Power cord202400200818Outside fan scroll assembly2011251901548.1Outdoor volute shell2011251901548.2Outdoor volute shell2011251901548.4Fan motor2024004009699Rear panel assembly201125190051	4.6	Capacitor	202401100122
5scroll assembly2011251901485.11Bottom holder 1 of indoor Volute Shell201125190055 Volute Shell5.12Net cover for Air out frame2012251900105.13Cover of indoor Volute Shell2011251900545.14Cross flow fan assembly2011002001135.14Fan motor2024004009785.15Fan motor201251900565.16Bottom holder 2 of indoor Volute Shell2011251900565.17Bearing holder2011251900565.17Bearing holder2011251900567.18Chassis assembly2011251900517.11Water wheel2011251900197.12Holder for fan notor2012251900197.13Motor2012251900197.14Micro switch holder201251900487.15Micro switch holder201251900497.16Dobber case 20125190019201251900497.17Dobber201251900497.18Universal wheel201251900497.19Otutside fan scroll assembly2011251901548.1Outside fan scroll assembly2011251901548.1Outdoor volute shell2011251901518.2Outdoor scroll assembly2011251901518.3Outdoor volute shell2011251900518.4Fan motor2024004009699Rear panel assembly20125190051	4.7	Transformer	202300900193
5.111 of indoor Volute Shell2011251900555.12Net cover for Air out frame2012251900105.13Cover of indoor Volute Shell2011251900545.14Cross flow fan assembly2011002001135.15Fan motor2024004009785.16Softim holder 2 of indoor Volute Shell2011251900565.17Bearing holder assembly2011251900527Bearing holder assembly2011251900527.11Water wheel2011251900527.12Holder for fan motor2012251900197.13Motor20220000217.14Micro switch holder2011251900487.15Micro switch holder2011251900497.17Dobber case2011251900497.18Universal wheel202725000027.19Chassis assembly2011251901518.1Outdoor volute shell2011251901518.1Outdoor volute shell2011251901518.2Outdoor volute shell2011251901518.3Outdoor volute shell2011251901518.4Fan motor2011251901518.4Fan motor2011251900518.4Fan motor2011251900519Rear panel assembly201125190052	5	scroll	201125190148
5.12Air out frame2012251900105.13Cover of indoor Volute Shell2011251900545.14Cross flow fan assembly2011002001135.15Fan motor2024004009785.16Bottom holder 2 of indoor Volute Shell2011251900565.17Bearing holder2027301002016Pin assembly2011251900527.10Bearing holder2011251900527.11Water wheel2011251900467.12Holder for fan motor2012251900197.13Motor20220000217.14Micro switch holder2011251900487.15Micro switch holder2011251900497.16Dobber case2011251900497.18Universal wheel2022251900017.19Chassis2011251900497.19Outside fan scroll assembly2011251901548.1Outdoor volute shell2011251901548.2Outdoor centrifugal fan cover2011251901518.4Fan motor2011251901518.4Fan motor201125190151	5.11	1 of indoor	201125190055
5.13indoor Volute Shell2011251900545.14Cross flow fan assembly2011002001135.15Fan motor2024004009785.16Bottom holder 2 of indoor Volute Shell2011251900565.17Bearing holder2027301002016Pin assembly2011251900827Bearing holder2011251900827.11Bearing holder2011251900467.12Holder for fan motor2012251900197.13Motor202400700217.14Micro switch holder2011251900487.15Micro switch holder2011251900477.16Dobber case2011251900477.17Dobber Case2011251900497.18Universal wheel202725000027.19Chassis2011251900497.20Power cord202402290088.1Outdoor volute shell assembly2011251901548.2Outdoor volute shell cover2011251901518.3Outdoor volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190051	5.12	Air out frame	201225190010
5.14assembly2011002001135.15Fan motor2024004009785.16Bottom holder 2 of indoor Volute Shell2011251900565.17Bearing holder2027301002016Pin assembly2011251900827Chassis assembly2011251900827.11Water wheel2011251900527.12Holder for fan motor2012251900197.13Motor2024007000217.14Micro switch holder2011251900487.15Micro switch2011251900477.17Dobber case2011251900477.18Universal wheel202725000027.19Chassis2011251900497.19Obber2022251900117.18Universal wheel202725000028.1Outside fan scroll assembly2011251901548.1Outdoor volute shell cover2011251901518.2Outdoor volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190051	5.13	indoor Volute	201125190054
bottom Bottom holder 2 of indoor Volute Shell 201125190056 5.17 Bearing holder 202730100201 6 Pin assembly 201125190082 7 Chassis assembly 201125190082 7.11 Water wheel 201125190046 7.12 Holder for fan motor 201225190019 7.13 Motor 202400700021 7.13 Motor 201225190048 7.14 Micro switch holder 201125190048 7.15 Micro switch holder 201225190047 7.17 Dobber case 201125190047 7.18 Universal wheel 20272500002 7.19 Chassis 201125190049 7.20 Power cord 202225190001 7.19 Chassis 201125190049 8.1 Outside fan scroll assembly 201125190151 8.1 Outdoor volute shell 201125190151 8.2 Outdoor centrifugal fan cover 201100100702 8.3 Outdoor volute shell 201125190051 6.4 Fan motor	5.14		201100200113
5.162 of indoor Volute Shell2011251900565.17Bearing holder2027301002016Pin assembly2011251900827Chassis assembly2011251901527.11Water wheel2011251900467.12Holder for fan motor2012251900197.13Motor2024007000217.14Micro switch holder2011251900487.15Micro switch holder2022010017.16Dobber case2011251900477.17Dobber Case2012251900017.18Universal wheel2022251900017.19Chassis202725000027.19Outside fan scroll assembly2011251900498.1Outside fan scroll assembly2011251901548.1Outdoor volute shell2011001007028.2Outdoor volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190052	5.15	Fan motor	202400400978
6 Pin assembly 201125190082 7 Chassis assembly 201125190152 7.11 Water wheel 201125190046 7.12 Holder for fan motor 201225190019 7.13 Motor 202400700021 7.14 Micro switch holder 201125190048 7.15 Micro switch bolder 201125190047 7.16 Dobber case 201125190047 7.17 Dobber 202225190001 7.18 Universal wheel 202725000002 7.19 Chassis 201125190049 7.20 Power cord 20240229008 8 Scroll assembly 201125190154 8.1 Outdoor volute shell 201125190151 8.2 Outdoor volute shell 201125190151 8.3 Outdoor volute shell 201125190051 8.3 Outdoor volute shell 201125190051 6.4 Fan motor 202400400969 9 Rear panel assembly 201125190062	5.16	2 of indoor	201125190056
7 Chassis assembly 201125190152 7.11 Water wheel 201125190046 7.12 Holder for fan motor 201225190019 7.13 Motor 202400700021 7.13 Motor 2023083011 7.14 Micro switch holder 201125190048 7.15 Micro switch 202301830111 7.16 Dobber case 201125190047 7.17 Dobber 202725000002 7.18 Universal wheel 202725000002 7.19 Chassis 201125190049 7.20 Power cord 20240229008 8 Outside fan scroll assembly 201125190154 8.1 Outdoor volute shell 201125190151 8.2 Outdoor centrifugal fan 201100100702 8.3 Outdoor volute shell 201125190051 8.4 Fan motor 20240000969 9 Rear panel assembly 201125190062	5.17	Bearing holder	202730100201
7 assembly 201125190152 7.11 Water wheel 201125190046 7.12 Holder for fan motor 201225190019 7.13 Motor 202400700021 7.13 Motor 202400700021 7.13 Motor 201125190048 7.14 Micro switch holder 201125190048 7.15 Micro switch 202301830111 7.16 Dobber case 201125190047 7.17 Dobber Case 202725000002 7.18 Universal wheel 202725000002 7.19 Chassis 201125190049 7.20 Power cord 202402290008 8 Outside fan scroll assembly 201125190154 8.1 Outdoor volute shell 201125190151 8.2 Outdoor centrifugal fan 201125190051 8.3 Outdoor volute shell 201125190051 8.4 Fan motor 202400400969 9 Rear panel assembly 201125190062	6	Pin assembly	201125190082
7.12 Holder for fan motor 201225190019 7.13 Motor 202400700021 7.13 Motor 201125190048 7.14 Micro switch holder 201125190048 7.15 Micro switch 202225190001 7.16 Dobber case 201125190047 7.17 Dobber Case 202725000002 7.18 Universal wheel 202725000002 7.19 Chassis 201125190049 7.20 Power cord 202402290008 8 Outside fan scroll assembly 201125190154 8.1 Outdoor volute shell 201125190151 8.2 Outdoor centrifugal fan 201125190051 8.3 Outdoor volute shell 201125190051 8.4 Fan motor 202400400969 9 Rear panel assembly 201125190052	7		201125190152
7.12 motor 201225190019 7.13 Motor 202400700021 7.14 Micro switch holder 201125190048 7.15 Micro switch 202301830111 7.16 Dobber case 201125190047 7.17 Dobber Case 20125190001 7.18 Universal wheel 202725000002 7.19 Chassis 201125190049 7.20 Power cord 202402290008 8 Outside fan scroll assembly 201125190154 8.1 Outdoor volute shell 201125190151 8.2 Outdoor centrifugal fan volute shell 201125190051 8.3 Outdoor volute shell 201125190051 8.4 Fan motor 202400400969 9 Rear panel assembly 201125190051	7.11	Water wheel	201125190046
7.14 Micro switch holder 201125190048 7.15 Micro switch bolder 202301830111 7.16 Dobber case 201125190047 7.17 Dobber 202225190001 7.18 Universal wheel 202725000002 7.19 Chassis 201125190049 7.20 Power cord 202402290008 8 Outside fan scroll assembly 201125190154 8.1 Outdoor volute shell 201125190151 8.2 Outdoor centrifugal fan 201100100702 8.3 Outdoor volute shell 201125190051 8.4 Fan motor 202400400969 9 Rear panel assembly 201125190052	7.12		201225190019
7.14 holder 201125190048 7.15 Micro switch 202301830111 7.16 Dobber case 201125190047 7.17 Dobber 202225190001 7.18 Universal wheel 202725000002 7.19 Chassis 201125190049 7.20 Power cord 202402290008 8 Outside fan scroll assembly 201125190154 8.1 Outdoor volute shell 201125190151 8.2 Outdoor centrifugal fan volute shell 201125190051 8.3 Outdoor volute shell 201125190051 8.4 Fan motor 202400400969 9 Rear panel assembly 201125190062	7.13	Motor	202400700021
7.16 Dobber case 201125190047 7.17 Dobber 202225190001 7.18 Universal wheel 202725000002 7.19 Chassis 201125190049 7.20 Power cord 202402290008 8 Outside fan scroll assembly 201125190154 8.1 Outdoor volute shell 201125190151 8.2 Outdoor centrifugal fan volute shell 201100100702 8.3 Outdoor volute shell 201125190051 8.4 Fan motor 202400400969 9 Rear panel assembly 201125190052	7.14		201125190048
7.17Dobber2022251900017.18Universal wheel2027250000027.19Chassis2011251900497.20Power cord2024022900088Outside fan scroll assembly2011251901548.1Outdoor volute shell2011251901518.2Outdoor centrifugal fan volute shell2011001007028.3Outdoor volute shell201125190051 cover8.4Fan motor2024004009699Rear panel assembly201125190062	7.15	Micro switch	202301830111
7.18Universal wheel2027250000027.19Chassis2011251900497.20Power cord2024022900087.20Power cord2024022900088Outside fan scroll assembly2011251901548.1Outdoor volute shell2011251901518.2Outdoor centrifugal fan cover2011001007028.3Outdoor volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190062	7.16	Dobber case	201125190047
7.18Universal wheel2027250000027.19Chassis2011251900497.20Power cord2024022900088Outside fan scroll assembly2011251901548.1Outdoor volute shell2011251901518.2Outdoor centrifugal fan cover2011001007028.3Outdoor centrifugal fan2011251900518.4Fan motor2024004009699Rear panel assembly201125190052	7.17	Dobber	202225190001
7.20Power cord2024022900087.20Power cord2024022900088Outside fan scroll assembly2011251901548.1Outdoor volute shell2011251901518.2Outdoor centrifugal fan cover2011001007028.3Outdoor volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190062	7.18		202725000002
NoticeNotice8Outside fan scroll assembly2011251901548.1Outdoor volute shell2011251901518.2Outdoor centrifugal fan2011001007028.3Outdoor centrifugal fan2011001007028.3Outdoor volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190062	7.19	Chassis	201125190049
8scroll assembly201125190154 assembly8.1Outdoor volute shell2011251901518.2Outdoor centrifugal fan volute shell cover2011001007028.3Outdoor volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190062	7.20	Power cord	202402290008
8.1volute shell2011251901518.2Outdoor centrifugal fan2011001007028.3Outdoor volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190062	8	scroll	201125190154
8.2centrifugal fan2011001007028.3Outdoor volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190062	8.1		201125190151
8.3volute shell cover2011251900518.4Fan motor2024004009699Rear panel assembly201125190062	8.2	centrifugal fan	201100100702
9 Rear panel assembly 201125190062	_	volute shell cover	201125190051
9 assembly 201125190062	8.4	Fan motor	202400400969
10 Drain stopper 202725490002	9		201125190062
	10	Drain stopper	202725490002

11	Fixing joint for water drain	201125490271
12	Air discharger	201125690024
13	Outdoor wind discharging pipe	201125190159
16	Air Outlet Tie-in	201125190130
18	Window sealing board I	201125090001
19	Window sealing board II	201125090002
20	Evaporator	201525390078
21	Remote contrller	2033550A3695
22	Compressor	201402000490
23	Condenser	201525390089

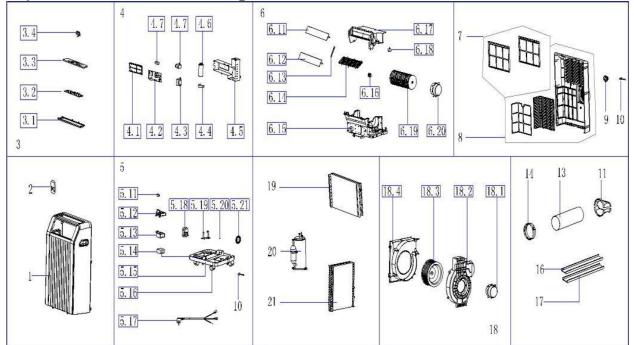
Exploded View & Parts Listing: MPN1-08CRN1-BH9



	1	1
1.2	Receiving board assembly	201325290014
1.3	Front panel	201125190044
1.4	Cover of Air-out frame assembly	201125190039
1.5	Panel(Mid)	201125190042
2	Display box assembly	2033252A0019
2.1	display board assembly	2013254A0011
2.2	control panel	201125190157
3	E-part box cover	201225590019
4	E-Part box assembly	203325190028
4.1	Capacitor clamp	201225590021
4.2	Compressor capacitor	202401090005
4.3	Main control board	201325190032
-+·J	Installation board for	
4.4	Main control board	201125190038
4.5	Base of control box	201225590020
4.6	Capacitor	202401100122
4.6	Capacitor	202401100019
4.7	Transformer	202300900193
5	Inside fan scroll assembly	201125190148
5.11	Bottom holder 1 of indoor Volute Shell	201125190055
5.12	Net cover for Air out frame	201225190010
5.13	Cover of indoor Volute Shell	201125190054
5.14	Cross flow fan assembly	201100200113
5.15	Fan motor	202400400978
5.16	Bottom holder 2 of indoor Volute Shell	201125190056
5.17	Bearing holder	202730100201
6	Pin assembly	201125190082
7	Chassis assembly	2011251A0104
7.11	Water wheel	201125190046
7.12	Holder for fan motor	201225190019
7.13	Motor	202400700021
7.14	Micro switch holder	201125190048
7.15	Micro switch	202301830111
7.16	Dobber case	201125190047
7.17	Dobber	202225190001
7.18	Universal wheel	202725000002
7.19	Chassis	201125190049
7.20	Power cord	2024022A0195
8	Outside fan scroll assembly	201125190154
8.1	Outdoor volute shell	201125190151
0.1		-01120130131

8.2	Outdoor centrifugal fan	201100100702
8.3	Outdoor volute shell cover	201125190051
8.4	Fan motor	202400400969
9	Rear panel assembly	201125190062
10	Drain stopper	202725490002
11	Fixing joint for water drain	201125490271
12	Air discharger	201125690024
13	Outdoor wind discharging pipe	201125190159
16	Air Outlet Tie-in	201125190130
18	Window sealing board I	201125090001
19	Window sealing board II	201125090002
20	Evaporator	201525590024
21	Remote contriler	2033550A3095
22	Compressor	201402000570
23	Condenser	201525190039

Exploded View & Parts Listing: MPN1-10CRN1-BH9



No.	Part Name	BOM code
1	Front panel	2011252A0068
2	Remote controller	2033550A3478
3	Display box assembly	2033252A0023
3.1	Display box cover	201125290003
3.2	Display board assembly	201325490141
3.3	Control panel	201125290029

3.4	Window for receiving remote controller signal	201125590042
4	E-Part box assembly	203325390081
4.1	Installation board for Main control board	201125190038
4.2	Main control board	201325190034
4.3	Transformer	202300900193
4.4	Capacitor clamp	201225590021
4.5	Base of control box	201225590020
4.6	Compressor capacitor	202401000810
4.7	Capacitor, Fan Motor	202401100122
4.7	Capacitor, Fan Motor	202401100019
5	Chassis assembly	2011251A0112
5.11	Micro switch	202301830111
5.12	Micro switch holder	201125190071
5.13	Dobber case	201125190072
5.14	Dobber	202225190001
5.15	Chassis	201125190070
5.16	Universal wheel	202725000002
5.17	Power cord assembly	2024022A0228
5.18	Motor	202400700021
5.19	Holder for fan motor	201225190019
5.20	Spring	201225490030
5.21	Water wheel	201125290026
6	Inside fan scroll assembly	201125190150
6.11	Horizontal louver,up	201125290035
6.12	Horizontal louver,down	201125290036
6.13	Louver holder assembly	201125290016
6.14	Net cover for Air out frame	201225290004
6.15	Bottom holder of indoor Volute Shell	201125290007
6.16	Bearing holder	202730100201
6.17	Indoor Volute Shell	201125290008

6.18	Louver motor	202400200039
6.19	Cross flow fan assembly	201100200114
6.20	Fan motor	202400400978
7	indoor frame assembly	201125290031
8	Rear panel assembly	201125290032
9	Fixing joint for water drain	201125490271
10	Drain stopper	202725490002
10	Drain stopper	202725490013
11	Air discharger	201125690024
13	Outdoor wind discharging pipe	201125190159
14	Air Outlet Tie-in(round)	201125190130
16	Window sealing board I	201125090001
17	Window sealing board II	201125090002
18	Outside fan scroll assembly	201125190149
18.1	Fan motor	202400400969
18.2	Outdoor volute shell	201125290024
18.3	Outdoor centrifugal fan	201100100702
18.4	Outdoor volute shell cover	201125290025
19	Evaporator	201525190035
20	Compressor	201402000490
21	Condenser	201525290060