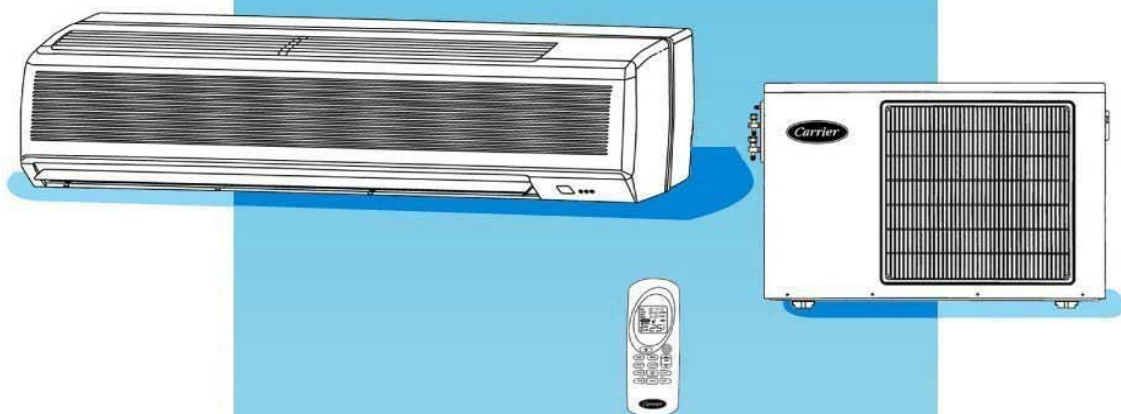




# 53QH



**(E) SERVICE & MAINTENANCE MANUAL**



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## 1. PRECAUTIONS BEFORE INSTALLATION

### SAFETY CONSIDERATIONS

- Service and maintenance of air conditioning equipment can be hazardous due to system pressures and electrical components. Only trained and qualified service personnel should install, repair or service the air conditioning equipment.
- When working on air conditioning equipment, observe precautions in the literature, tags and labels attached to the unit and other safety codes.
- Wear safety glasses and gloves. Use quenching cloth and have fire extinguisher available for all brazing operations



### WARNING

- This manual describes the service and maintenance of Carrier split room air conditioner consisting of an outdoor unit and an indoor unit manufactured by Carrier.

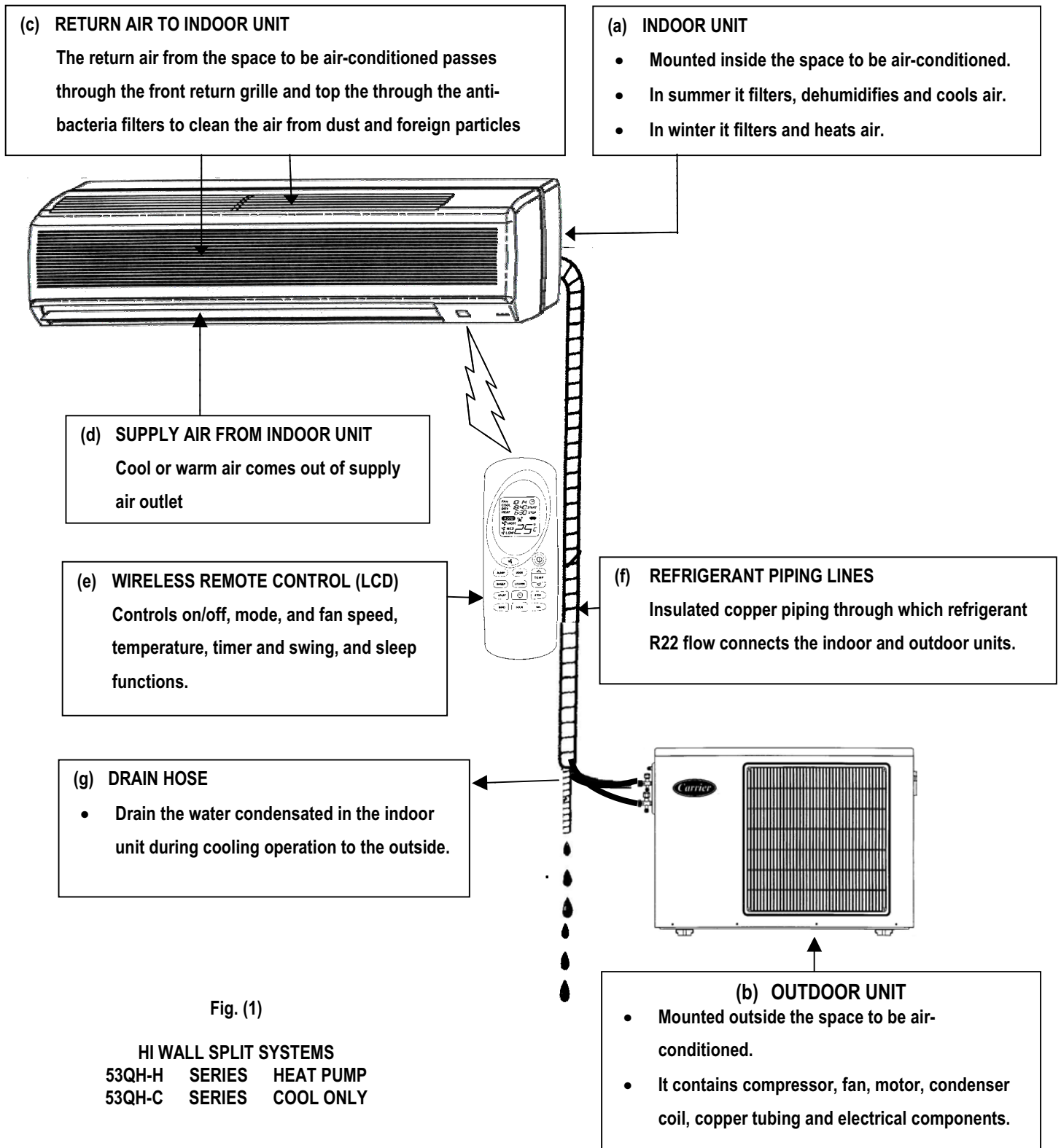
What is not covered in Carrier warranty?

- 1- Failure due to Misuse: Abusing, overloading, careless handling and negligence.
- 2- Failure due to Accident / Weather: Natural catastrophe, accident due to bad weather (Hail Storm, Sand Storm, lightning, Flooding, Acid Rain and Air Borne fallout, etc).
- 3- Failure due to Damages during transport.
- 4- Failure due to modification: Any modifications done on the unit without Carrier consent.
- 5- Failure due to Improper Installation: Installation should be performed according to standard.  
  
The decision of Carrier in ascertaining the same will be final. Carrier or its approved dealer should do installation.
- 6- Failure due to Improper Maintenance: Lack of professional maintenance, improper adjustments, use of improper consumables, filters, spare parts other than specified in the Carrier manuals.
- 7- Failure due to use of non-genuine Carrier Parts, substitute other than Carrier parts.
- 8- Refrigerant normal noise, wear and tear of deterioration.
- 9- Inconvenience or commercial loss is not covered.

The decision of Carrier in ascertaining the same will be final. Any such repairs will be carried out at the expense of the purchaser.

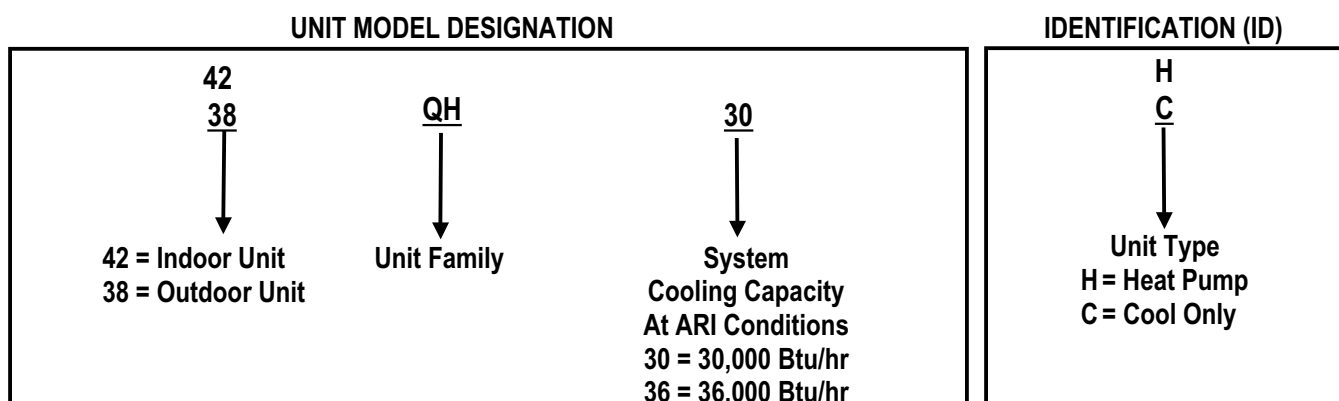


## 2. SPLIT SYSTEM DESCRIPTION





### 3. UNIT MODEL DESIGNATION & IDENTIFICATION



### 4. UNIT MODELS & PART NUMBERS

#### INDOOR UNIT

##### Heat Pump

Model	P/N	ID
42QH30-H	46303188	H
42QH36-H	46303189	H

##### Cool Only

Model	P/N	ID
42QH30-C	46303186	C
42QH36-C	46303187	C

#### OUTDOOR UNIT

##### Heat Pump

Model	P/N	ID
38QH30-H	46302173	H
38QH36-H	46302177	H

##### Cool Only

Model	P/N	ID
38QH30-C	46302179	C
38QH36-C	46302178	C



## 5. SYSTEM OPERATING LIMITS

### COOLING

Difference	Dry Bulb Temp. C°	Wet Bulb Temp. C°
Indoor temperature Maximum	32	23
Indoor temperature Minimum	21	15
Outdoor temperature Maximum	55	-
Outdoor temperature Minimum	21**	-

### HEATING

Difference	Dry Bulb Temp. C°	Wet Bulb Temp. C°
Indoor temperature Maximum	27	-
Outdoor temperature Maximum	21	-

### MAIN POWER SUPPLY

System Model	Nominal Power Supply V/1PH/50HZ	Minimum Voltage	Maximum Voltage
Min. Voltage	200-240	180	264
Max. Voltage	220-240	198	264

#### NOTES:

- \* When the unit is operated above or below these limits for a long time, system diagnostics may detect a malfunction and the unit will not operate properly.

## 6. SYSTEM SAFETY PROTECTIONS

### 6-1 FOR HEAT PUMP SYSTEM

PROTECTION TYPE	PROTECTION EFFECT	OPERATION MODE	WHEN ON
Cold draft prevention	Indoor fan off	Heating mode	During unit operation
Defrost cycle	Indoor fan off	Heating mode	During unit operation
Indoor coil Freeze protection	Compressor off	Cooling mode	During unit operation
Against frequent Compressor cycling	Compressor Time delay	Cooling or heating modes	At unit start-up or change of operating mode

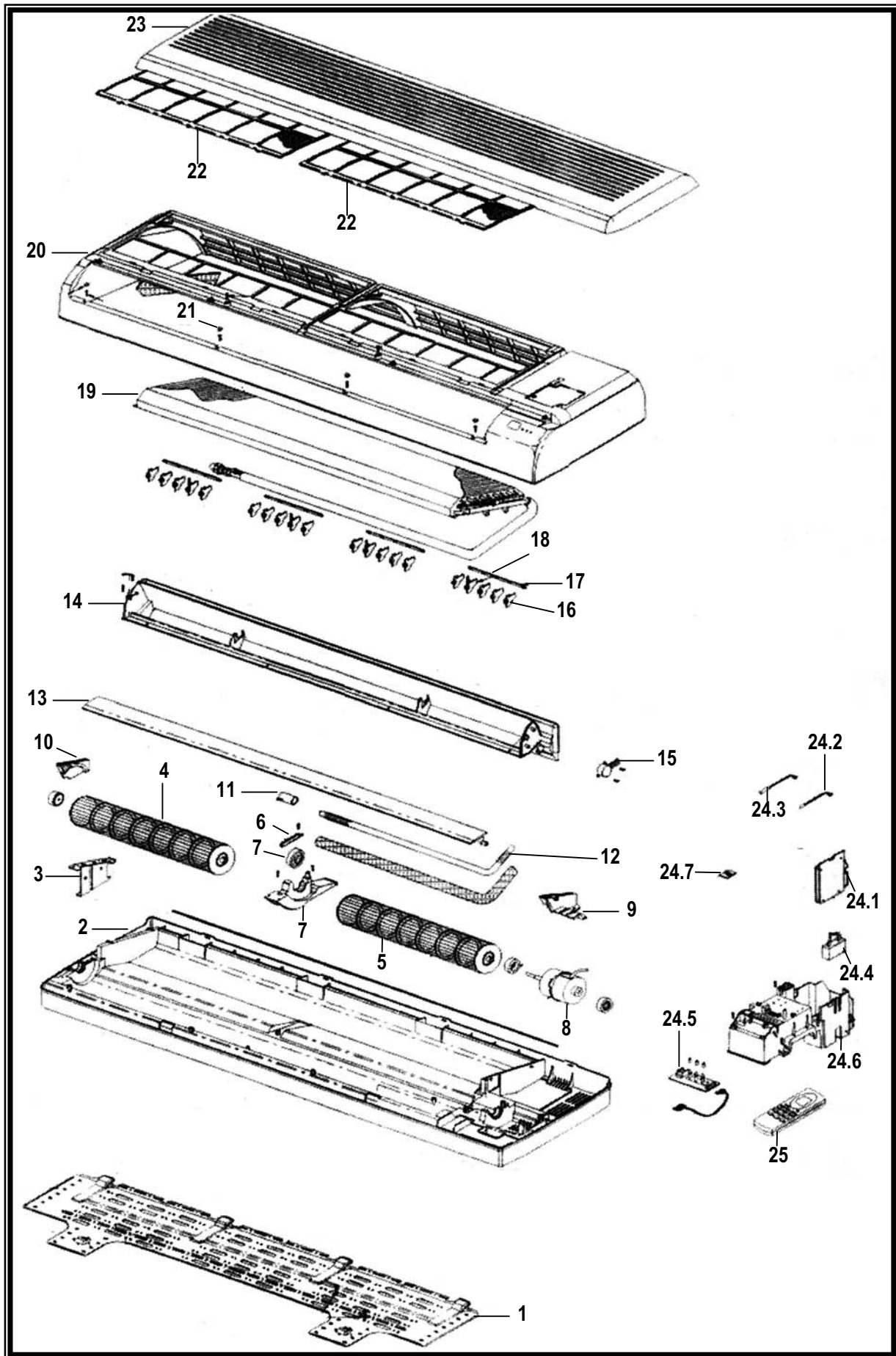
### 6-2 FOR COOL ONLY SYSTEM

PROTECTION TYPE	PROTECTION EFFECT	OPERATION MODE	WHEN ON
Indoor coil Freeze protection	Compressor off	Cooling mode	During unit operation
Against frequent Compressor cycling	Compressor Time delay	Cooling mode	At unit start-up or change of operating mode

#### WARNING:

During heat pump operation the system will undergo several defrost cycles to remove ice that might collect on the outdoor unit in very low ambient temperature. In these cycles, the indoor fan will be automatically off and cannot operate until defrost cycle is completed.

## 7. EXPLODED VIEW OF INDOOR UNIT



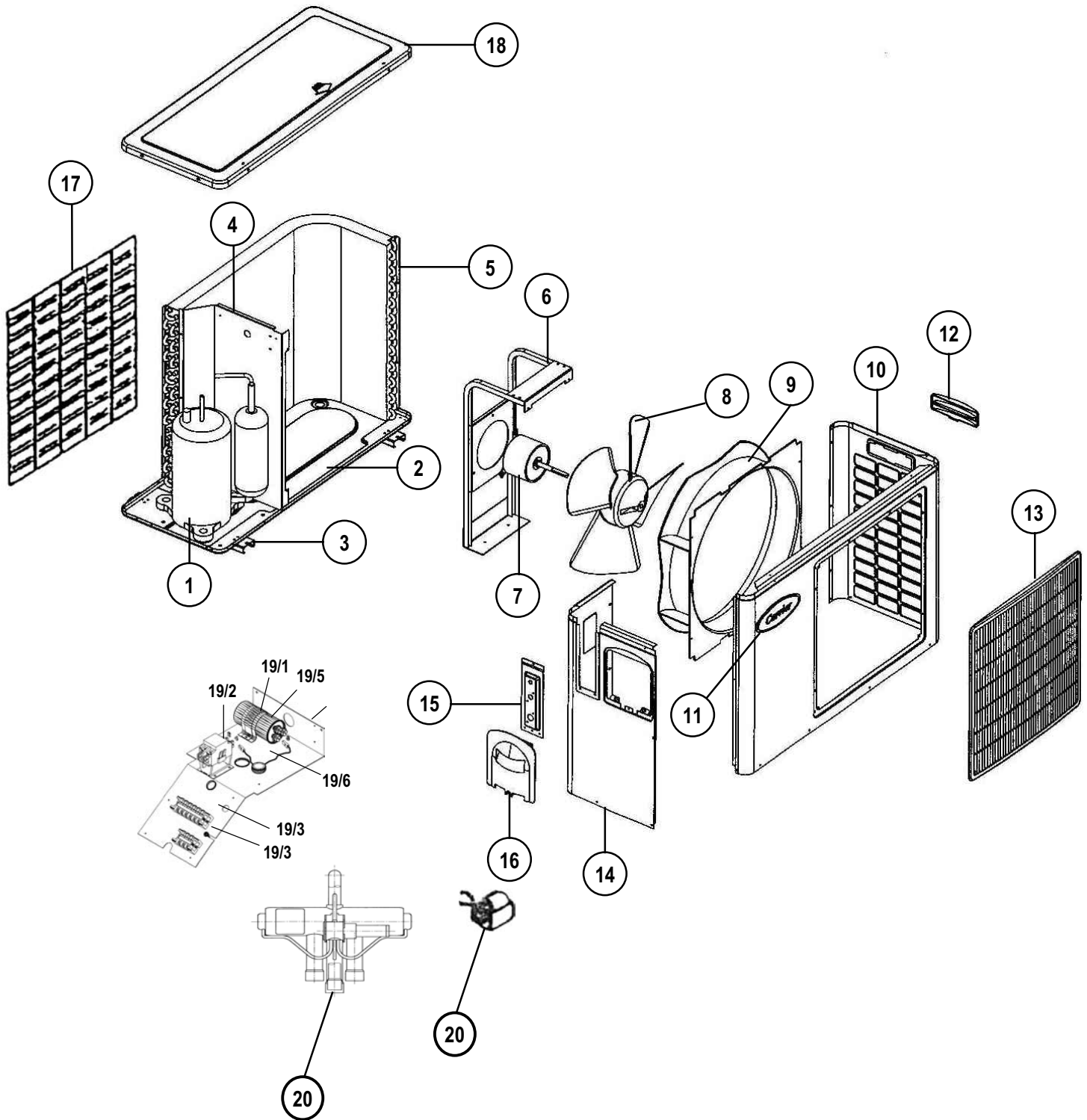


## 8. PART LIST OF INDOOR UNIT

NO.	PART NAME	PART NUMBER	QUANTITY / UNIT			
			42QH- H		42QH- C	
			30	36	30	36
1	Mounting Bracket	02802426	1	1	1	1
2	Base Pan	02802427	1	1	1	1
3	End Plate Support – L	02802425	1	1	1	1
4	Blower L	02802434	1	1	1	1
5	Blower R	02802435	1	1	1	1
6	Bracket Motor	02802422	3	3	3	3
7	Center Bearing W/Bracket	02802423	1	1	1	1
8	Motor	02400017	1	1	1	1
9	Evap. Support-R	02802433	1	1	1	1
10	Evap. Support-L	02802432	1	1	1	1
11	Drain Hose Connector	02802399	1	1	1	1
12	Drain Hose	02802398	1	1	1	1
13	Horizontal Louver	02802424	1	1	1	1
14	Drain Pan	02802428	1	1	1	1
15	Step Motor MP35	02400015	1	1	1	1
16	Deflector	02802430	16	16	16	16
17	Bar Gang	02802431	4	4	4	4
18	Deflector with Arm	02802429	4	4	4	4
19	Evap. Coil-3R x 5C x 3/8"	02600159	1	1	1	1
20	Frame Grille	02802436	1	1	1	1
21	Screw Cover	02802400	4	4	4	4
22	Air Filter	02802401	2	2	2	2
23	Decorative Panel	02802437	1	1	1	1
24	Control Box Assy					
24.1	Main PCB Cool/Heat	02503154	1	1		
	Main PCB Cool Only	02503186			1	1
24.2	Return Air Sensor	02503149	1	1	1	1
24.3	Indoor Coil Sensor	02503150	1	1	1	1
24.4	Capacitor 2.5 MF/ 450VAC	02400016	1	1	1	1
24.5	Lamp PCB/IR Receiver	02503151	1	1	1	1
24.6	Control Box	02503156	1	1	1	1
24.7	Auxiliary Switch	02503163	1	1	1	1
24.8	Wire Harness – Auxiliary Switch	02503162	1	1	1	1
24.9	Wire Harness – Lamp PCB	02503164	1	1	1	1
24.10	Extension Wire 8M	02503153	1	1		
25	Remote Control Cool / Heat	02503155	1	1		
	Remote Control Cool Only	02503178			1	1
26	Battery size AAA-15.V	02501125	2	2	2	2



## 9. EXPLODED VIEW OF OUTDOOR UNIT



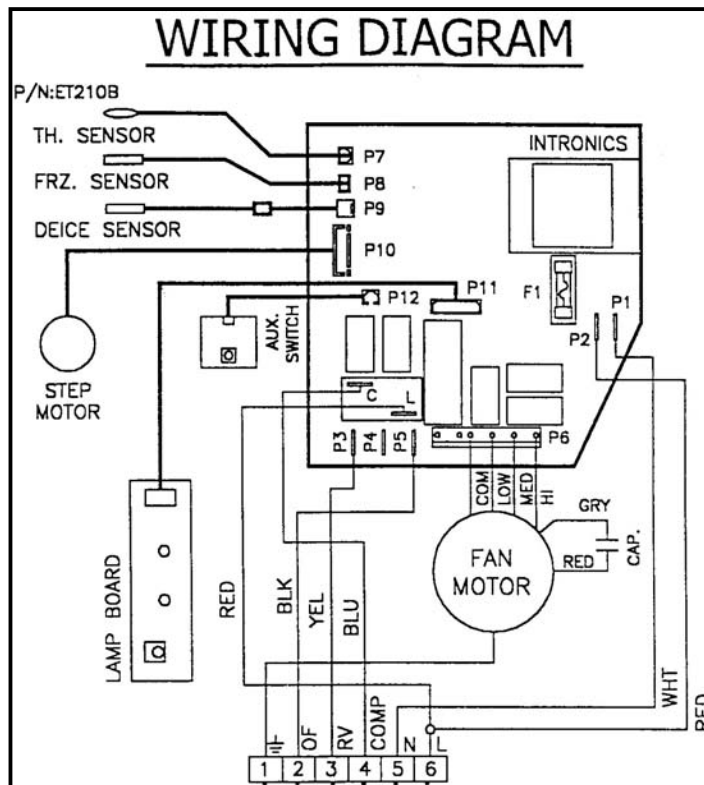


## 10. PART LIST OF OUTDOOR UNIT

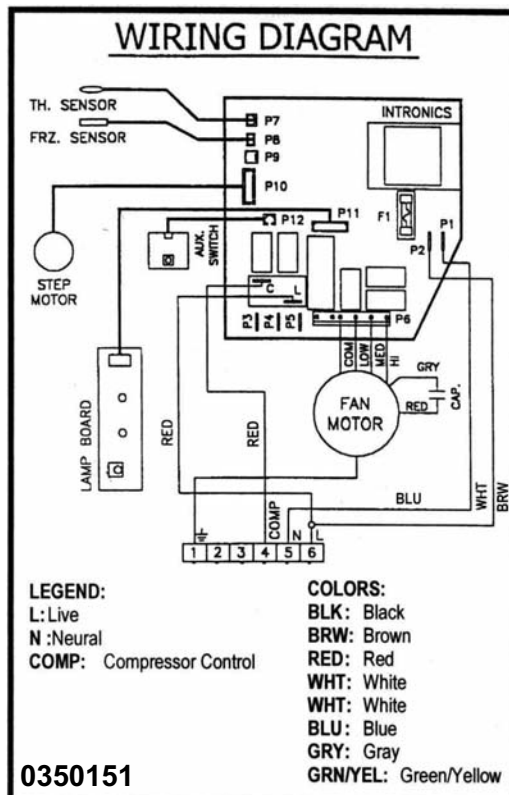
SR.	DESCRIPTION	PART NUMBER	QTY./UNIT			
			38QH-H		38QH-C	
			30	36	30	36
<b>1</b>	<b>COMPRESSOR COMPLETE WITH GROMMETS &amp; SPACERS</b>					
1.1	Copeland Comp. CR37KQ-PFT	01500256	1		1	
1.2	Copeland Comp. CR47KQ-PFZ	01500172		1		1
<b>2</b>	<b>COND. BASE</b>	<b>08107402</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>3</b>	<b>SUPPORTING LEG ASSY</b>	<b>36314043</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b>4</b>	<b>COND. PARTITION</b>	<b>06307407</b>	<b>1</b>		<b>1</b>	
		<b>06307436</b>		<b>1</b>		<b>1</b>
<b>5</b>	<b>CONDENSER COIL SUBASSY.</b>					
5.1	Cond. Coil 2 Row – 33.15" x 22" - 14FPI	02600234	1		1	
5.2	Cond. Coil 2 Row – 33.15" x 28" - 15FPI	02600231		1		1
<b>6</b>	<b>CONDENSER MOTOR SUPPORT SUBASSY.</b>	<b>36313880</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>7</b>	<b>CONDENSER MOTOR</b>					
7.1	Motor 1/10 HP-880 RPM	02400154	1		1	
7.2	Motor 1/5 HP-860 RPM	02400179		1		1
<b>8</b>	<b>PROPELLER C/W SOCKET SET SCREW 8 X 8 MM</b>	<b>02600441</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>9</b>	<b>ORIFICE PROPELLER</b>	<b>02803112</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>10</b>	<b>COND. SHROUD</b>	<b>08107406</b>	<b>1</b>		<b>1</b>	
		<b>06307435</b>		<b>1</b>		<b>1</b>
<b>21</b>	<b>CARRIER LOGO</b>	<b>02900615</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>12</b>	<b>HANDLE</b>	<b>02803110</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>13</b>	<b>GUARD PROPELLER</b>	<b>02803113</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>14</b>	<b>COND. BACK PANEL</b>	<b>06307409</b>	<b>1</b>		<b>1</b>	
		<b>06307434</b>		<b>1</b>		<b>1</b>
<b>15</b>	<b>COUPLING PANEL</b>	<b>06307410</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>16</b>	<b>SERVICE DOOR</b>	<b>02803106</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>17</b>	<b>COIL GUARD</b>	<b>02803114</b>	<b>1</b>		<b>1</b>	
		<b>02803115</b>		<b>1</b>		<b>1</b>
<b>18</b>	<b>COND. COVER</b>	<b>08107400</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>19</b>	<b>ELECTRICAL BOX SUBASSY</b>	<b>36314125</b>	<b>1</b>			
		<b>36314097</b>		<b>1</b>		
		<b>36314223</b>			<b>1</b>	
		<b>36314222</b>				<b>1</b>
19.1	DUAL CAPACITOR					
19.1.1	Dual Capacitor 50 + 5 MFD/440 VAC	02400379	1		1	
19.1.2	Dual Capacitor 60 + 5 MFD/440 VAC	02400377		1		1
19.2	CONTACTOR FOR COMPRESSOR					
19.2.1	Contactactor 2 poles – 25 Amps	02400580	1		1	
19.2.2	Contactactor 2 poles – 30 Amps	02400572		1		1
19.3	TERMINAL BLOCKS					
19.3.1	Terminal Block 6 Poles-30 Amps	02501433	1	1		
19.3.2	Terminal Block 4 Poles-30 Amps	02501405			1	1
19.3.3	Terminal Block 3 Poles-30 Amps	02501315	1	1	1	1
19.4	COND. ELECTRICAL BOX	06307405	1	1	1	1
19.5	CAPACITOR CLAMP	02804078	1	1	1	1
19.6	SUPPORT CABLE	02802523	1	1	1	1
19.7	WIRE HARNESS SET	02500879	1		1	
		02500872		1		1
19.8	PTC STARTER FOR COMPRESSOR					
19.8.1	PTC Starter Model SPP POW-R-PAK	02501579	1		1	
19.8.2	PTC Starter Model SPP5	02501578		1		1
19.9	LOW PRESSURE CONTROL	02400638	1	1	1	1
19.10	PILOT LIGHT FOR LOW PRESSURE CONTROL	02502315	1	1	1	1
<b>20</b>	<b>REVERSING VALVE &amp; ELECTRIC COIL</b>	<b>02200404</b>	<b>1</b>			
		<b>02200406</b>		<b>1</b>		
<b>21</b>	<b>ACCUMULATOR</b>	<b>02301012</b>	<b>1</b>			
		<b>02301013</b>		<b>1</b>		
<b>22</b>	<b>SENSOR – OUTDOOR COIL</b>	<b>02503015</b>	<b>1</b>	<b>1</b>		
<b>23</b>	<b>TUBING</b>	<b>36314124</b>	<b>1</b>			
		<b>36314096</b>		<b>1</b>		
		<b>36313934</b>			<b>1</b>	
		<b>36314193</b>				<b>1</b>

## 11. WIRING DIAGRAMS

INDOOR UNIT 42QH-H SERIES HEAT PUMP  
WIRING DIAGRAM

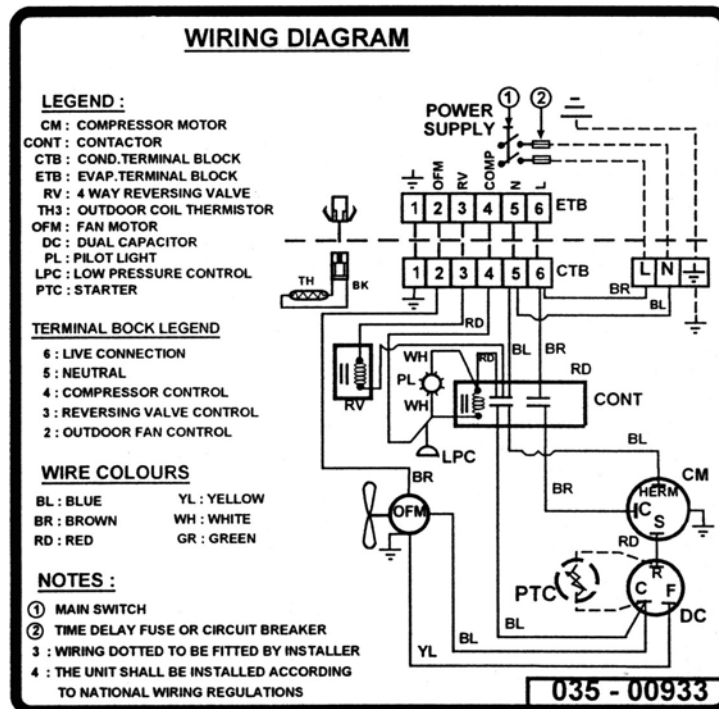


INDOOR UNIT 42QH-C SERIES COOL ONLY  
WIRING DIAGRAM

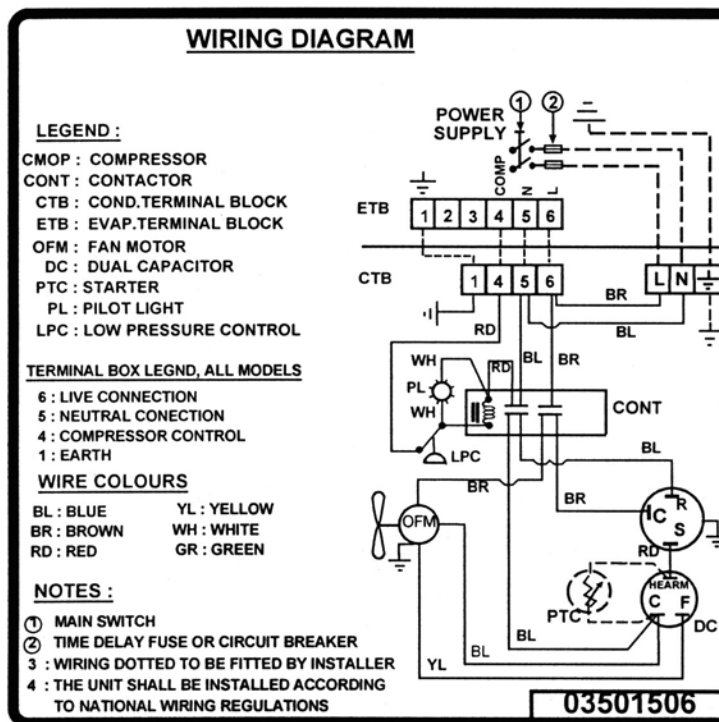


## WIRING DIAGRAMS (CONT.)

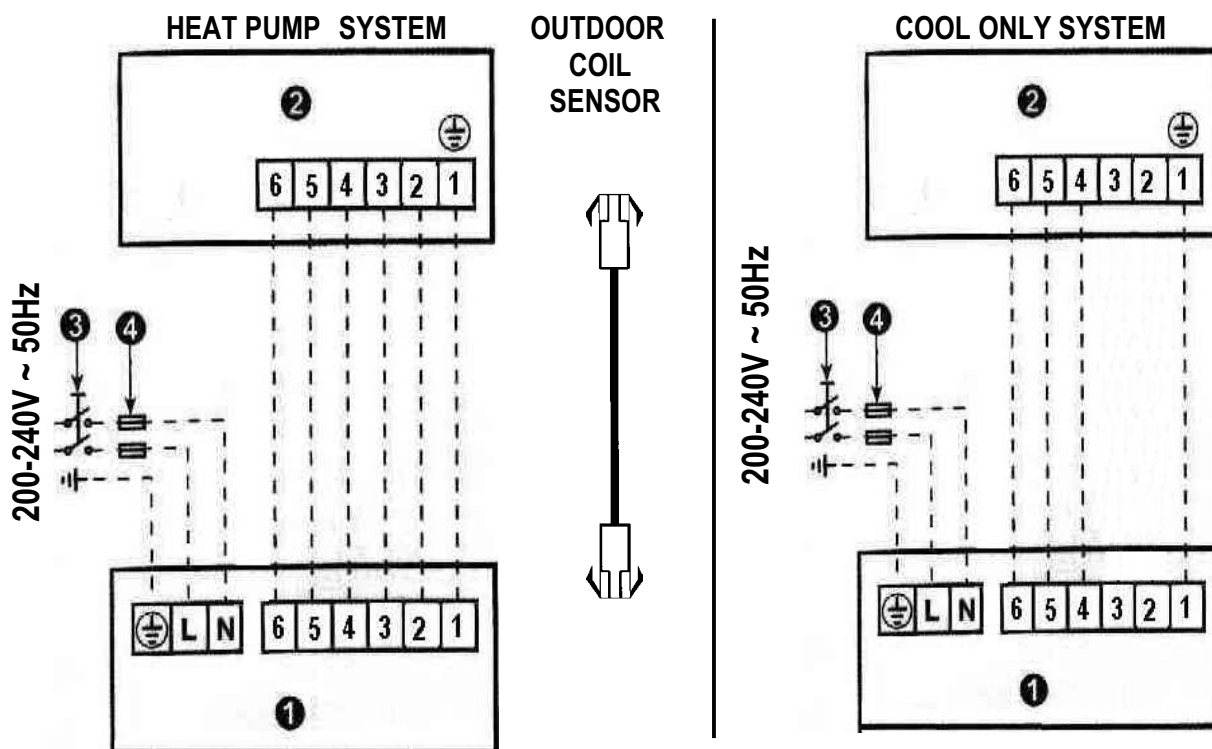
### OUTDOOR UNIT 38QH-H SERIES HEAT PUMP WIRING DIAGRAM



### OUTDOOR UNIT 38QH-C SERIES COOL ONLY WIRING DIAGRAM



## 12. FIELD ELECTRICAL CONNECTIONS MATCHING



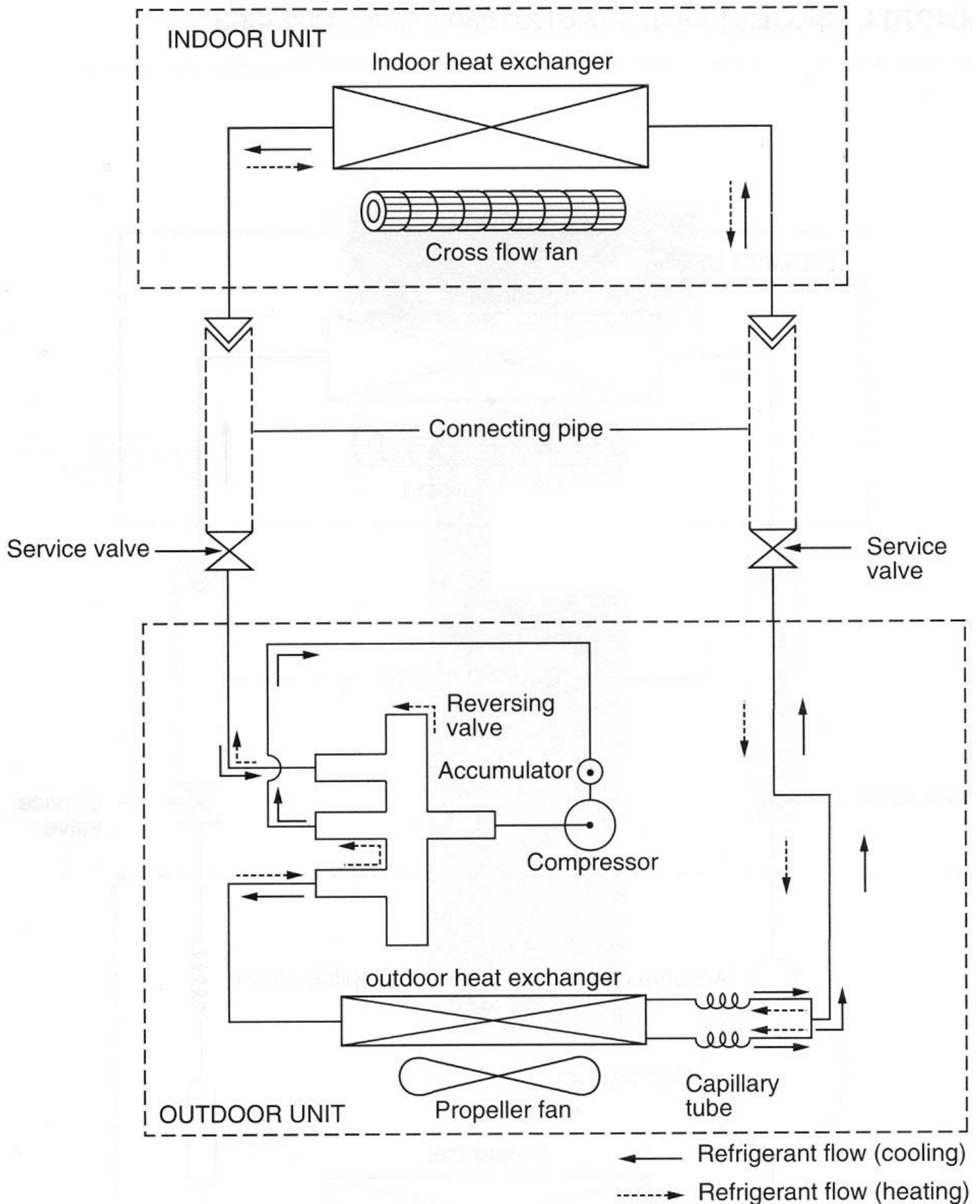
### LEGEND

- ① Outdoor Unit
- ② Indoor Unit
- ③ Main Switch
- ④ Time-delay fuse or circuit breaker
- ⊥ Earth
- L Live power supply.
- N Neutral power supply.
- 6 Live connection indoor/outdoor unit.
- 5 Neutral connection indoor/outdoor unit
- 4 Compressor control.
- 3 Reversing valve control (Only for heat pump system)
- 2 Outdoor fan motor control (Only for heat pump system)
- 1 Earth

**Note:** The mains supply must be connected to the outdoor unit.

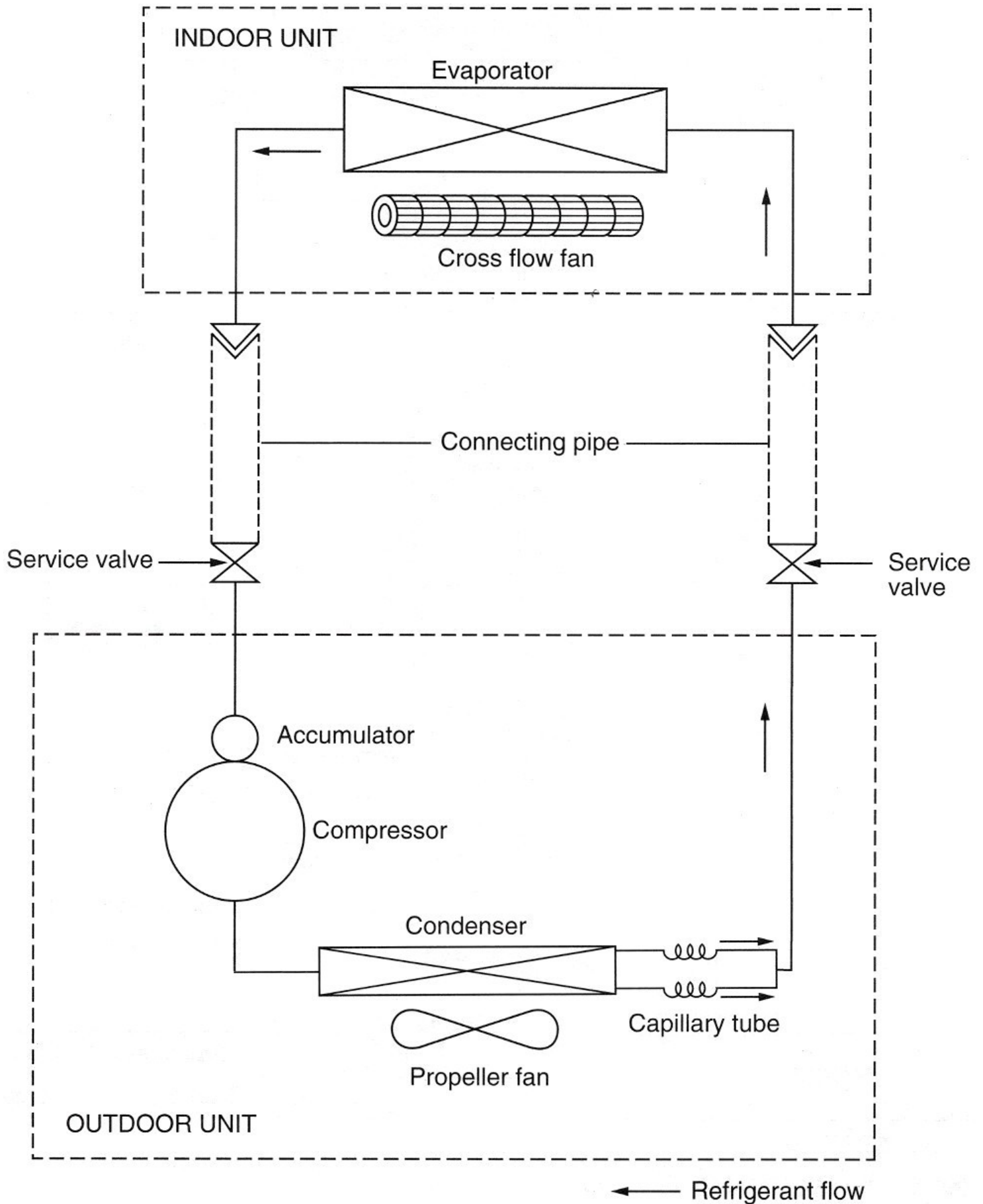
## 13. REFRIGERATION CYCLE

### HEAT PUMP SYSTEM



## REFRIGERATION CYCLE (Cont.)

### COOL ONLY SYSTEM





## 14. SELF DIAGNOSTIC FUNCTION


### 14-1 INTRODUCTION

- Self-diagnostic function is the key for success of heat pump system.
- The printed circuit boards existing inside the indoor unit are equipped with self-diagnostic function to detect malfunction and automatically stops the operation at the air conditioner after blinking of power or timer led as per malfunction.

### 14-2 SELF DIAGNOSTIC FUNCTION

**The self-diagnostic function included in the control system detects malfunctions of the following components:**

- (1) Return Air Sensor
- (2) Indoor Coil Sensor
- (3) Outdoor Coil Sensor
- (4) Compressor Drive
- (5) Anti-overheat
- (6) Low ambient


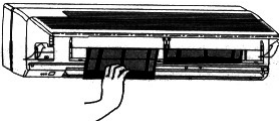
			
No.	Malfunction Reason	Power Led	Timer Led
1	Return Air Sensor	-	Blinking
2	Indoor Coil Sensor	-	Blinking
3	Outdoor Coil Sensor	-	Blinking
4	Compressor Overload	Blinking	-
5	Anti-overheat	Blinking	-
6	Low ambient	Blinking	-



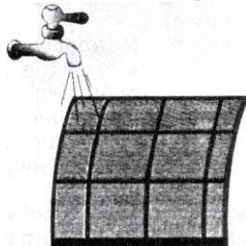
## 15. AIR FILTER CLEANING

- The air filters supplied with the unit are high-efficiency washable and recyclable filters.
- To establish, how frequently these should be cleaned, the operating conditions must be taken in to account.

### - REMOVAL OF AIR FILTERS FOR CLEANING:

<p>Open the return grille without removing the two screws and the central clamp from their position.</p>	
<p>Remove acrylic-fiber filters for cleaning.</p>	

### - CLEANING OF ACRYLIC-FIBRE STANDARD FILTERS:

<p>First clean the filter with a vacuum cleaner every month.</p> 	<p>Rinse filter under running water, and dry it</p> 
---	---

- Notes: (1) After cleaning, put the filters back in the correct positions.  
 (2) Before operating the air conditioner, check that air filters are in their places inside unit.



## 16. PERIODICAL CHECKS

---

For a good operation of the air conditioner it is recommended to carry out checks and maintenance as indicated.

Recommended maintenance intervals may vary depending on the installation environment, e.g. dusty zones, etc.

Indoor Unit	Every Month	Every 4 Months	Every Year
Clean air filter	•(1)		
Clean drain pipe (2)		•	
Change controller batteries			•
Outdoor Unit	Every Month	Every 4 Months	Every Year
Clean outdoor coil from outside (2)		•	
Clean outdoor coil from inside			•
Blow air over electric parts (2)			•
Check electric connection tightening (2)			•
Clean fan wheel (2)			•
Check fan tightening (2)			•
Clean drain pan (2)			•

(1) Increase frequency in dusty zones.

(2) Operations to be carried out by qualified service personnel.



## 17. TROUBLE SHOOTING

TROUBLE	REASON	ACTION
<b>Compressor and outdoor fan will not start</b>	Power failure Fuse blown or / and circuit breaker tripped	Call power company Replace fuse or reset circuit breaker
	Detective contactor	Replace
	Low line voltage	Determine cause and eliminate
	Incorrect or loose wiring	Check wiring diagram and rewire correctly
	Temp. setting too low	Reset temp. setting
<b>Compressor will not start, but outdoor fan runs</b>	Faulty wiring or loose connections in compressor circuit	Check wiring and repair or correct
	Compressor motor burned out, stuck or internal over-load open	Replace compressor and determine cause
	Detective run capacitor	Replace
<b>Compressor runs bur cycles on internal overload (other than normally satisfying thermostat)</b>	Refrigerant over or under charge	Blow refrigerant, evacuate system and recharge
	Air or non condensable refrigerant in system	Blow refrigerant, evacuate system and recharge
	Detective compressor	Replace and determine cause
	Low or too high line voltage	Determine cause and correct
	Blocked outdoor coil	Determine cause and replace
	Outdoor fan stopped	Determine cause and replace
	Detective run capacitor	Replace
	Faulty fan motor of outdoor section	Replace
	Restriction in refrigerant system	Locate restriction and remove
	Capillary or Accurate restricted or ice clogged.	Blow refrigerant, evacuate system and recharge
<b>Compressor operates continuously</b>	System undersized for load	Decrease load or increase system size
	Temp. setting too low	Reset temp. setting
	Defective outdoor fan	Check for source and replace
	Air or non condensable refrigerant in system	Blow refrigerant, evacuate system and recharge
	Air restricted or indoor section filter dirty	Clean filter or remove restriction
<b>Excessive head pressure</b>	Dirty outdoor coil	Clean coil
	Detective outdoor fan	Replace
	Refrigerant over charged	Purge excess refrigerant
	Air or non condensable refrigerant in system	Blow refrigerant, evacuate system and recharge
	Outdoor section air restricted	Remove restriction



## TROUBLE SHOOTING (Cont.)

TROUBLE	REASON	ACTION
Head pressure too low	Low refrigerant charge Restriction in liquid tube Indoor section air filter dirty	Check for leaks, repair and recharge Remove restriction Clear filter
Excessive section pressure	Reversing valve hung up or internal leak Internal pressure relief open Refrigerant over charged	Replace Check for source and eliminate Purge excess refrigerant
Suction pressure too low (Low pressure control cuts-out & pilot light for low pressure control lights off)	Low refrigerant charge Indoor unit frosted Low indoor air or short cycling Restriction in suction tube Capillary or accurate restricted or ice clogged	Check for leaks, repair and recharge See next trouble Eliminate cause, check for fan working Locate restriction and remove Blow refrigerant, evacuate system and recharge
Outdoor fan stopped or cycling on overload	Detective fan motor capacitor Loose leads at fan motor Fan motor burned out Motor bearing sized	Replace Check for cause and eliminate Replace Check for cause and eliminate
After batteries have been placed into the remote control, the display is not lit.	Batteries are exhausted or have the wrong polarity.	Replace batteries or check polarity.
When pressing the recessed lock adjustment button, hour figures on display do not flash.	Recessed button has not been pressed correctly.	Press with a round point, avoid exerting strong pressure
When pressing any button, all symbols appear on display.	Recessed button for time setting is blocked due to excessive pressure during use.	Check and repair.
	Remote control has been irreversibly damaged.	Replace with a new one.
When pressing start button, unit does not acknowledge signal with a beep.	Main switch is OFF.	Switch it to ON position.
	Remote control batteries are exhausted.	Replace batteries.
	Remote control has not been pointed correctly to the receiver of indoor unit.	Turn remote control OFF and repeat the operation in the correct direction.
	There are obstacles (curtains, walls, etc.) between the remote control and the indoor unit	Repeat the operation after having removed the obstacles.
	Receiver on the indoor unit or the remote control is under intense sun radiation.	Avoid direct sun on the unit, shut curtains or shades.
	Signal transmission is obstructed by severe interference from an electromagnetic field.	Avoid sending signals when computers or household appliances (Food processors, coffee makers, etc.) are operating close by cellular or cordless telephones may also interfere with the control.



## **TROUBLE CHART (Cont.)**

<b>TROUBLE</b>	<b>REASON</b>	<b>ACTION</b>
<b>When pressing stop button, unit does not acknowledge signal with a beep.</b>	Remote control batteries are exhausted.	Replace batteries.
	Remote control has not been pointed correctly to the receiver of indoor unit.	Turn remote control OFF and repeat the operation in the correct direction.
	There are obstacles (curtains, walls, etc.) between the remote control and the indoor unit	Repeat the operation after having removed the obstacles.
	Receiver on the indoor unit or the remote control is under intense sun radiation.	Avoid direct sun on the unit, shut curtains or shades.
	Signal transmission is obstructed by severe interference from an electromagnetic field.	Avoid sending signals when computers or household appliances (Food processors, coffee makers, etc.) are operating close by cellular or cordless telephones may also interfere with the control.
<b>When pressing any function button, the remote control shows the function requested on the display, but unit does not acknowledge signal receipt with a beep and does not carry out the function.</b>	Main switch is OFF.	Switch it to ON position.
	Remote control batteries are exhausted.	Replace batteries.
	Remote control has not been pointed correctly to the receiver of indoor unit.	Turn remote control OFF and repeat the operation in the correct direction.
	There are obstacles (curtains, walls, etc.) between the remote control and the indoor unit	Repeat the operation after having removed the obstacles.
	Receiver on the indoor unit or the remote control is under intense sun radiation.	Avoid direct sun on the unit, shut curtains or shades.
	Signal transmission is obstructed by severe interference from an electromagnetic field.	Avoid sending signals when computers or household appliances (Food processors, coffee makers, etc.) are operating close by cellular or cordless telephones may also interfere with the control.
<b>Air conditioner will not start.</b>	Main supply switch is OFF	Switch to ON
	Fuses or main switch are blown	Replace fuses
	Protection against frequent compressor cycling is ON	Wait for 3 minutes.
	Selected temperature is higher than the room temperature in the cooling mode (or lower in the heating mode).	Correct selected temperature.
<b>Air conditioner is not supplying enough cooling.</b>	Air flow cannot circulate freely	Remove obstructions.
	Dirty filters reduce air quantity circulating.	Clean air filters
	Doors and/or windows are open.	Close doors and windows
	Fan speed has been set to "Low"	Set fan speed at high speed.
	Air flow direction is not correct	Adjust airflow direction as per the mode chosen.
	Selected temperature is higher than the room temperature in the cooling mode.	Correct selected temperature.



## TROUBLE CHART (Cont.)

TROUBLE	REASON	ACTION
<b>Air conditioner is not supplying enough heating.</b>	Air flow cannot circulate freely	Remove obstructions.
	Dirty filters reduce air quantity circulating.	Clean air filters
	Doors and/or windows are open.	Close doors and windows
	Fan speed has been set to "Low"	Set fan speed at high speed.
	Air flow direction is not correct	Adjust airflow direction as per the mode chosen.
	Selected temperature is Lower than the room temperature in the heating mode.	Correct selected temperature.
<b>A slight mist is emitted from the indoor unit during cooling</b>	The cool air from the indoor unit is coming into contact with the room air.	Normal operation
<b>A slight whistling noise is heard when is heard when the air conditioner starts or stops.</b>	This is due to the refrigerant beginning to circulate or an adjustment of the refrigerant pressures.	Normal operation
<b>Water vapor (mist) emanating from the outdoor unit.</b>	It is normal in heat pump operation, when defrost is automatically activated.	Normal operation
<b>Unpleasant smells coming from the indoor unit.</b>	Unpleasant smells can be caused by substances accumulated in the air filters	Switch the system OFF and contact an authorized service center to have the filters cleaned.  Restart unit in the ventilation (fan only) mode and open windows to change room air.
<b>Strange noises coming from the indoor unit.</b>	Occasionally the indoor unit can emit some strange short noises during operation or when it has stopped.  These are generally due to the of temperature changes on the plastic parts.	Normal operation
<b>Starting in heating mode for heat pump systems</b>	If the system starts at low ambient temperatures, it takes a little while to reach a comfortable room temperature. When the system is started by the remote control, it emits a signal beep, but the louvre does not swing and the fan does not run until the operating temperature has been reached.	Normal operation
<b>Timer Led is Blinking</b>	Faulty return air sensor	Determine reason and replace
	Faulty return indoor coil sensor	Determine reason and replace
	Faulty return outdoor coil sensor	Determine reason and replace
<b>Power led is blinking</b>	Compressor overheat	Determine reason and correct
	Anti overheat	Determine reason and correct
	Low ambient	Determine reason and correct