

# Technical Specifications

Model No.			07	07	09	09
Type			Cooling Only	Heating Pump	Cooling Only	Heating Pump
Control type			Remote	Remote	Remote	Remote
Rated cooling capacity	Btu/h		7,000	7,000	9,000	9,000
Rated heating capacity	Btu/h		N/A	7,500	N/A	9,500
EER for cooling	Btu/h.w		9.6	9.6	9.6	9.6
COP for heating	W/W		N/A	2.8	N/A	2.8
Moisture removal	Liters/h		0.8	0.8	0.8	0.8
Indoor noise level at cooling	High	dB(A)	36	36	36	36
	Med.	dB(A)	32	32	32	32
	Low	dB(A)	29	29	29	29
Outdoor noise level	dB(A)		50	50	50	50
<b>Electrical Data</b>						
Power supply			220-240V~/50Hz			
Voltage Range		V				
Rated current	Cooling	A	4.2	4.2	4.2	4.2
	Heating	A	N/A	4.1	N/A	4.1
Rated input	Cooling	W	895	895	900	900
	Heating	W	N/A	880	N/A	880
<b>Refrigerating System</b>						
Refrigerant/Charge		Gram	R22/700g	R22/700g	R22/700g	R22/700g
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Model		-----	-----	-----	-----
	LRA	A	-----	-----	-----	-----
	MFG		-----	-----	-----	-----
Evaporator			Louver fin and Grooved tube type ( 7)			
Condenser			Corrugated fin and Grooved tube type ( 9.53)			
Expansion device			Capillary tube			
Defrosting system			Microcomputer controlled reverse system			
<b>Fan System</b>						
Indoor air circulation		m <sup>3</sup> /h	430	430	430	430
Indoor fan type			Cross flow	Cross flow	Cross flow	Cross flow
Indoor fan speed H/M/L	Cooling	rpm	1150/1050/950	1150/1050/950	<b>1150/1050/950</b>	<b>1150/1050/950</b>
	Heating	rpm	N/A	1150/1050/950	N/A	<b>1150/1050/950</b>
	Dry	rpm	950	950	950	950
	Sleep	rpm	950	950	950	950
Indoor fan motor output		W	12	12	12	12
Outdoor air circulation		m <sup>3</sup> /h	---	---	---	---
Outdoor fan type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
Outdoor fan speed		rpm	895	895	895	895
Outdoor fan motor output		W	31	31	31	31
<b>Connections</b>						
Refrigerant coupling			Flare type			
Connecting Pipe	Gas	Inches	3/8	3/8	3/8	3/8
	Liquid	Inches	1/4	1/4	1/4	1/4
Connecting Wiring		Size × Core number				
Drainage Pipe			O.D 16mm			
<b>Others</b>						
Suitable area		m <sup>2</sup>	12~19	12~19	12~19	12~19
Net dimensions (W x H x D)	Indoor	mm	710 × 250 × 179	710 × 250 × 179	710 × 250 × 179	710 × 250 × 179
	Outdoor	mm	600 × 500 × 232	600 × 500 × 232	600 × 500 × 232	600 × 500 × 232
Net weight	Indoor	kg	7.5	7.5	7.5	7.5
	Outdoor	kg	25	25	25	25
Packing dimensions (W x H x D)	Indoor	mm	805 × 325 × 270	805 × 325 × 270	805 × 325 × 270	805 × 325 × 270
	Outdoor	mm	745 × 352 × 542	745 × 352 × 542	745 × 352 × 542	745 × 352 × 542
Gross weight	Indoor	kg	10	10	10	10
	Outdoor	kg	28	29	28	29
Loading Capacity		40'/40'HC	132/280/318	132/280/318	132/280/318	132/280/318

Model No.			12	12	18	18
Type			Cooling Only	Heating Pump	Cooling Only	Heating Pump
Control type			Remote	Remote	Remote	Remote
Rated cooling capacity	Btu/h		12,000	12,000	18,000	18,000
Rated heating capacity	Btu/h		N/A	12,800	N/A	19,000
EER for cooling	Btu/h.w		9.2	9.2	8.8	8.8
COP for heating	W/W		N/A	2.65	N/A	2.65
Moisture removal	Liters/h		1.0	1.0	1.0	1.5
Indoor noise level at cooling	High	dB(A)	38	38	42	42
	Med.	dB(A)	36	36	40	40
	Low	dB(A)	32	32	36	36
Outdoor noise level	dB(A)		52	52	58	58
<b>Electrical Data</b>						
Power supply			220-240V~/50Hz			
Voltage Range		V				
Rated current	Cooling	A	5.6	5.6	9.6	9.6
	Heating	A	N/A	5.9	N/A	9.0
Rated input	Cooling	W	1270	1270	2100	2100
	Heating	W	N/A	1335	N/A	1970
<b>Refrigerating System</b>						
Refrigerant/Charge		Gram	R22/870g	R22/870g	R22/1700g	R22/1700g
Compressor	Type		Rotary	Rotary	Rotary	Rotary
	Model		-----	-----	-----	-----
	LRA	A	-----	-----	-----	-----
	MFG		-----	-----	-----	-----
Evaporator			Louver fin and Grooved tube type ( 7)			
Condenser			Corrugated fin and Grooved tube type ( 9.53)			
Expansion device			Capillary tube			
Defrosting system			Microcomputer controlled reverse system			
<b>Fan System</b>						
Indoor air circulation		m <sup>3</sup> /h	530	530	800/850	800/850
Indoor fan type			Cross flow	Cross flow	Cross flow	Cross flow
Indoor fan speed H/M/L	Cooling	rpm	1270/1170/1000	1270/1170/1000	1060/970/880	1060/970/880
	Heating	rpm	N/A	1250/1150/1000	N/A	1060/970/880
	Dry	rpm	1000	1000	880	880
	Sleep	rpm	650	650	900/1000	900/1000
Indoor fan motor output		W	12	12	25	25
Outdoor air circulation		m <sup>3</sup> /h	---	---	---	---
Outdoor fan type			Propeller fan	Propeller fan	Propeller fan	Propeller fan
Outdoor fan speed		rpm	860	860	820	820
Outdoor fan motor output		W	55	55	90	90
<b>Connections</b>						
Refrigerant coupling			Flare type			
Connecting Pipe	Gas	Inches	1/2	1/2	1/2	1/2
	Liquid	Inches	1/4	1/4	1/4	1/4
Connecting Wiring		Size × Core number				
Drainage Pipe			O.D 16mm			
<b>Others</b>						
Suitable area		m <sup>2</sup>	16~28	16~28	30~40	30~40
Net dimensions (W x H x D)	Indoor	mm	770 × 250 × 179	770 × 250 × 179	1036 × 313 × 204	1036 × 313 × 204
	Outdoor	mm	700 × 255 × 540	700 × 255 × 540	760 × 255 × 540	760 × 255 × 540
Net weight	Indoor	kg	8.0	8.0	14	14
	Outdoor	kg	31	32	42	43
Packing dimensions (W x H x D)	Indoor	mm	863 × 325 × 270	863 × 325 × 270	1103 × 395 × 280	1103 × 395 × 280
	Outdoor	mm	803 × 380 × 595	803 × 380 × 595	863 × 376 × 605	863 × 376 × 605
Gross weight	Indoor	kg	10	10	19	19
	Outdoor	kg	34	35	44	45
Loading Capacity		40'/40'HC	111/238/276	111/238/276	90/188/218	90/188/218

Model No.		24	24			
Type		Cooling Only		Heating Pump		
Control type		Remote		Remote		
Rated cooling capacity	Btu/h	24,000		24,000		
Rated heating capacity	Btu/h	N/A		26,000		
EER for cooling	Btu/h.w	9.0		9.0		
COP for heating	W/W	N/A		2.55		
Moisture removal	Liters/h	2.2		2.2		
Indoor noise level at cooling	High	dB(A)	47		47	
	Med.	dB(A)	44		44	
	Low	dB(A)	40		40	
Outdoor noise level	dB(A)	58		58		
<b>Electrical Data</b>						
Power supply		220-240V~/50Hz				
Voltage Range		V				
Rated current	Cooling	A	13		13	
	Heating	A	N/A		13.8	
Rated input	Cooling	W	2600		2600	
	Heating	W	N/A		2800	
<b>Refrigerating System</b>						
Refrigerant/Charge		Gram	R22/2500g		R22/2500g	
Compressor	Type		Rotary		Rotary	
	Model		-----		-----	
	LRA	A	-----		-----	
	MFG		-----		-----	
Evaporator		Louver fin and Grooved tube type ( 7)				
Condenser		Corrugated fin and Grooved tube type ( 9.53)				
Expansion device		Capillary tube				
Defrosting system		Microcomputer controlled reverse system				
<b>Fan System</b>						
Indoor air circulation		m <sup>3</sup> /h	1000		1000	
Indoor fan type		Cross flow		Cross flow		
Indoor fan speed H/M/L	Cooling	rpm	1330/1230/1150		1330/1230/1150	
	Heating	rpm	N/A		1330/1230/1150	
	Dry	rpm	1150		1150	
	Sleep	rpm	1150		1150	
Indoor fan motor output		W	35		35	
Outdoor air circulation		m <sup>3</sup> /h	---		---	
Outdoor fan type		Propeller fan		Propeller fan		
Outdoor fan speed		rpm	850		850	
Outdoor fan motor output		W	110		110	
<b>Connections</b>						
Refrigerant coupling		Flare type				
Connecting Pipe	Gas	Inches	5/8		5/8	
	Liquid	Inches	3/8		3/8	
Connecting Wiring		Size × Core number				
Drainage Pipe		O.D 16mm				
<b>Others</b>						
Suitable area		m <sup>2</sup>	35~48		35~48	
Net dimensions (W x H x D)	Indoor	mm	1036 × 313 × 204		1036 × 313 × 204	
	Outdoor	mm	890 × 307 × 660		890 × 307 × 660	
Net weight	Indoor	kg	16		16	
	Outdoor	kg	57		60	
Packing dimensions (W x H x D)	Indoor	mm	1103 × 395 × 280		1103 × 395 × 280	
	Outdoor	mm	990 × 405 × 705		990 × 405 × 705	
Gross weight	Indoor	kg	20		20	
	Outdoor	kg	63		65	
Loading Capacity		40'/40'HC	66/142/162		66/142/162	

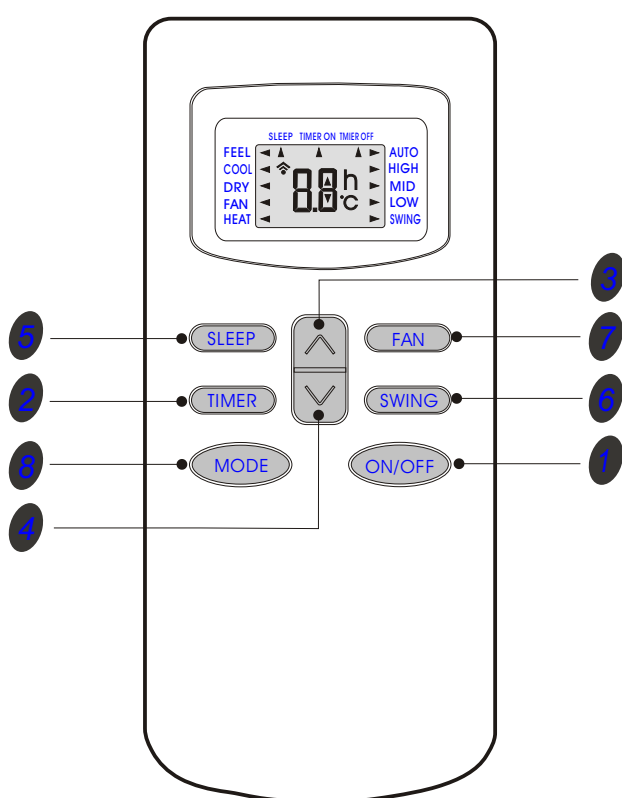
**Note:** The technical specifications is only reference.

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## Remote controller

### Operation Details

The remote controller transmits signals to the system.



- 1 ON/OFF button**  
Used to start and stop operation when pressed.
- 2 TIMER button**  
Used to select TIMER operation.
- 3 UP button (TOO COOL button)**  
Used to increase the set room temperature and time.
- 4 DOWN button (TOO WARM button)**  
Used to decrease the set room temperature and time.
- 5 SLEEP button**  
Used to set or cancel sleep mode operation.
- 6 VANE control button**  
Used to adjust airflow direction.
- 7 FAN SPEED control button**  
Used to select the indoor fan motor speed: Auto, High, Mid and Low.
- 8 MODE button**  
Used to select the type of operation mode: Feel, Cooling, Dry, Fan and Heating(Only for Heat Pump).

**Note:** Each mode and relevant function will be further specified in following pages.

#### Remote Control

The remote controller is not preset as Cooling Only Air Conditioner or Heat Pump by manufacturer. Each time after the remote controller replace batteries or is energized, the arrowhead will flashes on the front of "Heat" or "Cool" on LCD of the remote controller. User can preset the remote controller type depending on the air conditioner type you have purchased as follows:  
Press any button when the arrowhead flashes on the front of "Cool", Cooling Only is set.  
Press any button when the arrowhead flashes on the front of "Heat", Heat Pump is set.  
If you don't press any button within 10 seconds, the remote controller is preset as Heat Pump automatically.

#### Note :

If the air conditioner you purchased is a Cooling Only one, but you preset the remote controller as Heat Pump, it doesn't bring any matter. But if the air conditioner you purchased is a Heat Pump one, and you preset the remote controller as Cooling Only, then you CAN NOT preset the Heating operation with the remote controller.

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## Electronic Controller

### 1. Safety Control

#### (1) Time Delay Safety Control

- 3 minutes delay for compressor---The compressor is ceased for 3minutes to balance the pressure in the refrigeration cycle in order to protect the compressor.
- 2 minutes delay for 4-way valve---The 4-way valve is ceased for 2 minutes to prevent the refrigerant-gas abnormal noise when the HEATING operation is OFF or switch to the other operation mode.
- 20 seconds delay for indoor fan--- When the assistant thermistor turns off, the indoor fan operates in low speed for 20 seconds to release the heat of indoor unit.

#### (2) Indoor Pipe Temperature Sensor Frost Prevention Control

When the indoor pipe temperature sensor reads 0 or below for 5 minutes, the indoor pipe temperature sensor frost prevention control starts. The compressor and outdoor fan stop and indoor fan operates at high speed for 3 minutes. After that, if the indoor pipe temperature sensor reads less than 5 this control prolonged until the indoor pipe temperature sensor reads 5 or more.

#### (3) High Temperature Protection Control

During HEATING operation, the outdoor fan motor and compressor are controlled by the indoor pipe temperature to prevent the high temperature of compressor.

Outdoor fan OFF: 52

Outdoor fan ON:48

Compressor OFF:62

Compressor ON:48

### 2. "I Feel" Mode Operation

- (1) When the "I Feel" mode is selected, the operation mode and initial set temperature are determined by the initial room temperature at start-up of the operation except to turn off the air conditioner and operates it again.
- (2) If the mode is change to "I Feel" mode from other mode, the "I Feel" mode doesn't operate until compressor stop for more than 3 minutes.

Mode	Initial room temperature	Initial set temperature
COOLING	26 or more	24
DRY	20 to 25	18
HEATING for Heat Pump Type FAN for Cooling Only Type	Less than 20	23

- In the "I Feel" mode , when the controller receives the up or down single of temperature, the set temperature can adjust by 1 upper or lower. The biggest you can adjust by 2 upper or lower.

### 3. "COOLING" Mode Operation

- (1) When the COOLING mode is selected without setting temperature, the system will set the set temperature at 26 automatically with the AUTO FAN speed.
- (2) When selecting the COOLING mode operation, the system will operate according to the setting by the remote controller and the operation is as following:

Room Temp.					
Set TEMP. + 1					
Set TEMP. - 1					
Time	More than 2 min	More than 2 min	More than 2 min	More than 2 min	More than 2 min
Indoor Fan	Set Speed	Set Speed	Set Speed	Set Speed	Set Speed
Compressor	ON	OFF	ON	OFF	ON
Outdoor Fan	ON	OFF	ON	OFF	ON

4. “DRY” Mode Operation

- (1) The system for DRY operation used the same refrigerant circle as the cooling circle.
- (2) When the system operates in DRY mode ,at first it operates in cooling mode at 18 for 3 minutes, and then, the system operates in cooling mode with low speed that regards the temperature of the room temperature sensor reads decrease 2 as the set temperature. During the course of this, the fan speed setted operation is failing but the vane motor can be controlled.

5. “HEATING” Mode Operation (Only available for Heat Pump)

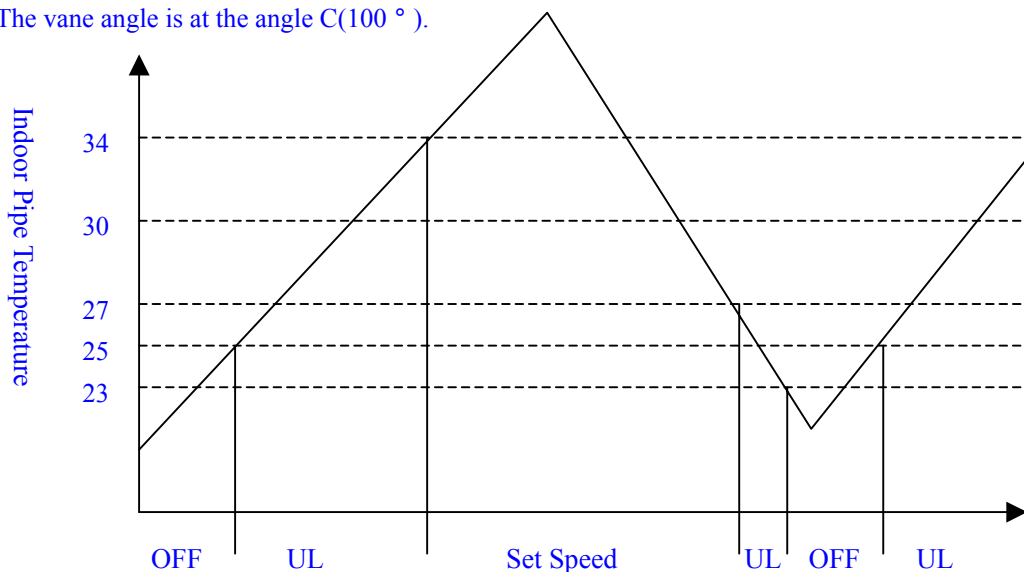
- (1) When the HEATING mode is selected without setting temperature, the system will set the temperature at 23 automatically with the AUTO FAN speed.
- (2) When selecting the HEATING mode operation, the system will operate according to the setting by the remote controller and the operation is as following:

Set Temp. + 1					
Set Temp. - 1					
Room Temp.					
Time	More than 2 min	More than 2 min	More than 2 min	More than 2 min	More than 2 min
Compressor	ON	OFF	ON	OFF	ON
Outdoor fan	ON	OFF	ON	OFF	ON

- (3) In HEATING mode, the indoor fan motor is controlled by Cold Air Prevention Control.

(4) Cold Air Prevention Control

- The function is intend to prevent cold air from being discharged when the heating operation starts or when defrosting.
- The indoor fan speed will be controlled as following:
- The vane angle is at the angle C(100 °).



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(5) Defrost

Defrosting of the outdoor heat exchange is controlled by the microprocessor with detection by the defrost sensor.

- Defrost starting conditions

When the conditions of a) or b) is satisfy, the defrosting operation starts.

a) Under the heating operation, the compressor cumulative operation time exceeds 50 minutes and the temperature of the outdoor defrost sensor reads lower than  $-8$

b) Under the heating operation, the compressor cumulative operation time exceeds 50 minutes, if the indoor pipe temperature sensor reads lower than  $40$  continuously for 2minutes.

Note: If haven't the outdoor pipe temperature sensor that use the condition b) to defrost, against use the condition a).

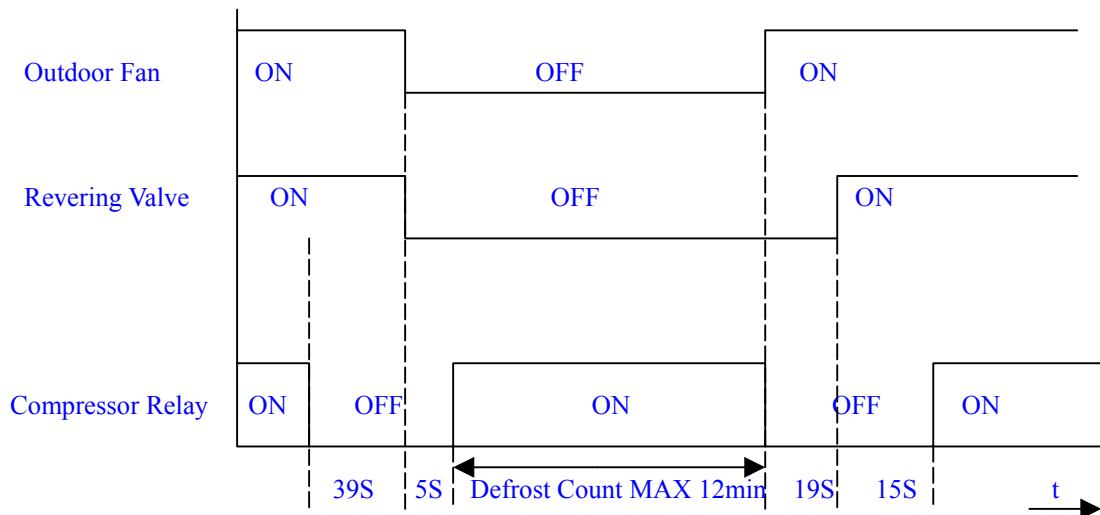
- Defrost terminating conditions

When the condition c) or d) is satisfy, the defrosting operation stops.

c) The outdoor defrost sensor reads  $15$  or more.

d) The defrosting time exceeds 10 minutes.

- Defrosting time chart



(6) Assistant Thermistor Function

Assistant thermistor is add the thermistor of the electricity to rise the heating capacity automatically not effected by the signal of the remote controller about assistant thermistor ON/OFF buttons.

1) When the condition all of A~G are satisfy, the assistant thermistor opens.

A. Under the heating operation, the compressor operates over than 3 minutes.

B. The indoor fan operates in normal.

C. The system operates not in defrosting.

D. The assistant thermistor turn off over than 30 seconds.

E. The set temperature is  $3$  or more than the room temperature.

F. The room temperature sensor reads less than  $22$ .

G. The indoor pipe temperature reads  $43$  or less.

2) When one of the conditions of A~E is satisfy, the assistant thermistor is off.

A. The compressor is turned off.

B. The room temperature sensor reads  $24$  or more.

C. The indoor pipe temperature sensor reads  $48$  or more.

D. The indoor fan is stopped.

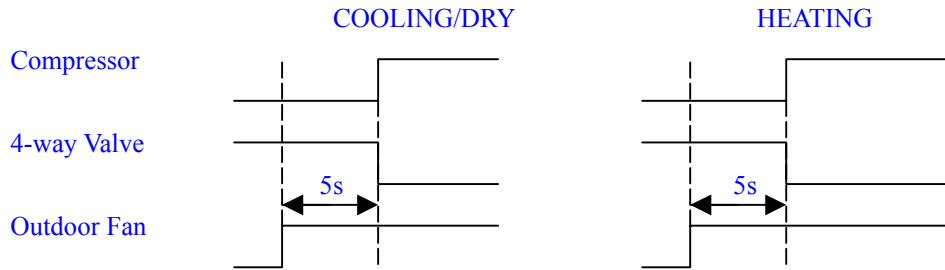
6. "FAN" mode operation

The indoor fan motor always turns on at the set speed and the vane motor turns on at the set fattle.

7. 4-way Valve contro

HEATING ON  
 COOLING/DRY OFF

The 4-way valve reverses for 5 seconds right before start-up of the compressor as following chart:



8. “SLEEP” mode

When the SLEEP button is pressed, the SLEEP mode is selected as following:

- The indoor fan speed is set at the super low speed.
- When selecting COOLING/DRY operation with SLEEP mode, the set temperature will be raised by 1 °C 1 hour later and by 2 °C 2 hour later.
- When selecting HEATING operation with SLEEP mode, the set temperature will be dropped by 1 °C 1 hour later and 2 °C 2hour later.
- After the System operates in SLEEP mode for 8 hours, it will stop automatically.

9. Fan motor control

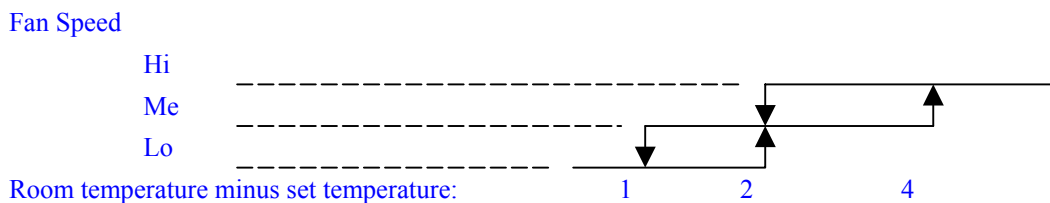
(1) Rotational frequency feedback control

The indoor fan motor is equipped with a rotational frequency sensor, and outputs signal to the microprocessor to feedback the rotational frequency. Comparing the current rotational frequency with the target rotational frequency, the microprocessor adjusts fan motor electric to make the current rotational frequency close to the target rotational frequency. With this control, when the fan speed is switched, the rotational frequency changes smoothly.

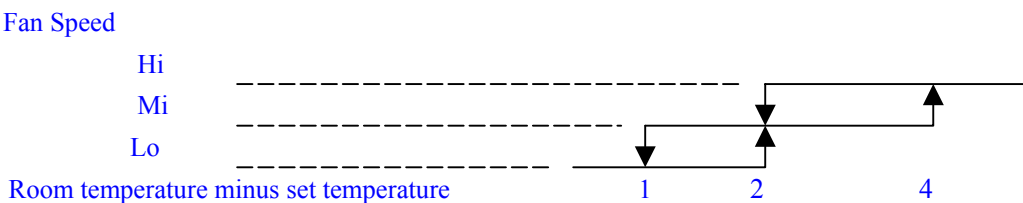
- (2) When the rotational frequency feedback signal has not output for 5 seconds (or when the microprocessor can’t detect the signal for 5 seconds), the fan motor is regarded locked-up. Then the electric current to the fan motor is shut off. 10 seconds later, the electric current is applied to the fan motor again. During the fan motor lock-up, the POWER indicator lamp flashes on and off to show the fan motor abnormality.

10. Auto Fan Speed Control

- (1) When the auto fan speed is selected, the indoor fan motor speed is automatically controlled by the room temperature and the set temperature.
- (2) In COOLING mode, the indoor fan motor operates as following:



- (3) In HEATING mode, the indoor fan motor operates as following;





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## 11. Auto Vane Operation control

### (1) Vane motor drive

The unit is equipped with a stepping motor for the vane. The rotating direction, speed, and angle of the motor are controlled by pulse signal transmitted from indoor microprocessor.

### (2) Positioning

The vane is once pressed to the vane stopper below to confirm the standard position and then set to the desired angle. The positioning is decided as follows:

- When the ON/OFF button is pressed.
- When the vane control is change from AUTO to MANUAL.
- When the SWING is finished.
- When the test run starts.
- When the power supply turns ON.

### (3) The auto vane changes as follows by pressing the VANE CONTROL button.

### (4) VANE AUTO mode

In vane auto mode, the microprocessor automatically determines the vane angle and operation to make the optimum room-temperature distribution.

### (5) SWING mode

When presses the SWING button, the vane swings.

## 12. TIMER Operation

### (1) To activate the air conditioner at the desire time, follow the procedure specified below(the remote control and air conditioner are switched off):

- Press the Timer button.
- Select the desired mode by pressing the Mode button.
- Select the desired temperature by pressing the ▲ ▼ button (only possible when the 'cool' or 'heat' mode is selected).
- Select the ventilator speed (low, medium or high) or automatic mode (only possible when the feel, Cool or Heat mode is selected) by pressing the Fan button.  
The ventilator always operates in the Auto mode when the Dry mode is selected.
- Select Swing or no Swing by pressing the Swing button.
- Press the Timer button ('h' flashes).
- Use the ▲ ▼ button to select the time at which the air conditioner must activate (between 0 and 10 hours can be set at every half hour-between 10 and 24 hours can be set at every hour).
- Press the Timer button ('h' stops flashing) and the preset time appears in the display.
- Press the Timer button again to delete the selected data from the memory.

Note: If no buttons are pressed during the programming of the timer function, the remote control will switch off automatically are after 10 seconds.

### (2) To switch the air conditioner off at the desired time, follow the procedure specified below (the remote control and air conditioner are switched off):

- Press the Timer button.
- Use the ▲ ▼ button to select the time at which the air conditioner must deactivate (between 0 to 10 hours can be set at every half hour-between 10 to 24 hours can be set at every hour).
- Press the Timer button ('h' stops flashing), and the preset time will appear in the display.
- Press the Timer button again to delete the selected data from the memory.

Note: If no buttons are pressed during the programming of the timer function, the remote control will switch off automatically after 10 seconds.

Note: if 'h' is flashing and you press the ON/OFF/RUN button once, the preset temperature will appear in

the display. You can now adjust the temperature with the ▲▼ button. Press the Timer button again to display the time, which can now also be adjusted. If the Timer button is pressed again, the data is stored and the remaining time(that the air conditioner will be in operation) will appear in the display.

Pressing the ON/OFF/RUN button instead of the Timer button deactivates the remote control.

Note: check that the TIMER INDICATOR on the indoor unit lights up after the timer has been set.

Press the Timer function to check the settings in the display.

### 13. EMERGENCY-TEST Operation

When the EMERGENCY Operation switch is pressed once, COOLING mode is selected and if in 3 seconds the EMERGENCY Operation switch is pressed again, HEATING mode is selected. Then pressed once again, the unit is switch off.

When the remote controller is missing, has failed or the batteries run down, press the EMERGENCY Operation switch on the front of the indoor unit. The unit will start.

The first 30 minutes of operation will be the test run operation. The operation is for servicing. The indoor fan runs at high speed and the system is in continuous operation. The thermostat is ON and the timer is reset to normal.

After 30 minutes of test run operation the system shifts to AUTO COOLING/HEATING mode, and the indoor fan runs in automatic speed. The operation continues unit the EMERGENCY operation switch is pressed or a button on the remote controller is pressed, the normal operation will start.

NOTE: Do not press the EMERGENCY Operation switch during normal operation.

### 14.AUTO RESTART Function (Option)

When the indoor unit is controlled with the remote controller, the operation mode, set temperature, and the fan speed are memorized by the indoor electric control PCB. The AUTO RESTART function sets to work the moment power has restored after power failure. Then, the unit will restart automatically.

### 15. Failure Display and Handling

#### a) The failure of the resistance of heat sensitive:

When the resistance of heat sensitive reads the temperature is lower than - 50 or over than 110 that judge the heat sensitive is bad.

#### b) The Outdoor Protection Control

When the system checks the signal from outdoor of the voltage is 0V, the system delay 1second to start for check the signal again, if checks the signal of the voltage is 0V too, that the system not to star, or operates on normal.

#### c) Failure Display

When the controller is failure, the buzzer will voice long for three times, and displays the failure from the failure lamp.

#### d) Failure Code

If have the digital pipe that display the failure code for digital pipe, or display for the run lamp.

Type of failure	The lamp flash	Display of digital pipe
The failure of room temperature sensor	Once/cycle	E1
The failure of indoor pipe temperature sensor	Twice/cycle	E2
Outdoor protection function	5 times/cycle	E5
The failure of indoor fan	6 times/cycle	E6

#### e) Failure Handling

- When the room temperature sensor or the indoor pipe temperature sensor is failure, the system will be shut off, the compressor will be OFF, and the outdoor fan and the indoor fan will be OFF. The system doesn't receive the signal of remoter controller except the signal of shut off it. When the failure eliminated, the controller can operate in normal mode. before this, presses the "ON/OFF" to start the system, and it will operate in COOLING or HEATING for 30 minutes, and follows shut off. During

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this, it displays the failure and the protection is failing. You must be give the electric again to operate it. In the failure, you can operate the FAN mode.

- When the outdoor protects in the COOLING or DRY, the outdoor unit stops, the indoor fan operates in set speed ; and in the HEATING, the outdoor unit stops, the assistant thermistor stops, the indoor fan operates in cold air prevention control. The system doesn't receive the signal of remoter controller except the signal of shut off it. When the system check the voltage is 220V and the delay control is finished, it operates at normal again.
- When the indoor fan motor is failure, the compressor is stopped, the outdoor fan and indoor fan is stopped and display the failure. The system doesn't receive the signal of remoter controller except the signal of shut off it.

f) Display Of The Control

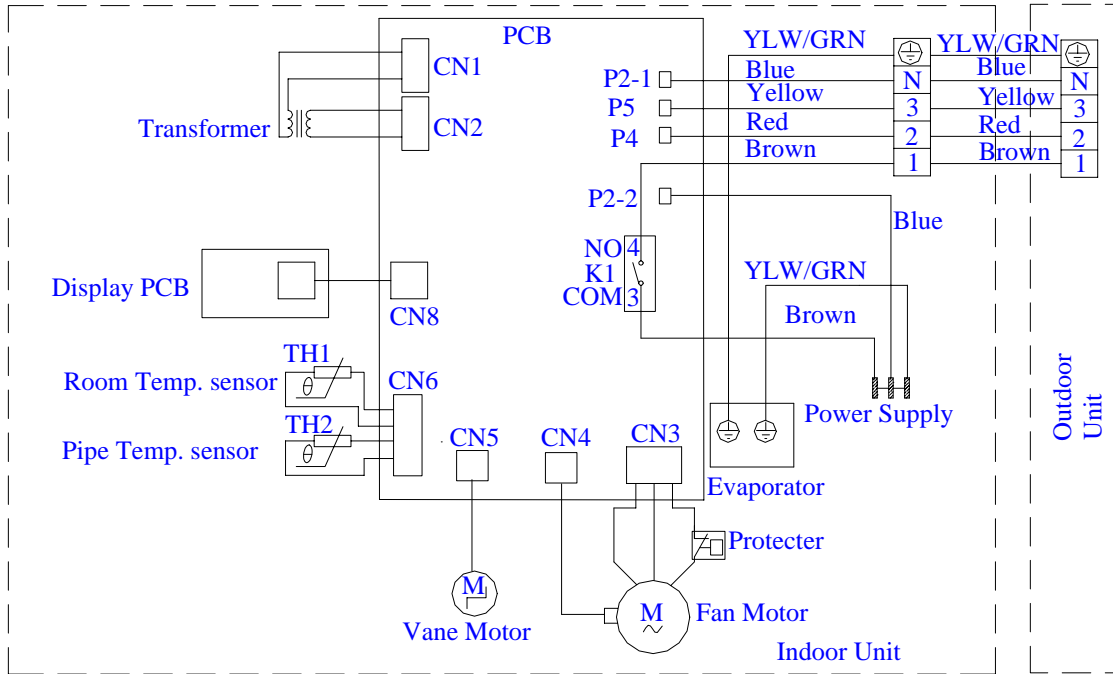
In the display board the lamp from left is the POWER lamp (Red), the SLEEP lamp(Yellow), the TIMER lamp(Yellow), the RUN lamp(Green).

(7) When gives the control electric, the buzzer voices a long for 0.3 second per cycle.

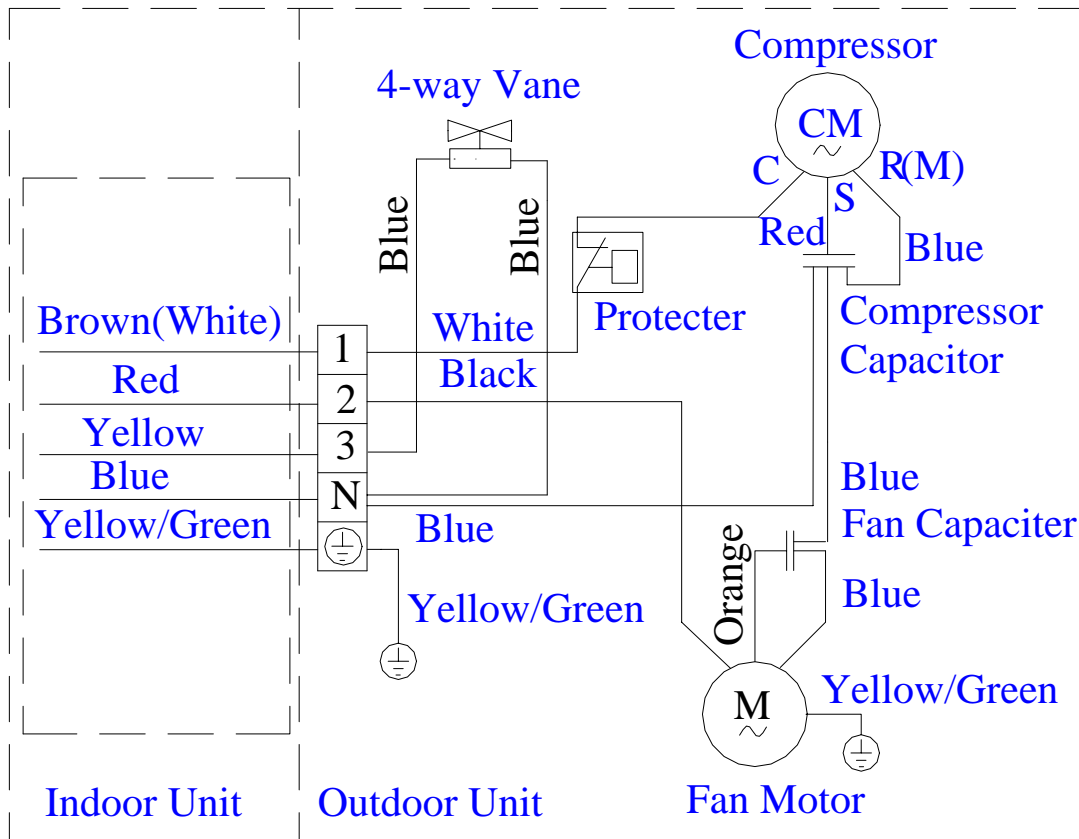
# WIRING DIAGRAM

MODEL: 29a2; a34

INDOOR UNIT:



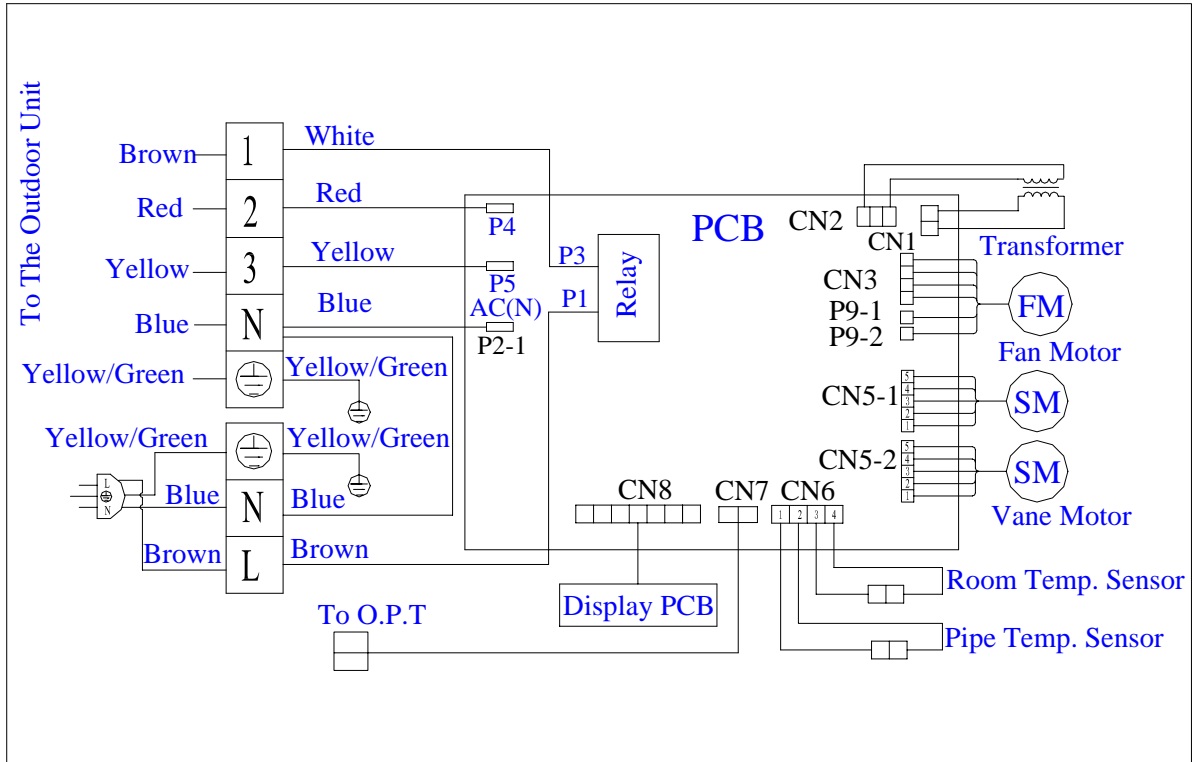
OUTDOOR UNIT



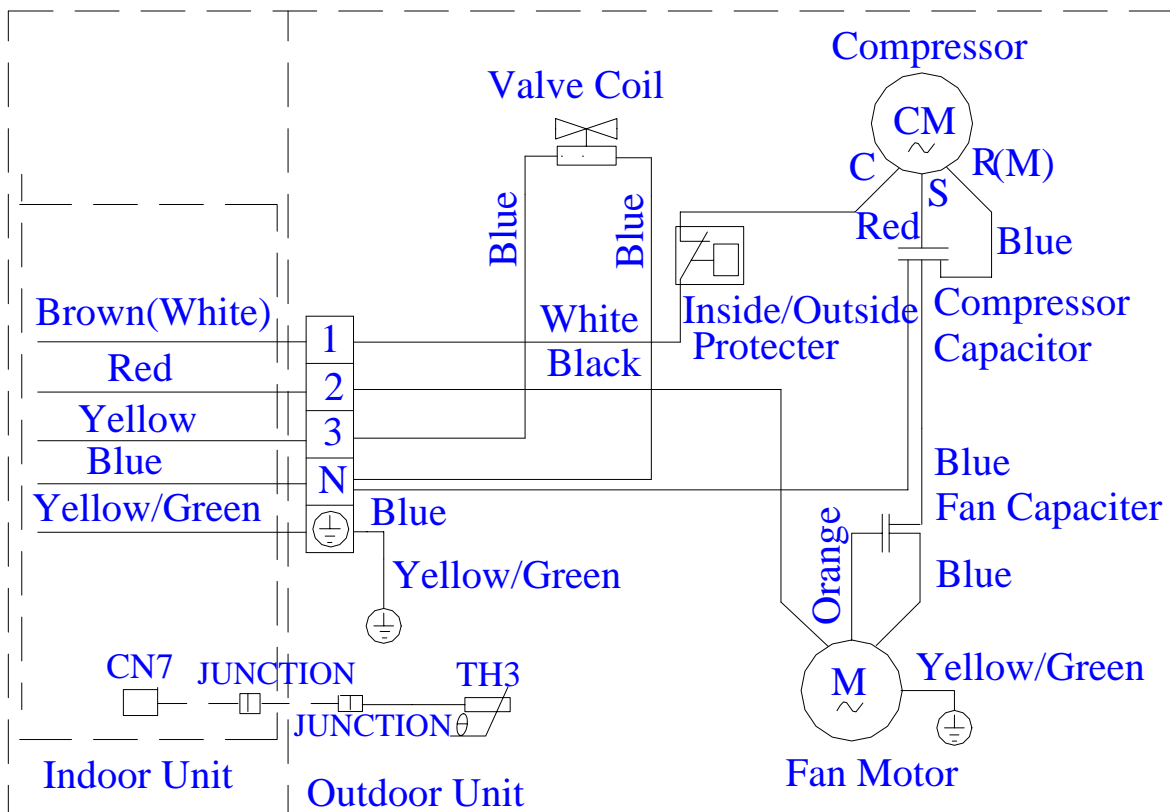
# WIRING DIAGRAM

MODEL: 3:

INDOOR UNIT:

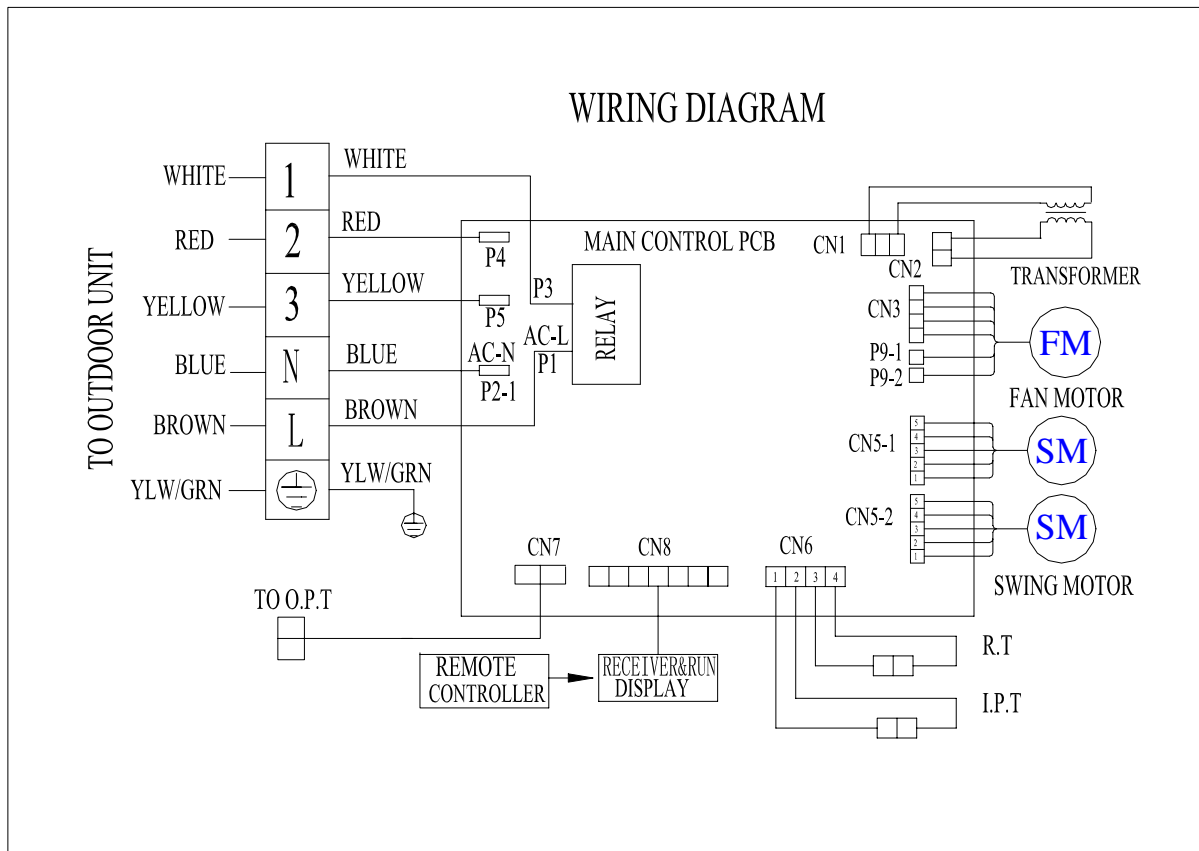


OUTDOOR UNIT:



# WIRING DIAGRAM

MODEL: 46  
INDOOR UNIT:



OUTDOOR UNIT:

