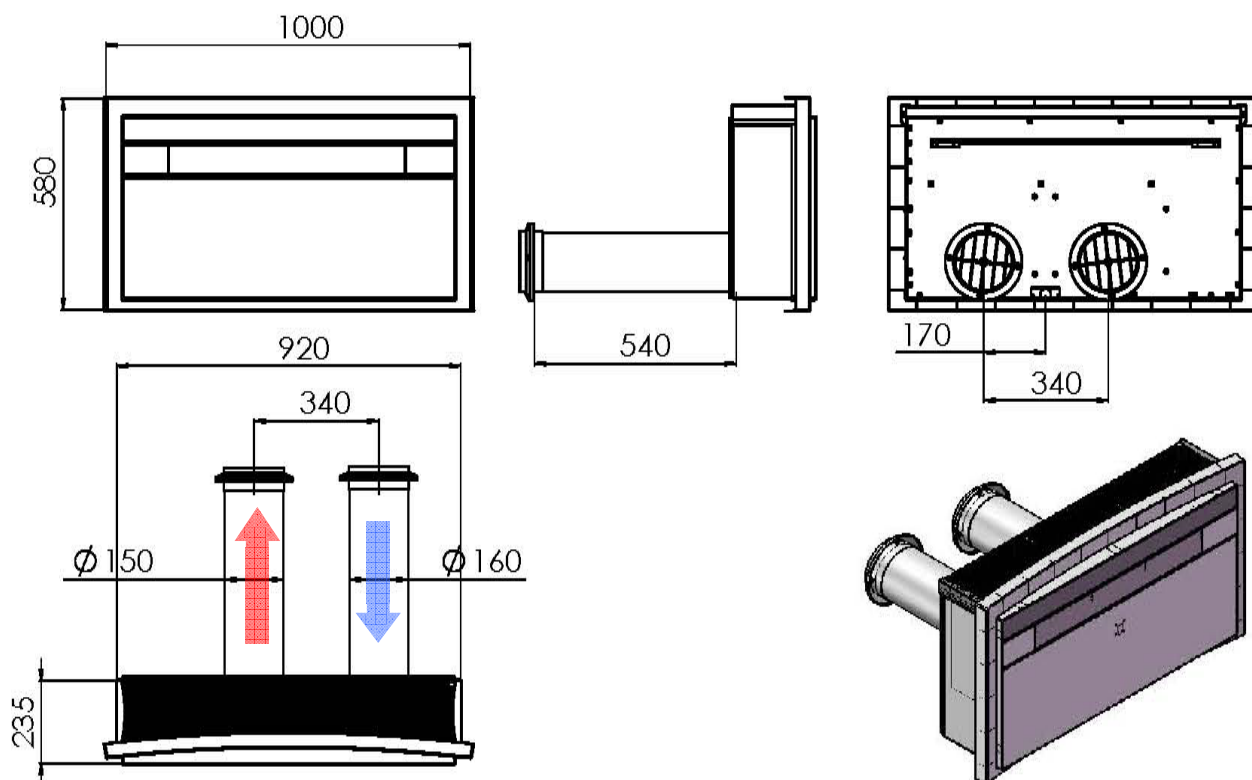


# **Technische handleiding WZ-25**



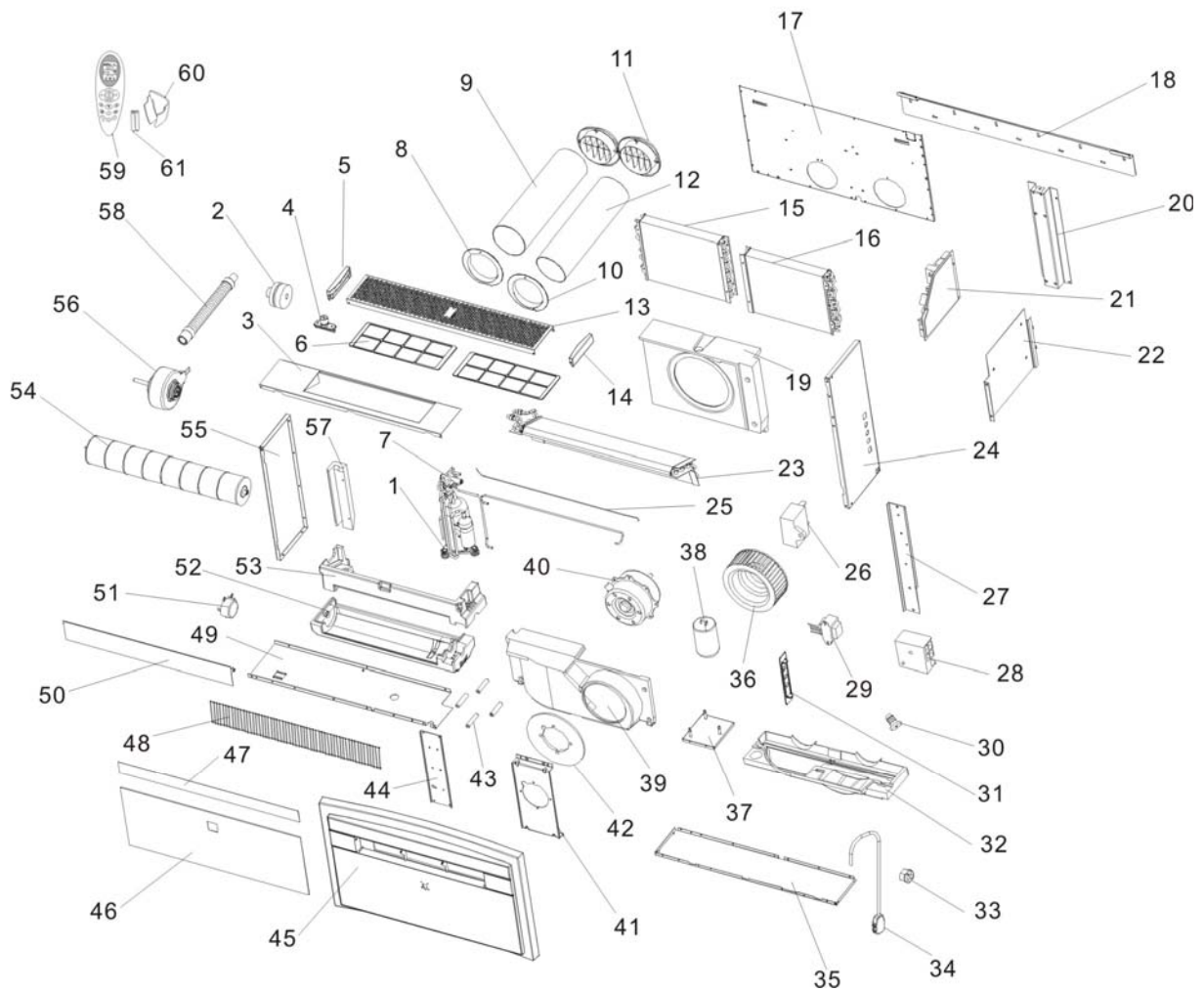
### 3. Overall Dimensions



**Note :** The external pipes have two different diameters , use  $\varnothing 160$  mm for air inlet side and  $\varnothing 150$  mm for air out let side.

## 4. Explosion view and parts list

### WZ-25 Explosion view



**WZ-25 Parts list**

<b>Item</b>	<b>BOM Code</b>	<b>Description</b>	<b>QTY</b>
1	R122110248	Compressor assy.	1
2	R139050004	Bearing	1
3	R127020367	Top cover	1
4	R128060137	Clasp for filter	1
5	R128060315	Left handle	1
6	R128020435	Filter	2
7	R12212239	Reversing valve and tubes assy.	1
8	R128060311	O-ring for air outlet pipe	1
9	R128060348	Air outlet pipe	1
10	R128060310	O-ring for air inlet pipe	1
11	R128030437	Grille	2
12	R128060347	Air inlet pipe	1
13	R127040469	Air inlet grille	1
14	R128060316	Right handle	1
15	R122050293	Condenser near outlet	1
16	R122050294	Condenser near inlet	1
17	R127020365	Back cover	1
18	R127080045	Mounting sheet	1
19	R128060320	Air inlet for condenser	1
20	R127040463	Link for condenser	1
21	R131010417	PCB	1
22	R127030123	Fixture for PCB	1
23	R122010167	Evaporator	1
24	R128060312	Left cover	1
25	R122060126	Capillary assy.	1
26	R131140014	Capacitor for motor	1
27	R127030127	Electrical mounting sheet	1
28	R131030006	Terminal block	1
29	R131110024	Transformer	1
30	R139010076	Stopple	1
31	R128060314	Fresh air adjustor	1
32	R128060319	Condenser base	1

**WZ-25 Parts list**

33	R139010035	Cable plastic ring	1
34	R132040139	Power cable	1
35	R140150011	Basic pan	1
36	R128050057	Exial pan	1
37	R122160243	Compressor mounting sheet	1
38	R131160007	Capacitor for compressor	1
39	R128060318	Fan housing	1
40	R131050054	Condenser fan motor	1
41	R127030125	Motor bracket	1
42	R128050075	Fan cover	1
43	R126180002	Motor bolt	1
44	R127020371	Mounting sheet	1
45	R128030433	Front panel	1
46	R128030436	Acrylic panel (lower)	1
47	R128030435	Acrylic panel (upper)	1
48	R127020373	Air outlet grille	1
49	R127020369	Partition	1
50	R128030434	Louver	1
51	R131060051	Step motor	1
52	R128060322	Cross fan base	1
53	R128060321	Cross fan cover	1
54	R128050017	Cross fan	1
55	R127040467	Right cover	1
56	R131040044	Indoor unit motor	1
57	R136010078	Fixed foam for condenser	1
58	R128070006	Drain pipe	1
59	R131170067	Remote control	1
60	R128040261	Remote control seat	1
61		Battery	2

## 5. Rated technical data

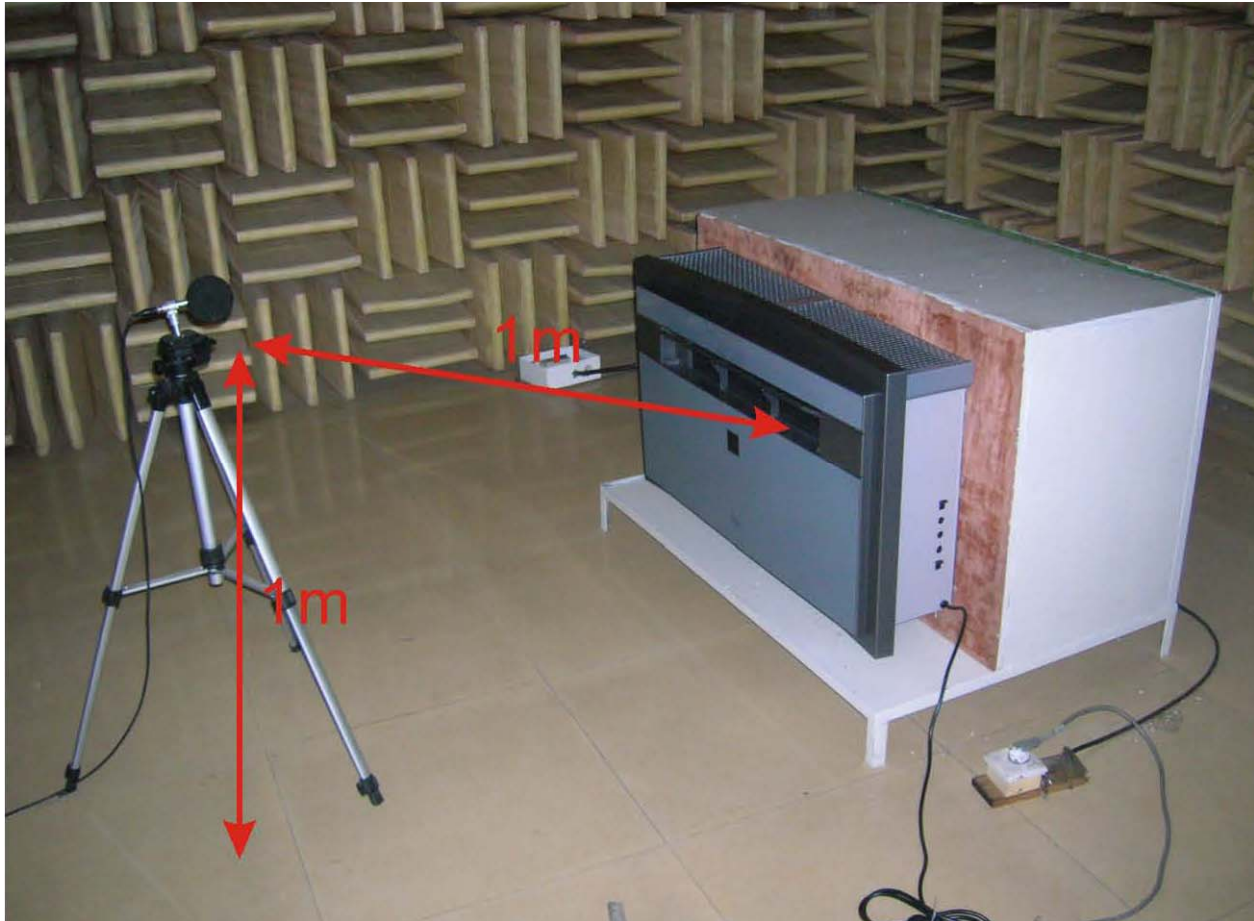
Descriptions	Unit	WZ-25
Cooling capacity	W (Btu/h)	2460 (8400)
Heating capacity	W (Btu/h)	2750 (9377)
Rated voltage	V	230
Frequency	Hz	50
Absorbed power in cooling (	W	980
Absorbed current in cooling	A	4.3
Absorbed power in heating	W	860
Absorbed current in heating	A	3.8
EER label ( Cooling Mode )	<b>A</b> BDCDEFG	B
EER lable ( Heating Mode )	<b>A</b> BDCDEFG	B
Indoor Air flow	m <sup>3</sup> /h	400
Outdoor Air low	m <sup>3</sup> /h	400
Noise lever ( SPL )	dB(A)	See table
Dehumidification capacity	L/24h	16.3
Optional temperature (remote control)	°C	18-30
Maximum external temperature ***	°C	+ 43
Minimum external temperature HP ****	°C	- 5
Fuse (T3,15L)	V	250
Refrigerant / R410a	g	640
Dimension H/W/D	cm	58/100/23.5
Net Weight	Kg	45

\*\*The above data could be changed in order to improve the performance.

\*\*\* The machine can work at T3 condition , with max out door temperature 52 ° C but the cooling performance will be reduced .

\*\*\*\* The machine can work at -15 °C , but the Heating performance will be reduced .

## 7. Noise level ( Indoor – Outdoor )



\*\*The Noise test is done in semi reverberant room , with ambient noise level 27 dB(A) , the structure is not perfectly appropriate for the double ducted machine , for this reason the noise level is correct around - 3, 5 dB(A) calculated .

SPL ( Sound Pressure Level ) dB(A)	MIN Speed	MED Speed	Max Speed
Indoor Fan Mode	36,7	41,4	45,1
Indoor Cooling / Heating Mode	41,2	44,5	46,7
Out Door pipes	44,8	44,8	44,8

## 8. Installation





## 8.1 Positioning the air conditioner (P3)

To maintain the best performance from your air conditioner, prevent breakdowns or hazards, you must position it correctly. Please follow the guidelines and instruction below in full, as failure to do so could cause potential installation problems.

- The air conditioner must be installed on an exterior wall that has access to the outside with a minimum of 2 meters clearance to the outside.
- The air conditioner must be fitted leaving room all around as illustrated in the paper template.
- The wall on which the air conditioner is installed must be sturdy and able to withstand the weight of the air conditioner.

After determining the best place for installation as described above, please check to ensure that the wall can be drilled in the chosen area without interfering with other structures or installations (beams, piers, pipes, wires, etc.).

Please also ensure that there are no obstacles on the outside of the wall, which may obstruct air circulation through the drilled holes, for example: plants and their leaves, slats or paneling, drain pipes, overflows and gratings, etc.). Any obstruction could interfere with the correct performances of the air conditioner.

## 8.2 Paper template (P4)

Fasten the template to the wall once the following guidelines have been thoroughly checked.

- Do not drill any holes until you are completely confident that there are no obstacles in the area you wish to drill and there are no obstructions, which could be hidden by the construction of the wall, for example: Electrical wiring water & gas pipes or supporting lintels or beams.
- Ensure that a spirit level is used, as the air conditioner must be level.
- Follow the installation instructions in full.

## 8.3 Drilling the wall (P5)

Please note: If you are drilling the hole above ground floor level, please ensure that an area has been secured and while the holes are drilled the outside area is supervised, until drilling has been completed.

### Intake and outlet holes

- This operation should be carried out using the proper tools (diamond tip or core borers drills with high twisting torque and adjustable rotation speed).
- Fasten the template to the wall taking care to check the distance from the floor or ceiling and keep it horizontal by using a spirit level.
- Use a pilot drill to mark the centre of each cores hole to be drilled.

Use a core boring head having a diameter of 162mm to drill the two holes for intake and outlet the air.

**Note:** It is recommended that the holes must have a slightly downward inclination of 3-5 degree to prevent any backflow of water from the pipes.

## Drainage hole (P13)

This air conditioner has a double system to drain the condensate moisture automatically. Before install the air conditioner, choose which is the suitable system for your installation. Please read carefully the following instruction.

**System “A”** : drill a hole through the wall measuring 30mm in diameter in the position shown in the paper template. Drainage occurs by gravity. **For this reason, it is essential for the drain line to have a minimum downward inclination at least 3 degree throughout its length:** connect the drain pipe (from rubber terminal) to the air conditioner (back side) after unplugged the black rubber cup (see picture P13). With this solution, you can drain the condensate moisture to a suitable place to do not cause any problems to your neighbours.

**System “B”** : in case of impossibility to install the drainage pipe as shown on “A” system, do not unplug the black rubber cup (picture P13). The condensate moisture will go outside by the two big pipes (see picture P14). If you choose this solution, be sure that the condensate moisture do not cause any problem to your neighbours.

## 8.4 Fastening the bracket (P6)

- Drill the holes for anchoring the fastening bracket to the wall using preferably the 6 holes showed in black on the paper template. If the wall is not sturdy enough, it is advisable to use extra anchor bolts using the holes showed in grey on the paper template.
- The anchor bolts provided require a 8mm holes, the wall should be inspected to determine if provided bolts are useful or if it is necessary to use a different anchorage. The manufacture is not liable in case of underestimation of the structural consistency of the anchorage made at the time of installation.

## 8.5 Installation of the pipes

- After drilling the holes, the plastic pipes supplied with the air conditioner need to be fitted through them.
- The pipe with a diameter of 160mm (fresh air intake) has to be fitted in the right hole. The length of the pipes should be same the depth of the wall plus 10mm. Use a normal hacksaw to cut the supplied pipes to the correct length. Remember that the modification must to have the same inclination of the holes (minimum 3 degrees).
- The tube diameter is nearly the same as that carried out using the 162mm nominal diameter core drill therefore you may need to slightly force the introduction of the pipe using, in difficult cases, a normal rubber hammer and a small piece of timber to gently tap the tube into the hole.
- Please use the same instructions to fit the left hand tube (air discharge pipe) using the supplied pipe with a diameter of 150mm. The tube diameter is slightly smaller than that carried out using the 162mm nominal diameter core drill.
- Please centre the pipes into the holes in the wall and insulate and seal their perimeters to prevent air and humidity infiltration using polyurethane foam and using plaster as finishing on the inside wall.

## 8.6 Fitting the gratings (P7,P8,P9,P10)

To fit the external two gratings, please proceed as follows: familiarise yourself with the fitting of the grating to the tube before installation. Insert the cords through the centre of the grating. One grating fits on the outside of the tube and the other fits inside. The air intake is the bigger hole and the grating therefore fits on the outside of the air intake tube. Insert the supplied cord into the hole. Fold the outer grating in half grasping the cord with your free hand. Insert your arm inside the pipe with the grating and push all the way to the outside. Let the grating unfold and pull the cord toward you. One grating fits on the outside of the tube and the other fits inside. With a little patience and manipulation, the 2 gratings will fit the end of the tubes. Grasping the cord, insert our fingers between the fins and pull the grating toward you until the same is properly slipped in the pipe, keeping the fins in vertical position.

If the external grating is accessible to prevent its removal, it is recommended to fasten it to the wall with wall plugs and screws with a diameter of 6mm. Tighten the cord and fasten it to the dent on the internal flanges.

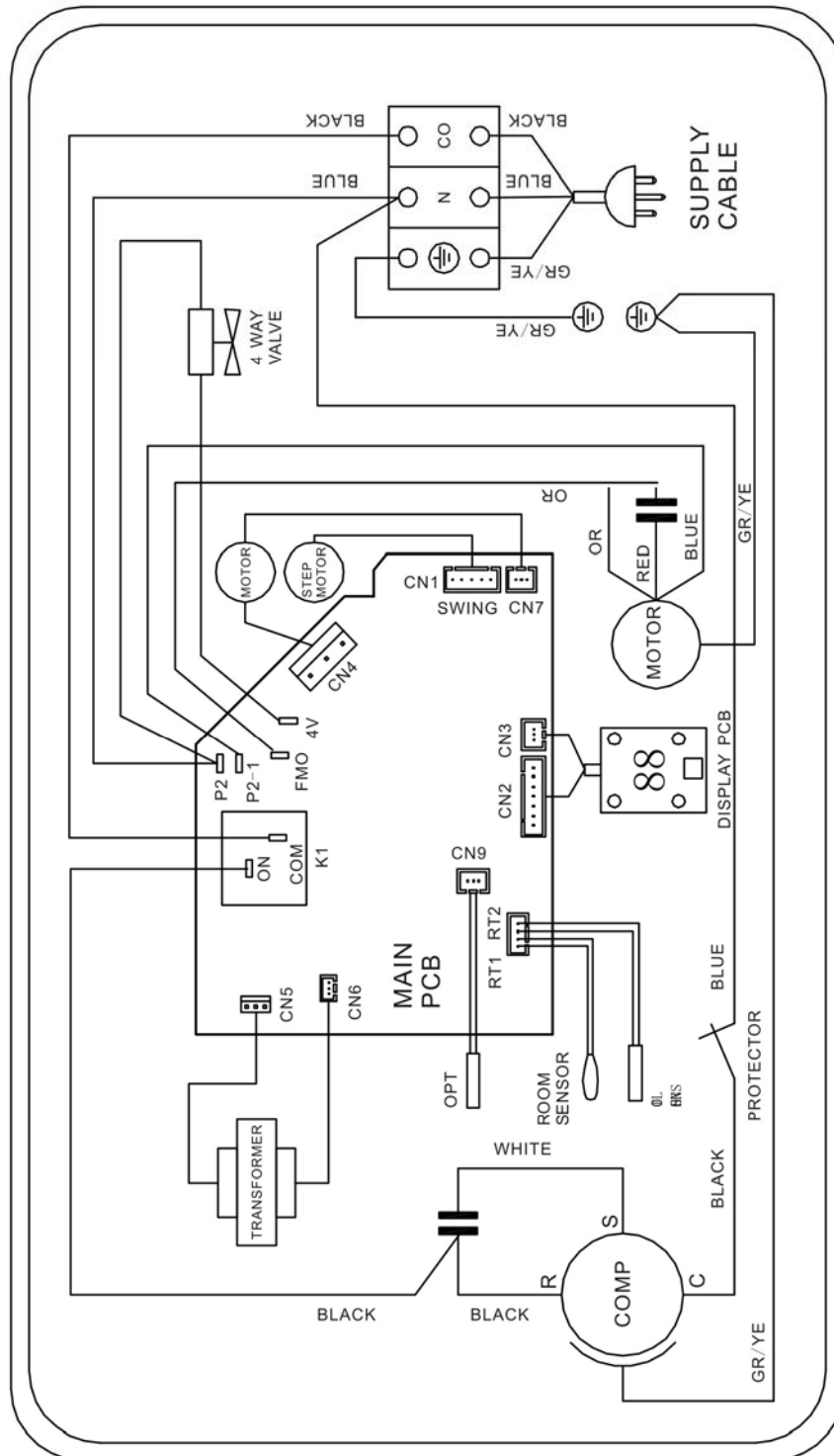
## 8.7 Fitting the air conditioner on bracket (P11, P12)

After checking again that the fastening bracket is securely fastened to the wall, and that any necessary preparations for electric connection and condensate drainage (if it needs) have been made, fasten the air conditioner to its supporting bracket. Lift up by holding the sides at the bottom. Tilt the air conditioner slightly toward you to facilitate the operation of fastening it to the bracket. The air conditioner can now be pushed firmly against the wall. Inspect carefully the installation to make sure that the insulation back panel must fit firmly against the wall and there are no fissures at the back of the air conditioner and that the two plastic semicircle on the back side of the air conditioner are placed inside of the two plastic hoses fixed inside the wall.

### NOTE:

- **The appliance shall not be installed in the laundry.**
- **The appliance must be positioned so that the plug is accessible.**
- **The appliance shall be installed in accordance with national wiring regulations.**

## 9. Electric wiring



## 11. Description of software operation

### 11.1 Main technical index

PCB should be according with the following conditions:

- Measured from the receiver , the receiving distance of remote control  $\leq 8\text{m}$  , receiving angle  $\leq 60^\circ$  cone angle ;
- Discrepancy of temperature control  $\leq \pm 1^\circ\text{C}$  ;
- Discrepancy of time control  $\leq 5\text{min}/24\text{h}$  ;
- Discrepancy of fan speed :  $\pm 10\text{rpm}$  ;
- Rated power supply :  $\text{AC}230\pm 20\%$  ,  $\sim 50\text{Hz}$  ;
- PCB should accord with RoHS.

### 11.2 Definition

- RT : room temperature.
- IPT : indoor coil temperature.
- ST : setting temperature , range  $18 \sim 30^\circ\text{C}$
- OPT : outdoor coil temperature.
- NTC data :  $R25=5.0\text{K}\pm 1\%$   $B25/50=3470\pm 1\%$

### 11.3 Mode introduction

#### 11.3.1 Auto mode

After running the unit by ON/OFF key or choose the auto running mode by remote control, it will fix its running mode by judging room temperature (see below table):

Indoor temp.	Indoor temp. $\leq 20^\circ\text{C}$	$20^\circ\text{C} < \text{indoor} < 25^\circ\text{C}$	indoor $\geq 25^\circ\text{C}$
Running mode	heating	fan	cooling
Standard fixed setting temperature	$20^\circ\text{C}$	$22^\circ\text{C}$	$25^\circ\text{C}$

### 11.3.2 Cooling mode

11.3.2.1 Setting temperature : 18°C-30°C.

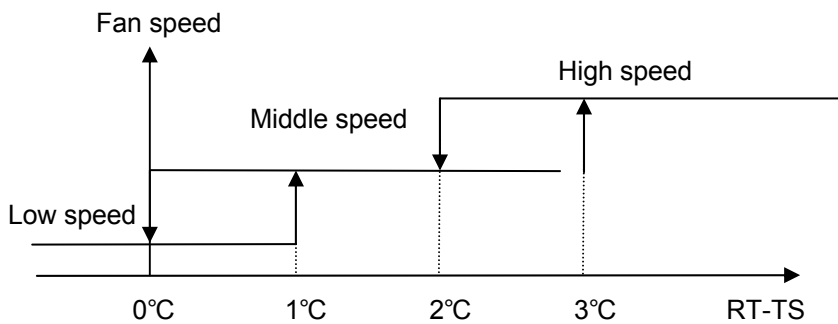
11.3.2.2 Working conditions of compressor :

- a. Compressor works when  $RT \geq ST + 1^\circ\text{C}$  ;
- b. Compressor stops when  $RT \leq ST - 1^\circ\text{C}$  ;
- c.  $-1^\circ\text{C} < RT - ST < +1^\circ\text{C}$  , compressor maintains the original state.

11.3.2.3 The working condition of four-way valve : out of electric power supply.

11.3.2.4 The working condition of outdoor unit fan motor: start and close as same time as the compressor.

11.3.2.5 Fan speed and temperature.



### 11.3.3 Dehumidify mode

11.3.3.1 Setting temperature : 18°C-30°C.

11.3.3.2 Work conditions : Action will accord to the indoor temperature and the setting temperature.

NO	conditions	Indoor fan motor	Outdoor fan motor	compressor	Four-way valve
1	$RT \geq Ts$	Fix in low speed fan	Keep running	Keep running	out of electric power supply
2	$RT < Ts$	Fix in low speed fan	Works for 10 minutes and then stops for 6 minutes		

**Note: during dehumidify, after going into the dehumidify cycle, it will not judge again according to the RT.**

11.3.3.3 When  $RT \leq 14^\circ\text{C}$  , forbid to dehumidify, indoor fan speed is in low speed. when  $RT > 16^\circ\text{C}$ , rework again.

11.3.3.4 Four-way valve : Out of electric power supply.

11.3.3.5 Fan motor of outdoor unit : Start and stop as same time as the compressor.

## 11.3.4 Heating mode

11.3.4.1 Setting temperature : 18°C-30°C。

11.3.4.2 Conditions of compressor working :

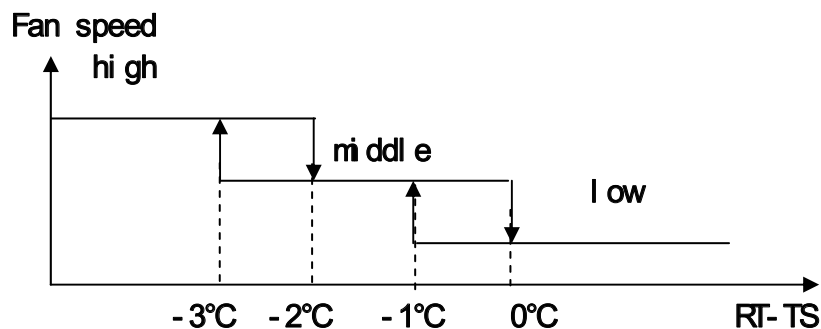
- Compressor starts condition:  $RT \leq TS + 1^\circ\text{C}$
- Compressor stops condition:  $RT > TS + 3^\circ\text{C}$  ;
- $+1^\circ\text{C} < ST - RT \leq +3^\circ\text{C}$  , compressor maintains the original state。

11.3.4.3 The first time turn on the unit, directly run the compressor, only after running in 3 minutes and then judge the temperature.

11.3.4.4 Working condition of four-way valve : Under the heating mode, the four-way valve keeps opening (including setting turn off, but except defrosting course). When mode turns into heating mode or unit is turned on, the four-way valve will open before 5 minutes compressor works. When mode turns out from the heating mode or unit is turned off, four-way valve will close after compressor stops 2 minutes.

11.3.4.5 Working state of outdoor motor: Start and stop as same time as the compressor (When system goes into the defrosting or over heating protection, it will run according to the defrosting or over heating protection way).

11.3.4.6 Indoor unit fan speed (see below fig.)



11.3.4.7 Anti cold wind function: After go into the heating mode, when  $IPT \geq 38^\circ\text{C}$ , indoor fan motor will run according to the setting. When  $IPT < 38^\circ\text{C}$ , indoor fan motor will not run, after compressor runs for 60 seconds and then run the indoor fan motor.

In the heating mode, when continuously in one minute check the  $OPT \leq -5^\circ\text{C}$  and compressor continuously runs over 5 minutes, and go into heating pump running or running 30 minutes after defrosting, if the above 3 conditions would satisfy at the same time, it will begin to defrost.

Defrosting relieve conditions: After compressor runs 3 minutes and OPT rises up to  $15^\circ\text{C}$ , defrosting will relieve automatically, and go into the normal heating running. The defrosting time is not more than 12 minutes (including the compressor stop time). If the defrosting time over 12 minutes but temperature still does not up to  $15^\circ\text{C}$ , in this case, it will force to relieve the defrosting and go into normal heating.

## 11.3.5 Fan mode

11.3.5.1 Compressor working state: stop

11.3.5.2 Four-way valve: out of electric power supply.

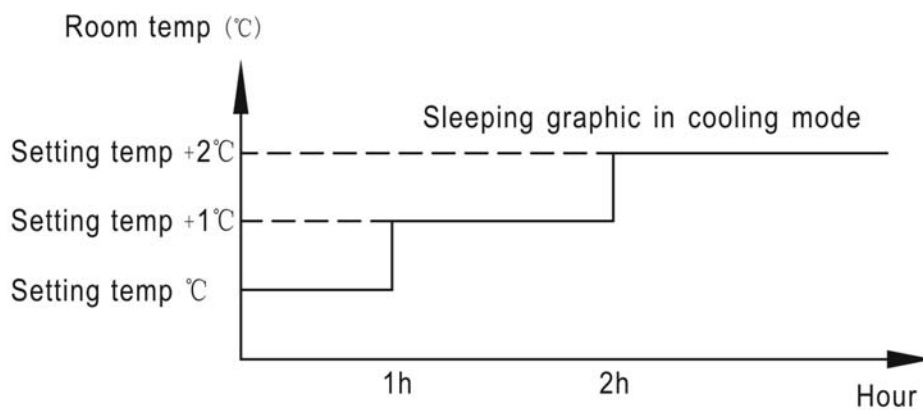
11.3.5.3 Outdoor unit fan motor: stop

11.3.5.4 Indoor unit fan motor: have auto, low, middle and high speed, same with the cooling mode.

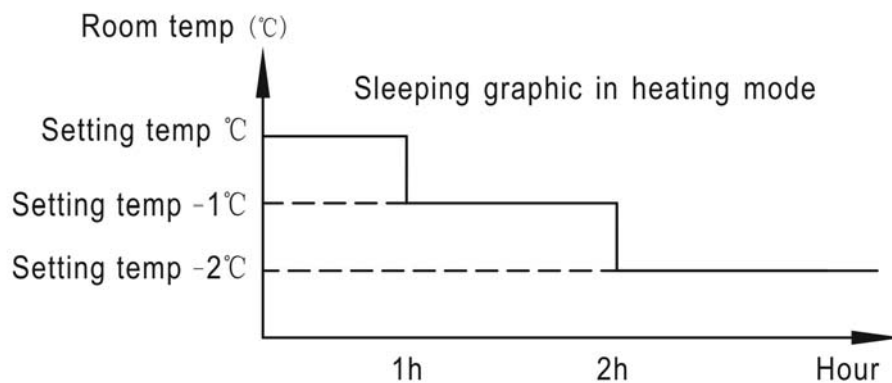
## 11.3.6 Sleeping mode

11.3.6.1 Sleeping running only take effect under the heating and cooling mode, or cooling/heating in the auto running mode.

11.3.6.2 Under the cooling mode, at the beginning of sleeping running, if environment temperature  $>$  setting temperature, the compressor, outdoor fan motor and indoor fan motor will be worked. The four-way valve will be closed. If environment temperature  $\leq$  setting temperature, it will directly go into the sleeping mode running (see the below graphic). Fan speed will be fixed to be low speed. Wind direction can be adjusted or stay on one position.



11.3.6.3 Under the heating mode, at the beginning of sleeping running, if environment temperature  $<$  setting temperature, the compressor, outdoor fan motor and indoor fan motor and four-way valve will be worked. If environment temperature  $\geq$  setting temperature, it will directly go into the sleeping mode running (see the below graphic). Fan speed will be fixed to be low speed. Wind direction can be adjusted or stay on one position.





### 11.3.7 Timer function

11.3.7.1 When the air conditioner is turned on, press the remote control to set the timer turn off. When the unit is turned off, press the remote control to set the timer turn on.

11.3.7.2 The temperature rising key in the remote control is for one hour, press one time will increase one hour, 24 hours for one cycle. The temperature dropping key is for minute, press one time will increase 10 minutes, 60 minutes for one cycle.

11.3.7.3 Clock setting: Press the clock key on the remote control, and then press the temperature rising and dropping key, it will adjust the time. The temperature rising key in the remote control is for one hour, press one time will increase one hour, 24 hours for one cycle. The temperature dropping key is for minute, press one time will increase 10 minutes, 60 minutes for one cycle.

### 11.3.8 Emergency function (Not available for the user)

11.3.8.1 There is one emergency button on the machine. When the remote control is missed or damaged, can use this button to go into the auto running. If the unit stands by, press this button can turn on the machine and go into the auto mode running, indoor unit motor will run auto fan speed.

11.3.8.2 Press this button can turn off the machine when the machine is running.

11.3.8.3 During the emergency running, when receive the effective signal from the remote control, it will exit the emergency running and process the setting of the remote control.

## 11.4 Flap panel control

- Use the step motor to control the flap panel moving, run or stop according to the flap order.

## 11.5 Protection function

### 11.5.1 Compressor 3 minutes stop protection.

- a. The first time connect with the electric power, the compressor will run at once.
- b. After compressor stops every time, it must stop in 3 minutes enough only then to rework again (Except heating and defrost).

### 11.5.2 Anti-freeze protection in the cooling and dehumidify.

- a. When continuously to check out  $IPT \leq -1^{\circ}\text{C}$ , compressor and outdoor fan motor will stop, indoor unit will maintain the original state and go into anti-freeze protection.
- b. When  $IPT \geq 8^{\circ}\text{C}$ , and over the protection state for 3 minutes, compressor and outdoor fan motor will back to run and exit the anti-freeze protection state.

### 11.5.3 Over heat protection in the heating mode.

Under the heating mode:

- a. When  $IPT \geq 55^{\circ}\text{C}$ , outdoor fan motor will stop.
- b. When  $IPT \leq 48^{\circ}\text{C}$ , outdoor fan motor will back to run.
- c. When  $IPT \geq 64^{\circ}\text{C}$ , compressor and outdoor fan motor will stop.
- d. When  $IPT \leq 48^{\circ}\text{C}$ , back to the normal running(3 minutes later will run the compressor and outdoor fan motor.).

In this case, four-way valve always opens and indoor fan motor always runs according to the setting.

## 11.5.4 Sensor damage protection

### 11.5.4.1 When RT sensor was damaged

- a. When RT temperature is lower than  $-40^{\circ}\text{C}$  or higher than  $120^{\circ}\text{C}$  , it is judged to be damaged and go into the protection mode, compressor will run the cycle of run 20 minutes and stop 5 minutes.
- b. Will process the fan mode when in the auto mode.

Note: After the RT sensor was damaged, the light will flash with 1Hz frequency, or the unit will display E1 on the panel.

### 11.5.4.2 When IPT sensor was damaged

When IPT is lower than  $-30^{\circ}\text{C}$  or higher than  $90^{\circ}\text{C}$  , it is judged to be damaged ;

Note : After IPT sensor was damaged, the light will flash with 0.5Hz frequency, or the unit will display E2 on the panel.

### 11.5.4.3 When OPT or RT IPT sensor was damaged

In the heating mode, compressor runs every total for 50 minutes, and then defrosts 3 minutes.

Note: When RT and IPT sensor were damaged at the same time , it will handle according to RT situation.

## 11.5.5 Indoor PG motor failure protection

After indoor fan motor has electric power supply, continuously 5 seconds did not check the feedback pulse of motor, it will close the indoor fan motor and compressor, outdoor fan motor, valve and heating element, 10 seconds later, indoor unit fan motor run again, if still do not have fan speed feedback signal, and then go into indoor unit failure protection. Light will flash with Work 1.5S/Stop 0.5S frequency, or the unit will display E3 on the panel.

## 11.5.6 Refrigerant insufficient protection

Under the cooling mode or cooling in the auto setting mode, compressor runs full of 20 minutes later, if indoor coil temperature  $\geq$  room temperature -  $5^{\circ}\text{C}$ , and time lasts to 40 minutes, unit would stop working and display E4 on the panel.

Under the heating mode or heating in the auto setting mode, compressor runs full of 20 minutes later, if indoor coil temperature  $\leq$  room temperature +  $5^{\circ}\text{C}$ , and time lasts to 40 minutes, unit would stop working and display E4 on the panel.

## 11.5.7 Failure Code

Failure means the case which cannot rework by the system self adjust and must interrupt by human. The code as below:

Failure situation	Light flash	Code
RT sensor Failure	1/time	E1
IPT sensor Failure	2/time	E2
Indoor PG Motor Failure	Work 1.5S/Stop 0.5S	E3
Refrigerant Insufficient protection	Work 1.5S/Stop 1S	E4

- RT: room temperature
- IPT: indoor coil temperature
- ST: setting temperature, range 18~30
- OPT: outdoor coil temperature
- PTC data: R25=5.0K±1%, B25/50=3470±1%

## 11.5.8 OPT failure protection

For the OPT sensor, it is used for the defrost function in heating mode. If OPT sensor works well, the unit will check the data from OPT sensor, then decide if go to defrost function. Please refer to 11.3.4.

If there is failure with OPT sensor, the unit would work with automatic defrost function. See as below:

### **Automatic defrost function start condition:**

Heating mode, and compressor continuously works for 25 minutes, if  $IPT-RT \leq 18^{\circ}\text{C}$ , the unit would go to defrost function.

### **Automatic defrost function stop condition:**

When the compressor works for 12 minutes, unit would stop defrost function.

## 12. Precaution

When using electrical appliances, basic safety precaution should always be followed:

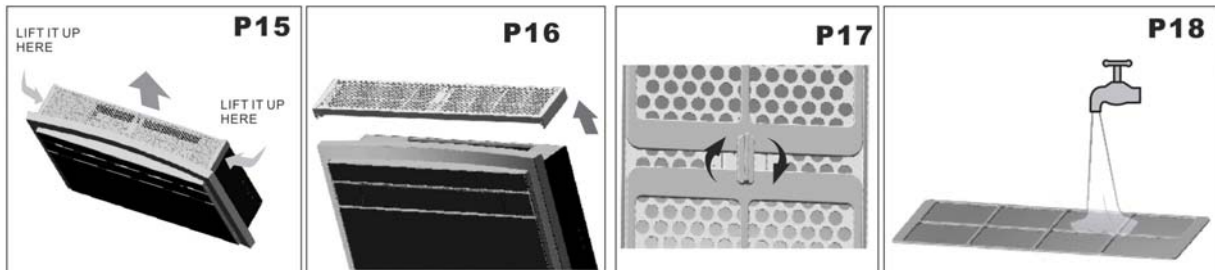
- Do not place objects on the product or allow objects to obstruct the inlet or outlet openings. Extreme care should be taken when any product is used by, or near children and pets, and whenever the product is left operating and unattended.

Please note:

Before operating the product, remove the air conditioner from its package and check it is in good condition.

- Do not let children play with the packaging, for example plastic bags.
- Do not operate any product with a damaged cord or plug, or after the air conditioner malfunctions, has been dropped, or damaged in any manner.
- Always operate the product from a power source of the same voltage, frequency and rating as indicated on the product identification plate.
- This air conditioner is not intended for use in wet or damp locations.
- Do not place the air conditioner near an open flame, cooking or heating appliance, or hot surface.
- Do not let the power cord hang over the edge of a table or counter. Arrange the power cord away from an area where it may be tripped over.
- Never place the power cord under a carpet or rug. Do not operate the air conditioner in areas where petrol, paint, or other flammable liquids are used or stored.
- Do not carry out any cleaning or maintenance or access internal parts until the air conditioner has been disconnected from the mains electricity supply.
- Avoid prolonged direct contact with the flow of the air from the air conditioner and the room being closed with no ventilating for a long period of time.

## 13. Ordinary maintenance



See pictures P15,P16,P17,P18

### 13.1 Filter cleaning:

The filters should be regularly cleaned to keep the air conditioner running efficiently. Clean the filters every two weeks.

#### How to proceed:

- Disconnection the air conditioner from the electrical supply.
- Extract the filter grating. (P15) on the same direction of the arrow. Rotate the knob as shown on P17 to liberate the two filters. Proceed to wash them (not use hot water) and only when are dried replace them in the same way.

#### ATTENTION:

Do not use the air conditioner without filters as it could seriously damage the air conditioner.

### 13.2 External cleaning:

- Disconnect the air conditioner from the electrical supply.
- Wipe external surfaces clean with a damp cloth only.
- Do not use an abrasive cloth and/or solvents, as this may damage the surfaces.
- Do not use excessively wet cloth or sponges, as water stagnation could damage the air conditioner and compromise safety.

## **14. Problem and solution**

### **Problem possible causes**

- The air conditioner does not work
- The air conditioner does not refrigerate the room
- Strange smell in the room. Water drips from the air conditioner.
- The remote control does not work.
- The air conditioner does not work for 3 minutes when switched on.

### **Possible solutions**

1. Wrong setting the timer / check it.
2. Problems on the power supply / check it
3. The filter could be dirty / clean it
4. The room temperature is too high / wait until the temperature goes down
5. The temperature is not properly set / check it
6. The grids could be obstructed / check and remove the eventual obstacles
7. Dampness in the room, coming from walls, carpet, furnishing or similar
8. Wrong installation of the air conditioner
9. Wrong connection of the drainage pipe
10. Exhausted batteries
11. Wrong insertion of the batteries inside the remote control
12. Protection of the air conditioner. Wait for 3 minutes and the air conditioner will start to work again.

### **REMARK:**

If the supplied cord is damaged, it must be replaced again.

The max operation temperature for the air conditioner:

Max cooling: outdoor DB43°C / WB26°C, indoor DB32°C / WB23°C,

min heating: outdoor DB-5°C / WB-6°C, indoor DB20°C