HAIER

Stand style window air conditioner

Technique manual

Model : **HS-06C03** **AL065ACMAA** HS-06C12

0102906800 0102907700

CATALOGUE

1、 PRODUCT CODE ILLUMINATION AND SERIES INTRODUCTION

a、model code rule description

1.1Model identification:

HS- □□ □ □ □□
A B C D E F

A: Abbreviation of Haier
B: Abbreviation of split
C: Nominal cooling capacity(BTU/h) with the first two numbers based on one thousand unit
:
D: Function code
C-Cooling only
H-Heating pump
E-Electric aided heating
E: Developing sequence
F: The type of power supply

A L □□ □ □ □ □ □ □
A B C D E F G H I

A: Abbreviation of air conditioner
B: The first letter of "stand style" in Chinese spelling
C: Nominal cooling capacity(BTU/h) with the first two numbers based on one thousand unit
D: The type of power supply
E: structural feature
F: Appearance feature
G: The kind of refrigerant
H: Frequency
I: Type of climate

Examples:

HS-06C03

-It represents split window air conditioner. Cooling capacity is 6000 BTU/h and the power supply is 220~240V/50Hz.

AL065ACMAA

-It represents stand style window air conditioner. Cooling capacity is 6000 BTU/h and the power supply is 110V, 50/60 Hz.The case used is the common case with large arc inlet bar. The proper climate type is T1.

b、 Standard situation/conditions

No.	Operating condition	Indoor air state		outdoor air state	
		D.B.℃	W.B.℃	D.B.℃	W.B.℃
1	Nominal cooling	32	23	43	26
2	Nominal heating	/	/	/	/
3	Nominal electrical heating	/	/	/	/

C、Brief introduction of mobile window air conditioner series

This series of product of stand style window air conditioner, its main characteristic are:

1. AUTO, COOL, DRY, FAN four operation modes.
2. four Directions for wind flow.
3. remote controlled.
4. installed on the window, not in the wall.

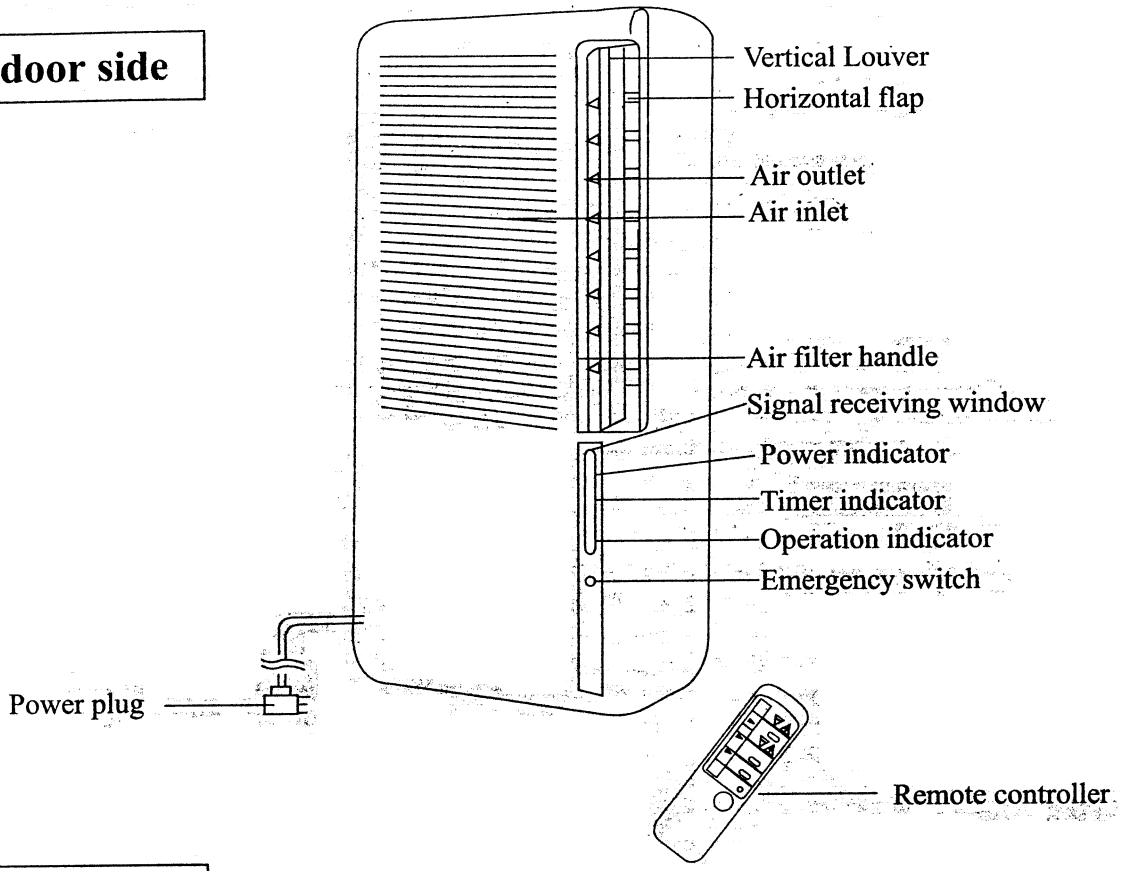
2、PRRODUCT TECHNICAL PARAMETER

Item			UNIT	HS-06C03	AL065ACMAA
Cooling capacity			BTU/h	6000	6143(110V/60Hz)5460(110V/50Hz)
Heating capacity			BTU/h	/	/
Power supply				1PH,220V ~,50Hz	1PH,110V ~,50 / 60Hz
Cooling	Power input		W	660	720 (110V/60Hz)630(110V/50Hz)
	Running current		A	3.5	7.5(110V/60Hz)7.4(110V/50Hz)
	EER		BTU/(hW)	9.09	8.53
Heating	Power input		W	/	/
	Running current		A	/	/
	COP		BTU/(hW)	/	/
Sound Level	Indoor side		dB(A)	42	50Hz:44/43,60Hz:47/46
	Outdoor side		dB(A)	48	50Hz:48,60Hz:50
Case	Height		mm	342	342
	Width		mm	225	225
	Depth		mm	815	815
Packaging dimensions	Height		mm	400	334
	Width		mm	296	428
	Depth		mm	910	984
Weight	Net		kg	26	25
	Gross		kg	29	31
Compressor	Type			Rotary	Rotary
	Model			2R12B3R225CSR	LG QA104AAC
	Running cap. for comp.		μ F	20 μ f/400V	45 μ f/250V
	Starting method			PSC	PSC
Pressure	Heating side		MPa	2.65	2.65
	Cooling side		MPa	0.65	0.65
Refrigerant	Model			R22	R22
	charge		l	450	430g
Fan	Type	indoor unit		flow through fan	flow through fan
		outdoor unit		flow through fan	flow through fan
	Fan speed	Hi	r/min	1470 ± 30	1300 ± 30
		Lo	r/min	1300 ± 30	1370 ± 30
	Running capacitor		μ F	inside	Inside:2 μ f/450V,outside:3 μ f/250V
Air direction control				4-way*and auto swing	4-way*and auto swing
Air volume			m3/hr	300	300
Moisture removal			m3/hr	0.9×10^{-3}	0.9×10^{-3}
Attestation					
Exchanging pipe type/ diameter			mm	Evaporator: ϕ 7condensor: ϕ9.52	evaporator: ϕ 7 condensor: ϕ9.52
Fin factor				/	/
Fin material				Hydrophile aluminum foil	Hydrophile aluminum foil
Case material				Electrical zinc board	Electrical zinc board
Type of capillary				TP2M ϕ 2.7 X 0.5 mm	TP2M ϕ 2.7 X 0.75 690 mm
apply area			m^2	8 ~ 12	8 ~ 12
color				white	white
remotor			Special No	3400065	0010400042

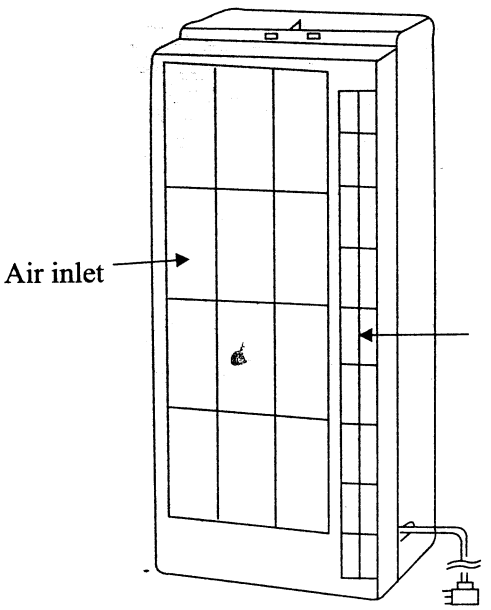
4.MAIN COMPONENTS AND ACCESSORIES' NAME, DEMENTION AND FUNTION

4.1 MAIN COMPONENTS AND ACCESSORIES' NAME

Indoor side



Outdoor side



Remote controller

Display

Signal indicator

Lights up when sending a signal to the unit

Temp.indicator

To show temp.setting selected

Timer indicator

To show timer mode display

Time display

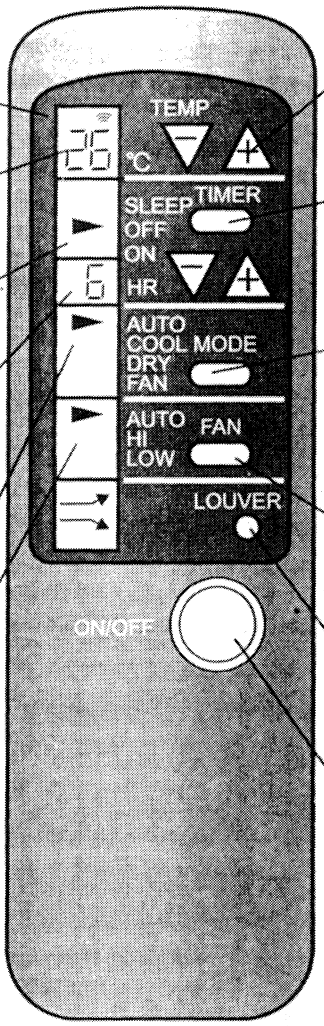
To show the number of hour selected to timer ON/OFF.

Operation mode indicator

To show mode selected

Fan speed indicator

To show Fan speed selected



Operation

Temp. Set

Used to select temp. setting

Timer

Used to set timer setting

Mode

Used to select operation mode

Fan

Used to select desired fan speed

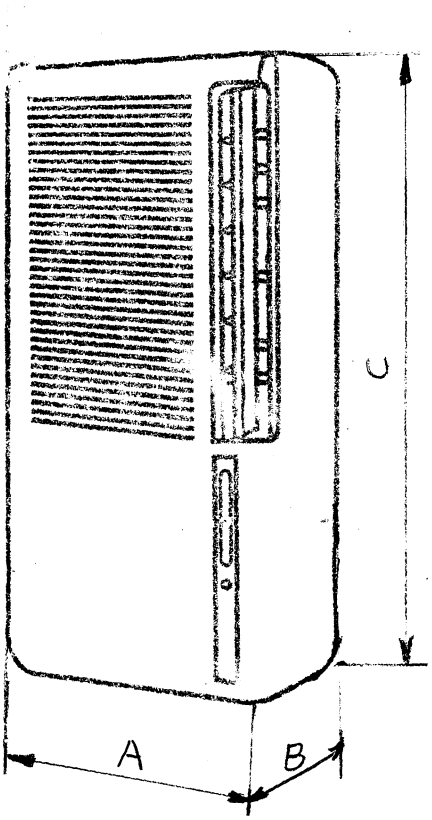
Swing

Used to adjust air flow direction

ON/OFF

Press it to start unit and press it again to stop

4.2 Net Dimension:



Model	A(mm)	B(mm)	C(mm)
AL065ACMAA HS-06C03	342	225	815

FUNCTION

Auto mode

1.Start
Press ON/OFF button

2.Select operation mode
Press the "MODE" button. Every time the button is pressed, operation mode changes in the following order.

AUTO → COOL → DRY → FAN

Select "Auto " mode.

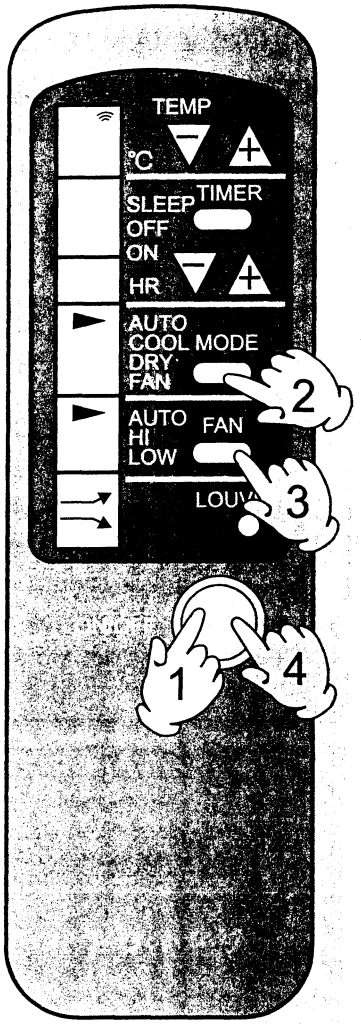
3. Fan speed selection

Press the FAN speed button. Every time it is pressed, Fan speed changes as follows:

AUTO → HI → LOW

Select desired fan speed. Change air flow if necessary

4. Stop
Press ON/OFF button again.



mode. when room,

Hints

In Auto mode, the unit will select operation mode automatically according to room temp.
Auto mode : Air conditioner automatically changes between COOL and DRY and from mode. when room, temp. is over 26℃, in COOL mode; when room temp.is between 26℃ and 22℃, in DRY mode.(more details in DRY operation).
When below 22℃,in FAN mode ,fan speed automatically changes according to operation mode.
In AUTO mode, no temp.figure is displayed.
FAN mode:when air conditioner is only in FAN mode,temp setting is invalid, fan speed can be set as desired.

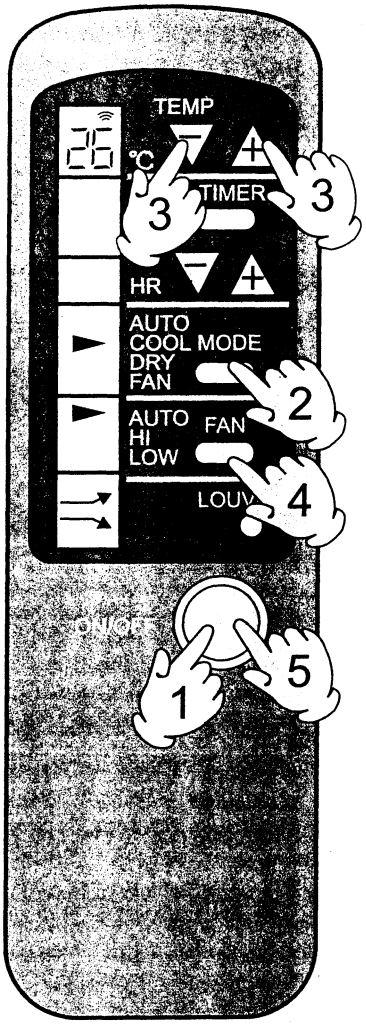
Cooling operation

1. Start
Press ON/OFF button

2. Select operation mode
Press the "MODE" button.Every time the button is pressed,operation mode changes in the following order.

AUTO → COOL → DRY → FAN

Select"cool"mode.



3. Select temp. setting
Select desired temp,by using "TEMP" button.
"△"Each press will increase temp.setting by 1℃.
"▽"Each press will decrease temp. setting by 1℃.
If the button is kept pressed,temp. setting will change quickly to your desired figure.

4. Fan speed selection
Press the "Fan" button, every time it is pressed, fan speed changes as follows:

AUTO → HI → LOW

Select desired setting:
Change air flow direction if necessary .

5.Stop
Press ON/OFF button again.

Cautions:

To protect unit system, don't restart until 3 minutes have elapsed.
If the unit has been running under large humidity for a long time,dew might occur at outlet grating.

Dry Mode

1. Start
Press ON/OFF button

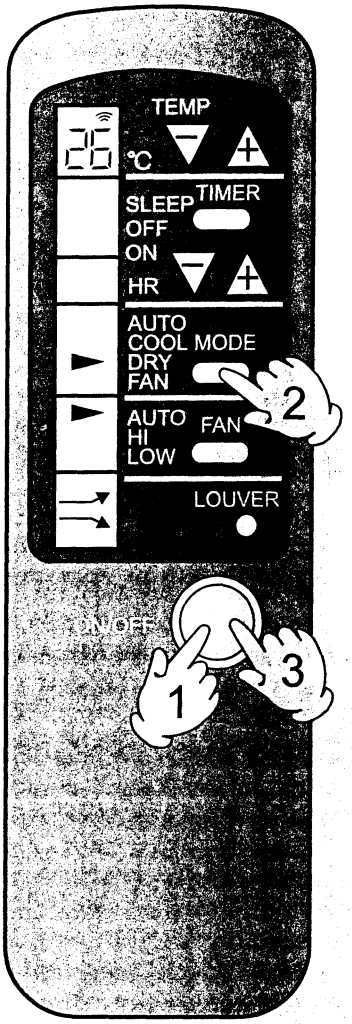
2.Select operation mode

Press the "MODE" button. Every time the button is pressed, operation mode changes in the following order.

AUTO → COOL → DRY → FAN

Select "DRY" mode .
Change air flow direction if necessary,

3.Stop
Press"ON/OFF" button again.



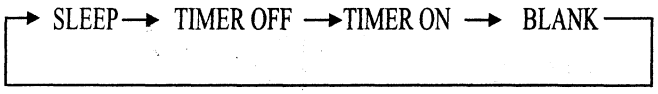
Cautions:

Unit will run intermittently in Dry mode with fan speed at "LOW", regardless of its setting.
Air blown out will be very cold at relatively low room temp.
DRY mode: When room temp. is higher than set temp. unit will in COOL mode; when room temp. drops to set temp. compressor runs intermittently, fan motor will be in low speed.

Timer operation

With this function, unit will start or stop at the time wanted.

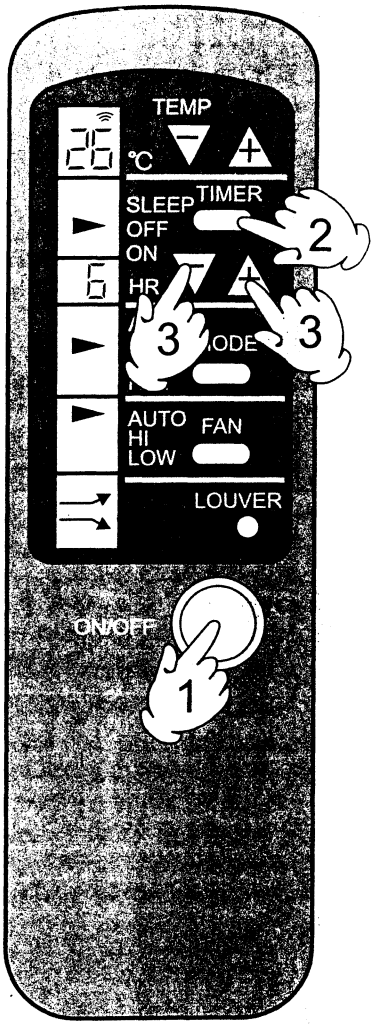
1. Start unit and confirm its operation mode.
 If it's not started, start it and select desired operation mode.
2. Select Timer function
 Press the "TIMER"button . Every time the
 button is pressed; it changes in the following



Select desired mode.(TIMER OFF or TIMER ON)

3. Select time
 Press TIME SET button.
 "△"Each press will increase time setting by 1hour.
 "▽"Each press will decrease time setting by 1hour.
 If the button is kept pressed,time setting
 will change quickly to your desired figure.
 Time setting is available within 1-12Hrs.
 Time displayed shows how many hours later unit
 will start or stop.

To cancel Timer function
Select "Blank" by pressing TIMER button.



Caution

TIMER function is not available in SLEEP mode.

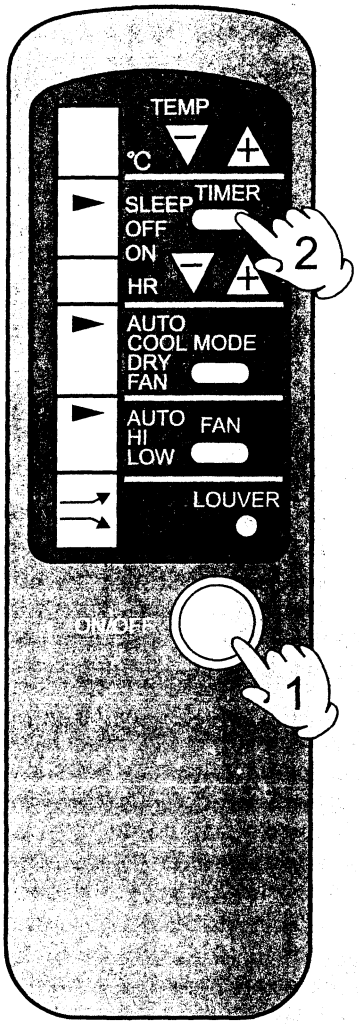
Sleep mode setting

1. Start unit and confirm its operation mode.
   In dry and fan mode, there is no sleep function.

2. Select SLEEP function
   Press the "TIMER" button.Every time the button is pressed , it changes in the following order:

SLEEP → TIMER OFF → TIMER ON → BLANK

Select "SLEEP" function .



Hint

In Sleep function,temp. setting will rise automatically by 1℃ after one hour's cooling operation .One hour later, it will rise by another 1℃and maintain at this temp. until the unit runs for approx. 6 hours.

Fan operation

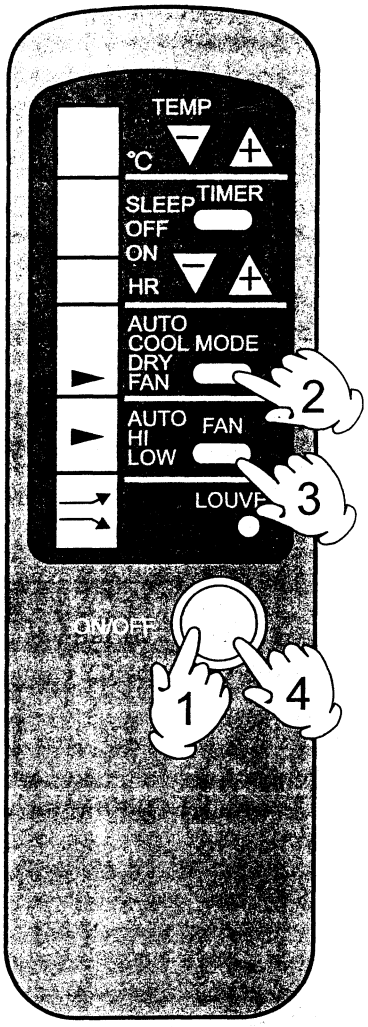
1. Start
Press ON/OFF button

2. Select operation mode

Press the "MODE" button. Every time the button is pressed, operation mode changes in the following order.

AUTO → COOL → DRY → FAN

Select "Fan" mode.
This "Fan" is substituted by "HEAT" for heat type air conditioner



3. Fan speed selection

Press the FAN speed button. Every time it is pressed, Fan speed changes as follows:

HI → LOW

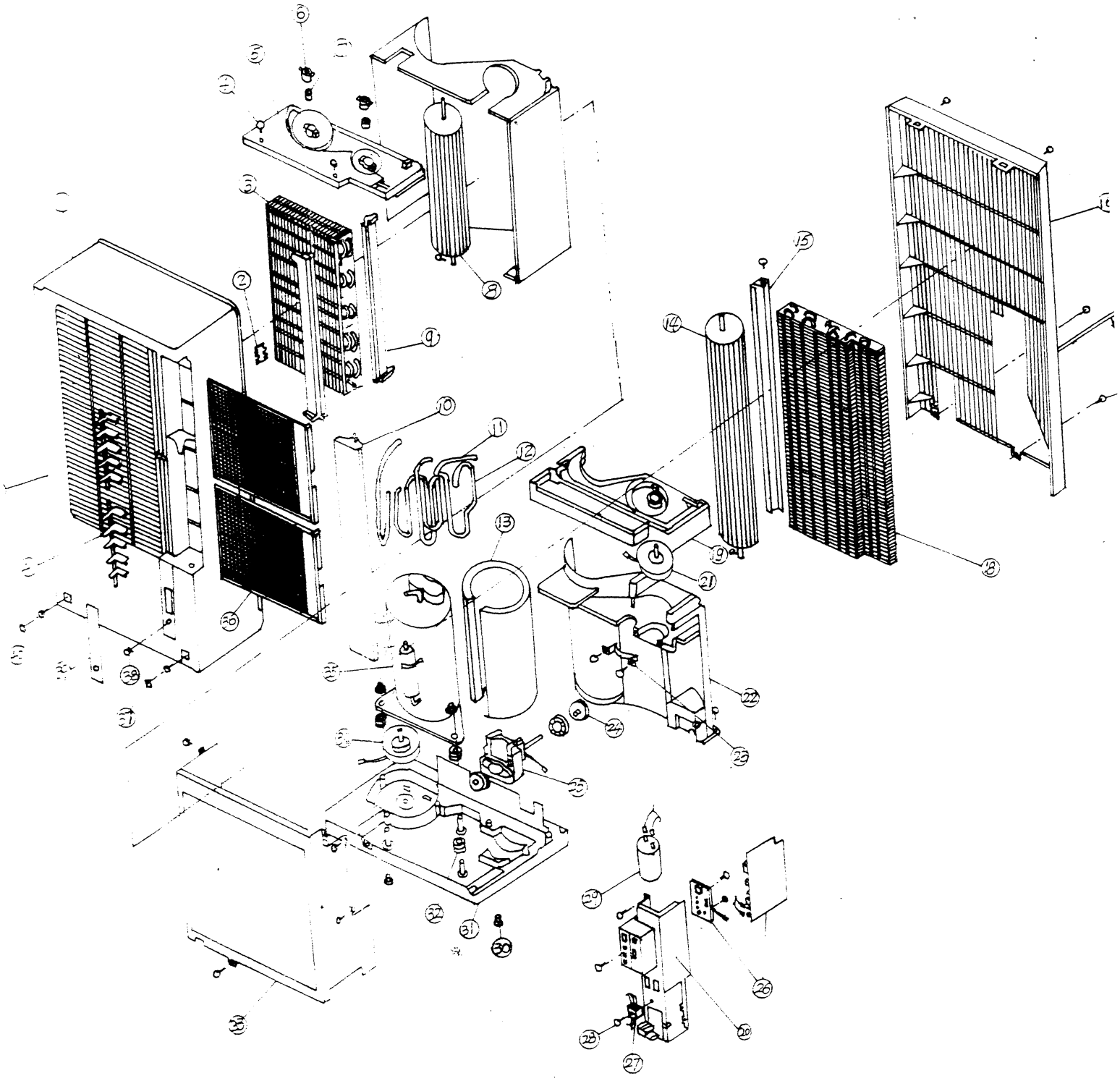
Select desired fan speed. Change air flow if necessary.

4. Stop
Press ON/OFF button again.

Hints

Compressor won't start in FAN mode, only fan motor will run at selected speed.

5. Knock-Down Drawing



Model:AL065ACMAA,Hs-06C03

No.	Name	Special no.		Quantity	Description	Damageable parts(yes or no)	Cost price
		Al065ACMAA	Hs-06C03				
1	Front veil	1231214	1231214	1		N	
2	Fixing clip	1436026	1231190	1		N	
3	Evaporator	0400116	0400116	1		N	
4	Bolt	5002026	5002026	4		N	
5	Top case	1431648	1431648	1		N	
6	Bearing seat with oil	1452658	1452658	1		N	
7	Bearing body	2343012	2343012	1		N	
8	Indoor flow through fan	2300050	2300050	1		Y	
9	Draught foam	1433652	1433652	1		N	
10	Wind guiding board	1231216	1231216	1		N	
11	Discharge pipe of compressor	2111960	0500472	1		N	
12	Suction pipe	2111974	2111974	1		N	
13	Sound insulation cushion	1762900	1762900	1		N	
14	Outdoor flow through fan	2300051	2300051	1		Y	
15	Wind guiding board	1301646	1301646	1		N	
16	Rear protection board	1231213	1231213	1		N	
17	bolt	5002116	5002116	1		N	
18	condenser	0400131	0400131	1		N	
19	Bracket board	1231215	1231215	1		N	
20	Electric box	1431650	1431650	1		N	
21	Indoor plastic sealing motor	3000300	3000120	1		Y	
22	flue	1433651	1433651	1		N	
23	Indoor motor fixed board	1101152	1101152	1		N	
24	Water casting off plate	0010200940	0010200940	1		N	

No.	Name	Special no.		Quantity	Description	Damageable parts(yes or no)	Cost price
		A1065ACMAA	HS-06C03				
25	Pole covering motor	3000302	3000124	1		Y	
26	PC board	3300469	0600267	1		Y	
27	Terminal board	4000082	4000082	1		Y	
28	bolt	5002114	5002114	2		N	
29	Compressor capacitor	0010400023	3600156	1		N	
30	Rubber plug	2952028	2952028	1		N	
31	chassis	1231212	1231212	1		N	
32	Rubber cashion	0010200082	/	3		N	
33	Front protection board	1101153	1101153	1		N	
34	Outdoor motor fixed board	3000301	3000121	1		Y	
35	compressor	2000216	2000086	1		Y	
36	filtor	2400091	2400091	2		Y	
37	Bolt cover	1436655	1436655	2		N	
38	Switch of meting an emergency	3400108	3400108	1		Y	
39	Displaying board	3300096	3300096	1		Y	
40	blot	5002026	5002026	2		N	
41	Horizontal blade	1431657	1431657	10		N	
42	Connecting pole	1431656	1431656	1		N	

7、THE FUNCTION OF ELECTRIC CONTROL INTRODUCTION

WINDOW TYPE AIR CONDITIONER
CONTROL FUNCTION MANUAL

1.1 Brief introduction

1. Sections of the control: remote controller, main control board and indicator panel.
2. Objects to be controlled: compressor, 2- step tapped speed-control fan, throttle step motor and pumping motor.
3. Measurement parameters: room temperatures.
4. Operation modes: AUTO, COOL, DRY and FAN ONLY operations.
5. Other functions: SLEEP, TIMER ON, TIMER OFF, air direction auto control, compressor protection, forced operation and sensor failure indication.

1.2 Main performance indices of the system.

1. Ambient temperatures of operation: 0~60℃,RH30%~95%
2. Storage temperatures: -20~70℃,RH30%~95%
3. Range of input single-phase voltage: AC100V-20%~AC100V+15%
4. Whole unit current: 180mA
5. Output loading capacity: compressor 100V~-100v~/30A
   fan output: 100V~/3A
   throttle output:12VDC/5W
6. Power supply of remote controller: 2 Size 7 batteries, 1.5V /piece
7. Control range of the room temperatures:16-30℃
8. Setting range of the timer: 1-12 hrs
9. Remote control distance: upwards of 8 m

1.3 Functions description

The green indicator on the indicator panel is the compressor indicator, which will light up when the compressor starts and go out when the compressor stops.

The yellow indicator on the indicator panel is the timer indicator, which will light up at timer-on and go out at timer-off.

The red indicator on the indicator panel is the power indicator, which will light up on reception of emergency or remote starting signal after the air conditioner is energized and will go out on turnoff of unit.

When remote transmission is given out, the buzzer will ring once showing the reception is normal.

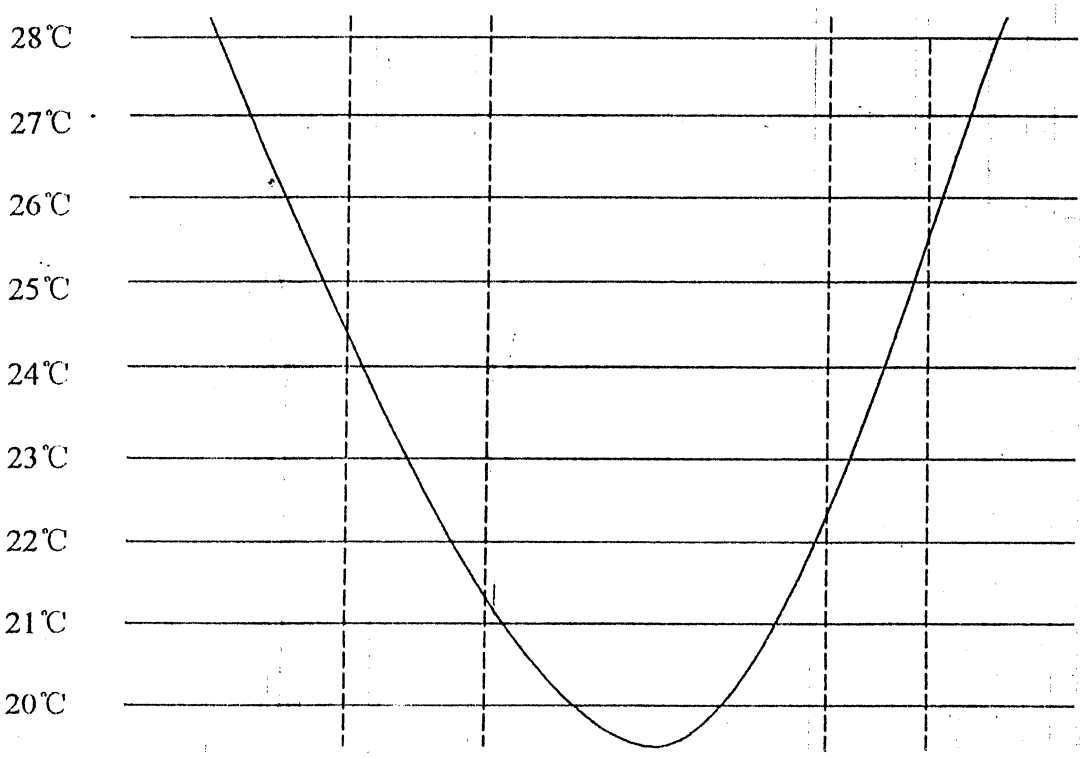
1 Auto operation mode

(1)The entry mode is fixed on as per room temp (TX) and the normal set temp TO is determined automatically for the first access to the auto operation mode.

Room temp (TX)	Operation mode	Normal set temp (TO)
TX≥26℃	Cooling	26℃
22℃≤TX<26℃	Dehumidifying	22℃
TX<22℃	Fan only	

Logical relation of RT variation & function change -over

RT



Cooling Dehumidifying Fan-only Dehumidifying Cooling

Compressor on on/off on /off Compressor on

The entry mode is fixed on according to room temp (TX) and normal set temp TO is determined automatically when the temp falls.

Room temp (TX)	Operation mode	Normal set temp (TO)
TX≥25℃	Cooling	26℃
22℃≤TX<25℃	Dehumidifying	22℃
TX<22℃	Fan only	

The entry mode is fixed on according to room temp (TX) and normal set temp TO is determined automatically when the temp rises.

Room temp (TX)	Operation mode	Normal set temp (TO)
TX<23℃	Fan only	
23℃≤TX<26℃	Dehumidifying	22℃
TX≥26℃	Cooling	26℃

(2)Auto fan is selected according to the following way.

2.1 On cooling, auto fan is selected as per the following way (To stands for set temp and Tx for RT).

Initial power on:

Compressor on:

Temp difference (Tx-To) Fan speed selection

Tx-To≤2℃ Low fan

Tx-To>2℃ High fan

Low fan for compressor off

Non-initial power on:

Constant high fan for compressor on

Constant low fan for compressor off

2.2 For dehumidifying and fan only constant low fan is set.

(3)Air direction can be selected to swing in a to-and-fro motion or stop at a certain angle.

(4)Fan speeds can be selected accordingly as per temp conditions only after 5 minutes operation at the selected step of fan speed (to prevent frequent change-over of fan speeds).

2Cooling operation mode

(To stands for set temp, Tx stands for RT).

(1)Temp settings can be selected in the range 16℃to 30℃, the step being 1℃.

(2)Compressor starts at TX≥TO, fan running at the set value; Compressor remains unchanged at TO>TX>TO-2℃.

(3)Compressor stops at TX≤To-2℃,fan running at the set value.

(4) For high, low & auto fans one mode can be selected

Auto fan is selected as per the following way.

Compressor on:

Temp difference (Tx-To) Fan speed selection

Tx-To≤2℃ Low fan

Tx-To>2℃ High fan

Low fan for compressor off

Fan speeds can be selected accordingly as per temp conditions only after 5 minutes' operation at the selected step of fan speed(to prevent frequent changeover of fan speeds).

(5)Air direction can be selected to swing in a to-and-fro motion or stop at a certain angle.

3 Dehumidifying operation mode

(To stands for the temp, Tx stands for RT).

(1)Temp settings can be selected in the range 16℃ to 30℃,the step being 1℃.

Compressor starts at TX>TO+2℃,fan running at the set value; For fan speeds of high, low and auto, one mode can be selected.

Compressor on:

Temperature difference (Tx-To)	Fan speed selection
Tx-To≤2℃	Low fan
Tx-To>2℃	High fan

Low fan for compressor off

Low fan is set when compressor is delay protected

Fan speed can be selected accordingly as per temp conditions only after 5 minutes' operation at the selected step of fan speed (to prevent frequent changeover of fan speeds).

(2)Dehumidifying begins at TO+2℃≥TX>TO. Compressor is on for 10 minutes and off for 6 minutes and keeps running in this manner, the fan speed being constant low fan; Compressor stops at TX≤TO and fan runs at low speed with dehumidifying function ineffective.

(3)Air direction can be selected to swing in a to-and-fro motion or stop at a certain angle.

4 Fan only mode

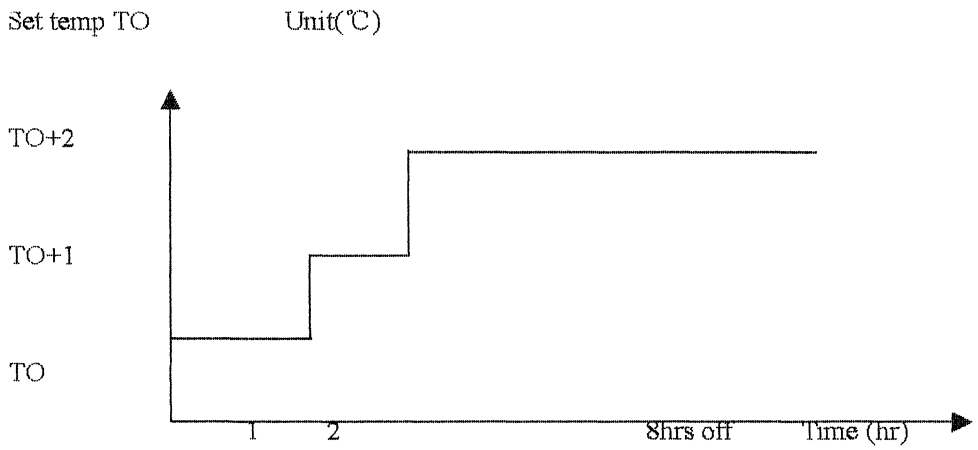
(1)High, low and auto fan modes can be selected.

(2)Low fan speed is selected for auto fan.

(3)Air direction can be selected to swing in a to-and-fro motion or stop at a certain angle.

5 Sleep operation

The control will stop the unit automatically 8 hours after entering sleep operation. Under operation conditions of the unit the set temp changes as per the curve in the diagram below.



6 Timer function

(1)Users can select timer on and timer off, the setting time for timer being 1-12 hours.

(2)When timer on is selected , the timer indicator will light up, the other indicators will go out and all the external settings will be off .The control will start the unit when the set time is up.

(3) When timer off is selected, the timer indicator will light up and the other indicators and the external setting state will remain unchanged. The control will stop the unit when the set time is up.

7 Compressor protection function

(1)To protect the compressor, there should be 3 minutes' delay after unit stop before it is allowed to be restarted.

8 Forced cooling button/auto operation button

(1)Touch the button (less than 5 seconds) and unit will go into auto operation mode after the buzzer rings once ,the air direction changing in a to-and-fro movement. Press the button again and unit will back out of auto operation mode after the buzzer rings once.

(2)Keep the button depressed for more than 5 seconds and unit will go into forced cooling mode after the buzzer rings twice. Compressor is on, fan runs at high speed and the air direction changes in a to-and-fro movement. Compressor starts as per the following rules.

*Inlet air temp is ineffective .

**For the initial power on, press the button and enter forced cooling mode. Compressor and fan can be started at once without 3 minutes' protection of the compressor. Otherwise compressor has 3 minutes' delay protection.

(3)In unit on state, the control will stop the unit when this button is pressed.

9.Sensor failure display function

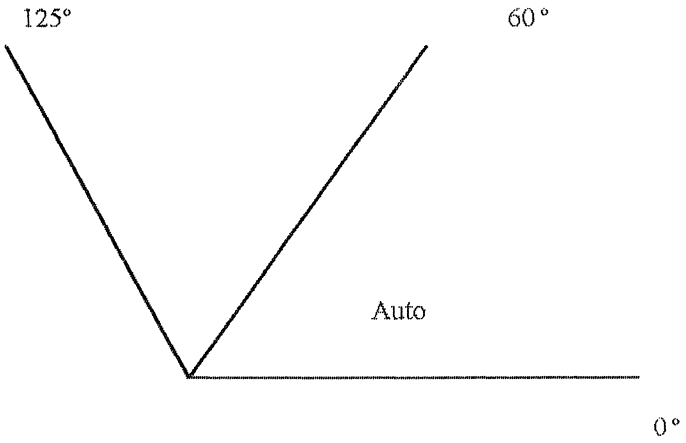
Open or short circuits of the temp sensor: The control has no output and the power lamp flashes at 1 Hz. No control signals and button instructions are received now.

10. Air direction control function

For the initial power on, when the throttle control button on the remote controller is pressed with the throttle fully open, the throttle louver will swing in a to-and-fro motion within 0°to 60°. when the throttle control button on the remote controller is pressed again, the throttle louver will stop at any position between 0 ° -60 °.

The scheme is as follows :

Initial power on



11.Control output of the water pumping motor

(1)Compressor on, pump on; Compressor off, pump off after 3 minutes' delay.

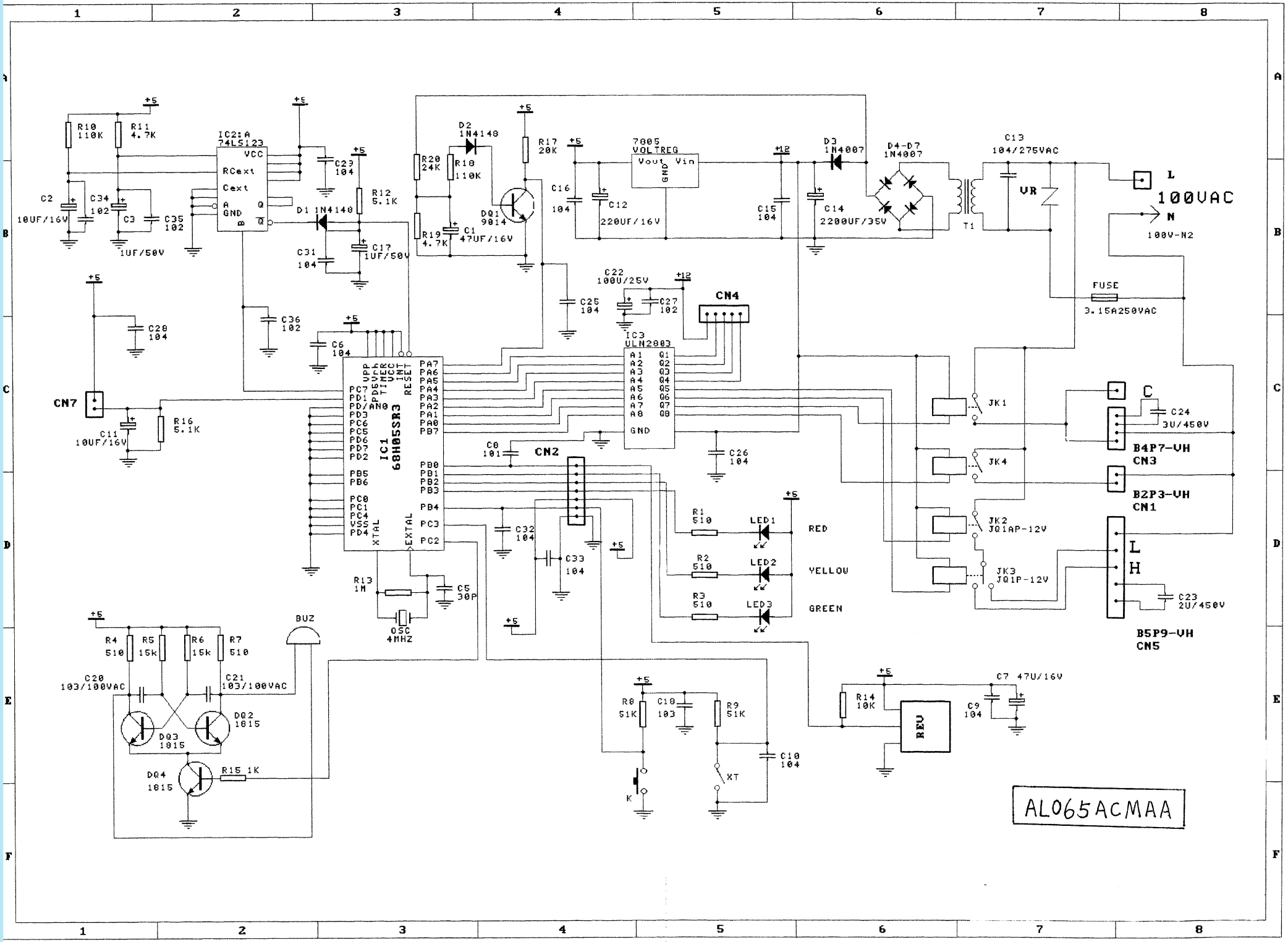
(2)the pump keeps running in dehumidifying mode.

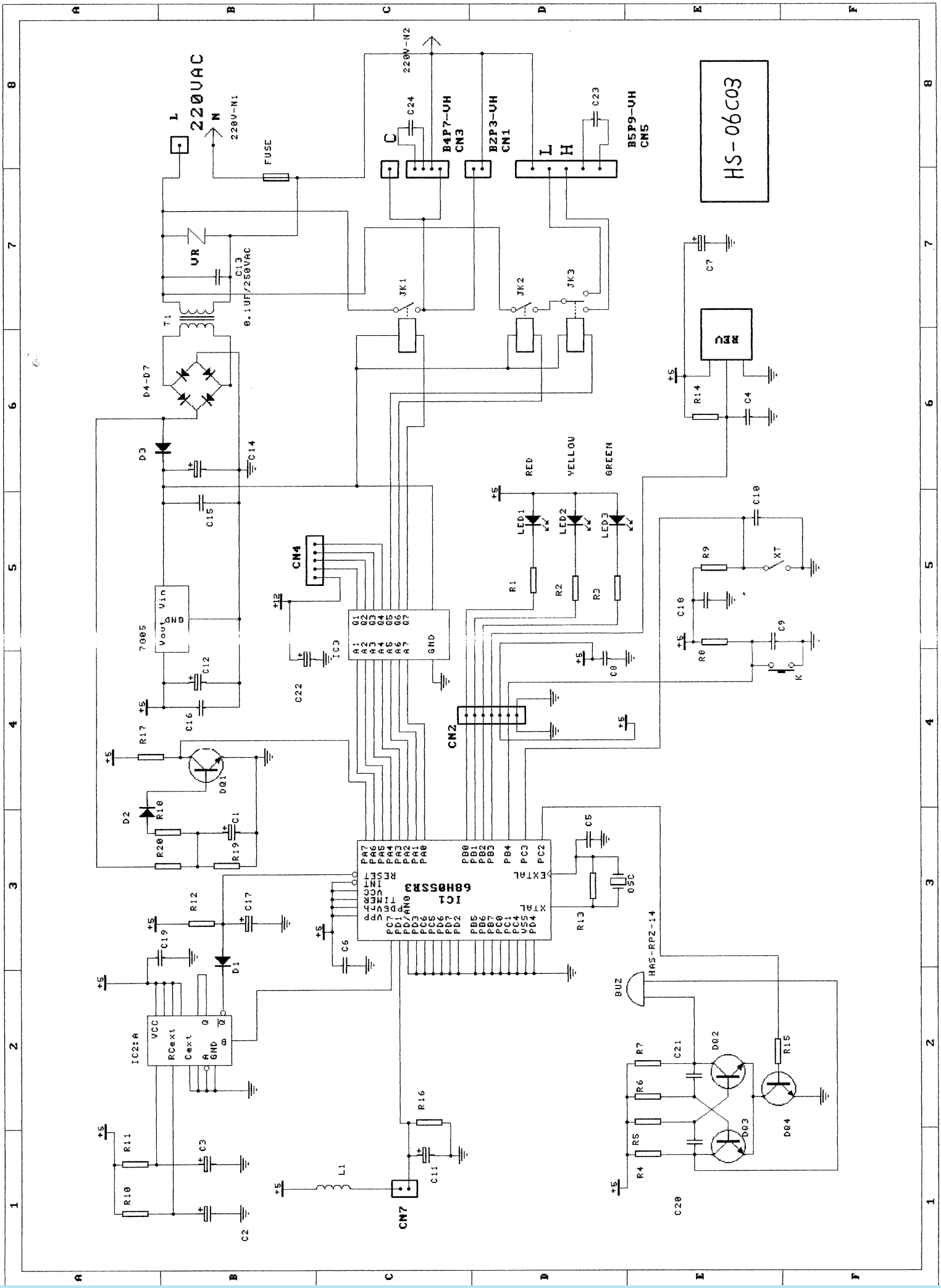
(3)When the unit stops, the pump stop will be delayed for 3 minutes .

12 220V-50Hz

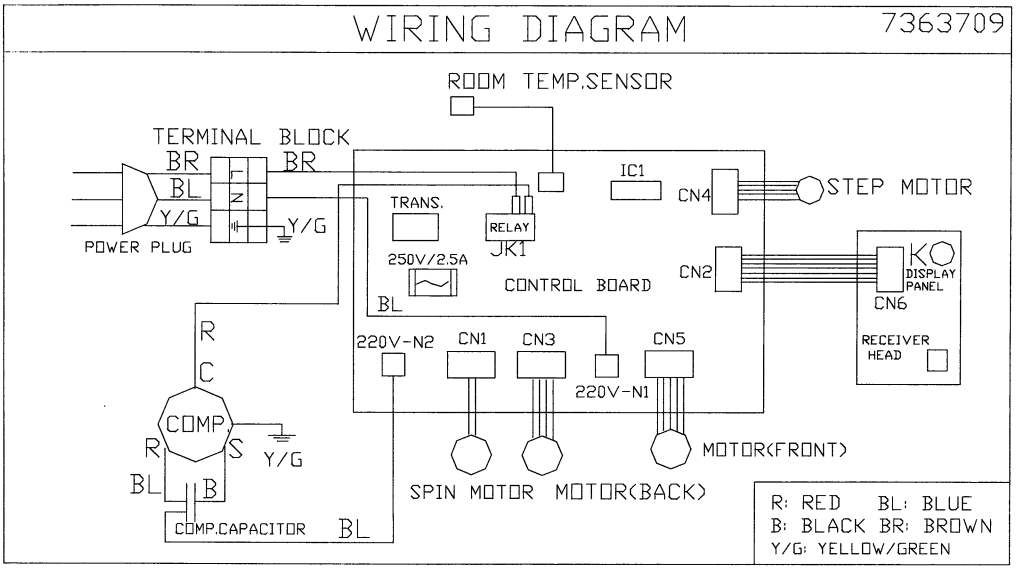
The pumping motor control output

Compressor on, pump on; Compressor off, pump off.





8、WIRING DIAGRAM



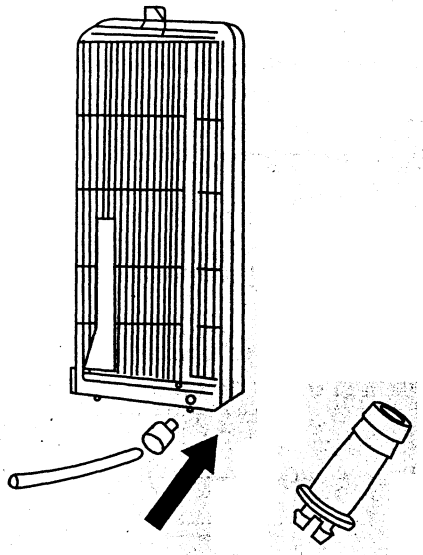
HS-06C03
AL065ACMAA

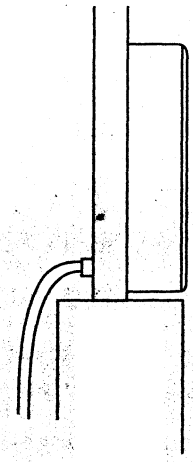
9、MAINTENANCE AND TROUBLE SHOOTING

MAINTENANCE

Disposal of condensate water

The condensate water is usually aggregated in the bottom plate. Air-conditioner's water- swinging system can make the condensate water splash onto the condensator, which improve the cooling effect of air-conditioner. In the seasons or areas with higher humidity, too much condensate water is collected and can overflow from the overflow hole at the back of air-conditioner . To prevent from wetting the windowsill, please install the water outlet pipe connection and drainage hose .





Operation range of vertical-typed air-conditioner

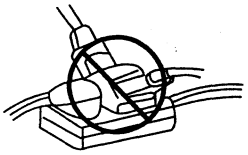
Cooling	Indoor side	Maximum	D.B. 32℃	W.B. 23℃
		Minimum	D.B. 18℃	W.B. 14℃
	Outdoor side	Maximum	D.B. 43℃	
		Minimum	D.B. 18℃	

Warning

- Electrical wiring: must use special wires supply. If it is damaged it must be changed by the qualified persom.
- Change on location: when need to change the air conditioner location,please contact the selling department where you buy the air conditioner.
- The waste battery should be disposed properly .
- The wiring methed should be in line with the local wiring standard.

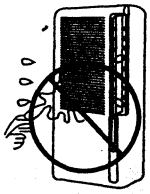
Precautions

Please use special power.Forbidden to use multi-plug socket.

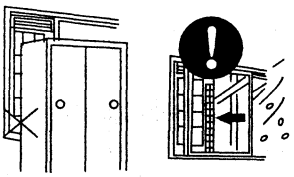


Operation with wet hands is forbidden.

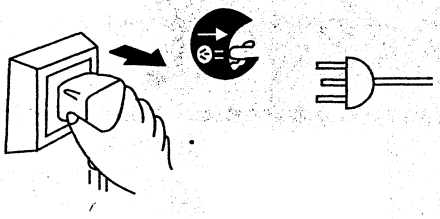
Don't splash water onto the machine



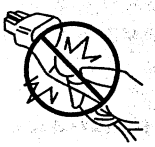
Don't block air inlet/outlet at the indoor and outdoor sides



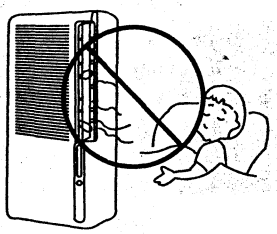
Plug off the power plug when cleaning and not be used for a long time



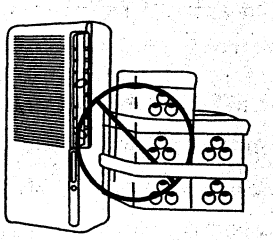
When plug off the power supply don't use hands to drag the wire .



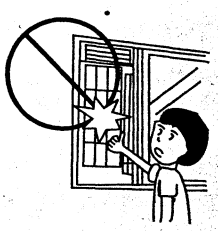
Don't blow cool wind directly to the body for a long time avoiding getting cold.



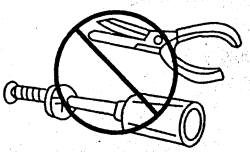
Don't make the cool wind to blow the plant directly.
Don't use air conditioner for food preservation plant cultivation or animal breeding.



Don't insert wood bar, steel wire into the unit avoiding any hazards or faults.

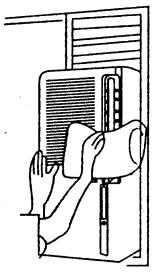


Don't dismantle air conditioner by youself.



MAINTENANCE

Note : Before cleaning the air conditioner, please plug off the power supply.



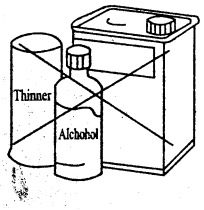
1. Cleaning the unit

Please use soft dry cloth to clean the machine .

When too dirty, use soft cloth with the neutral detergent .

After wiping ,be sure to clean off the detergent on the unit.

Note:Don't use corrosive materials , such as gasoline, alchohol, solvent, etc.



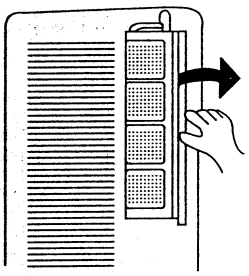
2. Clean air filter(once every week)

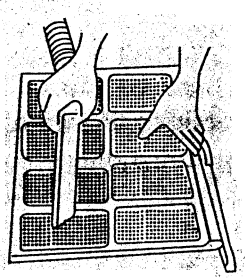
a. As illustrated, take out the air filter

b. Use vacuum cleaner or neutral detergent to remove the dust.

c. Place the filter in the shade and dry it completely

d. Install the filter again.





3. when the air-conditioner not be used for a long time

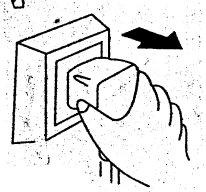
a. Dry the internal part of the air conditioner, set temperature to 32℃ and operate for 3-4hours to make the internal part of the air conditioner dry.

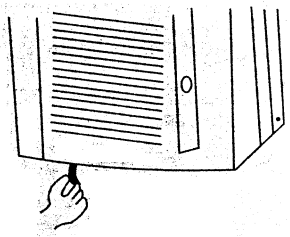
b. Plug off the power supply .

c. Drain the moisture in the air conditioner.

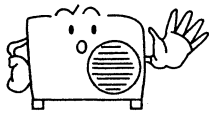
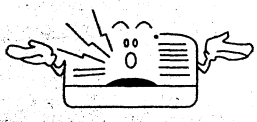
d. Clean the filter screen .

e. Take out the battery in the remote controller.



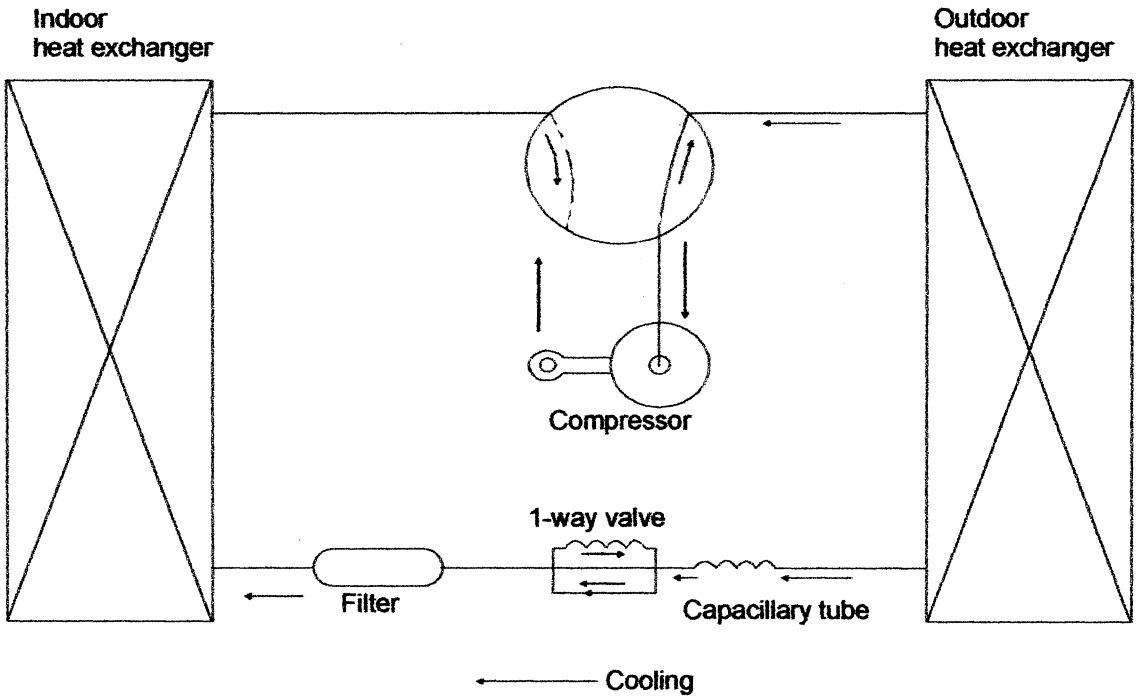


Before asking for service, check the following first.

	Phenomenon	Cause or check points
Normal Performance inspection	The system does not restart immediately. 	• When unit is stopped ,it won't restart immediately until 3 minutes have elasped to protect the system. • When the electric plug is pulled out and reinserted, the protection circuit will work for 3 minutes to protect the air conditioner.
	Noise is heard. 	• During unit operation or at stop, a swishing or gurgling noise may be heard. At first 2-3 minutes when unit starts this noise is more noticeable. (This noise is generated by refrigerant flowing in the systen.) • During unit operation , a cracking noise may be heard. This noise is generated by the casing expanding or shrinking because of temperature changes . • Should there be a big noise from air flow in unit operation , air filter may be too dirty.
	Smells are generated.	• This is because the system circulates smells from the interior air such as the smell of furniture,cigarettes.
	Mist or steam are blown out. 	• During COOL or DRY operation,indoor unit may blow out mist . This is due to the sudden cooling of indoor air.
Double check	Does not work at all 	• Is electric plug inserted? • Is there a power failure? • Is fuse blown out ?
	Poor cooling 	• Is the air filter dirty? Normally it should be cleaned every 15days. • Are there any obstacles in intet and outlet ? • Is temperature set correctly? • Are there some doors or windows left open? • Is there any direct sunlight through the window during the cooling operation?(Use curtain) • Are there too much heat sources or too many people in the room during cooling operation?

Application temp. range of air conditioner -7℃~43℃.

10、SYSTEM FLOW CHART



11、INSTALLATION AND REPAIRIN

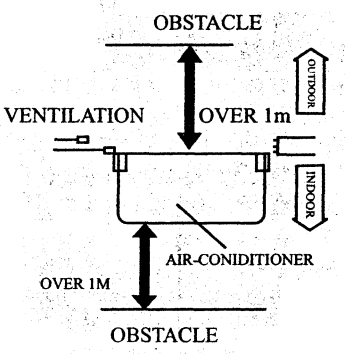
Installation instruction

Power supply

1. Air-conditioner must use special power supply circuit (above 10A).The wiring is made by the qualified electrician according to the wiring rules by national standard regulation.
2. After installation, should turn on the power for electric leakage test.

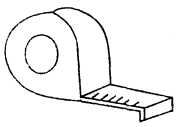
Choose installation location

1. Choose the strong window to install the air-conditioner to prevent resonance and noise due to less strength of the windows.
2. The location should have good ventilation to prevent direct sunlight . No obstacles at both the air inlet and outlet of the indoor/outdoor sides (see the illustration).
3. If the strength of the window not good and cause resonance and noise, please handle by "special installation method listed behind.

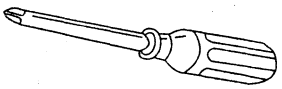


Tools necessary(prepared by the user)

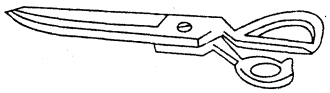
One 2m ruler



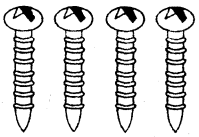
One cross screw driver



One pair of scissors

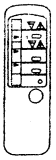


Accessories



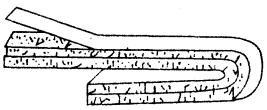
Wood screw (4 pieces)

Self-tapping screws(8)



Remote controller

Fixing screw



Foam seal strip

(Two pieces)

Seal ring

Water outlet pipe

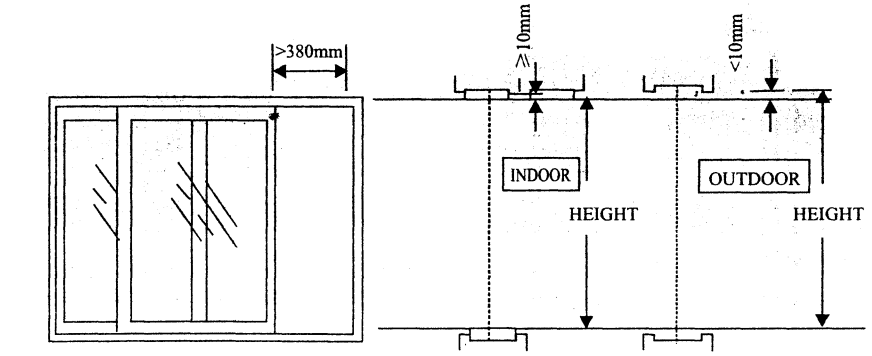
Installation instruction

Preparation before installation

Please find out the window type same as that of your window

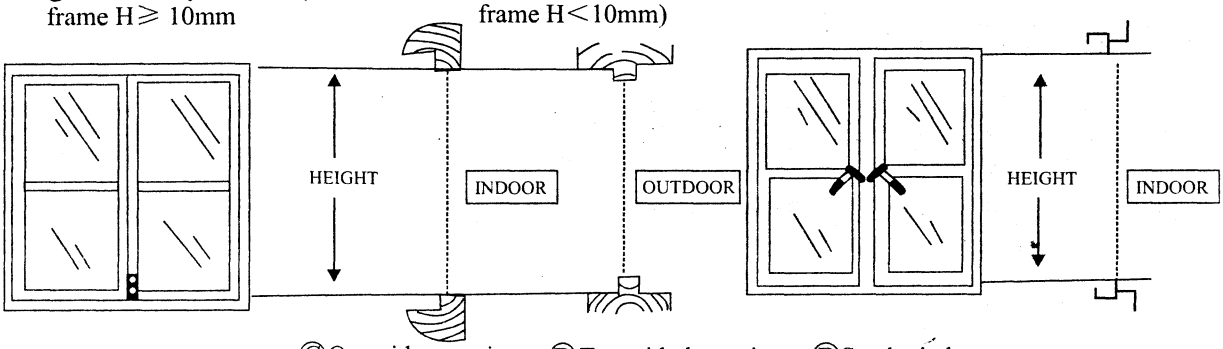
Type	Standard window	Low window
Ⓐ Alumi. alloy window (window frame H≥ 10mm	Height 910-1400mm	Height 844-909mm
Ⓑ Alumi. alloy window (window frame H＜10mm)	Height 940-1400mm	Height 874-939mm
Ⓒ One-side opening wooden window		
Ⓓ Two-sided opening wooden window		
Ⓔ Steel window	Height 910-1400mm	Height 844-909mm

- Frame installation method is chosen according to window type.
- Choose the left or right side of the window for installation.



Ⓐ Alumi alloy window (window frame H≥ 10mm

Ⓑ Alumi alloy window (window frame H＜10mm)



Ⓒ One-side opening wooden window

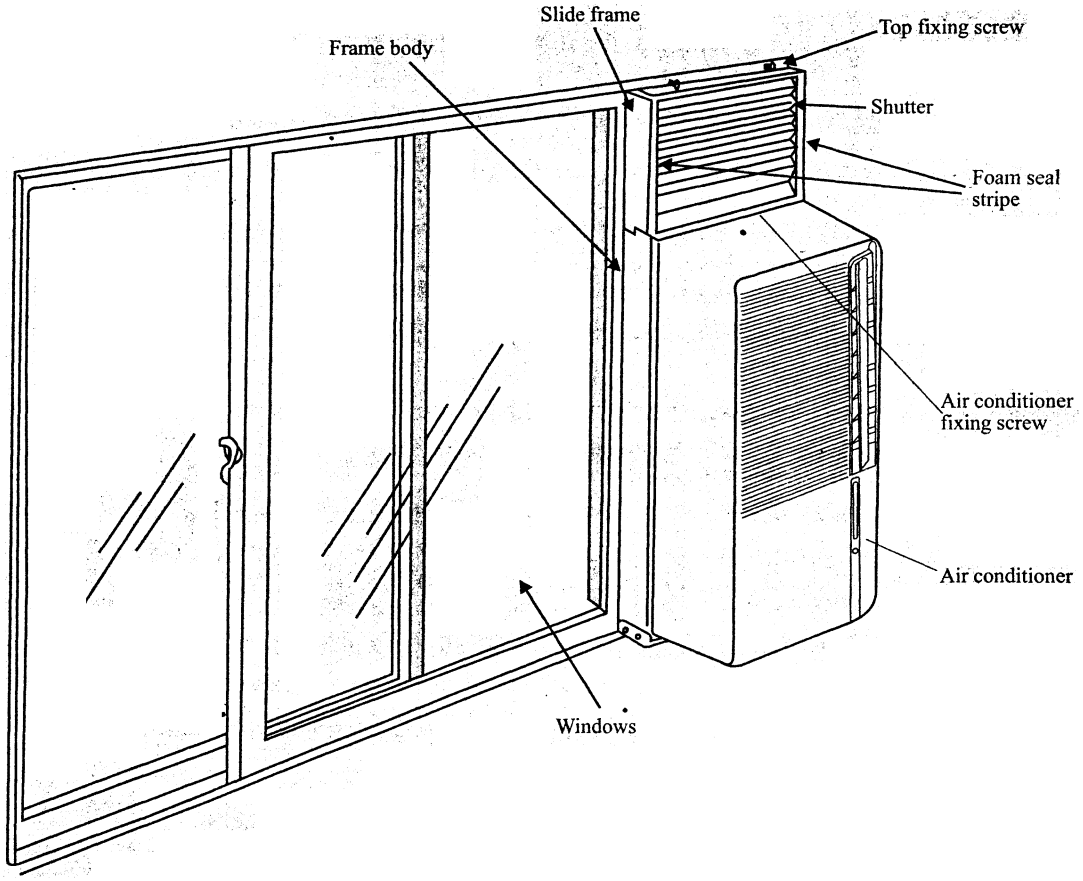
Ⓓ Two-sided opening wooden window

Ⓔ Steel window

Installation procedures

1. Installation support frame (the frame installation mode is fixed according to the window actual type, for the specific installation mode, see behind).
2. Install the air-conditioner (for the details see the air-conditioner installation behind).
3. Indoor/outdoor sealing. After air-conditioner installed, block the gap between support frame and one window sash with heat insulating material to prevent the leakage of indoor cool air. The specific method is decided according to the use'sactual condition.
4. Start the machine and see whether the operation is normal or not. If abnormal , adjust with the reference to instruction manual. If can't solve the problem ,please contact the dealer.

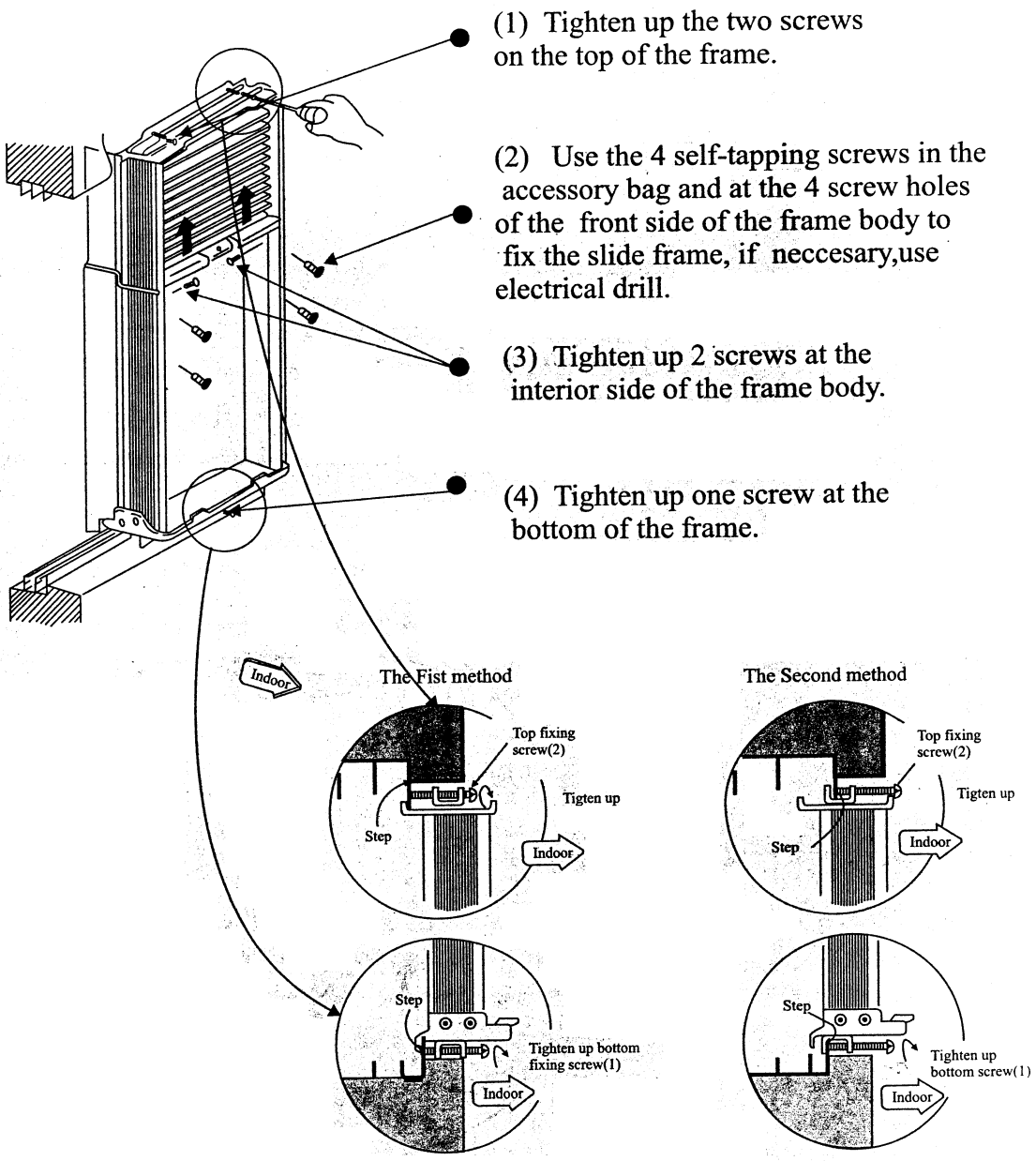
Note: should plug off the power supply when in thunder or rain weather or not in use for a long time.



Installation steps

A. Installation on aluminum alloy window (window frame H≥10mm, height =910-1400mm)

Install the frame according to the following step(1),(2),(3), and (4).

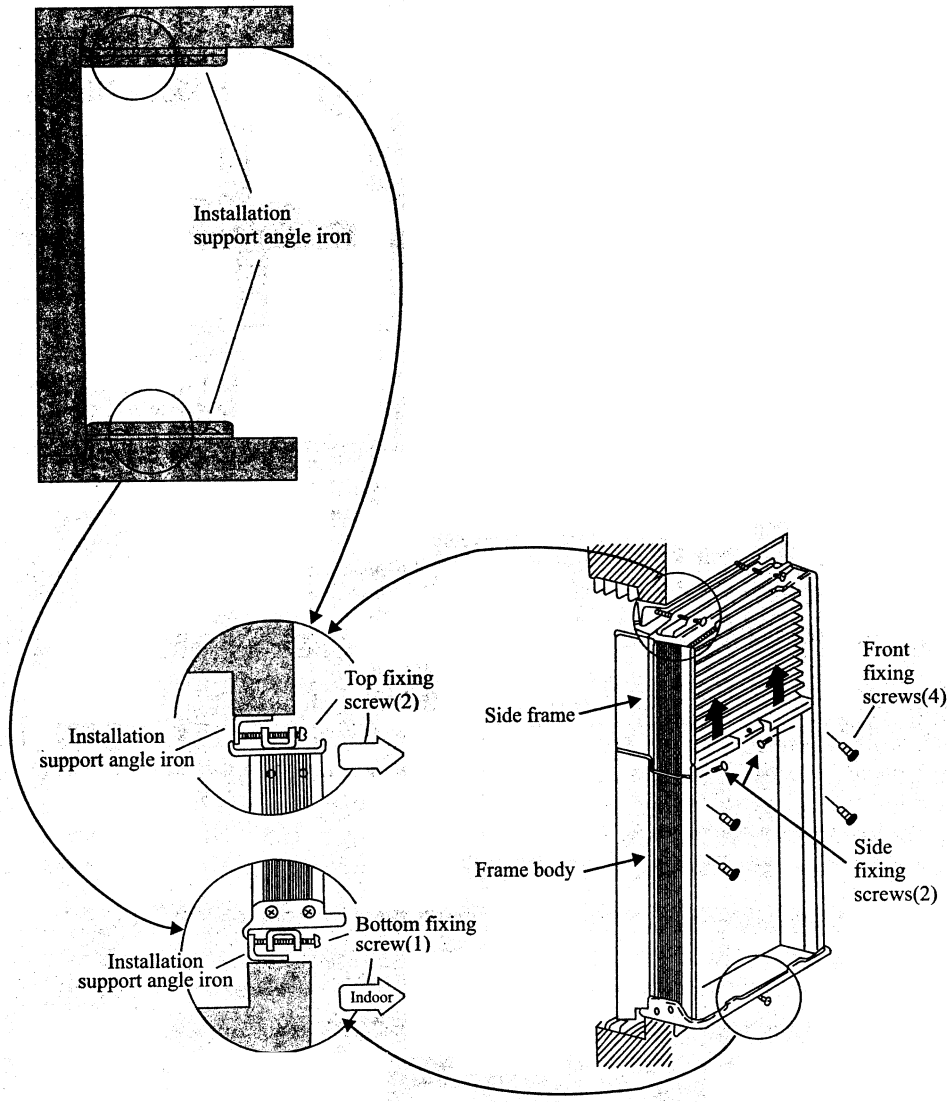


Installation steps

B. Installation on aluminum alloy window (window frame H＜10mm,height =910-1400mm)

(1) According to the positions illustrated , use 4 wood screws to install 2 pieces of auxiliary angle iron.

(2) According to the steps of Class A windows, install the frame onto the auxiliary angle iron.



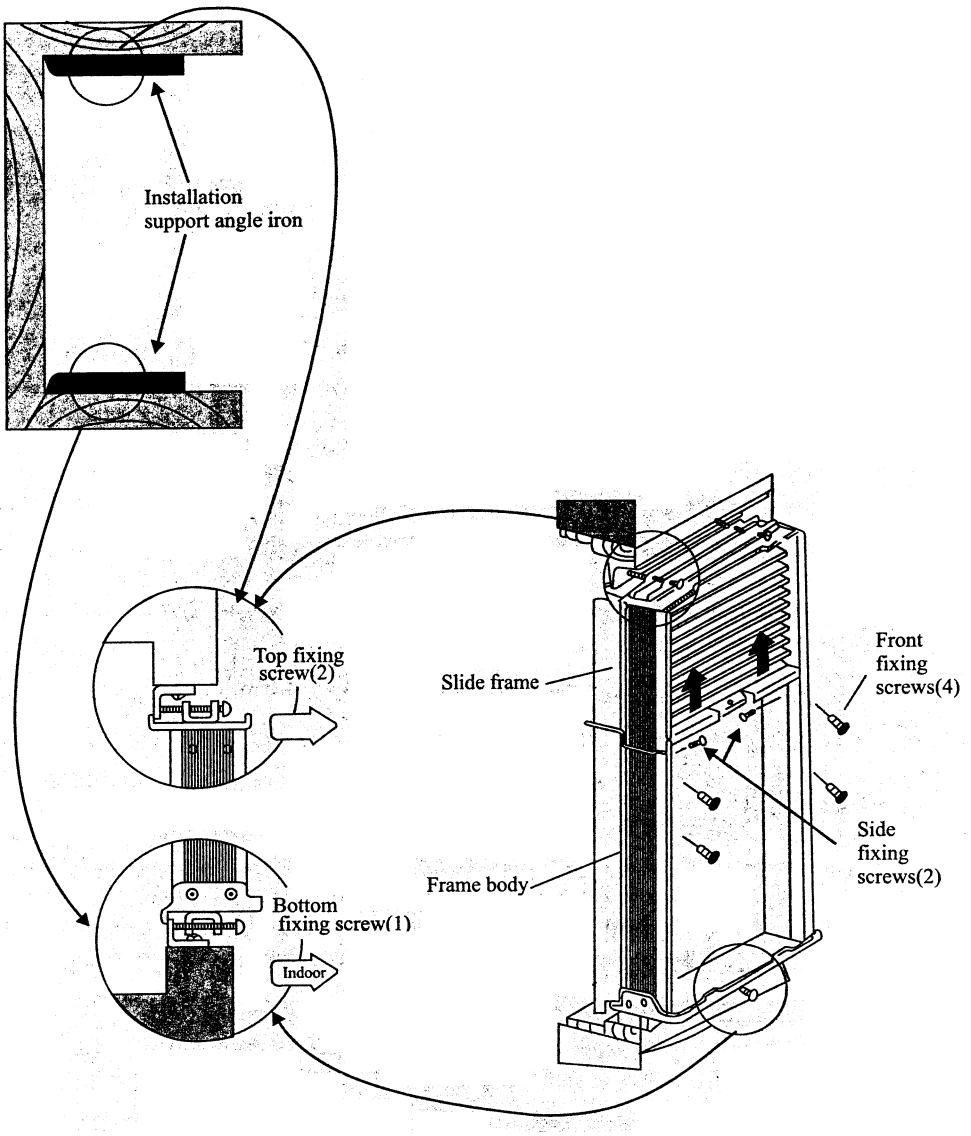
Installation steps

C. Installation on one-sided opening wooden window

(1) As illustrated, use 4 screws to fix well 2 pieces of angle irons.

(2) According to the steps of Class A windows, fix well the frame onto the auxiliary angle iron.

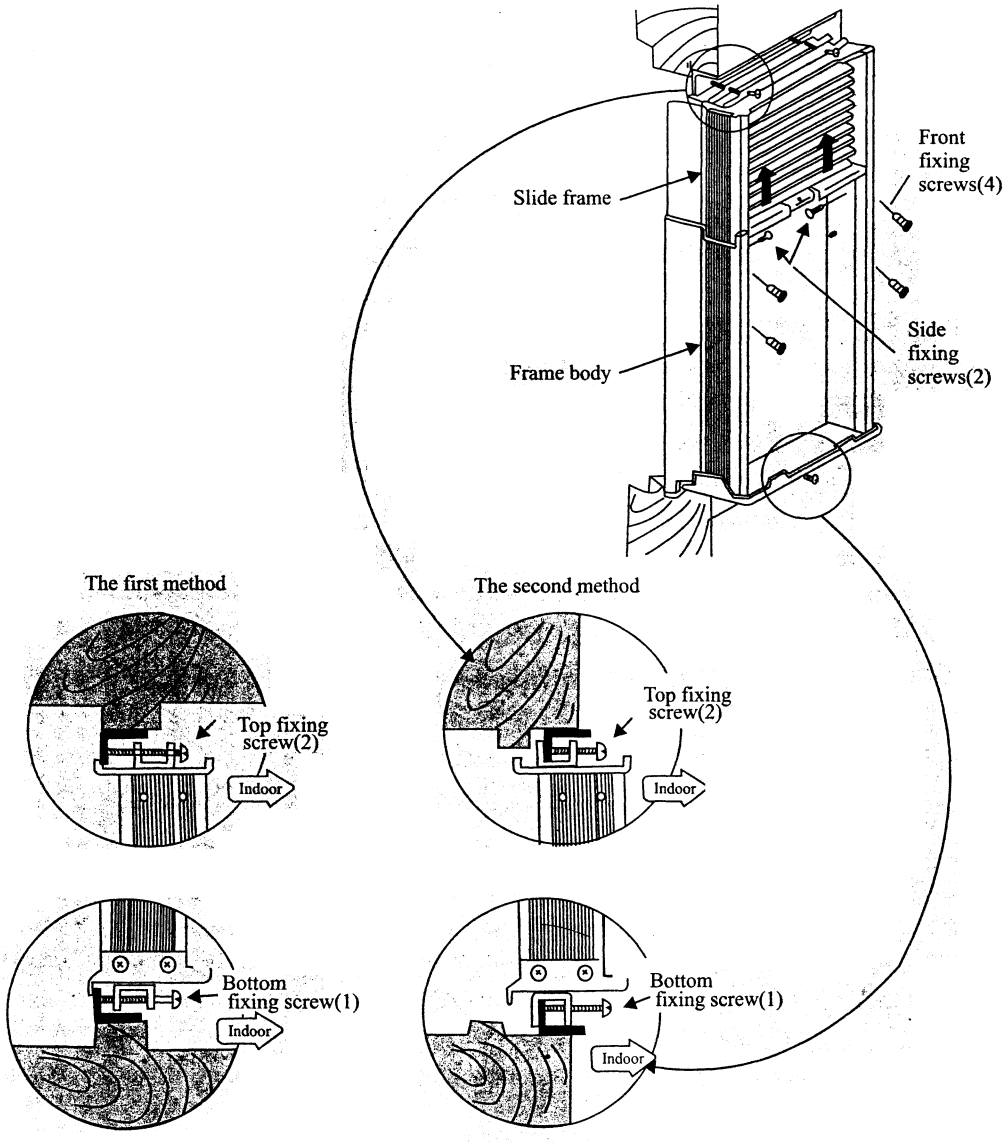
Note: Wooden window should be strong and free from being rotten and damaged.



Installation steps

D. Installation on two-sided opening wooden window
(1) As illustrated, use 4 screws to fix 2 pieces of angle irons well.
(2) According to the steps of Class A windows , fix well the frame onto the auxiliary angle iron .

Note: 1) Wooden window should be strong and free from being rotten and damaged.
2) Can choose 1st installation method or 2nd installation method to install.

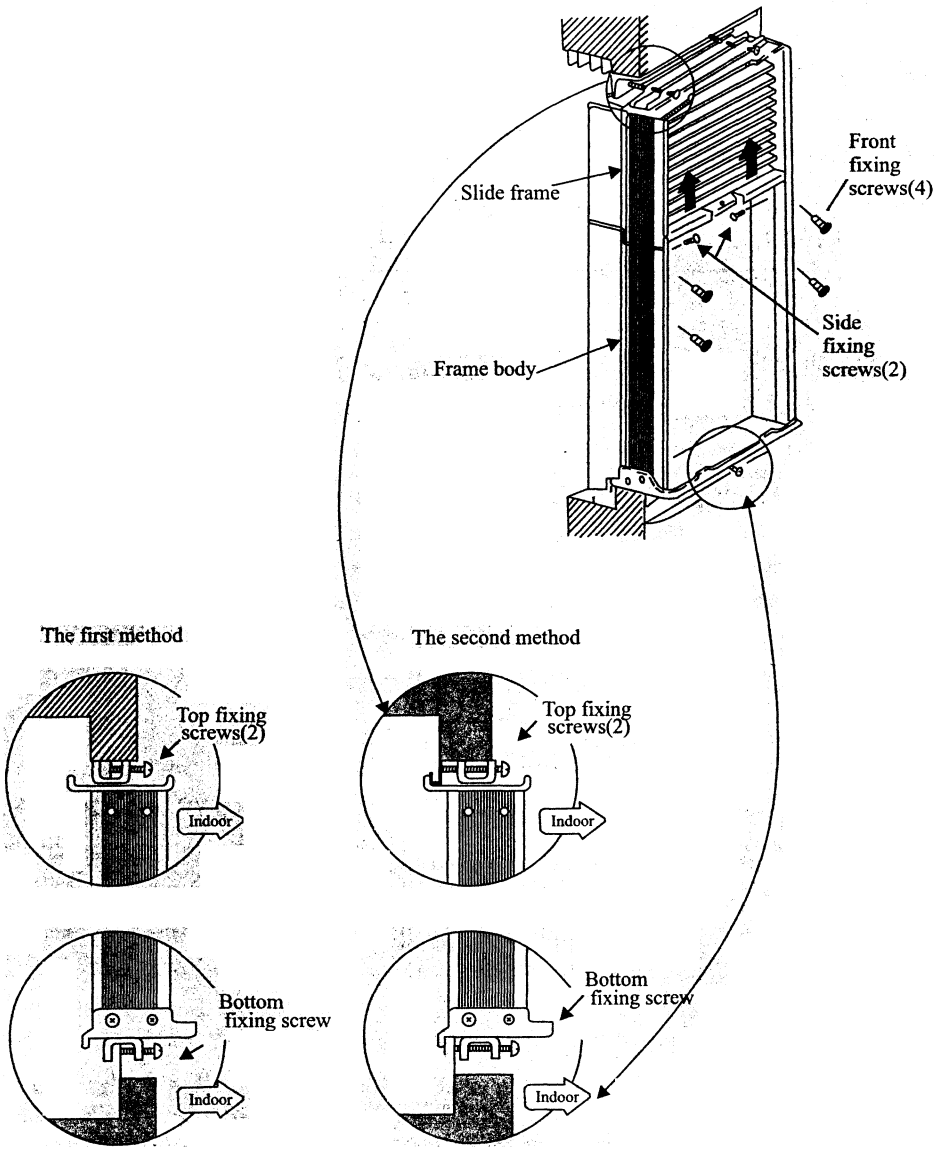


Installation steps

E: Steel window installation method

(1)According to the installation steps of Class A window , install the frame onto the angle iron.

Note:Can choose 1st installation method or 2nd installation method to install.

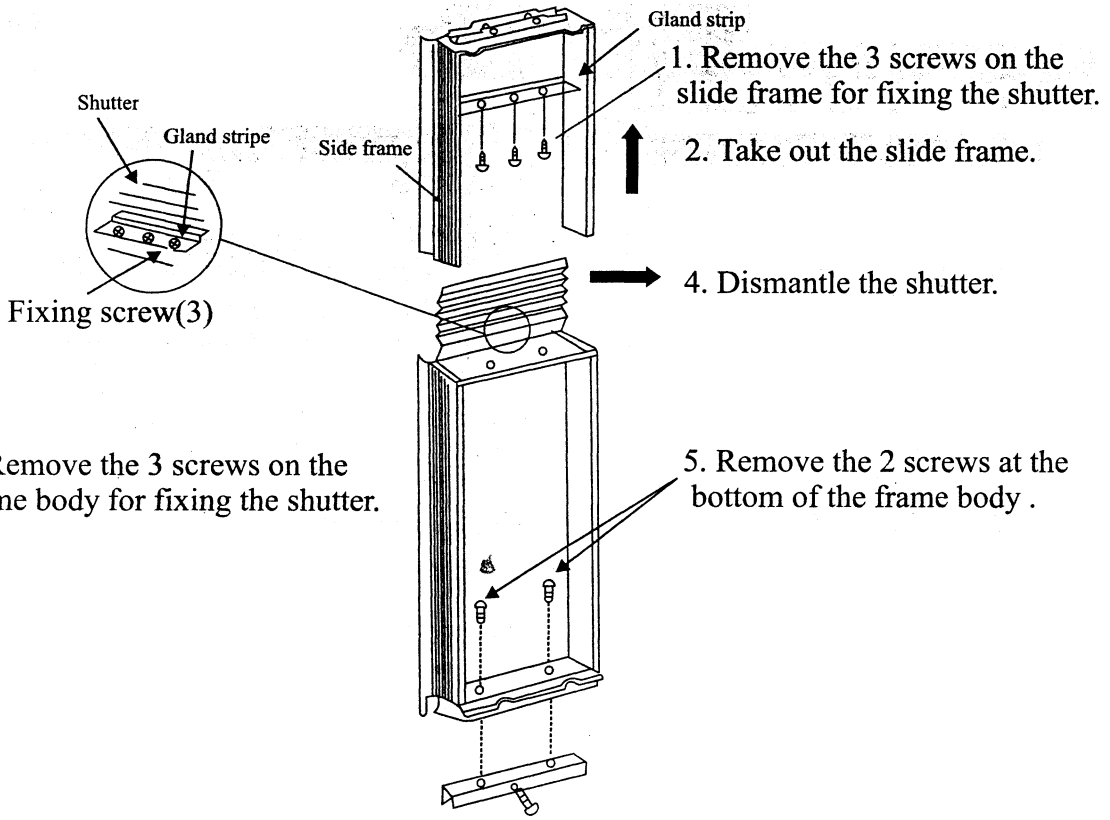


Installation steps

Low window installation method
(For the low windows of Class A,B,C,D,E frame must be modified and then installed.)

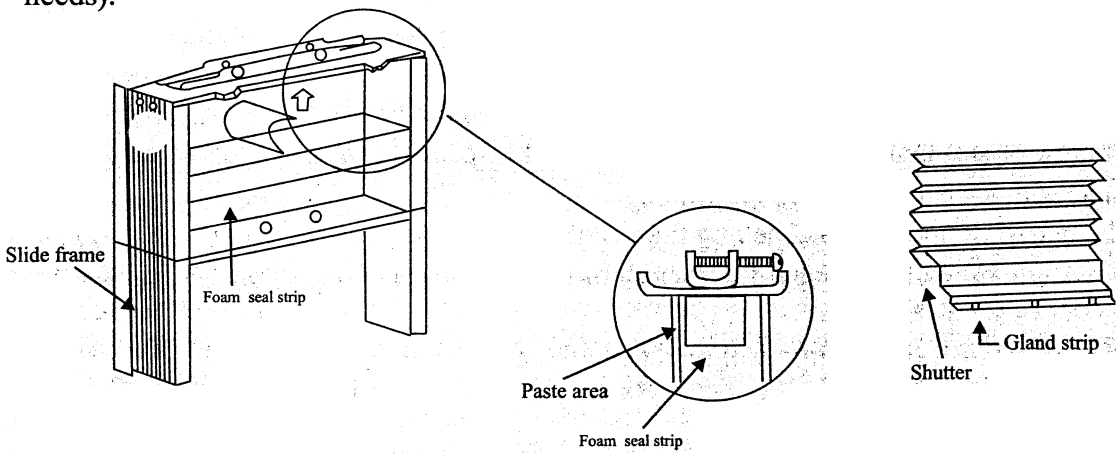
Ⓐ.Aluminum alloy window height 844-858mm (window frame H ⩾10mm)
Ⓑ.Alumnium alloy window height 874-888mm (window frame H ＜10mm)
Ⓒ.One-sided opening window height 874-888mm
Ⓓ.Two-sided opening window 874-888mm
Ⓔ.Steel window H 874-858mm (window frame H ⩾10mm)
install the frame according to 1,2,3,4,5,6,7,8,9,10,11,12,13

Ⓐ. Aluminium alloy window height 859-909mm(window frame H⩾10mm
Ⓑ.Alumnum alloy window height 889-939mm(window frame H ＜10mm)
Ⓒ.One-sided opening window height 889-939mm
Ⓓ.Two-sided opening window Height 889-939mm
E .Steel window height H859-939mm
install the frame according to 1,2,3,4,8,9,10,11,12,13



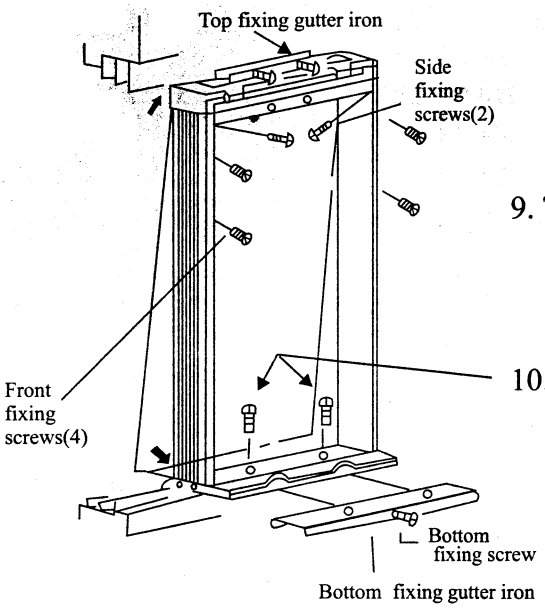
Installation steps

6. Paste the foam-seal strip as illustrated and insert the slide frame into the frame body. (The number of foam layers can be increased according to the needs).



7. Insert the frame body from outdoor side and drag from outdoor to indoor .

8. Cut off half of the shutter removed with scissors and then install onto the frame.



9. Tighten up 2 screws on top of the slide frame.

10. Install the fixing groove steel at the bottom.

11. Tighten up one fixing screw at the bottom of frame.
12. Tighten up 2 screws at the inside of frame body.
13. Use the 4 self-tapping screws in the accessory bag to tighten up the 4 holes at the front panel of the frame body. If necessary electric-drill can be used.

Installation steps

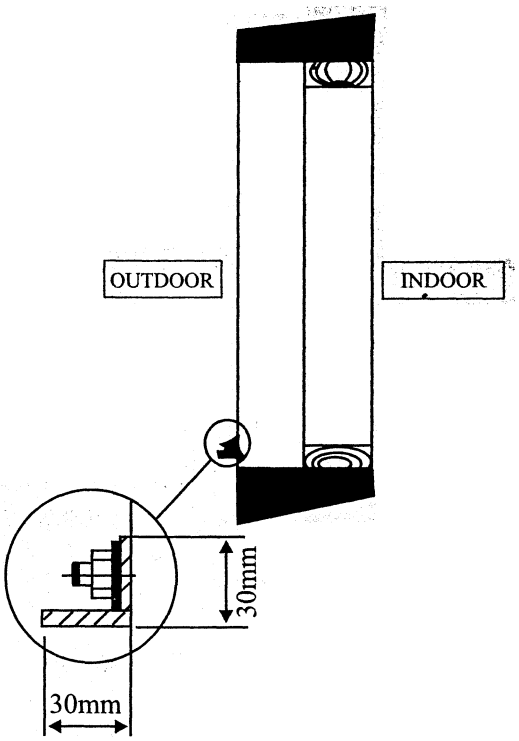
Special installation method

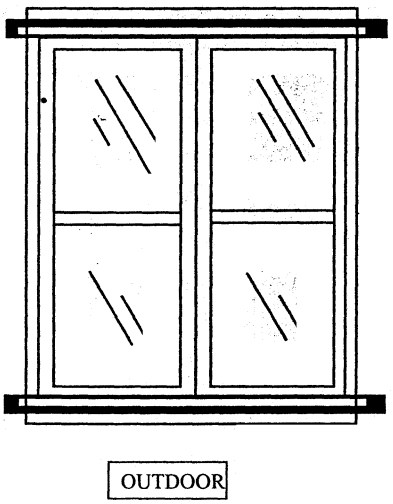
The principal of the special installation method is to find out the support frame to support the air-conditioner weight, or fix the air-conditoner onto the wall with other auxiliary equipment.
The following is a recommended method ,which is suitable for 2-sash wooden window or similar ones. The installation with this method can clearly decrease the noise and doesn't take the living room.
The materials and tools needed by the installation

(1) Angle iron a little longer than width of the window(30×30 ×3mm)2 pieces
(2) 4 expansion bolts .
(3) Impact drill (with alloy drill matched with expansion bolts)

Installation steps

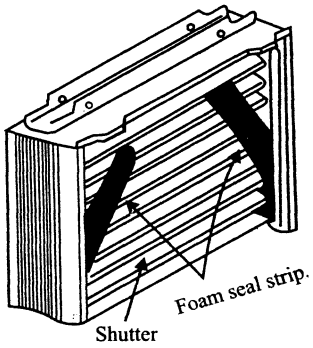
1. Fix the 2 pieces of angle iron onto the wall with 4 expansion bolts.
   According to steps of Class A windows, install the frame onto the 2 pieces of angle iron.



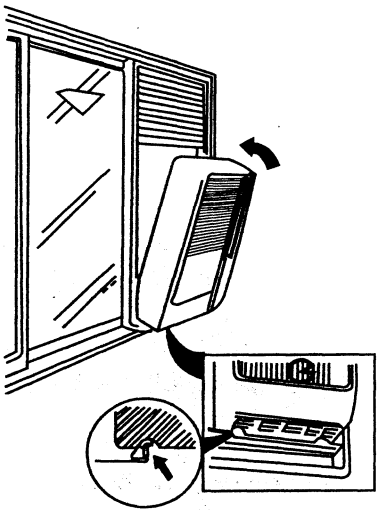


Installation steps

Install the air-conditioner

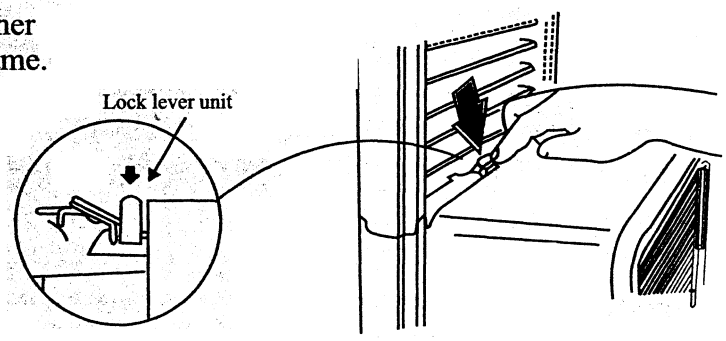


■After Ⓐ, Ⓑ,Ⓒ,Ⓓ,Ⓔ,type windows are installed, use foam sealing material strip(2 pieces)to paste the both sides of the shutter to prevent the cool air from leaking out of the both sides.

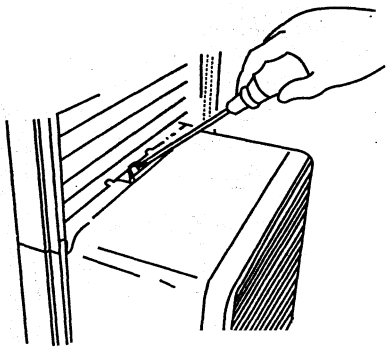


1. Incline the air-conditioner slightly , put the concave at the bottom at the two convex blocks on the support frame and insert as well .

2. Push the air-conditioner into the support frame slightly. The locking lever at the top of air- conditioner is pushed down and released after install the air- conditioner.Air-conditioner will be locked on the support frame.

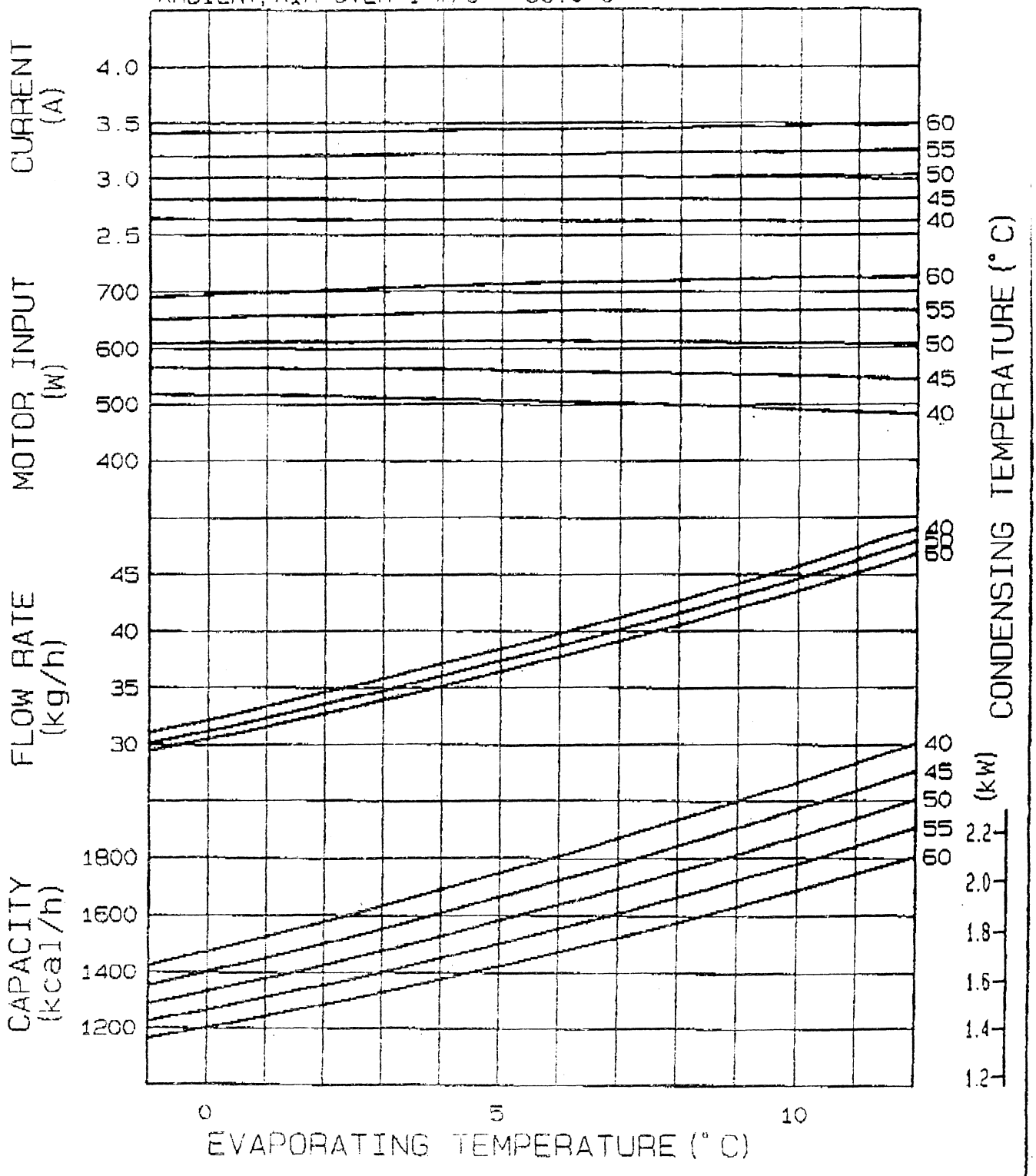


3. Use air-conditioner-fixing screws (auxiliary) to fix the air -conditioner on the support frame. For the safety purpose , be sure to tighten up the fixing screws and make it reliable.



D	SPECIFICATIONS FOR ROTARY COMP. MODEL: 2R12B3R225CSB **TENTATIVE** 1PH, 220V, 50Hz	NO.	SC-C-ZR194-A
		DATE OF APPROVAL	Jan. 22,'98
		APPROVED BY	S. Ishida

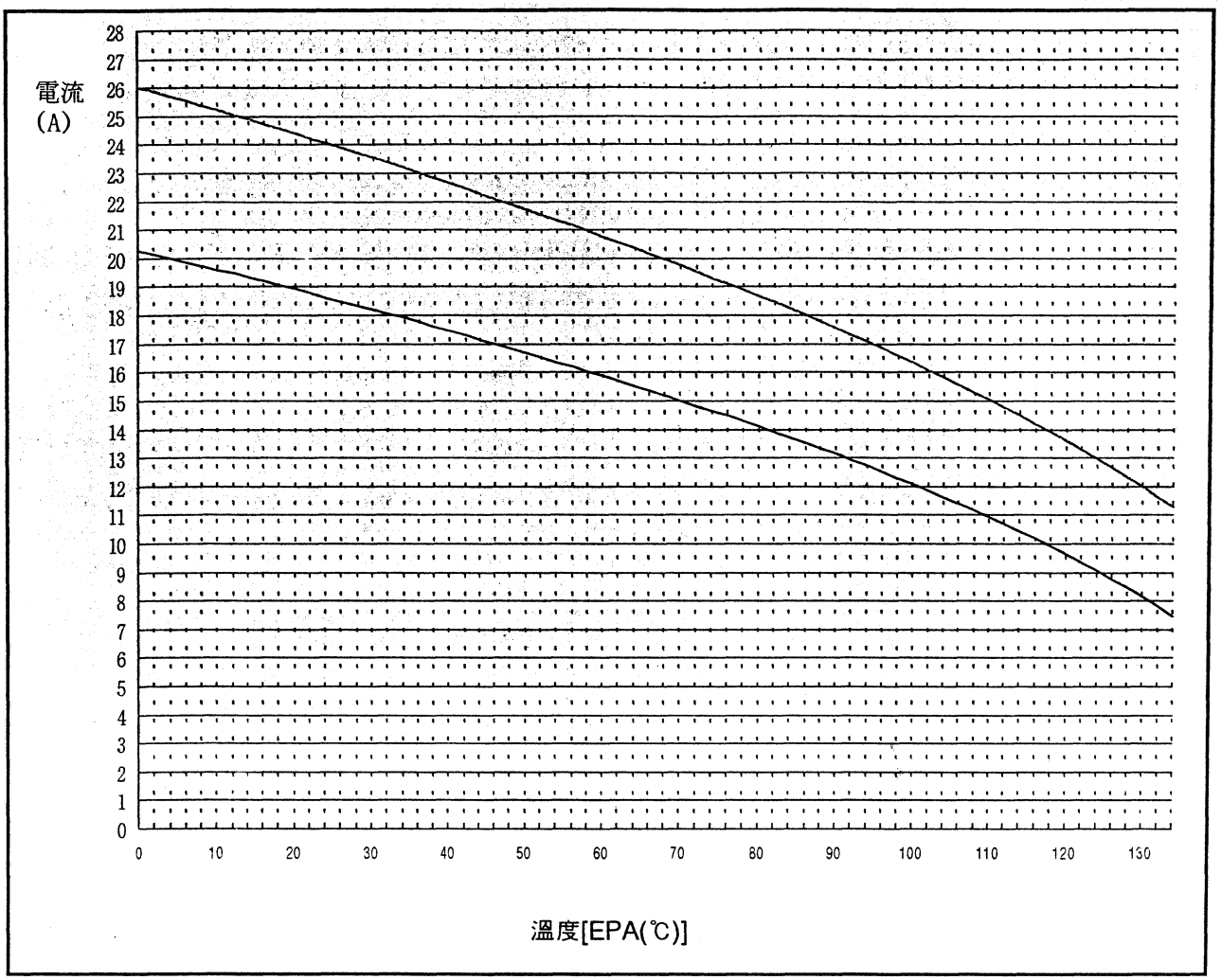
BASED ON VOLTAGE 220V, FREQUENCY 50Hz
RETURN GAS 35.0°C
LIQUID SUB COOLING 8.3°C
AMBIENT, AIR OVER 1 m/s 35.0°C



Compressor Div. Matsushita Electric Industrial Co., Ltd.

3/4 Motor Protector Performance Curve

★U.T.C 特性 Curve



LG Part No.	T.I Korea MRA No.	Original	work temp. ± 5℃	resumed tepm. ± 11℃	電流特性(at 25℃) current(A)	電流特性(at 25℃) time(sec)	U.T.C Characteristic current(A)	U.T.C Characteristic temp.(℃)
6750U-L032A	MRA12044-12029	MST00AH	160	61	30.0	11	14.2	100