HIGH-STATIC PRESSURE DUCT SPLIT TYPE AIR CONDITIONER

OWNER'S MANUAL

REPARATION

If any abnormality occurs, please turn off the unit and switch off the power immediately. Contact our dealer, particularize the model, operation condition and failure. Reparation must be done by professionals.

TECHNICAL STANDARD

- 1. This air conditioner accords with JB8655-1997 《Safety standards for unitary air conditioner》 and GB/T17758-1999.
- The worst working conditionThe working condition for max heating capacity specified in GB/T17758-1999.
- Noise level
 Noise level is tested in half-anechoic room before delivery, which is above the national standard GB/T17758-1999.

CONTENTS

SAFETY PRECAUTIONS	1
REQUIREMENT FOR ELECTRIC SAFETY	4
FUNCTIONS AND FEATURES	4
SPECIFICATION	5
PARTS NAMES AND THEIR FUNCTIONS	6
OPERATION PRECAUTIONS	7
OPTIMAL OPERATION	8
MAINTENANCE	9
SYMPTOM OF NON MALFUNCTION	10
TROUBLES AND CAUSES	11
TROUBLES AND CAUSES(concerning the remoter controller)	12
REPARATION	13
TECHNICAL STANDARD	13

13

TROUBLES AND CAUSES (concerning the remote controller)

Please check the following points before you ask for reparation or maintenance.

The function of conversion can not be set.		
Symptom	Checking points	Causes
The few aread con	Check whether the MODE indicated on the display is "AUTO".	In AUTO mode, the fan speed of indoor unit will be shifted to "AUTO" automatically.
The fan speed can not be changed.	Check whether the MODE indicated on the display is "DRY"	In DRY mode, the fan speed will be shifted to "AUTO" automatically. The fan speed can only be selected in modes COOL, HEAT and FAN.

The transmission indicator ▲do not flash.			
Symptom	Checking points	Causes	
	Check whether the batteries	Without power supply, the remote	
can not be transmitted when pressing ON/OFF	in the remote controller are	control signal can not be transmitted.	
mion processing (error i)	exhausted.		

The TEMP. Indicator is not lightened.			
Symptom	Checking points	Causes	
The TEMP. Indicator	Check whether the MODE	In FAN mode, temperature can not	
is not lightened.	indicated on the display is "FAN".	be set.	
	The display goes off.		
Symptom	Checking points	Causes	
ON/OFF on display	Check whether the timer	The air conditioner will stop since	
goes off.	operation has come to an end.	the time set has passed.	
TIMER ON goes off after a period of time	operation has come to an end	When it is the time being set to start, the air conditioner will start automatically and the corresponding indicator will go off.	

No sound indicating the receival of signal		
Symptom	Checking points	Causes
When pressing ON/OFF, no sound from indoor unit indicating the receival of signal.	Check whether the signal transmitter of the remote controller aims at the receiver of the indoor unit. Check whether the power supply of air conditioner has been switched on.	Aim the transmitter of remoter controller at the receiver of indoor unit, then press ON/OFF repeatedly. The air conditioner can not receive the remote control signal if it is off.
Remote controller does not work.	Check the display screen of remote controller.	The buttons are locked.

SAFETY PRECAUTIONS

For correct and safe operation, please read this manual carefully to prevent personal hurt and damage to property.

Before you come to the text, please be familiar with the following marks and icons and comply with the precautions.

Markers

Markers Indication		Indication
		The risk of death or serious injury will be caused due to the wrong operation.
CAUTI	ON	The risk of injury or damage to property will be caused due to the wrong operation.

Icons

Icons	Indication	
	FORBID	
0	Followed by detailed illustration.	
ENFORCEMENT		
U	Followed by detailed illustration.	

NOTE:

- 1. Injury generally refers to hurt, burn or electric shock, which is not so serious for hospitalization.
- 2. Damage to property refers to the loss of property and material.

/!\WARNING

	Installation Commitment	Please entrust the professionals to do the installation. Nonprofessionals can not install the units, or the water leakage, electric shock, injury or fire may occur.
Installation warning	Specific products	Please use the specific products in our company. Please use the retail products like humidifying equipment specified in our company, or fire, electric shock, water leakage may occurs. Entrust the professionals to do the installation.
	Protection measures	In small room, please take some measures to prevent the refrigerant leakage from exceeding the critical thickness which will cause suffocation. Please consult the dealer for details.
<u>=</u>	GROUNDING	Confirm correct grounding. Defective grounding may cause electric shock.

12

WARNING

ing	FORBID	Do not expose yourself to the cool air for a long time. The air with too low temperature is harmful to people.
ion warn	FORBID	Do not put hands or objects into the air inlet or outlet. The fan with high speed may cause serious injury.
Operation	Switch off the power	In case of abnormality, switch off the power immediately and contact our dealer. If the air-conditioner keeps running, electric shock or fire may occur.

l and warning	FORBID	Please entrust the dealers or professionals to move and reinstall the air-conditioner. Incorrect installation may cause electric shock, fire, injury or water leakage.
Moving reparation	FORBID	Please entrust the dealers or professionals to repair the air-conditioner. Incorrect reparation may cause fire, electric shock, injury or water leakage.

/!\ CAUTION

S	Ensure the drainage	Make sure the drainage is unimpeded. Incorrect installation of piping will cause leakage and the furniture will get wet.
caution	Creepage protection switch	Make sure the creepage protection switch is installed and the fuse capacity is suitable. Electric shock or fire may be caused without creepage protection switch.
nstallation p	Ensure the installation place	Do not install the air-conditioner in the place where the flammable gas is easy to leak. If the flammable gas leaks, the fire will be caused around the outdoor unit.
lns	Encure the	Make sure the installation foundation is solid. The outdoor unit may fall down from the unstable foundation, causing injury.

2

TROUBLES AND CAUSES

- 1. If any abnormality following occurs, please turn off the unit and switch off the power immediately. Then contact the local after-sale service center.
- The working indicator light flashes rapidly (Twice per second). Switch off the power then switch it on again, the light still flashes rapidly.
- Remote controller is invalid or ON/OFF operation is abnormal.
- •The fuse is melted frequently or the circuit breaks frequently.
- •Some substance or water goes into the air conditioner.
- •Water leakage occurs in indoor unit.
- Other abnormalities occur.
- 2. Besides the troubles mentioned above, please check the following points. If necessary, contact the after-sale service center.

Symptom	Causes	Solutions
Inoperative	 Power cut Power switch is disconnected. The fuse is melted or circuit breaker is tripped. Failure in remote controller or wire controller. 	Wait for the power. Switch on the power. Replace the fuse or check whether there is leakage. Check the remote controller or wire controller.
The wind blows but the unit does not cool.	The temp. does not set properly.3-minute protection.	Set the temp. below the room temp. while cooling or above the room temp. while heating. Wait for 3 minutes.
The unit starts and stops frequently.	refrigerant piping. • Failure in compressor. • The voltage is too high or too low.	Check the leakage, charge the right amount of refrigerant. Re-vacuum and charge the refrigerant. Repair or replace the compressor. Install a voltage regulator.
Does not cool well.	 The refrigerant piping is blocked. Condensers of indoor and outdoor unit are dirty. The air filter is blocked. The air inlet or outlet of the unit is clogged. Doors or windows are open. Exposed to the sunlight. Too many heat sources. Outdoor temp. is too high. Refrigerant leaks or the charging volume is insufficient. 	Find out the cause and replace it. Clean the condensers. Clean the air filter. Clear away the blockage. Close the doors and windows. Draw the curtain or close the shade. Reduce the heat sources. Cooling capacity decreases.(normal) Check the leakage, charge the right amount of refrigerant.
Does not heat well.	 Outdoor temp. is lower than -7°C. Doors or windows are open. Refrigerant leaks or the charging volume is insufficient. 	Use heating equipment. Close the doors and windows. Check the leakage, charge the right amount of refrigerant.

SYMPTOM OF NON MALFUNCTION

The following symptoms do not belong to malfunction.

- 1. Inoperative
- The air conditioner does not work immediately when pressing ON/OFF.

 If the operation indicator light is lightened, it shows that the unit is in normal state.

 The protection function works to prevent the air conditioner from being overloaded for about 3 minutes. Then the compressor will run automatically.

 If the defrosting/preheating indicator light is lightened, it is in heating mode. When starting the unit, "Warm air control" will be activated because of the low temp.
- 2. Mist of chilled air on air outlet
- Cooling in a room with high relative humidity(the place with much oil or dust).
 The room temperature will be uneven if the inside of indoor unit is dirty. Cleaning is necessary. Please consult the local dealer or air conditioner after-sale service center for details. The cleaning must be done by professionals.
- If the mode shifts from defrosting to heating, the vapor will be expelled.
- 3. Noise
- A continuous low sound "hiss" can be heard while the air conditioner is working, which is caused by refrigerant flowing between indoor unit and outdoor unit.
- The sound "hiss" exists during the timer of defrosting or a short period after you turn off the unit, which is caused by refrigerant that stops flowing or changes its flow volume.
- 4. Dust is blown from air outlet
- This occurs only in the first operation after a longtime rest.
- 5. Bad odor comes from indoor unit
- This is because the indoor unit gives off the smell which comes from the wall, furniture or smoking.
- 6. The mode shifts from COOL to FAN
- To prevent the heat exchanger from frosting, the air conditioner will shift to FAN mode automatically and it will return to COOL later.
- When the room temperature decreases to the set temperature, the air conditioner will turn off the compressor automatically and shift the mode to FAN; the compressor will restart when the temperature returns. In heating mode, the operation of compressor is reversed to that mentioned above.

10

	T					
	Q Ventilation	Ventilate the room regularly when using the air conditioner				
		with burning appliance.				
		Imperfect ventilation may cause the loss of oxygen in the room.				
		Do not locate the burning appliance towards the air outlet.				
	FORBID	Or it may cause imperfect combustion.				
	TORDID	· <u> </u>				
		Check whether the installation bracket has been worn out after				
	Installation	being used for a long time. The outdoor unit may fall down to cause injury if the bracket is				
	bracket	damaged.				
		Do not along the discondition of with water				
	\bigcirc	Do not clean the air conditioner with water.				
PRECAUTIONS	FORBID	It may cause electric shock.				
		Do not put animal or plant near the air outlet.				
	S	It is harmful to animal and plant.				
	FORBID	it is namula to animal and plant.				
CA		Do not put the flammable sprayer near the air conditioner				
Ä	FORBID	or spray the air conditioner directly. The fire may occur.				
1	FORBID	Do not put water container on the air conditioner.				
2		·				
RA.	FORBID	Immersion of water will reduce the ability of insulation and the electric shock will be caused.				
OPERATION		Do not operate the switch with wet hand.				
	\bigcirc	The electric shock will be caused.				
	FORBID	The electric shock will be caused.				
		The air conditioner can not be used to conserve food,				
		plant, precision instrument and artworks etc				
	FORBID	The quality may be degraded.				
		Be sure to turn off the unit and switch off the power when doing				
	Switch off					
	the power	The fan with high speed may cause injury.				
	U	Choose the fuse specified in the installation manual.				
	Right fuse	Fuse with copper or iron wire may cause malfunction or fire. The				
	ixigiit iuse	power supply with rated voltage should be used.				
		Air conditioner can not be used until an air filter is installed in air return inlet.				
	U	Or the dust may accumulate on the evaporator, which will reduce the performance				
		of air conditioner.				

3

REQUIREMENT FOR ELECTRIC SAFETY

- 1. Wiring should be carried out by qualified person.
- 2. All the wiring must accord with electric safety specification.
- 3. The main switch of air conditioner should be earthed well.
- 4. A separate power supply with rated specification for the air conditioner should be provided.
- 5. Specification:

Model			Power supply	Main switch	Fuse	
	Indoor unit	Without auxiliary heater	220−240V~ 50Hz	40A	32A	
25、30kW		With auxiliary heater	380V 3N∼ 50Hz	50A	40A	
	Outdoor unit		380V 3N∼ 50Hz	60A	50A	

(CAUTION)

- In no circumstance the ground wire of the main power switch should not be cut off.
- Do not use the broken wiring. If there is any, please replace it.
- Please preheat the air conditioner for at least 12 hours before operation. Do not switch
 off the power if you need to stop the unit for 24h or shorter time. (This is to heat the
 crank case heater to avoid the compulsive start of compressor.)
- Make sure the air inlet and outlet are not blocked, or it may degrade the performance of air-conditioner or start up protector which will stop the unit from running.

FUNCTIONS AND FEATURES

- Duct/ceiling type, space-saving, luxurious.
- High blowing pressure, wide-range cooling/heating, more choices of installation location.
- Quick cooling/heating, high efficiency, energy-saving.
- Dual control design, remote control and wire control.
- Low noise level.
- Wide variety of optional accessories.

Create comfortable and elegant environment for office, hospital, mall and family.

MAINTENANCE

NOTES:

- Maintenance work can only be done by professionals.
- The main power switch must be switch off before doing electric connection or cleaning the air filter.
- Do no use water or air with the temperature above 50°C to clean air filter and panel.
- It is suggested to check and maintain the duct biannually. Do cleaning and disinfection work every two years.
- If the air filter is blocked, it will reduce the efficiency of air conditioner. Please clean the filter every two weeks.
- If the indoor unit is installed in the place with much dust, please clean the air filter more frequently.
- Please replace the filter in case that it is difficult to do cleaning.

The maintenance of outdoor unit

- 1. Injury may be caused by improper operation on the metal plates and coil fin with sharp blade.
- 2. Check the air inlet and air outlet of outdoor unit regularly to ensure that they are not blocked by filth or soot.
- 3. The duct and other parts of outdoor unit should be also cleaned regularly. Please contact the local dealer or Midea air conditioner after-sale service center.

Treatment before longtime rest

- Select FAN mode for about a half day to dry the inside of the air conditioner.
- Press ON/OFF on remote controller or wire controller, then switch off the power.
 If you do not switch off the power, the power will be wasted.
- Remove the batteries from the remote controller.
- There will be some dirt in air conditioner after a longtime use, please check and repair it besides cleaning. Contact the local dealer or Midea air conditioner after-sale service center.

Restart the unit after a longtime rest

- 1) Check the following points
- Make sure that the air inlets and outlest of indoor and outdoor unit are not blocked.
- Make sure whether the grounding wire is earthed well.
- Check whether the condensed water is drained. (Cooling)
- Make sure the refrigerant piping and duct are insulated well.
- Make sure the installation base is not rusted.

2) startup

- Switch on the power of outdoor unit, and then that of indoor unit.
- Start the switch of remote controller or wire controller, then turn on the air conditioner.

OPTIMAL OPERATION

Please pay attention to the following points to ensure the operation of unit. Refer to the relevant section for details.

- A面影視前病流面临btic群的氢流面壁动流的动脉性的to the people in the room.
- Set the temperature properly to obtain a comfort ambient. Too low or too high is not recommended.
- Please shelter from direct sunlight with curtain or window shutter during cooling operation.
- Please close door and window to avoid the formation of convection that may decrease cooling effect.
- Please use your remote controller to set the desired run-time.
- Do not put anything near the inlet or outlet to block the airflow. Otherwise, it may decrease the effect of air conditioner, or stop the unit.



- Before longtime rest, please switch off the power and remove the batteries from remote controller. If you do not switch off the power, the power will be wasted. Preheat the unit for more than 12 hours before restart.
- If the air filter is blocked, it will reduce the efficiency of air conditioner. Please clean the filter every two weeks.

	Outdoor temperature: 17~43°C
	Indoor temperature: ≥17°C
Cooling	CAUTION
operation	The indoor relative humidity should be lower than 80%, or mist or
	condensate will occur on air outlet. Under this situation, please set
	the fan speed to HIGH.
Heating	Outdoor temperature: -7~24°C
operation	Indoor temperature: ≤ 30°C
Durananatian	Outdoor temperature: 17~43°C
Dry operation	Indoor temperature: 17~32°C

NOTE: Malfunction may be caused if the air conditioner do not runs under the condition mentioned above.

SPECIFICATION

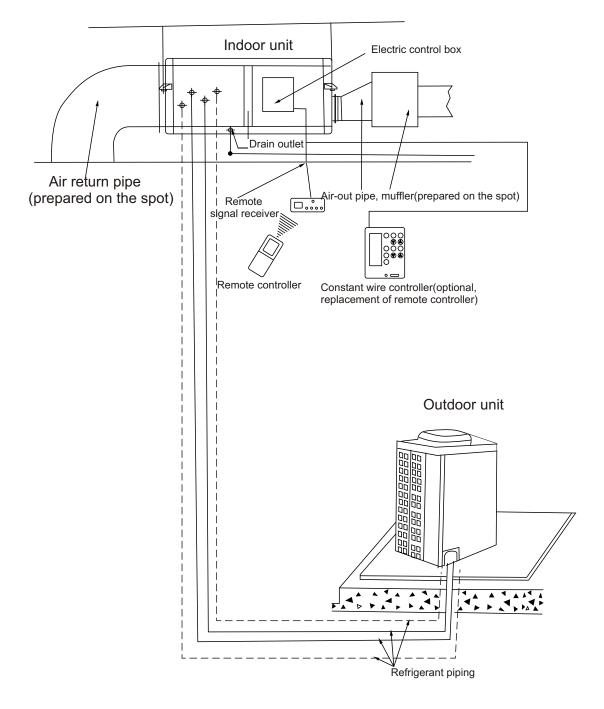
The parameter following is subject to change without notice. Please refer to the nameplate.

Model Parameter			30kW			25kW		
Cooling capacity (Btu/h)			102000			96000		
He	ating	capacity (Btu/h)	102000+20400(Auxiliary) heater	102000	_	96000+20400(Auxiliary heater)	96000	
eter	ling	Running current (A)	18.1			17.4		
Electric parameter	Cooling	Power(kW)	11			10		
ctric p	Heating	Running current (A)	17.7+9(Auxiliary heater	18.6		17.2+9(Auxiliary)	17.2	
H E	Неа	Power(kW)	10.8+6(Auxiliary)	11		9.8+6(Auxiliary)	9.8	
Po	wer	Indoor unit	380 3N~ 50Hz	380 3N~ 50Hz 220V~ 50Hz		380 3N~ 50Hz	220V~ 50Hz	
sup	oply	Outdoor unit	380 3N~ 50Hz					
Dimension		Indoor unit	1500 X 1250 X 570mm					
Dimo	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Outdoor unit	997 X 880 X 1770mm					
We	ight	Indoor unit	2			40		
(k	g)	Outdoor unit	2			45		
Noise	e level	Indoor unit	(60		
dB	(A)	Outdoor unit	63					
Ма	ax inp	ut current (A)	23.5+9(Auxiliary heater)	23.5		21+9(Auxiliary) heater	21	
Max input power (kW)			14 +6 (Auxiliary)	14		11.5+6(Auxiliary)	11.5	
Air flow (m ³ /h) (0Pb)			5000					
Applicable area (m²)			140~200 120~160					
Control method			Remote control or wire control					

- Note: 1. Cooling capacity test condition: indoor dry bulb /wet bulb temp: 27 °C/19 °C; outdoor dry bulb/wet bulb temp:35 °C/24 °C. Heating capacity test condition: indoor dry bulb/wet bulb temp:20 °C/15 °C; outdoor dry bulb/wet bulb temp: 7 °C/6 °C. The actual cooling and heating capacity is proportional to the value of ambient temp and relative humidity.
 - 2. Noise level is tested in half-anechoic room.
 - 3. In actual situation, the outlet noise level will change according to different duct. The actual noise level is about 45dB(A) or smaller.

PARTS NAMES AND THEIR FUNCTIONS

The air conditioner consists of indoor unit, outdoor unit, the connecting pipe and remote controller.



OPERATION PRECAUTIONS

Before operation, please read the owner's manuals of air conditioner and remote controller or wire controller carefully. If there is any problem, please consult the local dealer. This air conditioner is designed to create a comfortable environment, only available for the functions specified in this manual.

1. Before operation

- Ensure the grounding wire is in good condition..
- Ensure the filter is well installed.
- Before you restart a longtime rest, please clean the filter. In frequent use, clean the filter every two weeks. Refer to "Maintenance" for details.
- Ensure the outlet and inlet of outdoor and indoor units is unblocked.

2. Safety precaution

- Do not get the indoor unit and remote controller moist.
- Or short circuit or fire will be caused.
- Keep the air conditioner away from fixature, sprayer, gasoline or such flammable gas or liquid. Or it may cause fire.
- Do not touch the plate when the air deflector is working.
 Otherwise the fingers may be nipped or the components of air deflector may be damaged.
- Do not use substandard fuse or wire as fuse replacement.
- If you use conductor or copper wire, the air conditioner may be damaged and fire may be caused.
- Do not put stick or such objects into the air inlet and air outlet.
- The fan with high speed may cause injury.
- Do not remove the fan cover of outdoor unit.
- The fan with high speed may cause injury.
- Start the air conditioner by pressing ON/OFF on remote controller or wire controller rather than connecting the switch of main power.
- Keep the children away from air conditioner.
- Do not repair the air conditioner by yourself.
- Please entrust the professional to the reparation.
- Switch off the power before cleaning the air filter and air conditioner. This unit is earthed well, which possesses double protection. Usually, it is safe to replace or clean the air filter. For safety, please switch off the power before maintenance work.