

ACAC12

Double Windpipe Portable Air Conditioner

ATTENTION

- THIS AIR CONDITIONER UNIT IS RECOMMENDED FOR GARDENING APPLICATIONS **NOT EXCEEDING** A 10' X 10' X 8' ROOM AND (2) **AIR-COOLED** 1000 WATT HID LIGHTING SYSTEMS

- THE COMPRESSOR INSIDE THIS UNIT **IS NOT** SEALED, SO A SMALL AMOUNT OF AIR FROM THE ROOM IN WHICH IT SITS MAY BE EXCHANGED THROUGH THE INTERIOR AIR INLET FOUND ON THE BACK OF THE UNIT.

INTRODUCTION:

This mobile air conditioner is a new generation air conditioner which is ideal for using in a bedroom, lobby, office, attic, sports hall, or other entertainment area. Its flexible characteristic enables easy adjustments to desirable room temperature and humidity levels. The built-in filter can also remove floating dust and purify air to create a healthier environment.

It is designed under “novelty, practicality and convenience” principles to satisfy the needs for convenient, efficient and mobile small-sized air conditioning. It features easy using, minimal installation, and convenient maintenance. The double control system (remote control/manual control) and LCD display ease operation.

The unit is highly competitive to other air-conditioning capable products. With tidy structure, multiple functions and reasonable ventilation design, the unit minimizes noise and power consumption.

Thank you for choosing our mobile air conditioner. This instruction manual is for reference only and does not constitute a contract. We reserve the right to make technical changes without prior notices.

WORKING PRINCIPLE:

Cooling:

Refrigerant with low temperature and low pressure is compressed by the internal compressor to high temperature and high pressure gas. The gas then cools in the condenser to become low temperature, high pressure liquid. The liquid flows through the capillary tube to lower its pressure and becomes low temperature, low pressure liquid. The low temperature low-pressure liquid is evaporated in the evaporator. After absorbing the heat of air in the surface of the evaporator, the refrigerant becomes gas and flows back to the compressor. The refrigerant gas repeats the compression process, thus the room temperature is lowered by circulating this operation. The compressor activates when the unit's room temperature sensor records a temperature higher than the set room temperature on the LCD window. When the room temperature sensor records a lower temperature than the set room temperature on the LCD window the compressor stops and the fan operates at the original set speed.

Dehumidifying:

If the unit is ONLY used a dehumidifier, please always remember to remove the air exhaust duct from the main unit; when the unit is used as a air conditioner, mount the air exhaust duct to the air outlet (terminal) of the main unit. In dehumidify mode the compressor is on and the internal fan motor operates in a LOW speed.

TECHNICAL SPECIFICATIONS:

Model:	ACAC12
Cooling Capacity (BTU/H):	12,000
Dehumidifying Capacity (L/Day):	40
Power (Watts):	
• Cooling	1100
• Dehumidifying	950
Circulation Volume (m/H):	370
Power source (Single Phase):	AC110-120V/60Hz
Noise Pressure Level dB(A):	<52
Net Weight (KG):	47
Dimensions:	34.9" x 17.8" x 19.7"
Refrigerant:	R22 (550g)
Applying Space (m)	15-20

Note:

1. The above cooling capacity is measured at ambient temperature Db 86 degrees Fahrenheit, WB 77.9 degrees Fahrenheit (Indoor and outdoor, the same).
2. Noise level is measured at the distance of 1.0 meter away from the front of the machine, in cooling mode when the compressor is active.
3. Fan power consumption is measured when the fan runs at the highest speed.
4. Specification listed above is for reference only. Please see actual data printed on the label.

OPERATION:

ON/OFF Button:

Press the ON/OFF button once to turn the power on, this will run the unit at AUTO mode and the LCD window will display "AUTO".

Press the ON/OFF button while the unit is running and this stops the operation, therefore cancelling the timer, but retaining mode, set temperature, fan speed and air flow mode.

Press the ON/OFF button while the unit is ready, this restarts the unit operation with the settings that were last set, aside from the previous timer settings.

MODE Button:

Pressing the MODE button will change the sequence of operation between AUTO, COOL, FAN, DEHUMIDIFY, and HEATING. The mode will display in the LCD window correspondingly.

SPEED Button:

Pressing the SPEED button will adjust the fan speed between LOW, MEDIUM, HIGH, and display in the LCD window correspondingly.

TEMP Button:

Pressing the various UP & DOWN TEMP buttons will adjust the temperature set point higher or lower. The selected temperature will display in the LCD window between the ranges of 15 – 31 degrees Celsius. When the unit is set at AUTO, the default cooling temperature is 23 degrees Celsius.

TIMER Button:

AUTO OFF TIME SETTING

When the unit is running, pressing the TIMER button will set the desired OFF time. The range is from a ½ hour to 12 hours, which will display in the LCD window.

AUTO ON TIME SETTING

When the unit is ready, but not operating, pressing the TIMER button will set the desired ON time. The range is from a ½ hour to 12 hours, which will display in the LCD window.

Wind Direction Adjustment:

Horizontal: Pressing the wind adjustment button on the control panel or remote control will promote left and right oscillation of the air vent automatically.

Vertical: Adjust the air vent manually to dictate up and down direction of air flow.

An internal microprocessor controls the compressor and fan ON/OFF operation according to the room temperature.

To protect the compressor from damage, when the unit restarts it will take approximately 3 minutes before it starts to run again.

Fan Mode: The compressor and outer fan motor stop, however the inner fan motor will run at the set speed. At this point the TEMP button is void as temperature is not a dictation of operation.

AIR EXHAUST AND INTAKE DUCTS:

The unit has casters that allow for mobility of the unit. You may use the following methods to engulf outer air to feed the unit and exhaust heated air from the unit.

1. Engulf outer air and exhaust heat through a nearby window. Opening a window enough to fit the plastic intake and exhaust ducts outside the area will provide proper air exchange.
2. The same practice can be accomplished through a nearby door. Open the door slightly so that the ducts fit outside the opening.
3. For larger areas, the ducts may be placed on the ground directly
4. To properly store the unit, remove the intake and exhaust ducts and store them carefully.

Special Notes:

The ducts may be extended from 20" to 79", however the unit will operate more efficiently when the air exhaust duct is maintained at a shorter distance. This will allow heat to be transferred out of the system at a faster rate with less radiant heat to dissipate from the duct itself.

Make sure the exhaust duct is not distorted or it may obstruct the effectiveness of the heat exhaust process, thus causing heat to flow back through the unit combating the cooling efficiency. As a safety the unit will automatically stop running if this occurs.

To ensure that the air intake duct is operating correctly, do not place any objects around the opening of the duct. Failure to do so will prevent hot air from properly exhausting from the unit and cooling the condenser. The compressor will automatically stop if this occurs.

Make sure not to extend the ducts or use them with other specifications. This may decrease the working efficiency of the unit.