

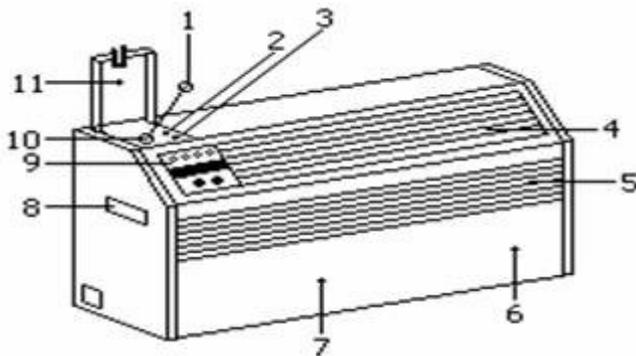


MAC 500 Operating Instructions

Introduction

The MAC 500 is a mobile air conditioner based on the established "split system" air conditioning unit. The machine is supplied in 2 sections, the Cooling Console (room unit) plus a Dry Cooler (outdoor section) with attached flexible lines.

MAC 500 Unit



1. Reservoir cap
2. Empty condensate tank button
3. Prime water circuit button
4. Discharge air grille
5. Return air grille (air filter behind)
6. Cooling console
7. Compressor securing handwheel positioned centrally on the underside of the base
8. Lifting handle
9. Control panel
10. Reservoir fill point
11. Reservoir cover

Locating the MAC 500

The MAC 500 indoor unit should be positioned in the room that requires air conditioning. It should be sited so that the air can circulate freely with no obstructions around the discharge air grille and/or the return grille. It must be positioned in an area where it is accessible to place the condensing unit outside taking into consideration the length of the flexible lines. When connecting or disconnecting the lines there may be a small amount of water spillage. To prevent this from happening, use either a cloth or a small container under the connections to catch the excess water.

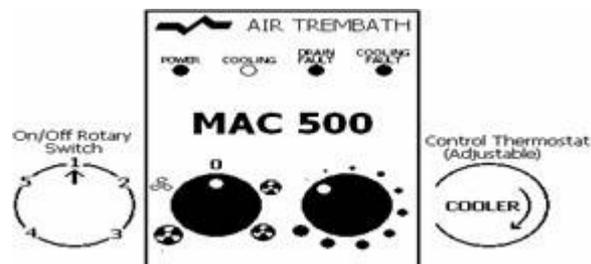
The outdoor unit must be connected to the indoor unit using the flexible lines provided. The unit must be positioned outside of the air conditioned room, and requires a free supply of air. Do not obstruct the air flow over its heat exchanger, and do not locate the unit in a confined space or area where the heat produced will cause the temperature to rise above 35°C. Usually the outdoor unit is better located outside the building.

Do not locate the outdoor unit more than 5 metres above the indoor unit. The outdoor unit can be stood on any level, firm service.

While the unit is cooling, it will produce condensate (water) in the indoor unit. This will automatically be pumped through the flexible lines and water is discharged from the outdoor unit. The outdoor unit should be positioned so that the water can drain away or evaporate without causing any problems.

Operating the MAC 500

1. Air Conditioner off
2. Cooling with low speed fan
3. Cooling with medium speed fan
4. Cooling with high speed fan
5. Low fan speed only



Turn the thermostat clockwise for a lower temperature setting

- Turn the On/Off rotary switch to ON and select the desired fan speed
- The unit's compressor will start after a short delay, provided that the unit's adjustable thermostat is signalling cooling. The cooling light will illuminate
- Adjust the control thermostat by small movements until the required setting is obtained
- Adjust the direction of the air discharge to suit the installation. The discharge air grille can be lifted from its spring clips. This gives access to the adjustable air deflectors behind the grille. These deflectors are set to direct the air sideways as required. The discharge grille should be fitted with the air throw upwards from the unit. This will give the best air distribution and avoid the chance of air short circuiting between the discharge and return grilles. The grille can be reserved so as to provide for front air discharge when the site conditions demand

Maintenance

- **Filter cleaning** – Behind the return air grille in the indoor unit, there is a cleanable air filter. The grille must be removed, (pull away from the spring clips) and the air filter lifted out for cleaning. The filter can be washed in soapy water or vacuumed. The cleaning interval is determined by the area's conditions. It is recommended to check the filter once a week
- **Check the cooling water** – The MAC 500 should not lose any cooling water during normal use. Some water may be lost when making or disconnecting the flexible lines. It is recommended to check the water level in the reservoir once a week

Moving the MAC 500

- Switch the unit off at the rotary switch
- With the unit still connected to the electric supply, lift the reservoir cover and press the button marked "push to empty". This will activate the condensate pump. Hold the button down until all the condensate water in the machine has been removed. The sound the pump makes becomes louder. Do not continue to operate the pump once all the water has been removed. This will avoid the risk of water spillage while moving the unit

Trouble Shooting

FAULT	SYMPTOMS	REMEDY
Unit does not run	No operation. Power button is illuminated	<ol style="list-style-type: none"> 1. Check the water supply 2. Check / replace 13 amp plug fuse 3. If fault recurs, check capacity of power supply. Verify the correct voltage at the units plug. Avoid extension cables is possible
	Power button illuminated. Cooling fault also illuminated	<ol style="list-style-type: none"> 1. Check the water level in the reservoir. If the unit is leaking water, then contact London Cool on 0800 440 444 2. Check all the water and power connections in the flexible lines including any extension leads used 3. Ensure the unit is correctly positioned with an unobstructed air flow 4. Check / clean the air filter 5. Reset the high pressure cut out by pushing the red button in the service panel
	Power button illuminated. Drain fault also illuminated	<ol style="list-style-type: none"> 1. Check the condensate pump operation by lifting the lid and pressing the push to empty button. The pump should run and empty the water. This will reset the fault button to off 2. Check the condensate pump overheat switch, which is located on the rear lower left hand side of the cooling console. Press the reset button 3. Check to ensure the condensate line is not blocked or kinked

	Power button is illuminated, and the cooling light does not illuminate	<ol style="list-style-type: none"> 1. Check the rotary switch is on cooling mode 2. Check the thermostat is correctly adjusted 3. Check the surrounding air temperature is warm enough for the unit to operate on cooling
Unit cooling output reduces	Air flow from the console reduces and the cooling coil ices up	<ol style="list-style-type: none"> 1. Check for any airflow obstructions to the unit 2. Check / clean the air filter
Unit leaks water. (Indoor)	Unit operates correctly but water leaks from it	<ol style="list-style-type: none"> 1. Check the unit is positioned on a level surface 2. Check the condensate drain line is properly connected/unobstructed 3. Check the water connections are properly made 4. If necessary, isolate the unit and check for water leaks inside the unit

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