



PT7300 Operating Instructions

General Safety

- Never place anything on top of the indoor or outdoor units and never obstruct their air vents.
- Leave a 300mm gap all round the unit to let the air circulate
- Always switch OFF and unplug the unit when not in use.

ALWAYS TRANSPORT, STORE, AND OPERATE THIS UNIT IN AN UPRIGHT POSITION. DO NOT LAY THE UNITS DOWN.

Electrical Safety

- This air conditioner plugs into standard 230V 13amp power supply. The plug is fitted with a standard 13amp fuse.
- Extension leads should be correctly rated for the inductive load, fully unwound, loosely coiled and never run through water or over sharp edges
- To reduce the risk of electric shock, use a suitable RCD (residual current device)
- Never pull the unit by its flex
- Ensure both the machine and power sockets are switched OFF, before plugging into the power supply

Setup & Operation

- The unit works properly up to 35°C. The fan will continually operate for venting use. If the temperature in the room is above 35°C, then open all the doors/windows and operate on the fan only, to circulate the air to reduce the temperature
- When setting up or restarting, allow the unit to stand/settle for 15 minutes before switching on
- Set the unit up on a firm, level surface and do not site the unit close to any surface that is sensitive to heat, cold or moisture
- Apply the swivel castor brakes (where fitted)
- The outdoor unit can be situated up to a maximum of 35m away from the indoor unit, dependant on the number of additional 5m lengths of umbilical attached to the standard 5m length supplied. Do not exceed the 35m overall, and do not exceed the maximum rise (or fall) of 4.6m
- The umbilical assembly contains 4 main connectors, a power supply lead, a condensation tube, and 2 water pipes. The connection is the same for both the indoor and outdoor units, except that the connectors are male/female and set in such a way that the umbilical assembly can only be used in one direction. Observation of the following point regarding the electrical lead will make the above issue clearer
- The electrical lead has a male fitting on one end and a female fitting on the other; the male should be attached to the indoor unit and the female fitting to the outdoor unit.
- Never operate the unit if the umbilical hose(s) is severely kinked or punctured
- The water pipes are fitted with a simple quick-release coupling. To attach the water pipes, pull back the couplings outer sleeve. Push the male into the female fitting, and then let the sleeve snap back into place.
- To disconnect the water pipes, simply reverse the fitting instruction. It is possible for a few drops of water to escape when completing this procedure
- Site the outdoor unit in a convenient position outside of the room to be cooled. Please note the following, if the unit had been ordered with the optional automatic condensate pump. The removed moisture will be ejected via the clear tubing within the umbilical (so it will need to be connected to both indoor and outdoor units via the push fit connections) out to the outdoor unit where it will appear to 'leak' out from below. Careful siting with this configuration is important to avoid floor-covering damage for example
- The outdoor unit must be kept upright with the fan motor assembly facing towards the building, this way the hot air is directed away from the building
- With the indoor unit switched OFF and isolated from its power supply, make all the connections from the umbilical assembly
- All that remains is to plug the indoor unit into its power supply and switch the unit to ON

NOTE: For models fitted with integral condensate collection container. Ensure the water drain tank is correctly fitted and is empty. Then plug the unit into its power supply and switch the supply ON

- Ensuring the red POWER ON light is on; press the red FANS ON switch to start the fans. The outdoor units fan will start to operate ONLY when cooling is selected

- Use the fan speed to control switch to alter the air flow, press the FAN SPEED switch to either low (I) medium (II) or high (III) fan speed
- If chilled air is required, first press the red COOLING ON switch and then turn the thermostat knob fully anti-clockwise

NOTE: If the thermostat knob

- The unit is fitted with a time-delay device, which will prevent the compressor starting for approximately 4 minutes
- The unit will now be running, allow a minimum of 10 minutes for it to begin cooling
- **If chilled air needs to be directed to a particular area**, adjust the grille louvre blades on the front of the unit. Once the desired room temperature has been reached, gradually turn the thermostat control knob clockwise until you hear a click. The unit will now only emit chilled air when the room temperature rises beyond the 'set-point' you have selected via the thermostat knob.
- If the red 'fault' light illuminates, switch the unit OFF and isolate it from its power supply. Check the technical notes document to establish the reason and rectification of the fault.

Coolant System

This unit is factory supplied with the correct quantity of coolant in both unit (indoor and outdoor) as well as the standard 10m umbilical. The coolant top-up tank is located within the indoor unit & is accessed via the black circular fitting located on the top panel. It should not be necessary in normal use to have to regularly top up with any additional coolant. However it should be noted that a small amount of fluid will be lost when connecting/disconnecting the umbilical water fittings, always ensure coolant is topped up prior to operation.

Additional lines purchased from us are pre-filled, so upon extension topping up with additional coolant should not always be necessary, but if required, follow the guidelines below which must be followed exactly, to prevent potential internal component damage.

The internal water-pump must not be run dry as immediate failure will result.

The pump is an expensive item to replace, before hire, we would advise the coolant level be always be checked and topped up if necessary

The water pump is only operated when the COOLING button is depressed, after having first depressed the FANS button.

Coolant Topping up Procedure

- 1) Ensure that the unit is not connected to the power supply
- 2) Ensure that if the umbilical has been damaged and replaced with new, that it is connected to both the indoor and outdoor units via the umbilical hose and electrical fittings
- 3) Unscrew the cap on the indoor unit top up tank fitting
- 4) Fill the internal tank until the coolant level is just below the brass fitting in the neck, avoid overfilling as spillage will result
DO NOT EVER OPERATE THE UNIT WITHOUT THE CAP FITTED
- 5) Plug the unit into the appropriate power supply and switch on via the fans and cooling switched
- 6) Observe the unit for the first 15 minutes of operation stop and unplug the unit. Then remove the cap and add extra coolant as (4) above if necessary
- 7) Observe all umbilical connections ensuring no leaks are evident. If any leaks are found, immediately switch the unit off and disconnect from the power supply. Find the reason for the leak(s) and rectify. Do not run the unit if leaks are observed, as the coolant will quickly be lost from the system, resulting in possible internal pump failure
- 8) Disconnect the unit from the power supply

HP Switch

This unit is fitted with a safety feature which prevents the compressor from failing should you not follow the operating instructions. In particular, if you fail to connect one or all parts of the umbilical connections and then try to operate the unit, the machine will very quickly trip its high pressure (HP) switch located within the indoor unit.

The switch can trip for a number of different reasons:-

- 1) Umbilical connections not made correctly
- 2) Internal water circulating pump failure or blockage
- 3) External unit fan failure (or not connected as (1))

The switch will automatically reset after a short period but the cause of the trip still needs to be established. Check the Troubleshooting guide following.

Equipment Care

- Never use an air conditioner except for its intended purpose
- Keep the equipment clean and especially the coil faces. Blow out the coils with compressed air
- Where fitted, regularly check the water drain tank (every 3-4 hours). On the control panel is a red light marked PLEASE EMPTY TANK WHEN LIT, which will illuminate when the tank is full. The unit will also turn itself off, however please switch the FANS ON and COOLING ON switches to OFF (non-illuminated) by depressing them in turn.

- Before removing the tank, leave the unit for at least 5 minutes to allow any accumulated moisture to drain down into the tank. Removing the tank without doing this first, WILL cause water to drain into the machines base, where it will leak out onto the floor, appearing as though the machine has a fault
- Following this simple instruction will prevent carpet/general flooring water staining
- To empty, so to the rear of the unit, carefully grasp the front edge of the tank, lift it over the lip and slide it gently toward you, grabbing the short stubby handle as the tank starts to emerge from its recess. With one hand under the front of the tank and the other holding the handle, carefully lift the tank out completely, empty and then replace. Ensure the tank is fitted with the sticker THIS WAY OUT pointing outwards from the machine
- The unit can then be switched on via the FANS ON and COOLING ON switches
- Fitting the tank incorrectly will cause the water to NOT be collected and therefore the unit will appear to be leaking, if you are unsure, contact your supplier & quote the serial number of the unit
- Never remove the tank with the machine operating
- Always check the tank is empty, prior to switching on the unit

Storage

- Switch the unit OFF and unplug from its power supply, then empty the water tank

Troubleshooting Guide

If the HP switch has tripped:-

- 1) Check all umbilical connections are made? If ok, proceed to (2), if umbilicals not connected correctly, first reconnect then proceed to (2)
- 2) Water pump should be heard to operate after approx 4 minutes. If not, check the coolant level within the top up tank, (details as above in Cooling System), if level low then top up

If pump operates, leave the unit on test for 30 minutes and check that the outdoor unit fan motor is operating. If not, check wiring diagram and ascertain if wiring to the motor, or the motor itself has failed.

If no further problems are experienced, then assume the unit is running ok

PROBLEM	POSSIBLE CAUSE	SOLUTION
Unit fails to operate	Power failure	Check POWER ON light is illuminated
		Check unit is plugged into the power supply and all umbilical connections are made
		Check plug fuse for failure and correct 13amp rating
		Check building ring circuit is not overloaded
Poor Cooling Performance	Thermostat knob not turned fully anti-clockwise	Turn knob fully anti-clockwise, compressor has a minute delay before it starts and cooling will begin to commence after approx 10 minutes
	Coils dirty or (where fitted) filters dirty	Blow compressed air through the coils to clean
		Wash or replace filters
	External unit coil dirty or airflow restricted	Check external unit, if coils dirty blow compressed air through to clean
	Air inlet grills obstructed	Remove the obstruction
Fan speed on low setting	Turn the fan speed to med or high	
Water Leakage	Clogged drain tube into condensate pump	Remove the blockage
	Condensate pump is blocked or its internal float switch stuck or failed, or condensate hoses not correctly connected within pump recess or at rear of indoor unit	Systematically check possible causes listed
	Hose not located in pump correctly	Ensure hose is located into pump
Compressor stops running	Input voltage too low	Check line voltage
	Thermostat set too low	Turn thermostat fully anti clockwise
	HP switch tripped	Refer to HP switch

If problems persist, contact London Cool on 0800 440 444

London Cool air conditioner rental and sales

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