

CLH 10TS humidifier

Installation and operating instructions

For the manually controlled ultrasonic humidifier with **ON/OFF**, **Air Vol** and **Fog Vol** controls. Read these instructions before installation, keep them with the equipment and pass them to the next operator.



Figure 1. CLH-10TS humidifier and manual controls.

Equipment identification

Manufacturer: Hangzhou Conloon Electric Co., Ltd.
Model: CLH-10TS
Mist output: 6 L/h
Power: 400 W
Power supply: 220 V AC, 50 Hz

Equipment record

Serial number	_____
Supplier and service contact	_____

Safety and operating conditions

Electrical and water safety

Connect the humidifier to an earthed supply. Disconnect the power before cleaning, maintenance or opening the cover. A damaged power cable must be replaced by an authorised service provider or qualified technician. Do not spray the enclosure or electrical parts with water.

- Before connection, check that the available supply matches the equipment nameplate: **220 V AC, 50 Hz**.
- Do not open the enclosure while connected to power. Stop the unit, disconnect the plug and shut off the water before maintenance.
- Keep the unit horizontal and seal external mist-pipe joints against air and water leakage.

Operating conditions

Parameter	Requirement
Ambient temperature	1 to 40 °C
Ambient relative humidity	Up to 80% RH at the equipment
Supply water temperature	1 to 30 °C
Maximum water supply pressure	0.35 MPa (3.5 bar)
Water quality	Tap water; softened or purified water recommended
Heat exposure	No nearby high-temperature radiant heat source

Safe operation

- Use indoors in a dry, accessible location with ventilation around the enclosure. Keep plugs, sockets and controls dry.
- Keep untrained users and children away from the equipment.
- Stop use if leakage, a burning smell, abnormal noise or an electrical fault occurs. Isolate the supply safely and contact service.
- Do not repeatedly reset a tripping protective device.
- Never operate the humidifier without water.

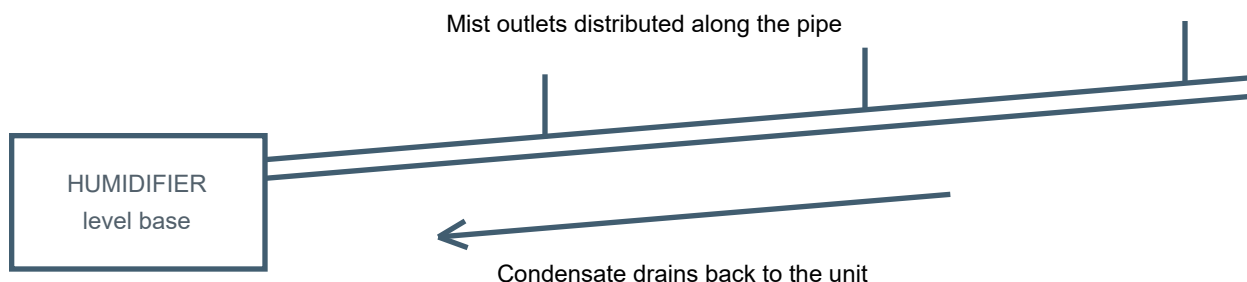
Installation and commissioning

1 Position the equipment

Place the unit horizontally on a stable support. Keep the air grille, controls and service access clear. Locate the machine away from direct mist deposition, heat and freezing conditions.

2 Install the mist distribution pipe

Use sealed PVC connections and distribute the mist outlets to suit the area. Run the pipe mainly horizontally, with the far end higher than the connection at the machine so condensate can return. Do not create U-shaped low points that trap water.



Typical pipe arrangement; not to scale. Select pipe size, length, branches and supports to suit the installation.

3 Connect water and overflow

With power disconnected, identify the water inlet and the overflow/drain. Use clean, new connecting lines. Connect water through an accessible shut-off valve and arrange safe discharge from the overflow. Keep the overflow unobstructed. Ensure the supply pressure does not exceed 0.35 MPa (3.5 bar). Open the water supply and check for leaks and correct filling.

4 Check the electrical supply

Have a competent installer verify earthing, cable condition and suitable circuit protection. Check that the supply matches the nameplate before connection. The supply capacity must be greater than the equipment power demand.

5 Complete the first run

Fit all covers. Confirm water is available, the tank has filled and the mist outlet is clear. Start as described on page 4. Observe the unit during the first run and check for leaks, condensate collection and unwanted wetting. Record the serial number and control settings. Stop and correct any fault before routine operation.

Operation and fault checks

Controls

Control	Function
ON/OFF	Switches the humidifier on (I) and off (O).
Air Vol	Adjusts the speed of the internal fan.
Fog Vol	Adjusts the power of the ultrasonic mist generator module.

Starting and adjusting the humidifier

1. Inspect the supply lines and mist outlet. Open the water supply and confirm normal filling.
2. Set the ON/OFF switch to I.
3. Adjust Air Vol to set the internal fan speed. Adjust Fog Vol to set the ultrasonic mist generator power. Make gradual adjustments while observing mist delivery; do not force the controls.
4. Maintain sufficient airflow to carry the mist without pooling or wetting nearby surfaces. Monitor room humidity with a separate hygrometer and adjust the output to suit the application.

This model is manually controlled. Switch it off when the required humidity level is reached. Do not rely on automatic humidity regulation, timed shutdown, fault-code alarms or low-water shutdown. Never operate the unit without water.

Stopping

Set the switch to O. For extended non-use, disconnect power, close the water supply, drain the equipment and store it dry and ventilated.

Fault checks

Symptom	Action
Unit does not start	Check the switch and external supply. If protection trips or the cable is damaged, isolate the unit and request service.
Little or no mist	Check the water supply, control settings and mist pipe for blockage or kinks. Isolate the unit before inspecting scale or the tank.
Water at pipe outlets	Reduce output or stop the unit. Check for trapped condensate, low points and an unsuitable pipe slope.
Continuous overflow or leakage	Stop the unit; close water and disconnect power safely. Have service check the inlet valve/float and drainage.
White deposits or unpleasant odour	Stop and inspect water quality and tank cleanliness. Clean before reuse; obtain advice on suitable water treatment.

Cleaning maintenance and storage

Maintenance schedule

When	Action
Before each use	Check for leaks, damaged leads, obstructions and abnormal water condition.
At least monthly	Clean the water tank. Increase cleaning frequency if deposits or contamination develop.
During tank cleaning	Inspect atomising surfaces and remove scale carefully.
If mist output remains low	Have service assess the oscillating plate and replace it if necessary.
Before extended non-use	Drain fully; isolate water and electricity; store dry and ventilated.

Cleaning procedure

1. Set the unit to O, unplug it and close the water supply. Prevent accidental reconnection. Empty the tank using the intended drain arrangement.
2. Remove the cover only after isolation and only if authorised and competent to service the equipment. Keep electrical parts dry throughout.
3. Gently remove deposits from the tank and oscillating plate with a soft cloth or soft brush. Do not scrape or damage atomising surfaces. Keep oils out of the water.
4. Rinse the tank and plate with clean, unpressurised water. Do not use a jet and do not rinse the outer casing or electrical components. Drain the rinse water completely.
5. Refit the cover securely. Reconnect water, inspect for leaks, then restore power and check operation.

Use no chemical descaler or disinfectant unless its compatibility and cleaning procedure are approved by the supplier.

Water hygiene and storage

Inspect the water before restart. If it has been left standing or is visibly contaminated, drain and clean the tank before use. After extended non-use, clean the tank and refill with fresh suitable water. Never add oils, fragrances or process chemicals without supplier approval.

Before moving or storing the unit, disconnect power and water and drain the tank. Store the equipment in a dry, well-ventilated place protected from freezing.