

7. Inspection and Maintenance

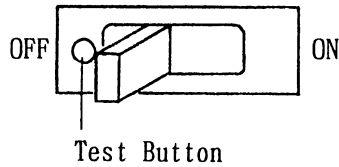
7.1 Items of daily inspection and maintenance

Table of items of daily inspection and maintenance

Item of inspection and maintenance	When	Procedure
Operation of leakage breaker	Before start-up	See section 7.2
Operation of overheat (overcool) protector circuit	Before start-up	See section 7.2
Cleanliness of condenser fins	Every 3 months	Remove foreign objects from the slits on the right-hand side of chamber using a vacuum cleaner.
Cleanliness of chamber interior	Before start-up	Clean surface with pieces of cloth or rags.
Renewal of wet-bulb wick (model SH only)	When contaminated or dried	See section 5.
Cleanliness of wick pan, and water level in it (model SH only)	Every month	See section 5.
Cleanliness of water circuit (model SH only)	Every 2 months	Connect quick disconnect socket to water circuit drain port, located at rear of chamber, and place vat or the like under the socket to catch drain water. Drain water until LOW lamp on operating panel lights up. Restore the drain port, and fill demineralized water through water supply port.
Absence of water in water circuit (model SH only)	When to be out of operation for an extended period of time	Connect quick disconnect socket to water circuit drain port, located at rear of chamber, and place vat or the like under the socket to catch drain water. Drain water until LOW lamp on operating panel lights up. See section 7.2.3
Flushing the water circuit (model SH only)	Every 3 months	See section 7.2.4

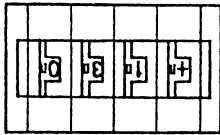
7.2 Inspection and maintenance

7.2.1 Testing the leakage breaker for operation



With the leakage breaker (power switch) at ON, gently press the test button (gray). When the breaker's lever drops in response, it is an indication that the breaker is normal.

7.2.2 Testing the overheat (overcool) protector for operation



- (1) Operate the chamber under constant value control at about 20°C (near the ambient temperature).
- (2) Set the overheat protector to less than 20°C (21°C or more in the case of the overcool protector.) If the protector is abnormal, the alarm message "AL06" appears on the display, and the buzzer sounds.
- (3) Press the power switch to stop the chamber, and set the overheat protector back to the value before the test.

7.2.3 How to drain water from the water circuit (for model SH only)

Insert the quick disconnect socket supplied into the water circuit drain port, located at the rear of chamber. Water in the circuit is then drained. In addition, when the chamber is operated under humidity control, water in the water supply tank is drained.

7.2.4 Chemically flushing the water circuit (For model SH only)

(1) Flushing out the water circuit

- ① Hook up the quick disconnect socket supplied to the water circuit drain port on the rear side of the chamber.
- ② Run the chamber at 20°C and 10% RH, and drain the water from stationary tank. This will take about 30 minutes.
- ③ Prepare the portable tank with 5 mℓ of Benzalkonium chloride (*1) diluted with 5 ℓ of pure water.
- ④ When the stationary tank is drained (ADD lamp flashes), remove the quick disconnect socket.
- ⑤ Add the solution prepared in step ③ to the stationary tank and leave for 10 minutes.
- ⑥ Performs steps ① and ②.
- ⑦ Add 5 ℓ of pure water only to the portable tank.
- ⑧ Perform step ④.
- ⑨ Add the water from step ⑦ to the stationary tank and leave for 10 minutes.

⑩ Repeat steps ⑥ through ⑨.

⑪ Perform steps ① and ②.

*1: Use a 10% concentration of conium benzal chloride.

(2) Chorine content after washing

Chorine content after washing according to (1):

0.2mg/ℓ (Results from water quality analysis)