

7

Daily maintenance and inspection

This chapter explains daily maintenance and inspection. Pay careful attention to the information herein, so as to keep the chamber in prime working condition.

Inspection list

Inspection item	Period	Details
Leakage breaker trip test	Monthly and before starting long run operation	Refer to 7.1
Independent overheat protector trip test	Before operation	Refer to 7.2
Level confirmation	Yearly	Refer to 4.3

Maintenance list

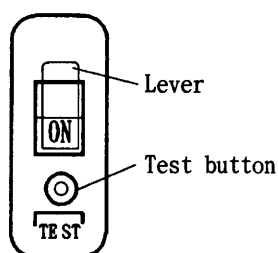
Maintenance item	Period	Details
Cleaning the water tank	Every 6 months	Refer to 7.3
Cleaning the humidifying tray	Every 6 months	Refer to 7.4
Cleaning inside the chamber	Before operation and when completing operation	Refer to 7.5
Cleaning inside the electrical compartment and water circuit compartment	Yearly	Wipe off dust using a duster.
Cleaning the condenser fan	Monthly	Wipe off dust using a duster.
Replacing the water filter	Yearly	Refer to 7.6

7.1 Leakage breaker trip test

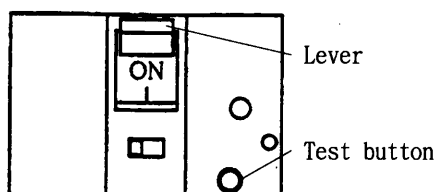
The chamber uses a leakage breaker as the main power supply switch. This clause explains how to confirm whether the leakage breaker functions correctly. Carry out this test monthly or before starting long run operation.

- With both the primary power supply and main power supply switch ON, gently press the test button. The lever of the main power supply switch will trip if working properly. If it fails to trip, there is something wrong with the switch. Contact either your dealer or ESPEC CORP.

- When the switch trips, the lever stops at a point between the ON and OFF positions. To reactivate the power, turn the switch completely OFF and then ON again.



For 1 phase power supply



For 3 phase power supply

Fig. 7.1 Leakage breaker trip test

7.2 Independent overheat protector trip test

Before starting operation, test the independent overheat protector for proper tripping.

- ① Set the setting value of the independent overheat protector to the temperature inside the chamber or a smaller value.
- ② If the independent overheat protector is functioning properly, an alarm will generate and a buzzer will sound. If an alarm does not generate, there is something wrong with the independent overheat protector. Contact either your dealer or ESPEC CORP.
- ③ To clear the alarm, turn OFF the main power supply switch once to return the independent overheat protector to its original settings.

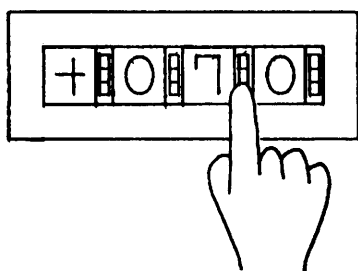


Fig. 7.2 Independent overheat protector trip test

7.3 Cleaning the water tank

- ① Turn OFF the main power supply switch.
- ② When using the pure water automatic supply circuit, close the water supply source.
- ③ Remove the water supply port cover on the inside of the maintenance door.
- ④ Open the water circuit compartment cover at the lower portion on the right side of the chamber using a Phillips screwdriver and then remove the water supply tank from the water circuit compartment. While removing the water tank, pull it out toward you by pulling downward.
- ⑤ Loosen the cap of the rear portion of the water tank and then remove the float switch and water supply pipe. There may be water remaining in the water supply pipe that flows out at this time so be careful it does not soil your clothes.

Further, when using the pure water automatic supply circuit, be sure water does not make contact with the circuit assembly. If water makes contact with the circuit, leakage may result.

- ⑥ Clean the water tank. Return it to its normal position after cleaning.

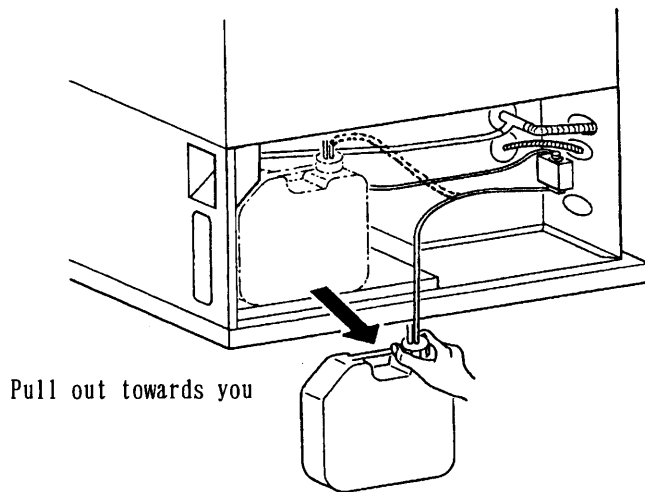


Fig. 7.3 Water tank

7.4 Cleaning the humidifying tray



CAUTION

- After completing operation, the inside of the chamber is hot and a high humidity.
Cool the inside of the chamber sufficiently before cleaning the humidifying tray.
- The evaporator is installed on the left side of the humidifying tray. There is a guard but there is a possibility that is you may catch your hand in the space, you will cut your hand. Do not put your hand past the guard.

- ① Prepare a Phillips screwdriver and a brush for cleaning.
- ② Loosen the four fixing screws on the bottom panel inside the chamber and remove the bottom panel.
- ③ Loosen the air conditioner exhaust port panel and the two fixing screws and remove the panel.
- ④ Clean the humidifying tray with the brush. After cleaning, install the accessory quick coupling hose to the drain port of the inner maintenance door to drain the water.

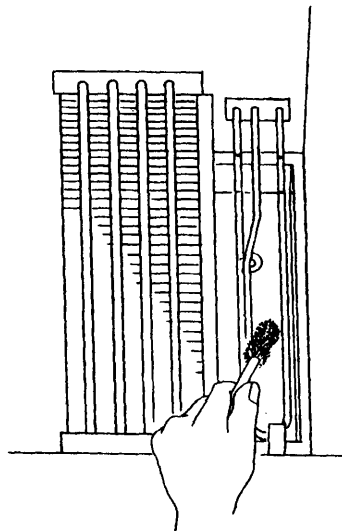


Fig. 7.4 Cleaning the humidifying tray

7.5 Cleaning inside the chamber

Before starting operation and after completing operation, wipe away dirt from inside the chamber with a soft cloth. Further, when cleaning the inside of the chamber with alcohol, open the chamber door, let the inside of the chamber dry overnight to completely vaporize the alcohol inside the chamber. If alcohol component is remaining inside the chamber, there is a possibility test results after the cleaning and specimens placed in the chamber may be affected. Also, packing may deteriorate.

7.6 Replacing the water filter

Replace the water filter located in the water circuit compartment at the lower portion on the right side of the chamber. Use a Phillips screwdriver and a long-nose plier.

- ① When the optional pure water automatic supply circuit is installed, the water circuit on the pure water supply side towards the chamber must be closed.
- ② Remove the hose connected to the water filter. Replace the water filter and connect it to the hose again. Secure the water filter using the accessory crescent clamp. (2 locations)

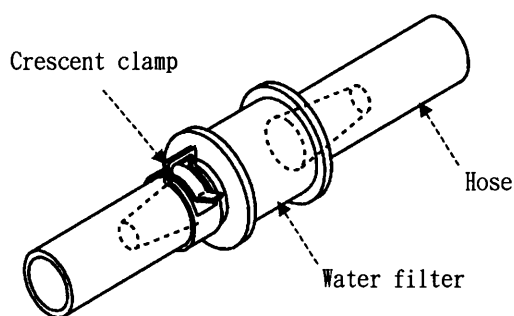


Fig. 7.5 Replacing the water filter