

6

Daily maintenance and inspection

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

6.1 Leakage breaker trip test

This chamber uses a leakage breaker as the main power switch. This test confirms whether the breaker is functioning correctly or not.

Perform this test monthly and before starting other long run operation.

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

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

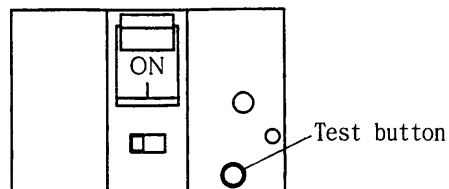


Fig. 6.1 Leakage breaker trip test

6.2 Overheat protector trip test

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

- ① Set the overheat protector temperature below the actual chamber temperature.

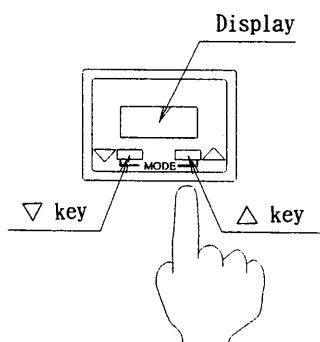


Fig. 6.2 Overheat protector trip test

- ② If the overheat protector is functioning properly, an alarm will be generated: a fault indication lamp will light up and the buzzer will sound. If an alarm is not generated, there is something wrong with the overheat protector. Contact the place of purchase or ESPEC CORP.

• If the overheat protector trips, all of the digits of the setting device display flash.



- ③ To clear the alarm, press the **POWER** key to shut OFF power to the chamber, and then reset the overheat protector.

6.3 Cleaning inside the chamber

After operation has ended, wipe away dirt from inside the chamber with a soft cloth.

6.4 Cleaning inside the electrical compartment

Because the electrical compartment is ventilated, dust easily accumulates inside. Dust accumulation may cause leakage and faulty contacts. Clean inside the electrical compartment once every 2 or 3 months with a vacuum cleaner.

6.5 Cleaning inside the exhaust duct



CAUTION

Be sure to clean inside the exhaust duct, whether of our manufacture or installed by you, once every 2 or 3 months.

The vapor from specimens or airborne substances may settle inside the exhaust duct as sludge. Accumulated sludge may be ignited by the hot air of the exhaust.

6.6 Greasing the air circulator bearing

Perform once yearly.

The grease cup on the bearing holds a eight year charge of grease.

To charge the bearing, stop the chamber and remove the electrical compartment door. Then, while turning the air circulator by hand, slowly turn the grease cup cap clockwise approximately 2 full turns.

If overcharged, the bearing may become hot and burn. Be careful not to overly tighten the cap.

Applicable grease: SUPERLUBE (Yukenkogyo Co., Ltd.)

6.7 Checking the air circulator V-belt

Perform this check when cleaning inside the electrical compartment.

With your finger, press on the belt at the midpoint between the pulleys.

If the belt gives 3 cm or more, slide the motor downward to draw the belt taut. If ineffective, replace the belt.

Applicable belt: Type A #23 (JIS K 6323: Classical V-belts for blower transmission)

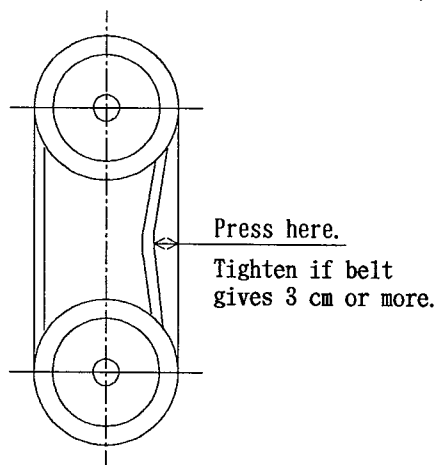


Fig. 6.3 V-belt check