

9. Daily Inspection and Maintenance

Inspection and Maintenance

Maintenance & inspection item	Time or frequency	Procedure
Replacing the wet-bulb wick	When soiled or dry	See Section 10.
Cleaning the wick pan and checking the water level	Monthly	See Section 10.
Changing the water in the humidifying tray and checking the water level	Before start of operation	Connect a water supply/drain hose to the drain port of the humidifying tray, and leave the other end open into the atmosphere. Execute temperature/humidity operation for about 5 minutes.
Cleaning the humidifying tray	Monthly	See Section 10.
Cleaning the water circuit	Monthly	Change the water in the tank, and clean the inside of the tank. See Section 10. Clean inside the humidifying tray water leveler with a clean cloth.
Cleaning the inside of the cabinet	Before start of operation	Clean the inside of the cabinet completely with a clean cloth.
Function of the automatic overheat protective circuit	Before start of operation	See Section 7.7
Function of the leak breaker	Before start of operation	See Section 6.20
Cleaning the air intake and exhaust port on the rear panel	Monthly	See Section 10
Cleaning the condenser fin	Monthly	See Section 10
Cleaning the electromagnetic pump filter	Monthly	See Section 10

10. Maintenance

10.1 Replacing the Wet-bulb Wick

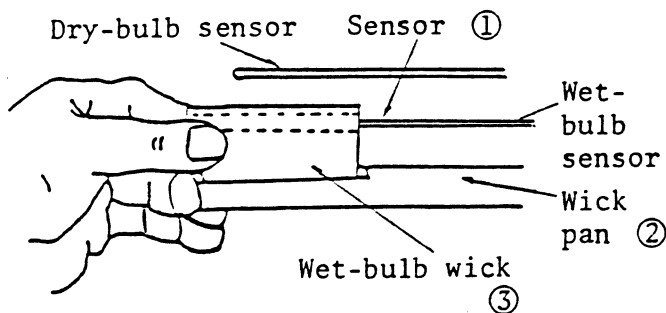


Fig. 29

- (1) Clean the sensor ① (two wet-bulb sensors only) with a clean gauze or cloth.
- (2) Mount a new wet-bulb wick ③ in the wick pan ②. The new wet-bulb wick ③ is sterilized, therefore, wash hands thoroughly with soap and water before touching the new wet-bulb wick ③.

10.2 Cleaning the Wick Pan Water Feeder

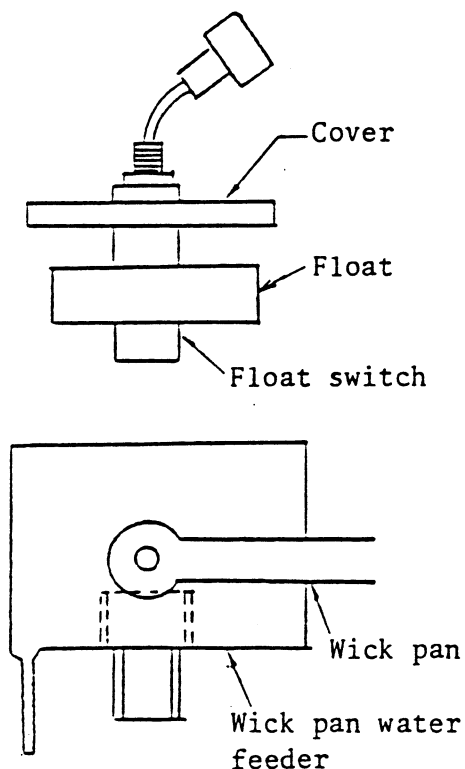


Fig. 30

- (1) If the wick pan water feeder ① inside is clean.
 - (a) First connect the water supply/drain hose with quick disconnect plug to the drain pipe for humidifying tray cleaning, and open the other hose end into the atmosphere to drain water.
 - (b) Then set the cabinet to 25°C, 60%R.H. and operate for about five minutes to drain water through the hose. However, first replenish water into the tank, if the built-in tank water level is EMPTY.
- (2) If the wick pan water feeder ① inside is soiled.
 - (a) Drain water out of the wick pan water feeder as described above.
 - (b) Unplug the power cord and remove six screws holding the rear panel using a Phillip's screwdriver. Remove the rear panel.
 - (c) Remove the wick pan water feeder cover, and clean the water feeder

inside carefully with a cloth.

- (d) Assemble the wick pan water feeder and install the rear panel (all six screws).

10.3 Cleaning the Humidifying Tray

- (1) Lift out the air intake grille forward and remove it.
- (2) Clean the humidifying tray and heater surfaces with the accessory brush.
- (3) Plug the accessory water supply/drain hose into the socket of the drain port for cleaning of the humidifying tray inside the rear panel and drain water out of the humidifying tray. Make draining easy at this time by opening the other hose end into the atmosphere.
- (4) Clean with use of the accessory brush while wetting the humidifying tray and heater surfaces with water. Repeat this a few times.
- (5) Disconnect the water supply/drain hose from the drain port.
- (6) Put back the air intake grille onto the cabinet in the reverse procedure to Step (1) above.

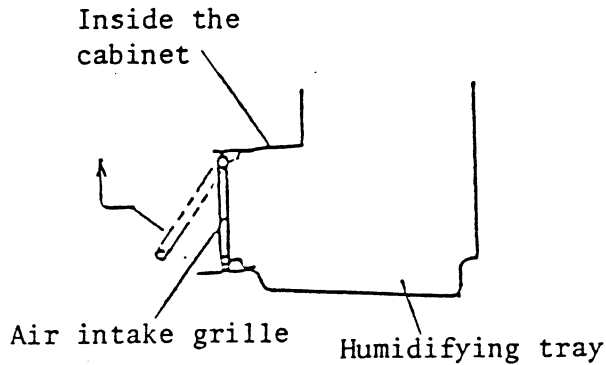


Fig. 31

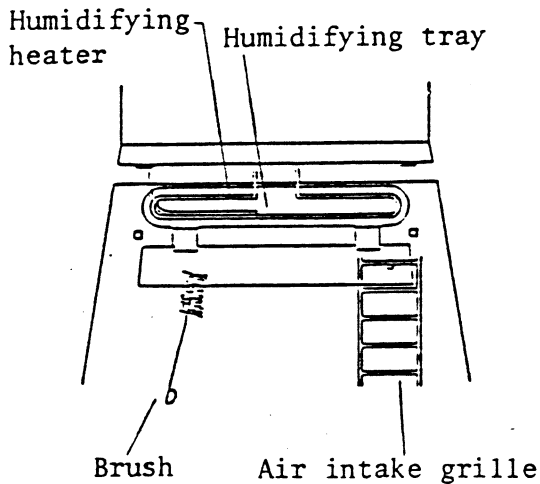


Fig. 32

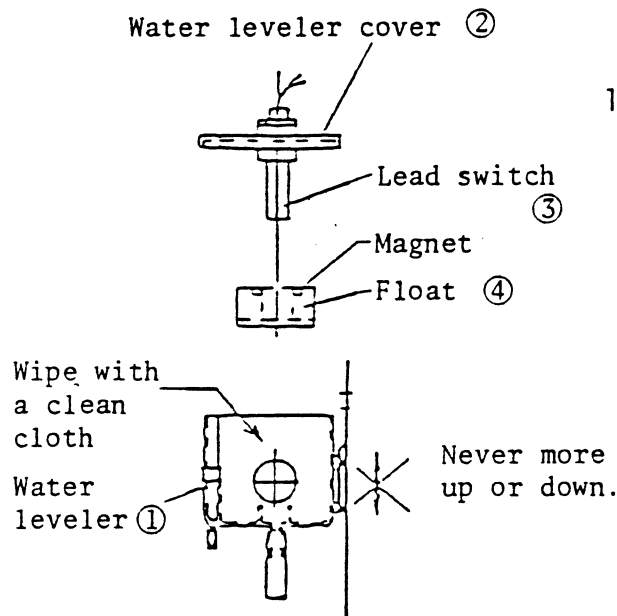


Fig. 33

10.4 Cleaning the Water Leveler of the Humidifying Tray

Never move the position of the water leveler. Moving it may change the water level in the humidifying tray.

- (1) Remove the rear panel.
- (2) Slowly remove the water leveler cover ② from the water leveler ① slowly without undue force. Never move the lead switch ③.

- (3) Record the upper and lower levels of the float, and lift it up and out.
- (4) Clean the inside the water leveler ① with a cloth. Clean the lead switch ③ with a cloth. Wash the float ④ with water.
- (5) Check the upper and lower levels of the float ④, and put it back in the center of the water leveler.
- (6) Firmly secure the water leveler cover ② onto the water leveler ①.
If it not secure, the water level in the humidifying tray may change.

10.5 Tank Inside Cleaning

- (1) Connect the accessory water supply/drain hose with quick coupling plug to the water supply/drain port of the tank and drain water out of the tank. This may take about eight minutes.
- (2) Remove the rear panel.
- (3) Use the water supply/drain hose to fill the tank, (as described in Step (1) above) to about two-thirds level. Then drain the tank again.
- (4) Repeat step (3) above a few times.

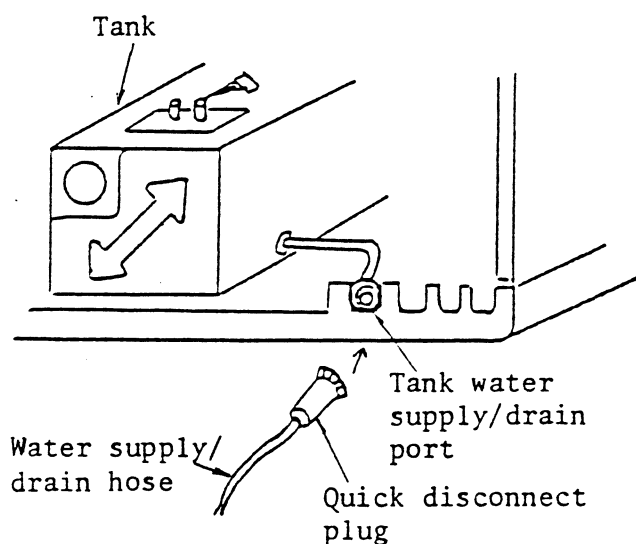


Fig. 34

10.6 Cleaning the Electromagnetic Pump Strainer

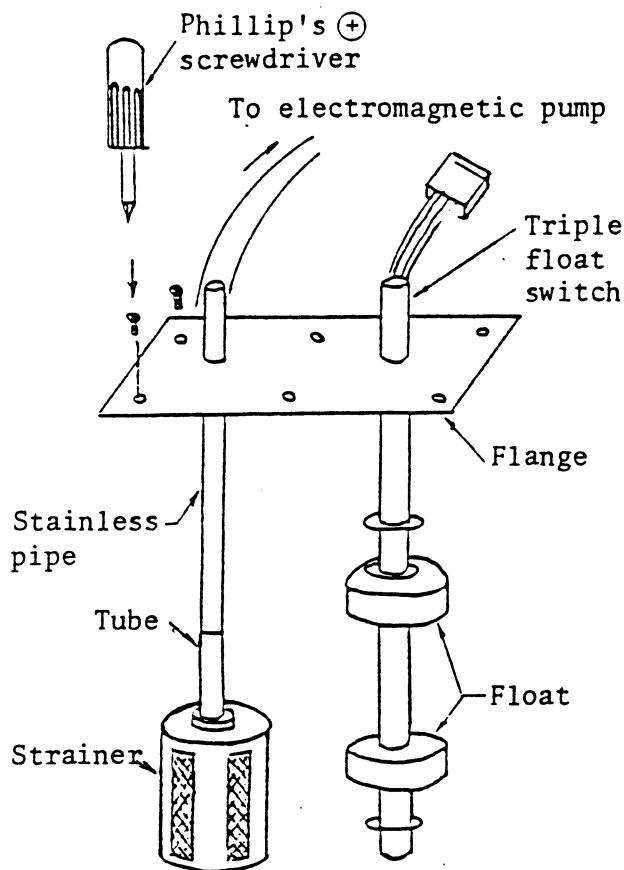


Fig. 35

- (1) Unplug the power cord.
- (2) Remove the rear panel.
- (3) Using a Phillip's screwdriver, lift up and remove the triple float switch and strainer flange fitted on the upper part of the built-in tank.
- (4) Pull out the strainer fitted on the tube end, and wash it clean with fresh water.
- (5) Reassemble in the reverse procedure.

10.7 Cleaning the Inside of the Power Distribution Compartment

Before cleaning the inside of the power distribution compartment, always open and close the door to remove any water condensed on the door.

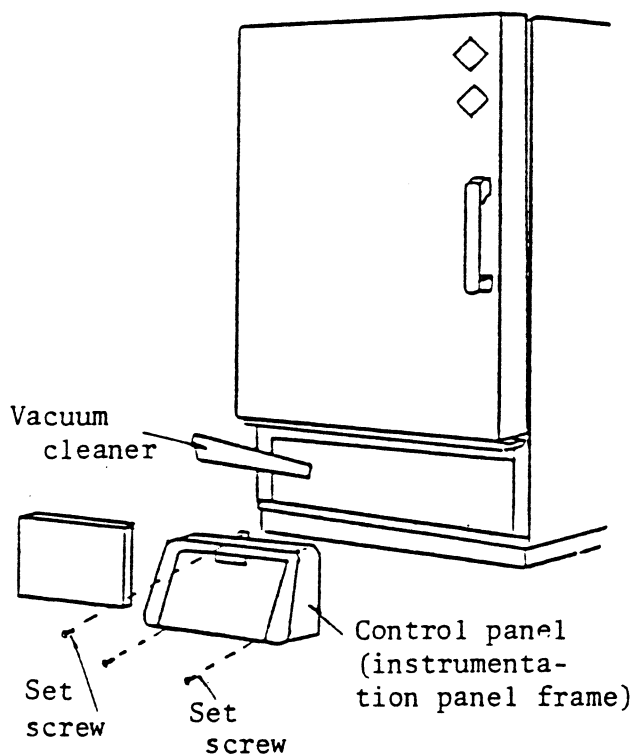


Fig. 36

- (1) Unplug the power cord.
- (2) Using a Phillip's screwdriver, remove the screw on top of the control panel.
- (3) Remove the two screws on the bottom of the control panel.
- (4) Pull out the control panel horizontally, and take out the subpanel.
- (5) Remove dust from inside the power distribution compartment with a vacuum cleaner.

(Note): Pay special care to wirings when removing the control panel.

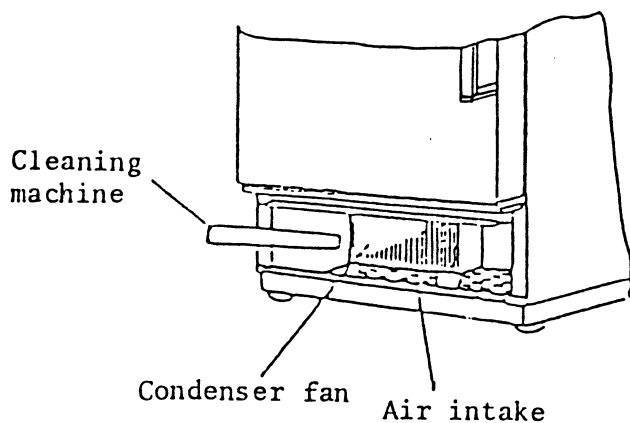


Fig. 37

10.8 Cleaning the Condenser Fin and Air Intake

Before cleaning the condenser fin, always open and close the door to removed water that has condensed on the door.

- (1) Remove the control panel and sub-panel as described in the last section.
- (2) Dust off the condenser fin with a cleaning machine or the like.

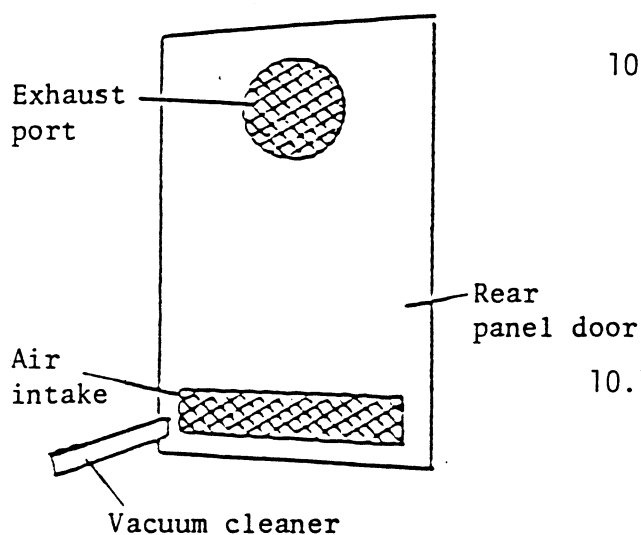


Fig. 38

10.9 Cleaning the Air Intake and Exhaust Port on the Rear Panel

- (1) Remove dust from the air intake and exhaust port grille meshes with a vacuum cleaner.

10.10 Cleaning the Inside of the Rear Panel

- (1) Unplug the power cord.
- (2) Remove the rear panel door, and clean dust from the inside of the rear panel with a vacuum cleaner.