

Sentinel HDi90

Please kindly click link below of maintenance video for your machine faults before you ship the unit back to us. As some simple faults can be easily solved by yourself.

Sentinel HDi90 Maintenance Video:

A1: Install G3 filter

https://youtu.be/e9z_REJf2x0?list=PLblzkv3HhX7RvN3T9wR11QQvgVuOzA0D3

A3: Change the front cover

<https://youtu.be/oDIJHXGueSE?list=PLblzkv3HhX7RvN3T9wR11QQvgVuOzA0D3>

A6: Change the Water Pump

<https://youtu.be/rczD1n2mOQA?list=PLblzkv3HhX7RvN3T9wR11QQvgVuOzA0D3>

A7: Changing the humidity sensor

<https://youtu.be/KEicT0NQxio?list=PLblzkv3HhX7RvN3T9wR11QQvgVuOzA0D3>

A8: Changing the display board

https://youtu.be/3kXkGxZmX_g?list=PLblzkv3HhX7RvN3T9wR11QQvgVuOzA0D3

A9: Replacing the motor & fan

https://youtu.be/oGQfm_ap78s?list=PLblzkv3HhX7RvN3T9wR11QQvgVuOzA0D3

A11: Changing the main control board

<https://youtu.be/cw0pXBidfJE?list=PLblzkv3HhX7RvN3T9wR11QQvgVuOzA0D3>

B2: How to duct

<https://youtu.be/dihUP-Y4o7A?list=PLblzkv3HhX7RvN3T9wR11QQvgVuOzA0D3>

B4: How to use remote controller

<https://youtu.be/tsVXjva9Gpc?list=PLblzkv3HhX7RvN3T9wR11QQvgVuOzA0D3>

※Troubleshooting※

Symptom	Cause	Solution
Machine Won't Run	Power Supply	Verify that there is power to the outlet and that the plug is properly installed in outlet
	Room Temperature Over 105° F (Display HI) or Below 33° F (Display LO)	The unit is outside the operating temperature range. Modify the room conditions so the temperature is between 33° F to 105° F and operation will commence.
Low Air Flow	Air Filter is Clogged	Clean the filter mesh according to instructions listed in manual
	Air Inlet or Outlet is Blocked	Clear the blockage from inlet or outlet
Loud Noise	Machine Is Not Level	Move the dehumidifier to flat, firm ground
	Filter Mesh is Blocked	Clean the filter mesh according to instructions listed in manual
Trouble Code: E1	E1=Humidity Sensor Issues	Check to ensure that wire is connected at both ends. If no issues are visible, the sensor may be faulty.
Trouble Code: E4	Pump has failed	Verify that the pump is working. If so, unplug the unit for two minutes, then restart
Trouble Code: HI or LO	Room Temperature Over 105° F or Below 33° F (Display LO)	The unit is outside the operating temperature range. Modify the room conditions so the temperature is between 33° F to 105° F and operation will commence. If room is not out of temperature range, replace faulty sensor.

Pump Alarm- Trouble Code E2/ E4

If a pump alarm is shown on the display, complete the following steps:

1. Reset the unit by disconnecting the power cord and then reconnecting it.

NOTE: UNIT WILL NOT FUNCTION UNTIL ERROR CODE HAS BEEN CLEARED.

2. Manually check to see if pump is operational by pressing the drain button. Check if the pump energizes and de-energizes properly. Additionally, check to see if any water purged from the system.

3. If you haven't cleaned the system recently, check the discharge line for an obstruction, then clean the balance of the pump system (see "Maintenance" on page 8 for details).

4. Replace the hoses and/or pump, if maintenance alone isn't sufficient.

Pump maintenance

1. Unscrew the 4 screws on the pump access panel.

2. Remove the screw on the pump.

3. Undo the 3 pump quick connects.

4. Insert a flathead screwdriver into the notch on the side of the pump to help you gently lift the pump off its reservoir (the reservoir remains attached to the unit).

Cleaning/Disinfecting the Pump

Basic Cleaning (Complete about once a year, depending on environment)

1. Remove the end cap on the filter side of the unit. Press the drain button to drain the reservoir.

2. Disconnect power to the dehumidifier.

3. Mix a 16 oz solution of either (1 oz bleach + 15 oz water) OR (4 oz white vinegar + 12 oz water).

4. Pour solution into the drain tray at the base of the coils. If any cleaning solutions gets on coils, flush with water.

5. Allow solution to soak for 15 minutes.

6. Reconnect the dehumidifier to power.

7. Fill the reservoir and flush/cycle the pump at least two times.

8. If drain line is still filled with debris, repeat process. If still not cleaned, move on to Advanced Cleaning.

9. Reassemble unit, unless moving on to advanced cleaning.

Advanced Cleaning(Complete as needed)

1. Press the drain button to drain the water from the reservoir (A wet-dry vacuum or towels can be used to remove any remaining water).

2. Unplug the dehumidifier and remove the cover so you have access to the pump.
3. Remove the pump head from the reservoir by unscrewing the screw. Wipe reservoir clean with a paper towel.
4. Mix a 16 oz solution of either (1 oz bleach + 15 oz water) OR (4 oz white vinegar+ 12 oz water).
5. Fill the pump reservoir with cleaning solution.
6. Reassemble pump, then use manual drain button to flush mixture through discharge tubing.
7. Pour same cleaning solution slowly into drain tray under evaporator coils and let it clean hose from pan to pump. This process can be stopped when the pump energizes one time. NOTE: If you get any of the cleaning solution on the coil, flush with water.
8. Pour sufficient clean water through drain pan to allow the pump to turn on twice.
9. Reassemble the unit and return it to operational status.