



# APPLICATION NOTE

## AN 145 AUTOMATIC DRAIN ASSEMBLY

INSTALLATION INSTRUCTIONS & OWNER'S MANUAL  
AUTOMATIC DRAIN ASSEMBLY

SUPPLEMENT TO THE ELECTRONIC STEAM  
POWER HUMIDIFIERS MODEL #S2000 AND S2020

## Field Controls Humidifiers

**NOTE:** It should not be necessary to remove the unit from the duct to perform this replacement procedure.

### **INSTALLATION:**

1. Unplug the power cord from the 120 volt source for the S2000. (240 volt for the S2020).
2. Allow the water in the pan to cool for at least 60 minutes.
3. Open the manual drain valve and drain the water bin completely. Have a container ready to catch the water. **CAUTION: The water may still be hot!**
4. Unplug the plastic moxex connector lead to the drain valve on the right hand side of the front cover.
5. Pull off the drain lines/overflow lines connected to the brass elbow or plastic "T" adaptor drain fitting.
6. Using a backup wrench on the old drain valve, remove the brass elbow adaptor, or plastic "T" adaptor.
7. Using a backup wrench on the brass street "T" adaptor, remove the old drain valve.
8. Clean the threads on the brass "T" adaptor and apply new teflon tape to the threads.
8. Screw on the new drain valve. **IMPORTANT: Observe the direction of flow on the solenoid valve.**  
Tighten using a back up wrench on the brass street "T" adaptor, and a suitable wrench on the flats of the drain valve body. **NOTE: Do not use the top of the solenoid valve as leverage when making connections, or tightening. Doing so will damage the valve and voids all warranties.**
9. Clean the threads on the brass elbow adaptor or the plastic "T" adaptor and apply new teflon tape to the threads.
10. Screw the brass elbow adaptor or the plastic "T" into the solenoid valve, and tighten to a position with the barb fittings pointing down, or straight up and down.
11. Re-connect the drain and/or overflow tubing to the barb fittings.
12. Route the drain tubing to a suitable drain. Do not route the tubing above the humidifier!
13. Re-connect the solenoid moxex wire plug, into the socket on the right hand side of the front cover.
14. Close the manual drain valve. **Check your work for accuracy.**
15. Plug in the power cord and set the humidistat to call for humidity.
16. The drain valve will open momentarily, the water fill valve will open, and the bin will fill with water.
17. Inspect for leaks and repair as necessary.

### **OPERATION:**

17. The humidifier will resume normal operation.
18. The control panel will automatically detect the presence of the new drain valve.
19. The control panel will initiate a drain and flush cycle every 12 hours.
20. The water tank is allowed to cool to 140\* F. Before the drain valve will open.
21. This will reduce the amount of mineral build up inside the water bin, and extend the life of the heater element and optimize performance.

### **MAINTENANCE:**

22. The automatic drain kit does not take the place of routine manual cleaning, preventive maintenance and storage shutdown.
23. Mineral build-up inside the tank will be softer and easier to remove.
24. A properly installed drain kit, and regular preventive maintenance and cleaning, will keep your power steam humidifier working for many years.
25. Contact the Field Controls technical support line if you have any questions or need assistance.

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