Start-up Procedure

Initial verification and start-up must be carried out by suitably qualified personnel.

It is strictly recommended to follow this start-up procedure in order to avoid any anomaly resulting from inaccurate installation of the components.

Initial Verification

Clearance	1. Ensure that the humidifier cabinet is installed in a location in which the humidifier can be serviced correctly.	☐
Electrical Supply	2. Verify that the power supply (voltage) conforms to the appliance name plate on the side of the humidifier.	☐
	3. Confirm that 24Vac is present between terminals TB4 1&2 on the printed circuit board.	☐
Water Supply	4. Ensure that water is supplied to the humidifier and that a shutoff valve is placed outside the humidifier.	☐
	5. With the water shutoff valve turned on, check that the drain connections are connected to the main drain line with sufficient diameter. Ensure that there are no apparent leaks.	☐
	6. Confirm that the drain piping is properly connected with a pitch of at least ¼" (6.5mm) per foot (300mm).	☐
Clean Steam	7. Verify that the steam distributors are properly installed into the ventilation duct.	☐
	8. Verify that the flexible steam hoses and rigid steam supply pipes are shorter than 16 ft (5 m) in total, are properly sloped and have condensation "S" traps wherever required.	☐
Raw Steam Supply	9. Confirm that raw steam is supplied to the humidifier and that the supply line is hot upstream the control valve. The pressure must not exceed 15 PSI (103.4 kPa).	☐
	10. Confirm that the shut-off valve located outside the humidifier is closed. With the shut-off valve turned on, check for leaks or hissing sounds.	☐
	11. When using raw steam supply, verify the type and size of the condensate return steam trap. The steam trap must be of float type and of sufficient dimension, according to the capacity.	☐
Controls	12. Ensure that the control valve is properly connected to the output control signal of the humidifier.	☐
	13. Ensure that the Airflow switch is properly installed and connected to the printed circuit board. If an Airflow switch is not used, verify that a jumper is connected between terminals TB3 1&2.	☐
	14. Ensure that the High limit duct humidistat is properly installed and connected to the printed circuit board. Verify that the setpoint is properly adjusted. If a High limit duct humidistat is not used, verify that a jumper is connected between terminals TB3 1&3.	☐
	15. Ensure that the Interlock is properly connected to the printed circuit board. If the Interlock is not used, verify that a jumper is connected between terminals TB3 1&4.	☐
	16. If a room or duct humidistat is used, verify that it is correctly installed and properly connected to the humidifier. Verify that the setpoints are properly adjusted.	☐
	17. Turn the power on using the disconnect switch or circuit breaker.	☐
	18. Confirm the control set-up of the humidifier and verify that the setpoints are properly adjusted.	☐

Start-Up

Start-up

1. Proceed to start-up the humidifier, as follows:
   a) Turn on the humidifier by pressing and holding the Power button for 3 seconds. Verify that the controller Status Display LED is blue. ☐
   b) Verify that there is a humidity demand displayed on the LCD screen of the humidifier. ☐
   c) Ensure that the water supply valve connected to the humidifier is turned on and that water is flowing directly to the humidifier water supply inlet. Ensure that the water shut off valve is turned off. ☐
   d) Verify the water level as water is filling the evaporation chamber by using the control panel to access the *WaterLevel* setting located in the *Physical IO* sub-menu of the *General* menu. Ensure that there are no water leaks along the water line. ☐
   e) Once the evaporation chamber has been filled, observe the system for water and steam leaks during several minutes of operation. ☐

Safety Test

2. Check the location of the Airflow switch in the system and its operation by stopping the fan. With no air movement, the humidifier should automatically stop. ☐

Drain and Reset

3. Turn off the humidifier by pressing and holding the Power button for 3 seconds. ☐
4. Conduct a drain cycle by pressing and holding the Drain button for 3 seconds. Ensure that the evaporation chamber has been emptied. ☐
5. Once the drain cycle is complete, restart the humidifier by pressing and holding the Power button for 3 seconds. ☐
6. Reset the Airflow switch if needed. ☐

End

7. The humidifier is now ready for normal operation. ☐