

May 9th, 2022

## **CLIMETEC VERTICAL FAN COIL UNIT HUMIDIFIER SPECIFICATION**

### **MAIN CONSTRUCTION**

The Climetec Humidifier uses an electric resistive heating element in its steam humidifier. It has a self-contained, modulating controlled steam generation, with unique scale management system, built in. The system is located inside fan coil unit to mix steam with supply air with will then distribute steam thru the supply air duct system.

### **CAPACITY**

Provide 0.55 – 1.00 kg/h. or 3 – 6 Gallons per day.

### **STEAM BOILER**

The boiler is constructed of a stainless-steel vessel body with 1kw heating element fitted on the lower portion with a thick-film resistance heater on the exterior. A temperature sensor is integrated into the heater sense the water temperature. A temperature fuse is also located on the surface of body to cut of power in the case of an over-heat situation.

### **CONTROL BOARD**

A dedicated humidifier control board controls the power level of steam heating element as well as the water level. An automatically flushing system to clean the scales inside the boiler as well as ensuring fresh water had been integrated into the firmware. An integrated humidity sensor controls the room humidity level without the need for additional fixtures. The Humidifier is interlocked to the FCU control board so that when there is not a call for heating from thermostat, there will be no humidification provided.

### **WATER LEVEL CONTROL**

A solenoid fill valve and drain valve, as well as the integrated water level sensors, work together to maintain the water level inside the boiler automatically.

### **HUMIDITY SENSOR**

A humidity sensor located in the front of drain pan and return air stream to provide room humidity level to control board to energize humidity or turn off as per the humidity level sittings.

### **PIPING**

1/4" OD copper supply pipe for water supply connection. 3/8" OD copper lines thru the whole system.

### **ELECTRIC DATA**

120v/1ph/60hz, maximum 8.3 amps current. Separate power supply from FCU.