



## Specification for ElectroVap™ MC Electrode Boiler Humidifier

1. Humidifiers shall be ElectroVap™ MC electrode boilers for the production of pure and sterile steam.
2. Humidifiers will comply fully with CE, UL and CSA requirements.
3. The humidifier cabinet shall have separate water and electrical compartments for safety which have their own completely removable door panels providing access to the front and both sides of the unit for easy installation and maintenance. Units shall be epoxy-painted zinc galvanised steel.
4. Humidifiers will operate with tap, softened, DI or RO water (30-1000 µS).
5. The humidifier shall be capable of producing between 5 to 90 kg/h of steam. The nominal output shall be capable of reduction by up to 50% via the software.
6. Units shall be able to accept fully common modulating signal ON/OFF or proportional. The microprocessor shall regulate proper filling and draining, adjust steam capacity between 20 to 100%.
7. The digital display and keypad on the front panel shall indicate all functions of the humidifier including steam production, actual current, steam required, control signal output, high level water, over-current, actual power consumption, operational hours, maintenance due and interval, steam volume produce, fault codes.
8. Cylinders could be either disposable or cleanable. They shall include solid plain stainless steel electrodes, divider, sediment strainer and high water level sensor
9. A power lamp shall display power to the humidifier and a steam production lamp shall be illuminated while steam is being produced.
10. Units should incorporate a programmable maintenance schedule timer: 1000 hours in standard but adjustable from 100 to 20 000 hours.
11. Drainage of the cylinder for maintenance shall be via a switch, located in front of the cabinet, on which you needn't to stay pushing on it during all the drain.
12. Humidifiers shall include anti-foaming and automatic conductivity compensation system.
13. Humidifiers shall be supplied with stainless steel steam distribution pipes with separate condensate drains. For large duct or short absorption distance, humidifiers shall be compatible with Humidipack panel. When steam will be directly discharged into the area, humidifiers (max 30 kg/h) shall have a room ventilation unit.
14. An end-of-season drain timer shall auto drain the cylinder after period of inactivity: 3 days in standard but adjustable from 12 hours to 7 days.
15. Water supply pressure to humidifier shall range between 1 to 6 bar, inlet valve shall include a flow restrictor and a built-in strainer.
16. Option that should be available:
  - a. BMS
  - b. Remote information board which is a set of dry contacts indicating steam demand, cylinder cleaning and control circuit alarm
  - c. An ON/OFF humidifier may be upgraded to proportional at any time with the installation of a new memory chip.