

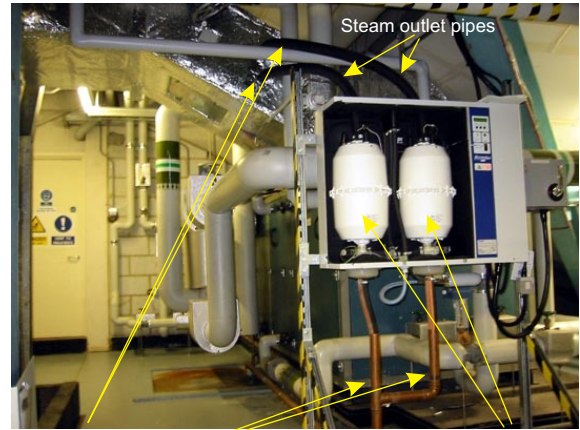


Humidity Control in Air Conditioned Buildings

Humidity control is an important aspect of air conditioning and can be provided in a variety of ways. One relevant device commonly used to which SteamKLEAR provides immediate benefits are stand alone humidification units, an example of which is pictured here.



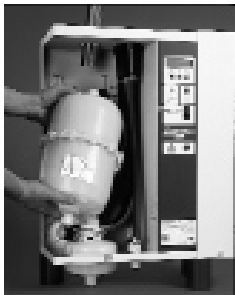
Typical stand-alone steam generator type humidifier unit. This model - ElectroVap MC has 2 steam vessels producing around 44kg of steam per hour.



Steam outlet pipes
Pipes to air duct Blow down pipes Steam generating vessels

The ElectroVap MC humidifier is designed to provide steam to an air handling system or directly into a space in order to raise the relative humidity.

The unit is an electrode boiler type humidifier. Minerals in the water allow electric current to pass between stainless steel plates that are immersed in water, all enclosed within a cylinder. The passage of this electric current causes the water in the cylinder to boil and produce steam. The steam then passes into the air handling system or duct via a stainless steel distribution pipe. Alternatively it may be passed directly into the space via a Fan Distribution Unit. Optimum water conductivity is maintained by partial drain and inlet cycles controlled by the microprocessor.



Where there is no water treatment/softening the manufacturers suggest the steam vessel is replaced when output falls significantly. In the case of the Orange building below this was around every 3-4 months. Downtime, labour and parts probably amount to £150 per vessel.

One S38 model fitted in this instance provided an immediate and long term solution. If SteamKLEAR is used this replacement need could be avoided. If any scale did build it would be soft and easily rinsed away.



Typical building using steam generated humidifiers
Orange Telecomms. SJames building Bristol

