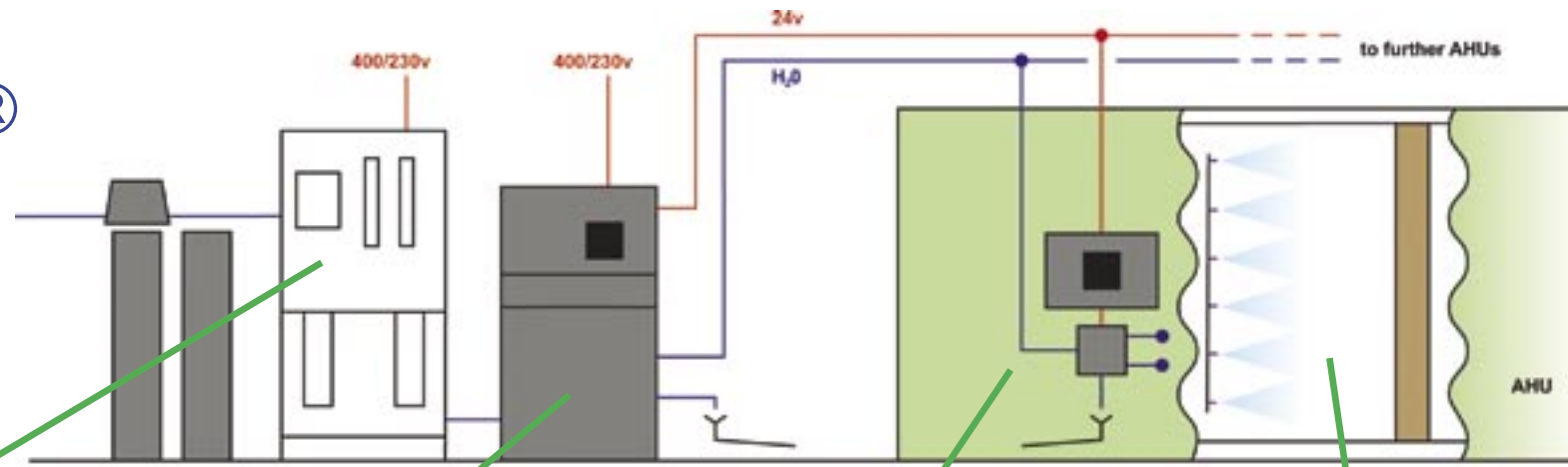


# humideco ecomist<sup>®</sup> HVAC

## Realise the benefits of high pressure humidification



### EMWT

High specification water treatment to suit the application and supply water quality



### EMCU

Inverter driven control unit, one EMCU can serve a number of AHUs

Model	Max capacity	Power requirement
EMCU100	100 kg/hr	0.4kw
EMCU200	200 kg/hr	0.6kw
EMCU500	500 kg/hr	1.7kw
EMCU1000	1,000 kg/hr	2.2kw

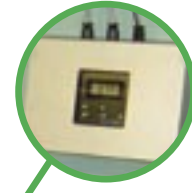


Unique vari-colour LED display EMCU controller

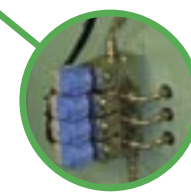
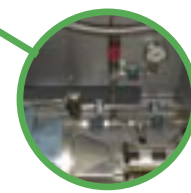


### EMdu

High quality stainless steel, oil-free pumps, valves and controls



LCD display and control module



6 stage, proportional output valves



Ceramic ecomist nozzles, uniquely developed by Humideco ensure a consistently fine, open mist for rapid evaporation



Project specific ecomist HVAC nozzle manifolds and glass fibre evaporation modules

### Humidification and air quality

In today's workplace, maintaining an adequate level of relative humidity is a vital component of good indoor air quality and a major factor for human comfort and well being. The EcoMist HVAC system has been designed and developed for use within air handling units, to control relative humidity levels in buildings efficiently and economically.

EcoMist HVAC combines the benefits of high pressure atomisation with that of evaporation: our specially developed EcoMist nozzles, positioned across the airflow on manifolds, achieve rapid moisture evaporation, whilst the 50mm deep glass fibre modules downstream increase the system efficiency, and prevent aerosols entering the airflow.

### EcoMist HVAC benefits:

- No water recirculation - high output, high efficiency
- Minimal maintenance - no outdated oil lubricated pumps
- Very low energy - less than 0.3kw per 100 kg/hr
- All stainless steel - long service life
- Absolutely clean & hygienic - complies with HSE AcoP & VDI6022 standards
- UV and/or silver ion water sterilization incorporated
- Proportional or stepped output control
- Modular design - humidification capacities up to 1,000 kg/hr

### Hygiene



EcoMist HVAC systems operate to the highest levels of hygiene, complying to HSE AcoP and VDI6022 standards. The EMCU control unit features absolute water filtration, plus failsafe UV sterilisation and/or silver ionisation, providing a residual biocidal effect throughout the system. At the air handling unit, the EMdu schedules regular flush and drain cycles, ensuring that water does not stand idle in pipework and that a constant supply of fresh water is available.

### Low energy consumption



The EcoMist HVAC system consumes less than 1% of the energy of a steam humidifier with equivalent output, and less than 10% that of a compressed air system. Operating costs are therefore extremely low, and payback periods are usually less than 2 years where the EcoMist HVAC replaces older humidifiers.

### Minimal maintenance

EcoMist HVAC control units utilize a rugged and reliable high pressure rotary water pump. The pump and valves are lubricated entirely by the system water, no oil is required, thereby reducing maintenance and avoiding the risk of oil entering the humidifier. The correct water treatment ensures freedom from scale deposits, and the unique low-wear ceramic EcoMist nozzles have a service life many times longer than metal nozzles.

### Service



Installation, commissioning, routine servicing and hygiene monitoring.



**Humideco Limited**

The Brewhouse  
Old Bexley Business Park  
19 Bourne Road  
Bexley, Kent DA5 1LR  
United Kingdom

Tel: (+44) 01322 429955  
Fax: (+44) 01322 553614  
Email [info@humideco.com](mailto:info@humideco.com)  
Web: [www.humideco.com](http://www.humideco.com)



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HVAC

LOW ENERGY HUMIDIFIERS FOR AIR HANDLING UNITS



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