

## FACTS ON HUMIDITY



## Benefits

An incorrectly installed humidification system can cause unnecessary, avoidable problems. When a humidifier is inappropriately installed, it will operate inefficiently causing excessive power consumption and increased maintenance costs. The humidifier output may be unnecessarily restricted and in some cases the humidifier may pose a future potential health hazard.

Installing a humidifier correctly will result in the following benefits:

- Long and Short Term Cost Effectiveness
- Efficient Long-Term Operation
- Energy Savings
- Reduced Installation Labour Time

HumiTech incorporates highly trained engineers from the humidification industry. Humi-Tech works very closely with humidification manufacturers; constantly updating its technical knowledge and familiarisation of their new products. HumiTech can provide a complete specialised professional design, installation and commissioning package. Packages can be specifically designed to each individual customer's requirements.

## The importance of correct humidification installation

**Installing humidification systems it is paramount that the humidifier's are installed to manufacturers guidelines by specialist humidification installation companies. This guarantees optimum, trouble-free and efficient operation of the humidifier.**

Installing HVAC plant generally requires the expertise and experience of specialist installation companies. The humidifier and its associated equipment is all too often incorrectly regarded as an 'extra component' which can 'easily be installed by anyone'. It is paramount that the humidifier's are installed to manufacturers guidelines by specialist humidification installation companies. This guarantees optimum, trouble-free and efficient operation of the humidifier.

### Careful Selection

With the introduction of many new Humidification products on the market today, it is essential that each humidifier be researched thoroughly so that the most appropriate system can be selected for each individual site.

Adiabatic and isothermal humidification systems both require meticulous pre-selection, design and planning so as to avoid future costly operation problems.

All installation design factors should be considered at this stage. This entails the calculating of the humidification electrical power loads and supplies, facilities for control wiring, water quality and supply availability, steam injection/distribution access, nozzle positioning, location of drainage points, calculation of compressed air loads and supplies, pre-heating availability, accessibility and very importantly health and safety issues.

### Humidifier Replacements

One of the humidification installations favoured by clients, is the direct replacement of an old, mal-functioning humidifier by a modern, advanced version of the same make. This can create considerable savings in labour costs, but however, with changing humidifier designs and technology, this may not always be the most appropriate solution.

Retro-fit installations however, require additional considerations. Although essential services can be available and in some cases local to the proposed humidifier siting, the reasons for the absence of a humidifier in the original specification should be established.

**HumiTech**  
Part of Munters Group