

# Emergency humidifier hire protects data centre operator

Like any environment where electronic hardware is present, data centres, server rooms and IT facilities are extremely susceptible to the build-up of static discharge. Current guidelines recommend that data centres have a humidity level 60% relative humidity, with an allowable range of between 20-80% RH. This means that at certain points of the year, almost every data centre will need the use of a humidification system to instil these internal conditions.

We were recently contacted by an international data centre operator after they encountered some difficulties following the breakdown of the humidification system at their Canary Wharf premises. Due to a data centre's need for high capacity cooling, air conditioning loads within the data centre itself were removing both heat and moisture from the area – leaving relative humidity lower than it should have been. This occurs due to moisture being collected by the evaporative coils of internal air conditioning systems and increases the likelihood of static electricity interfering with telecommunications equipment.

The customer was concerned about the potential for vital components to be damaged and potentially cause an outage that would cost them hundreds of thousands of pounds. They requested that one of our expert engineers conduct a survey of the application and propose a temporary humidifier hire arrangement to replace the existing unit undergoing repairs.

After calculating the dimensions of the data centre and the cooling capacities that were required to prevent hardware from overheating, it was decided that six H60 units and four Century Series 4 models would ensure that relative humidity was maintained at a safe level throughout the duration of their use. By deploying our units strategically around the room, we were able to preserve the operability of critical computer and storage systems and address the issue of the air conditioning systems causing a humidity imbalance.



**Duty Rated** 30% rh. 21°C 2.5 l/h

**Air flow (max)** 800 m<sup>3</sup>/h

**Power supply** 230 V 1 ph 50 Hz Run 0.23 A

**Noise level** 29 dBA @ 1 metres

**Weight** 18.8 kg empty / 52.8 kg full

**Dimensions (L x W x H)** 625 x 316 x 720 mm

**Reservoir capacity** 34 litres

**Average power consumption** 53 W/h

**Control** Integral humidistat



**ANDREWS  
HUMIDIFICATION**

HIRE SALES SERVICE INSTALL

**0800 211 611**

**andrews-sykes.com**