



Calorex DH60

The DH60 commercial dehumidifiers from Calorex are versatile wall-mounted units, with additional space heating options.

Fire stations and training centres

Practical training for fire fighters also provides plenty of wet clothing at the end of each session, but thanks to two Calorex wall mounted DH60 dehumidifiers the clothing of trainees and instructors at the Greater Manchester County Fire Service's Fire Training Centre is dry and ready for use by the following morning.



Conventional heating and extract fans were previously used at the Centre but when the drying room was enlarged, heat pump dehumidification was chosen as a more efficient and economical method of drying. The new drying room has the capacity to dry up to 50 uniforms at a time.

All Calorex dehumidifiers are fully packaged, easy to install and can operate efficiently over an ambient air temperature range of between 0 and 40°C.

Damp uniforms are no problem for firefighters at the London Fire Brigade Training Centre at Southwark, in London thanks to the installation of a Calorex DH60AX wall-mounted dehumidifier.

All London firefighter re trained at the Training Centre with over 100 trainees taking part in wet training several times a week. The Calorex DH60AX works



alongside the Training Centre's fire gear drying room heating system, to ensure that the crews' uniforms and kit dry off quickly for the next day's training.

The self-contained Calorex unit was specified by consulting engineers to the London Fire and Emergency Planning Authority (LFEPA) – and installed by the projects division of Surrey-based building services maintenance contractors Nationwide Maintenance.

Zoo's

Damage caused by high humidity levels in the Koi Carp building at Colchester Zoo has been stopped in its tracks, following the installation of a Calorex dehumidifier.

Ranked as the 11th best zoo in the world, Colchester has a number of Koi Carp and Japanese Bitterling housed in a Japanese-influenced exhibit named Koi Niwa. Within the exhibit building there are two large pools and two filtration systems visible to visitors.

John Game, deputy estates manager at Colchester Zoo explains: "We were having problems with condensation within the Koi Niwa building which had led to the discolouration of the internal bamboo cladding.

"Following technical guidance from Calorex, a wall-mounted DH60AX dehumidifier unit was fitted to remove moisture from the atmosphere.

"The unit was good value for money and we were very happy with the service provided by Calorex."



Military storage

Dehumidifiers, supplied by Calorex, will be playing a vital role in maintaining precise climate conditions — crucial to the safe storage of explosives – now that we have become approved suppliers to the Ministry of Defence.

With their ability to extract moisture from the atmosphere, dehumidifiers control the atmosphere in armament depots that must be kept free of flammable vapours and potentially explosive dust.

Conditions need to be maintained at 55-60%RH to prevent corrosion of metals and avoid deterioration of stored finished munitions such as shells and boxes of bullets. Immediately, Calorex DH60 and DH75 units will be used to replace a redundant stock of 80 dehumidifiers installed at the MOD depot DM Plymouth.



Car storage

RS Williams Ltd of Surrey, one of the leading Aston Martin specialists in the country, has installed a Calorex DH60 wall-mounted dehumidifier to help keep the cars in pristine condition.

Aston Martins from DB4s onwards are serviced, repaired, restored and prepared for the racetrack by RS Williams. Since customers' cars sometimes have to be stored for extended periods, any consequent corrosion caused by moisture in the garage air must be prevented.

The DH60 uses heat pump technology to control air humidity at between 40 and 90% RH (Relative Humidity) as required and can operate efficiently over a temperature range of 5°C-40°C. Air is drawn across a cold refrigerated coil within the DH60 where the water vapour condenses out and is then led away to a waste pipe. Corrosion will be prevented if the air is maintained at or below 50% RH, regardless of the air temperature.

Calorex manufactures dehumidifiers for many other types of application. All products are supported by an in-house applications department and nationwide service network.

DH60

Calorex's high-performance dehumidifiers recirculate the air and physically remove moisture from it. This alleviates the need to continuously reheat incoming air. Not only that, the units cleverly convert energy taken out of the room as moisture to create 'sensible energy' that can be used to heat the room, accelerating the drying process.

Typically, for every unit of energy that a Calorex dehumidifier consumes, it will convert 2.5 times this amount to useable heat. The potential energy savings are huge. In fact, compared to traditional heat and ventilation energy, cost savings of 500% are not unusual.

The units are suitable for a number of applications including:

- Electrical sub-stations
- Libraries
- Basements and cellars
- Car storage and warehouses
- Drying rooms
- Art galleries
- Office buildings

