



Calorex DH30

Wall mounted compact dehumidifiers with air heating options.

Lighthouses

The stunning La Corbiere lighthouse has been keeping ships away from the rocks off the Jersey coastline since 1874 and owes much of its pristine condition to the work of four Calorex dehumidifiers.

Alarmed by peeling paintwork caused by dampness inside the imposing stone



building – Jersey’s Harbour Authority launched a rapid £47,000 refurbishment programme.

John Kelly, engineering services manager, said: “We found all the paint was peeling from the internal walls because it was so dank and humid inside. We ordered Calorex

DH30 wall-hung dehumidifiers to help keep the correct relative humidity.”

“The dehumidifiers were installed and the lighthouse re-painted inside and out. Since this work, seven years ago, the situation has improved radically, the new paint is unaffected by dampness and when you

walk into the lighthouse it feels relatively warm,” says Mr Kelly.

A Calorex dehumidifier is installed on each of the three floors of the lighthouse and a fourth in the room where the compressed air foghorn is stored, to help preserve its condition.

Four additional dehumidifiers are also making life more pleasant for passengers using the underground walkway at Jersey’s Elizabeth Harbour ferry terminal.

Retirement homes

A pair of Calorex dehumidifiers is playing a key role in the drying room of the new Assisted Living Centre in Grimsby, Lincolnshire.

Specialist equipment such as wheelchairs, hoists, walking frames, beds and stair lifts are sterilised and stored within the facility. First passing through an industrial washer before being transferred to a drying room, the Calorex DH30 units remove moisture from the air to speed up the drying process.

Located within the Diana Princess of Wales Hospital, the Centre provides advice for people who require support at home – vitally enabling them to maintain independent living.

“Having previously used a Calorex standalone dehumidifier, we had no hesitations in ordering two wall-mounted units for the drying room at the Assisted Living Centre,” explains Keith Bell, project manager.

“The room is heated by radiators, while the Calorex units maintain the required humidity levels. The dehumidifiers were installed in February and have been working well since.”

Drying rooms

Dehumidification equipment manufactured by Calorex Heat Pumps is playing a vital role for the crew of two lifeboats stationed at the RNLI’s Trearddur Bay on the Isle of Anglesey.

A Calorex DH30 controls the atmosphere in the drying room, ensuring waterproof kit and vital equipment is kept in pristine condition.

Established in the Sixties, the Trearddur Bay lifeboat station has received four awards for gallantry and is kept busy with up to four call-outs every day.

Earlier this year, the station’s Hereford Endeavour lifeboat was officially named by the Duke and Duchess of Cambridge in one of their first official engagements together.



Wet suits, drenched wellies and rain macs are no problem to residents and staff at the Bendrigg Trust Centre, in Kendal, where clothes and equipment are efficiently and cost-effectively dried using Calorex dehumidifiers.

Two Calorex DH30 units play a vital role at the centre, set on the south lakes of the Lake District, where getting wet is pretty much a daily occurrence.



Ferrari garage



DH30

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:

- Drying rooms
- Art galleries
- Car storage
- Aquatic buildings
- Industrial agricultural
- Clothes drying rooms
- Warehousing and storage
- Electrical sub-stations
- Sports clubs and changing rooms

"Traditionally outdoor centres have relied on inefficient giant heat blowing fans for drying clothes and equipment but dehumidifiers and heat pumps have revitalised our industry," says Bendrigg Trust's principal, Trevor Clarke.

Mr Clarke initially invested in a Calorex dehumidifier for a drying room in a residential block. Most recently, he purchased a second Calorex unit for an equipment store that houses specialist equipment, such as waterproofs, buoyancy aids and wet suits that are loaned out and then dried in the drying room.

"We have found that you more than cover the initial outlay of purchasing the dehumidifier with more efficient running costs that are all the better for being environmentally-friendly," enthuses Mr Clarke. "Effectively we get free heat because we do not need any additional heating other than that generated by the dehumidifier."

Car storage

A Calorex DH30 has been installed in a garage building that houses part of a collection of at least a dozen 'super-cars' owned by a private collector in the North East of England. The collection is worth well in excess of £1 million and includes the latest limited edition £550,000 'Enzo' model.

The dehumidifier was specified by Dennis

Gwynne, technical director of the Andrews Sykes Group. "The collector had extended the garages at his home so that he could bring the majority of his Ferraris together under one roof," explains Mr Gwynne. "Although the building is centrally heated, the humidity issue needed to be addressed."

He adds: "Excessive moisture in the air can lead to deterioration of body work and upholstery – even in a heated environment like this one – so it is absolutely vital that a classic collection of this kind is stored in exactly the right conditions." Having surveyed the building, Mr Gwynne specified the Calorex DH30 refrigerant dehumidifier to establish and sustain ideal climate conditions. This wall-mounted cabinet has fully automated operation and offers efficient dehumidification over a temperature range of 0°C to 40°C. At 20°C it is capable of removing 30 litres of water every 24 hours.

"This unit was ideal in capacity and performance for the job and provided the most cost-effective and energy-efficient solution," says Mr Gwynne. An added benefit is that the DH30's ability to recover heat from the moist air, heats the discharged air, thus cutting alternative heating costs.

The DH30 also comes in a through-the-wall (TTW) version, to allow installation in an adjacent space.

