

A Bright Future Ahead

Calorex structure strengthened for future development

Calorex has recently taken the opportunity to streamline its shareholding structure to strengthen the company's plans for the future.

It has been ten years since the Calorex management bought the business with the assistance of two venture capital partners. "These investors were very happy with their investment but had reached the end of their preferred investment cycle time, usually only five to

seven years" explains Calorex managing director, Tony Bowen.

"It was therefore a task for Calorex management to find an investor that could replace this significant shareholding without causing management change, disruption, conflict in the marketplace or loss of focus."

The new shareholders are a consortium of experienced industrialists led by Dr. Tony Mullins, committed to engineering in

a way that fits hand-in-glove with the Calorex philosophy of high quality, high efficiency products, sold through reliable outlets at home and abroad.

The well-known Calorex team remains in place in their current roles. Bob Buck has taken the opportunity to step down from his recent part time role to become a consultant to Calorex that will allow him to be fully available to assist with Calorex's many design projects.

Standing To Attention

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.

For Calorex, the MOD accreditation represents yet another dimension to its already broad range of applications. "As a company, we have complied with detailed criteria to become officially approved and secure the MOD role that represents a significant business opportunity for us," explains Andy Neave, technical sales manager.



Triple Gold

Middle East pool-building team, Belhasa Projects, has celebrated its third consecutive win in the overseas section of the annual SPATA UK Design Awards. The Calorex team were on hand to see Belhasa pick up its latest gold award at the annual award presentations in Brighton for this luxury villa project completed in Dubai.

High-Powered Role For Calorex

Sensitive equipment at the newly refurbished Livishie Power Station, in the Scottish Highlands, is being protected from potentially damaging moisture — thanks to a high capacity Calorex DH300BY dehumidifier that is certainly proving its worth.

The hydro-electric power station, owned by Scottish and Southern Energy, is located in an underground 'cave' cut out of a mountain near Inverness and accessible via a 300 metre long service tunnel.

The dehumidifier was fitted and commissioned by Active Air Conditioning, of Aberdeen, complete



The DH300BY is capable of removing 300 litres of water in a 24-hour period.

with a two-year warranty.

The Calorex DH300BY provides humidity and dew-point control in a wide variety of situations. Typically, it is capable of removing 300 litres of water in a 24-hour period and can play a vital role in protecting machinery and equipment from corrosion.

Did You Know?

The biggest dehumidifying project Calorex has ever provided for is the conversion of an underground mine for wine storage. The unusual warehouse is the equivalent in size to 18 football pitches.

Tight Fit At Devon Pool

Calorex Delta machines provide slim-line solution to plant room refurbishment quandary...



A snug fit but EPS were confident they had a couple of spare inches to squeeze the Calorex Delta 14 unit through the existing door access.

Product Profile

The Delta range offers a complete environmental control system ideal for the smaller commercial indoor pool:

- Heat recovery dehumidifier
- LPHW pool air heater battery
- LPHW pool water calorifier
- Complete pool hall environmental control panel
- Control of pool air temperature & humidity
- Control of pool water temperature
- Heat energy recovered to both pool water & pool air
- Mechanical pool air cooling capacity with energy recovery to pool
- All sensors and controllers in the unit cabinet
- Cabinet fully insulated

Environmental control specialists, Engineered Pool Supplies, discovered size matters when they were called in to tackle a complicated indoor leisure pool plant refurbishment project.

The Torridge District Council pool complex in Bideford, Devon, was built in the late 70's and much of the air handling plant had been out of action for some time.

The EPS team considered removing sections of the roof and craning the plant in.

Not only was this a time-consuming and expensive option it would have resulted in a valuable community asset being out of action for a significant period of time.

A pair of Calorex Delta 14 units was installed offering a total heating capability of nearly 200kw.

"The Calorex units were ideal in terms of size," says John Scott of EPS. "If we were going to install any alternative brand machines of that capacity, they would not

have fitted through the door and we would be forced to contemplate major structural implications.

"The Delta machines recirculate the pool air, removing from it the excess moisture content and reclaiming the latent heat it contains. All the driving energy is added to the reclaimed energy and automatically routed into the pool water and air. A controlled quantity of fresh air is added continuously to maintain the pool air quality.

Pay Back Within Four Years

Investment in a new air to water heat pump heat recovery system will be paid back within four years for operators of the 428-bedroomed luxury Radisson Hotel, in Bangkok.

BTP Thailand, a specialist mechanical and engineering company, has successfully completed the installation of seven AW1534BH units supplied by Calorex.

Previously, the hotel had used an oil-fired boiler system. Now they run on 100% heat pump technology with the boiler only required for back up. The new, energy-efficient system generates free cooling, via a ductwork system, for areas that had

previously suffered with extreme heat problems such as the laundry room, lift control room and the lobby.



The Radisson Hotel in Bangkok has taken delivery of seven Calorex air to water heat pumps.



The AW1534 is one of a range of floor standing heat pumps that extract energy from an air source and upgrade this energy to a useable form of heat that is rejected to a water system. Unlike other water heating systems, a Calorex heat pump is capable of delivering up to five times more energy than it consumes.

Calorex heat pumps are simple to install, require little maintenance and alleviate the need for fuel storage tanks and flues that are normally associated with fossil fuel heating systems.

With lower CO₂ emissions than boilers, heat pump technology is the preferred heating choice of many government bodies and professional associations due to their low impact on the environment.

BTP has represented Calorex in Thailand for more than ten years, carrying out many successful installations as specialist designers, suppliers and installers as well as providing first class service back up.

Did You Know?

Calorex directors Tony Bowen and Richard Carrington clock up an average annual air mileage of 300,000. That's more than the distance from Earth to the far side of the moon!

Restaurant Staff Keep Their Cool

Free hot water for busy Thai restaurant thanks to Calorex

A Thai Restaurant has solved the problem of its sweltering cellar – and gained as much free hot water as it wants – thanks to the installation of an air to water heat pump from Calorex.

Refrigeration equipment was pushing temperatures in the cellar of the Wild Orchid Thai Restaurant, Rochdale, up to sub-tropical levels – much to the discomfort of restaurant staff using the area for washing and ironing table clothes and napkins.

Restaurant owner Graham Pyatt called in Lancashire-based air conditioning experts P & M Coppack to solve the problem – and they recommended a Calorex 250SC air to water heat pump.

“The Calorex 250SC is ideal for this application,” explains P & M Coppack’s Mark Coppack. “It has enabled the restaurant to cool down its cellar dramatically – the by-product of which is as much free hot water as they can use.”

Wild Orchid’s Graham Pyatt agrees: “The temperature in this area could exceed 30° C at times, causing problems for both the staff and equipment. Thanks to the Calorex unit we can keep the area at a constant temperature of around 20° C, improving the efficiency of the staff and the refrigeration equipment.”

And the by-product of all this cooling is 2,400 litres of water, heated to 55° C – absolutely free.

The Calorex 250SC is an energy-efficient unit which combines cooling and domestic hot water production in one compact, wall-mounted unit.



For full details on the Calorex 250SC air to water heater and Calorex’s extensive range of environmental control solutions log on to the Calorex website at www.calorex.com or email sales@calorex.com.



Working conditions have been transformed and costs cut at a Thai restaurant in Rochdale.

“It is ideal for hotel and catering trade environments such as beer cellars and wine or produce storage areas and can also provide localised cooling in commercial kitchens,” says Mark Coppack.

“The unit provides a cooled air stream to the area that requires cooling. The energy it collects is then upgraded through the heat pump cycle and used to preheat a mains hot water supply to the premises,” he explains.

“In situations where domestic hot water usage exceeds 500 litres a day, the savings made in water heating costs mean that the 250SC can pay for itself in less than a year.”

The unit can cool down to 7° C (0° C with defrost) and has a hot water output temperature up to 55° C (with a 70° C option also available). It operates in ambient temperatures up to 35° C (a 52° C option is also available).

Historic Barn Boasts Latest Pool Technology

Young Leisure has just taken the wraps off an outstanding indoor pool and spa they have installed within an existing barn dating back to the late 1800s.



Heating and ventilation is via a Calorex Delta 4 system with underfloor supply and return ducts. Underground areas are also served by a heat recovery matrix and separate air handling systems.

Classic Country Retreats, of Tavistock, Devon, requested a clean look for the makeover, having virtually no equipment visible and with the minimum of external flues and vents that would cause problems with the listed building approvals.

External vents were concealed and made in cast iron, the pool roller was concealed in a bespoke hardwood bench and floor drains were discreetly hidden as was the spa air loop and other equipment.

Did You Know?

One of the quirkiest service calls Calorex has had to deal with involved a visit to the Reptile House at Colchester Zoo where our engineer made doubly sure all the occupants had been safely evacuated before venturing inside!

New Faces Join Calorex Team



Chris Gothard has been appointed as senior technical sales engineer

Chris, 34, has already completed ten years in the refrigeration and air conditioning markets. He will

be based at Calorex headquarters in Maldon but his day-to-day duties will take him all over the country, carrying out site visits for a wide variety of projects as part of the Calorex commitment to provide design and specification advice, free of charge.

Another new face at Calorex –

Martin Takacs joins the team as an export sales engineer. Martin comes from an appropriate background, having been working with a contractor on site for eight years while earning his university degrees. His last position was internal sales engineer at an industrial heater manufacturer. His main tasks at Calorex will include providing assistance to our European distributors, further develop existing markets, discover growth opportunities, and to maintain the smooth flow of information between Calorex and its customers. In his spare-time Martin enjoys travelling, skiing, vintage cars and motorcycles.



In The Fast Lane

A collection of a dozen 'super cars' is sure to remain in pristine condition now that a Calorex DH30 has been installed in the garage building where they are stored.

The collection, owned by a private collector in the North East of England, is worth in excess of £1 million and includes the latest limited edition £459,000 'Enzo' Ferrari model.

The DH30 was specified by Dennis Gwynne, technical director of the Andrews Sykes Group. Andrews Sykes is one of Europe's largest suppliers of humidity and temperature control equipment.



Pristine condition: A wall-mounted dehumidifier from Calorex is helping to protect the Ferrari Enzo.

Dennis specified the Calorex DH30 refrigerant dehumidifier to establish and sustain ideal climate conditions. This wall-hung unit 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.



A leading toffee manufacturer has taken delivery of its third Calorex dehumidifier.

Sticky Situations Averted

A sticky situation has been averted at a newly extended toffee factory in Stoke On Trent.

Quality toffee manufacture Walkers Nonsuch already has two Calorex dehumidifiers within its existing factory, which prevent its toffees from getting too sticky during the production process. Now the company has opted for a third – the Calorex DH300BY – for its factory extension, which has been built specifically for a new product.

All three dehumidifiers have been supplied by air

conditioning wholesaler Ambient Technical Solutions, from Stoke On Trent, and installed by Newcastle-based Butler Refrigeration. Calorex was the 'natural choice' because Walkers Nonsuch were so happy with the existing dehumidifiers at the factory.

Ambient's managing director Kevin Pugh agrees: "We like to get involved with our customers when it comes to selecting and calculating their equipment needs and we have been impressed with the Calorex range and its before and after-sales back-up."

Did You Know?

Calorex is truly an international brand with products sold in all European and Baltic languages as well as Chinese, Arabic and Russian.

Great British Bath Times

More than 100 tons of therapeutic sea salt has been packaged to perfection, ready to enrich bath-times across the UK, with the



help of a desiccant dehumidifier from Calorex.

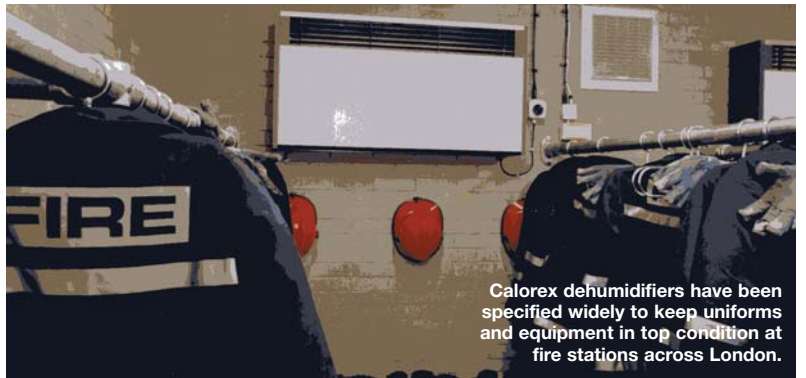
West Sussex-based cosmetics manufacture and packing contractor A E Adams (Henfield) Ltd specified the Calorex

DehuTech 1000 for a refurbished area within its 20,000 sq ft production unit. The refurbishment project included installation of a second line to handle hygroscopic cosmetic products, such as sea salt, and dramatically increases its capacity.

Since the installation, the new facility has already processed more than 100 tons of bath salts on behalf of the country's leading supplier to this specialist market.

Desiccant dehumidifiers are ideal for this environment because they are designed to run continuously and achieve the required low humidity conditions of 30% RH.

Emergency Role For Calorex



Calorex dehumidifiers have been specified widely to keep uniforms and equipment in top condition at fire stations across London.

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 firefighters are trained at the Training Centre with over 100 trainees taking part in wet training several times a week. The Calorex DH60AX dehumidifier 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.

Calorex dehumidifiers have been specified widely at London fire stations.