

COOL-THERM NEWS

the chiller and air conditioning professionals



WELCOME from the MD



Welcome to our latest Newsletter. It's been a busy start to the year for Cool-Therm, with orders for nine Turbomiser chillers being confirmed in the first two weeks.

This encouraging start follows on the heels of another strong year in 2014, with overall group turnover up some 25per cent on the previous year.

It's not just sales of our high performance chillers that are accelerating. Our highly trained service and maintenance engineers have also been in demand, resulting in double digit growth in both England and Wales.

The outlook for the coming year is positive. The big drivers remain the revised F-Gas Regulation, final phase-out of R22, and the continuing drive for improved energy efficiency and resilience.

If you still have equipment running on R22, our strong advice is - take action now. If it fails or suffers a serious leak, you could be left with an expensive emergency. Don't wait until your building or manufacturing plant is in meltdown. We can help by identifying exposed plant and making recommendations to address any problems. Wishing you all a successful year.

Ken Strong

Chiller monitoring and diagnosis via the Cloud opens up new possibilities



Above: Alex Strong checks the performance of a Turbomiser chiller on site. Inset: Remote monitoring screen on PC.

Cool-Therm Ltd is now able to monitor and diagnose chiller performance via the Cloud and GSM, with major potential benefits.

Turbomiser chillers are equipped with specialist communications hardware and software, enabling them to remotely transmit and receive data. The system can connect to a local cellular GSM network, or be accessed via Ethernet.

Connection requires the end user's permission, but once authorisation is given enables engineers to monitor plant performance remotely, and diagnose potential problems prior to – or overcoming the need for – a site visit.

Alex Strong, Cool-Therm's technical director, says: "There are obvious benefits in terms of time saving and reducing carbon emissions by cutting vehicle miles. It enables engineers to remotely check on alarms and make permitted adjustments

to operating parameters without attending site. It also allows us to brief the customer on chiller problems without incurring an engineer site visit charge."

The system is completely secure and can only be activated and accessed with the explicit authorisation of the equipment owner. The system is managed through Geoclima's Web Portal, however Cool-Therm has its own dedicated software enabling direct connection with its chillers in the field for which access has been permitted by end users.

Alex says: "We have only just begun to tap the potential, but there is no doubt it opens up exciting possibilities for new approaches to servicing in the future."

For more details, call 0303 030 0004 or email: enquiries@cooltherm.co.uk



All set for DCW 2015 at ExCel

Cool-Therm will be exhibiting at the forthcoming Data Centre World Exhibition, which takes place at ExCel, London, 11 to 12 March, 2015.

We will be highlighting our high efficiency chillers, now available on low GWP HFO refrigerants, Saifor server racks (pictured left), and fresh air-based cooling solutions. Come and see us or call for a preview of what we can offer. **Call 0303 030 0003.**

NEWS

In brief

New appointments swell Cool-Therm ranks

It has been a busy few months on the recruitment front, with several new faces joining the company.

Joining the Cool-Therm UK team are Lucy O'Grady (credit control), Richard Howell (S3 Maintenance / Install Technician), Jonnie Stratton (S4 Apprentice / Mate), Andrew Hemming (S1 Senior Engineer).

In Wales, new joiners are Phil Jones (S3 Maintenance / Install Technician), and Kane Collins (Apprentice / Mate).

On the promotions front, Richard Creber moves from Senior Service Engineer (Bristol Office) to Service Manager, responsible for coordinating service and maintenance in the South West region.



Our new leaflet on chiller and compressor spares is now available. For a copy, call Andy Cresswell on 0303 030 0004

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IN THE NEWS

ACR News features Cool-Therm on cover



A recent issue of industry magazine ACR News featured Cool-Therm as lead item on its cover. It reported our recent acquisition of AC Air Con Ltd, the specialist supplier of chiller and compressor parts.

The deal enables Cool-Therm to become a one-stop-shop for the supply of parts for all mainstream chillers and compressors.

We will now stock key components for Turbocor-based chillers, including compressors and electrical circuit boards, as well as service spares for all other makes of chillers and compressors, such as Frascold, Dorin, Refcomp and Geoclima.

Cool-Therm delivers Tonon chillers for Swindon hospital project



Cool-Therm has supplied two Tonon R410A chillers for a replacement project at Swindon Hospital.

The project, carried out jointly with Carrillion and Imtec, is Cool-Therm's first application of the Italian-made multi scroll, low temperature industrial chillers in the UK since the company introduced its new Galaxy range of low charge R410A chillers.

The units can operate down to -8deg C, and provide chilled water to the hospital's catering department. The two Tonon machines each deliver 65kW at -7deg C, and replace ageing Blue Box chillers, rated at 50kW at -2deg C.

Alongside the chiller replacement, bespoke low temperature fan coils were installed in the hospital's cold rooms. These take full advantage of the new lower water temperatures, and maintain cold rooms at a lower temperature.

The higher duty chillers were required to enable the hospital to meet recently introduced guidelines, requiring healthcare facilities to operate cold rooms and food preparation areas at lower temperatures than commercial restaurants.

To provide the required resilience, the cool-



ing system is designed with a N+1 complete backup system. The chillers were replaced over two weekends, with commissioning taking place Christmas week, without the site losing chilled water production.

Each of the Tonon chillers is equipped with three high efficiency Sanyo scrolls, replacing the Bristol hermetic reciprocating compressors on the previous chillers.

"It allowed us to increase cooling capacity by around 30per cent without increasing energy consumption," says Cool-Therm director Rob Young. "The system also benefits from a greater capacity turn-down, with much smoother temperature control than possible with the original chillers."

The Tonon machines are extremely quiet and ideal for use in a hospital environment.

Each chiller includes high pressure primary pumps, buffer tank and pressurisation equipment within a compact footprint of 3m x 1.2m.