

Some of what to see at London Hevar

ABB will feature a practical demonstration showing the remarkable energy savings that can be achieved using variable-speed drives (VSDs) in HVAC applications. A fan-based machine has been built to demonstrate the cube-law theory behind the 20 to 70% energy savings that many buildings across London are achieving using VSDs.

The fan machine will keep a balloon at a steady height while it demonstrates the drawbacks of regulating airflow using a mechanical damper with the motor running flat out compared with one using a VSD to regulate flow. The demonstration on the stand is backed up with a practical lecture by ABB's Frank Griffiths, drives consultant engineer, that highlights examples of energy

saving/improvement using existing HVAC infrastructure by applying VSDs.

Experts will be on the stand to discuss all the possible ways of using VSDs in pump and fan applications, as well as the impact of the forthcoming CRC Energy Efficiency Scheme and how drives can help achieve the Government's targets.

Xpelair will feature an extensive range of whole-house ventilation solutions as well as energy-efficient ventilation solutions for commercial, industrial and domestic applications that comply with the latest industry regulations. Steven Mongan, head of marketing, explains, 'The impact of the Building Regulations and an increased emphasis on SAP Appendix Q is pushing the market towards whole-house ventilation.'

The Xplus 2EC (illustrated), for example, is a low-profile unit designed to reduce the projection from the wall or ceiling to 190 mm, compared to the traditional 250 mm. These ventilation units have an extra-long-life and low-energy EC motor that does not compromise on high-performance ventilation. Its radical design gives installers total flexibility to choose the number and direction of the spigots they want. There are six



Flexible whole-house ventilation — Xpelair's Xplus 2EC.



Stokvis plate heat exchangers can be combined with solar thermal energy to produce domestic hot water without the problems associated with storage.

125 mm spigots, and these units can be used in temperatures up to 50°C and have three adjustable fan settings.

Innovations featured by **Stokvis Energy Systems** will include the combination of plate heat exchangers with solar thermal system to produce

a water-heating solution that achieves peak efficiency and avoids potentially hazardous water storage. Stokvis will also show its latest Econoplate heat exchangers and Econoflame gas-fired boilers for commercial and industrial projects.

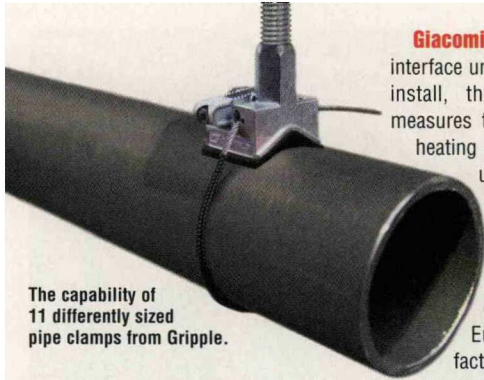
The latest generation of the ultra-efficient **Turbomiser** chiller will make its UK debut on the stand of Klima-Therm and **Cool-Therm**. Turbomiser III uses adiabatic technology to cut a further 20% off energy running costs. The combined effect of the high-efficiency Turbocor compressors, EC fans and liquid pump amplification (LPA) system is less than half the energy consumption of conventional screw and reciprocating chillers.

Adiabatic cooling is achieved by



Adiabatic cooling on the condensing coils of the Turbomiser III chiller can reduce energy consumption by 20%.





The capability of 11 differently sized pipe clamps from Gripple.

passing water over the face of the condensing coils to reduce the ambient temperature in their vicinity by up to 8 K. The system can be set to activate automatically at a pre-determined external temperature. The water used costs about £600 a year to deliver energy savings worth about £8000.

Gripple will show an adjustable pipe clamp that can replace 11 differently sized traditional pipe rings. It is the brainchild of one of the company's industrial sales managers, Frenchman Mathias Perret, who worked for Gripple Europe before transferring to the UK. His innovation was acknowledged with the presentation of the Grinnovate trophy and £500.

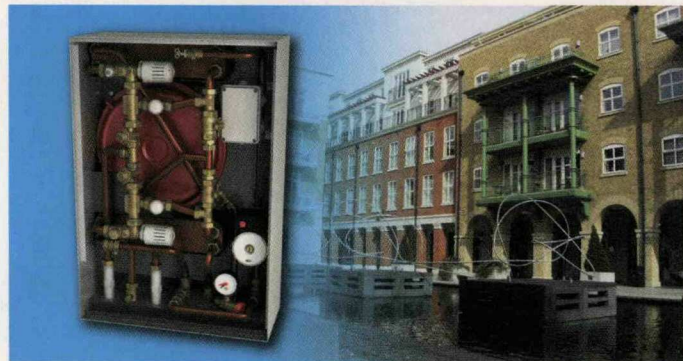
The new clamp (illustrated) can support pipes for hot and cold water, heating and gas. It can withstand temperatures from -40 to +110°C.

Giacomini will highlight its heat interface unit. Compact and simple to install, the GE556 controls and measures the use of hot water and heating in apartments and multi-use dwellings supplied by a communal boiler system.

Giacomini will also show its underfloor heating system. The company is one of Europe's largest manufacturers and one of the few companies to produce every part of the system itself — from the plastic pipe to the brass valves, manifolds and fittings.

Despite the economic situation, **Enwa Water Treatment** has continued to expand in the UK. The recent partnership with Hurlstone Northern Ltd brings together Enwa's expertise and Hurlstone's long-established supply of high-quality, cost-effective equipment to the building-services sector in the north west of England.

Planned cuts in new builds and PFIs have moved the industry's focus towards maximising efficiency and longevity of existing plant and minimising its long-term operating costs. EnwaMatic has proved to be an ideal solution that can be simply and easily retrofitted to achieve these aims. For example, in late 2009, the University of Sheffield integrated these units across 30 buildings as part of a major project being



Effective control of heating from central boiler plant — Giacomini's heat interface unit.

Who's at the show

London Hevar has attracted many key companies in the industry. To register as a visitor, go to www.hevar.co.uk

ABB	Giacomini (UK)	SPX Cooling Technologies
ACR News	Gripple	Stokvis Energy Systems
Airforce Ventilation Products	H & V Index	Systemair Fans & Spares
Big Foot Systems	HVR	Taiga Training
BRE	Invertek Drives	The Grille Shop
Business Edge	IOR	TM Electronics (UK)
CIBSE	IWTM UK	Trox UK
Ciecholewski Wentylacje Sp z.o.o.	Klima-Therm	Tyco Fire Suppression & Building Products/Grinnell
CIPHE	Lochinvar	Mechanical Products
CMR Controls	MHG Heating	Ubbink
Cool-Therm	Miramedia	UK Plumbing Supplies
CWB Controls	Modern Building Services	Viconics
DBC Airtech Systems	Mr Plant Hire Plc	WF Electrical
Delta Controls Inc	Ormandy	Wilo (UK)
Duomo (UK)	Panasonic UK	Xpelair
Dwyer Instruments	Reflex Winkelmann GmbH & Co.KG	Zetacool
ENER-G	Riello	Ziehl-Abegg UK
Energy Products Group	S&S Northern	
ENWA Water Treatment	SFL Flues & Chimneys	
ESTA	Soler & Palau	
Fenner Drives	Spirotech	



HEVAR

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undertaken by Schneider Electric to guarantee reduced energy consumption.

September will see the launch of the plug-and-play Mini and Midi EnwaMatic unit. Small commercial and large domestic operations will soon be able to take advantage of this off-the-shelf version of Enwa's established technology.

Pump manufacturer **Wilo** is once again sponsoring the bar and reception area at London Hevar — an opportunity that has paid dividends for the company in raising awareness of the brand, its



Enwamatic water treatment technology is now available off the shelf for small commercial and large domestic applications.

wide range of products and comprehensive service capability.

Wilo will show its huge range of



Wilco offers a wide range of pumps for building-services applications.

domestic and commercial pumps and pumping systems. Their scope covers heating, air conditioning and refrigeration, water supply, sewage and waste-water pumping and lifting solutions. Sales director Dan Wild says, 'The company has grown significantly in recent years and now offers a very real alternative pump-supply option —one that is recognised across the UK as more and more major companies choose Wilco as their preferred supplier.

Over the last 10 years **Ormandy** has been focusing on the opportunities created by a changing

construction environment, particularly from the increasing demand for complete packaged solutions, fabricated off site, for M&E services. The sales growth achieved to date supports the viability of the original strategic vision, and the development of the company has been complemented by the acquisition of several businesses.

The group of companies produces a complete range of water-heating solutions — from standalone calorifiers, thermal stores for renewable-energy systems, plate heat exchangers, through to complete packaged plant rooms. There are fully skilled manufacturing operations in



The move to offsite fabrication has led to successful business for Ormandy over the last 10 years.

Everything you've ever wanted to know about heat pumps

The Heat Pump Association is running a topical seminar session, describing it as an essential event for buyers and specifiers in the HVACR industry. It will be in the technology theatre on Wednesday 22 September from 10 a.m. until midday and focus on the following topics.

- An introduction to heat pumps, by Calorex.
- The importance of installer training in optimising heat pump performance, by ICS Heat Pumps.
- Do's and don'ts for ground-source heat pumps, by Neoenergy (Sweden).
- Heat emitters including low temperature radiators by Jaga.

- Developments in air-source heat pumps, including process hot water applications, by ICS Heat Pumps.
- An update on MCS and its role in the absence of grants/incentives, by Gemserv.

The session concludes with Tony Bowen, president of the Heat Pump Association, presenting an overview of the current status of grants and incentive programmes such as CERT, CESP and RHI and a final panel debate. Several of these key speakers will also be available for one-to-one roundtable discussions around the subjects listed above.