DIT Project Management & Facilities Management Conferences

Presented by Faculty of the Built Environment

ALSO

Focus on Boilers

Octabuild Merchant of the Year

CIBSE News

Myson Heating Products Factory Visit
Innovation in Pumping Technology

Stainless Steel Vertical and Horizontal multistage pumps for water supply, boosting, sprinkling, irrigation, high pressure wash, fire protection and water treatment (De-mineralisation, Filtering).

- Water supply
- Boosting
- Sprinkling
- Irrigation
- High pressure wash
- Fire protection
- Water treatment
- Boiler Feed
CIF Specialist Contract Document

The recently-announced CIF Specialist Contract Document marks a major development in the trading relationship between main contractors and specialist contractors within the construction industry. Hitherto, the terms and conditions governing the relationship were ambiguous and open to interpretation. Not surprisingly, this led to confusion and misunderstanding.

More than anything else this new CIF Specialist Contract Document is about clarification. It is an actual binding contract document, stating precisely and in a manner which is well-defined and understandable, the terms and conditions to which all parties agree.

Apart from the actual content itself, a key strength is the fact that it is a self-regulating initiative, conceived following agreement between the Master Builders and Contractors Association, and the Alliance of Specialist Contractors Association.

It is in the interest of all specialist contractors to adopt this new Specialist Contract Document immediately and to use it on every project forthwith.

Copies of the Specialist Contract Document are available from the Construction Industry Federation, Construction House, Canal Road, Dublin 6. Tel: 01 - 497 7487.
OCTABUILD AWARDS

Doyles Top Builders Merchant

Doyles of the Shamrock, Carlow recently received the Octabuild Builders Merchants of the Year Award from Noel Dempsey, TD, Minister for the Environment and Local Government at a ceremony in Dublin.

This year marks the 10th awards and the third time Doyles have won the nationwide title. The award was presented for excellence in customer service, merchandising, housekeeping, management, and health and safety.

Octabuild is made up of eight Irish building materials suppliers – Moy Isover; Dulux Paints; Gypsum Industries; Irish Cement; Sanbra Fyffe; Tegral; Evode; and Wavin.

Doyles also won the Leinster Regional Award. The other regional winners were Brooks Hanley, Sligo (Connaught/Ulster); and Stakelums Hardware, Thurles (Munster).

A total of 35 merchants received county and highly-recommended awards at the function at the Royal Hospital Kilmainham, Dublin attended by over 200 representatives from the building and construction industry and the builders merchant trade.

An independent judging panel selected the winners. The panel included representatives from the Irish Home Builders Association and the Irish Hardware Association.
Myson Heating Controls – Forever Inventive

Now in its 29th year in production in Ireland, Myson Heating Controls Ltd of Newcastle West is by far the longest-established heating-related manufacturing company in the country. This is a remarkable achievement by any standards, but all the more so in building services given the volatile nature of the business.

In the face of the cyclical highs and lows of the building industry over the last 30 years, Myson Heating Controls has prospered. It has done so because of its unique mixture of tradition and dynamism. Longevity of service, especially at management level, is complemented by a regular influx of highly-qualified technicians and graduates. This unique combination affords the company stability which in turn provides the secure platform for its more adventurous and forward-looking projects.

There is a tremendous team spirit at Myson Heating Controls which is spearheaded by Managing Director Sean Hanratty, who has been with the company for 23 years. Under his stewardship the company has evolved and developed to the point where it is now conceiving, designing and manufacturing products which are at the cutting-edge of heating technology.

The Myson Heating Controls of today is light years away from the metal-bashing company of almost 30 years ago. The portfolio is constantly changing, driven by a desire to produce quality products with added value, which in turn offer the industry unique, problem-solving, solutions. The success of this policy is evidenced by the significant market shares enjoyed in Ireland and the UK, and the growing penetration in France and Germany.

At times this has called for some serious soul-searching and brave decision-making. It has also meant considerable investment, in both personnel and plant and equipment. Myson Heating Controls has risen to this challenge, taking on local graduates and giving them the responsibility and freedom to express themselves within the confines of specific objectives. The returns have been phenomenal, a typical example being the Myson 2-way which is now regarded as an industry landmark achievement.

Moreover, the process is never allowed to stop. The same urgency is constantly applied to research and development, the focus all the time on pushing the bounds of technology ever further. In the last 18 months alone something like £3 million has been invested in R&D, plant and equipment, with substantial sums also going into the establishment of environmental management systems designed to secure ISO 14001 accreditation.

Against this background Sean Hanratty talks not of achievements but rather future objectives. The focus is firmly on getting the projects at conceptual stage to the marketplace as quickly as possible, and to repeat the process again ... and again .... and again ....
Ideal Clima – High Efficiency from Precision Heating

Precision Heating launched the new Ideal Clima range of high efficiency Logica & MidiLogica 3-Pass cast iron boilers more than a year ago and their success since then is a testament to the quality of the boiler and their popularity among contractors.

The environment has become one of the main issues of today. In response to this Ideal Clima has developed the Logica range of boilers, main features being high efficiency, low nitrogen oxide emissions, easy maintenance and long life.

The boilers have an output range from 20kW to 150kW and a new model later this year, MaxiLogica CE**, will increase the maximum output for the range up to 285kW.

The Logica range is one of the few boiler ranges bearing the CE** mark. This means that the client is guaranteed an efficiency of at least 3% higher than that required for the CE standard. The average useful efficiency at 100% load across the range is 91.4%.

The boiler has a remarkable list of technical features normally only found in large industrial boilers. These include:

- The furnace is slightly oval in shape, larger than prescribed by EN 303-3 European standards, allowing the flame to develop fully, therefore covering a larger surface area of the combustion chamber making sure that the heat exchanger is absorbing its maximum quantity of heat;
- Three high-speed finned flue passes to increase the surface area of the heat exchanger, allowing a greater transfer of heat to the water;
- Due to the high velocity of the flue gases, the smoke remains in the hot furnace for a relatively short time, which significantly reduces the generation of nitrogen oxide (NOx);
- The boiler has two large hinged cast iron doors for left or right hand mounting, enabling easy access to the chamber and flue passes for cleaning;
- The boiler jacket is made of hot painted steel and has a special clip-on system for easy assembly using a limited number of screws. An 80mm thick mineral mattress is used to insulate the boiler, reducing the heat loss from the boiler body;
- The boiler is supplied with an electrical control panel as standard. The panel holds the following: illuminated master switch; control thermostat; safety thermostat with manual reset; and thermometer.

The wiring is designed for connecting single-stage and 2-stage burners and complies with CEM 89/336/EC Directive on low voltage.

Precision Heating also markets the Bentone range of oil and gas burners that are very effective when mounted on the Logica range of boilers.

For assistance in matching the Logica boilers to Bentone burners, or for more information on the Logica range, contact Alan Hogan, Martin Hogan or Liz Browne at Precision Heating. Tel: 01 - 842 8763; Fax: 01 - 842 8820.

Sime 'Cast to Last'

Hevac Ltd, Sime's agent in Ireland, has been selling quality cast iron boilers into the Irish market for almost 25 years, many of the original boilers installed being still in operation today. The Sime cast iron boiler has proven over many years to represent exceptional value for money. Such is Hevac's confidence in the quality and reliability of the Sime boiler that it offers a 12-year "Cast to Last" guarantee.

Outputs available go from 60,000 Btu to 600,000 Btu.

Why cast iron? - No material has ever exceeded cast iron when it is a question of long life in central heating boilers. Cast iron effectively resists corrosion and provides a more efficient heat transfer surface. It is a well known fact that cast iron boilers can last infinitely longer than boilers manufactured in other materials. This is especially true for boilers working at low temperatures.

Hevac recently introduced aesthetic and functional improvements on the Sime range, such as a new design on the control panel; 100mm insulation thickness; hinged burner mounting door (1R & 2R series); and a hydrometer.

Hevac's considerable success with Sime boilers is based on a simple strategy of providing quality products complemented by an equally quality-conscious service support structure comprising ex-stock availability across the range and over £100,000 worth of spare parts which are available off the shelf.

Contact: Karl Daly, Hevac Ltd. Tel: 01 - 830 1211.
Number One in Central Heating
**Vokèra – High Performance, Low Emissions**

Vokèra specialises in domestic gas heating, in particular system, combi and energy-saving condensing boilers. Over the years it has gained considerable market share in Ireland, its decision to open a purpose-built 8,600 sq ft facility in Callan, Co Kilkenny last year bearing testament to this fact. Moreover, it also clearly demonstrates its commitment to servicing the Irish market in the future.

The core elements in Vokèra's package are quality products, high customer service levels, and installer training. New and innovative products are constantly being developed and introduced to the marketplace. The latest introductions include the Linea Plus and the Mynute. Details of both are as follows:

**Vokèra Linea Plus**

Vokèra's Linea Plus is a combi which combines the latest high-spec domestic heating technology with stylish design and up to 82% efficient at all times", says Paddy Scriven, Vokèra's General Manager in Ireland, “while emission levels of the Linea Plus can be as low as 20ppm CO and 10ppm NOx”.

Other features include – a hot water pre-heat cycle for instant delivery; an advanced flame control cycle device to prevent wasteful firing; and an electronic ignition.

To ensure easy installation and servicing, the wall-mounted, fanned flue Linea Plus features a built-in filling loop which means installers do not need to buy it as an extra part. The combi also incorporates a pre-fixing jib, so that installation work can be done without actually mounting the appliance until the property is secure. A design feature of the Linea Plus is the allowance for pipe space within the casing for easy top connection, and, for further installer convenience, gas and water pressures are pre-set in production.

Full TRV systems can be fitted without the need for an external by-pass, and a digital display shows reference numbers for easy fault diagnosis during servicing. Vokèra's versatile flueing system enables installers to fit the combi practically anywhere in the home. Dimensions are 820mm in height; 500mm in width; and 355mm in depth.

**Vokèra’s Mynute**

The Mynute system boiler range from Vokèra offers complete flexibility. The four models provide an output range from 8kW (20,472 Btu/h) to 28kW (95,563 Btu/h), so there is a model to suit most house types. With the simple addition of an indirect vented or unvented cylinder and "Y" or "S" plan controls, the Mynute can provide ample stored domestic hot water along with central heating.

As the name implies, the Mynute is compact in design compared to most traditional wall-hung boilers. However, the big advantage of the Mynute is that the associated components needed for a traditional system are contained within the boiler case. For example, the pump – which is normally installed somewhere remote to the boiler – is built in, as is the expansion vessel which takes the place of the feed/expansion tank.

Further features include the safety valve, automatic air vent and even the time clock if required. With all major components built in, installation time is significantly reduced, along with the materials required - ie pipework and fittings - resulting in a substantial cost saving. Servicing and maintenance are also simplified with all the system's "working" components contained within the boiler.

To further aid servicing and maintenance, the component layout of the Mynute has been meticulously planned to offer complete ease of access. Also, there is a wide range of flueing options and accessories that allow...
The Vokera Mynute.

For a small boiler, the Vokera Mynute has some big advantages.

Because it’s a system boiler with all the components in one case, there’s no need to go to the trouble of installing expansion tanks, separate pumps and all the necessary pipework.

The circulating pump, safety valve, by-pass, automatic air vent and expansion vessel are all built in - meaning installation time is not wasted assembling separate components.

Designed for sealed systems, filled from either a direct mains connection or a tank, the Mynute is available in a wide range of outputs - from 6 to 28kW (20,472 to 95,536 Btu).

Add an unrivalled back up service and customer support, delivered by Vokera’s own team of directly employed engineers, and it’s easy to see why the Mynute is making it big.

For more information about the Mynute range, send the coupon or call Vokera Ireland sales department on 056 55055.
PRODUCT REVIEW: BOILERS

Potterton Range of Domestic Boilers

Potterton Myson has always been an industry leader when it comes to producing top quality boilers. Through a combination of innovative design, excellent engineering and rigorous quality control, it provides customers with the most effective and efficient boilers on the market.

With an extensive range to choose from, Potterton Myson has a domestic boiler to suit every home size and system requirement. Here are some of the most popular models:

- **Wall hung cast iron boilers – The Suprima**
  - Since its launch in 1996, the Suprima has become Potterton Myson’s best-selling natural gas boiler. Its phenomenal success is largely due to the following features:
    - It is the smallest, most compact boiler on the market, fitting comfortably in the kitchen cupboard or under a work surface;
    - A broad range of outputs are available – from 30,000 Btu/h to 100,000 Btu/h;
    - It is very light, weighing only 20-35kg, depending on the model;
    - The Suprima is easy to install, partially due to the range of flue options which offer additional flexibility when fitting the boiler;
    - It features a top-mounted telescopic flue turrett which can be rotated to 360°.

- **Potterton Myson’s Suprima**
Two Respected Names —
One Reliable Source.

Be sure to choose **Tubs & Tiles** and **Heatmerchants** for your entire tile, bathroom, wood flooring, heating and plumbing supplies.

As both are open nationwide, you don't have to travel far to experience exceptional quality and service for yourself!!

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**Keston Condensing Boiler - The Automatic Choice**

**Keston Wall Mounted Condensing Boilers**
50,000, 60,000, 80,000 and 170,000 Btu/hr models

- 96% efficient – up to 35% energy savings
- Cheaper and easier to install – flueing is standard MuPVC 40mm kitchen waste pipe
- Flueing versatility – can be flued vertically or horizontally up to 15 meters
- Simple design/easy maintenance
- Environmentally sound – Ultra Low Nox emissions of less than 5 p.p.m.
- Total reliability and customer support
- Five Year Guarantee on heat exchanger
- Domestic and commercial applications
- CE Certified

**Keston HEATING PRODUCTS LTD**
Unit 6B, Cookstown Business Centre, Tallaght, Dublin 24.
Tel: 01 - 451 7022; Fax: 01 - 451 7613.

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*Published by ARROW@DIT, 1999*
PRODUCT REVIEW: BOILERS

Keston – Ultra Efficient, Cost-Effective & Environment Friendly

The Keston is a revolutionary boiler concept covered by world patents. The design provides high efficiency, with a single pass heat exchanger, and clean combustion without the complications of other condensing boilers. Air is drawn into the unit via a 40mm* plastic pipe and an in-built filter. A measured amount of gas is injected into the air stream and the mixture is passed through a highly-turbulent blower. This blower forces the

- A built-in electronic programmer option for greater ease of operation;
- Availability of a built-in motorised mid-position valve for even greater siting convenience.

In addition to the above products, Potterton Myson also manufactures gas combination boilers (the Puma), gas back boilers with a choice of fire fronts, a floor standing range, and a range of wall hung gravity boilers (The Profile). All products complement the extensive range of radiators, valves, pumps and controls available ex-stock in its Belgard Road Warehouse.

Contact: Suzanne Shanley, Potterton Myson (fri) Ltd. Tel: 01 - 459 0870.

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Potterton Myson's Statesman

Condensing Boilers – The Envoy

The Envoy is a wall-hung boiler that combines the latest in condensing technology with flexibility and ease of installation. Having gained considerable market share since its launch, it boasts the following features:
- It is a “Super Efficiency” boiler setting the pace by delivering up to 96% efficiency – this effectively cuts heating bills by up to 30%.
- Measuring only 520mm high, 450mm wide and 300mm deep, it can easily fit in with existing kitchen units;
- Outputs range from 30,000 to 80,000 Btu/h;
- The Envoy burns far less fuel than conventional boilers, thereby producing less noxious emissions into the environment;
- It comes with a range of flues making it easy to install anywhere.

Oil boilers – The Statesman

Potterton’s Statesman range is a range of domestic indoor oil boilers. Combining modern design with ease of installation, the Statesman is compact enough to fit into most kitchens layouts. Some of its principle features are as follows:
- It can achieve efficiency levels of up to 93%;
- It incorporates the tried and tested Riello burner;
- Outputs range from 45,000 Btu/h to 110,000 Btu/h;
- Its unique cylindrical, telescopic balanced flue system provides a number of options to match each installation situation.

Natural Gas System boilers – The Ultra

The Ultra is a range of natural gas wall hung, fanned flue system boilers, for heating and hot water systems. Some of its main features include:
- A broad range of outputs – from 30,000 Btu/h to 80,000 Btu/h;
- A choice of vertical and horizontal fluing options for flexible boiler siting;
COMMERCIAL AND INDUSTRIAL HEATING EQUIPMENT
mixture of gas and air into a patented micro-mesh burner which burns with a tight blue flame, after being ignited by a spark electrode. There is no pilot or thermocouple in the appliance. The hot combustion gases pass down the centre being ignited by a spark electrode. There is no pilot a patented micro-mesh appliance.

Above the return water a patented single-pass heat coil the temperature is reduced to around 5°C from the base of the water tube carrying the central mixture of gas and air into where they are discharged to the atmosphere. The hot combustion gases emerge from the base of the water coil the temperature is reduced to around 5°C above the return water temperature. The cooled gases are then forced out of the heat exchanger into the 40mm* plastic pipe where they are discharged to the atmosphere.

The Keston incorporates a patented single-pass heat exchanger, providing high-efficiency without the normal complex double heat exchanger system of other condensing boilers. Its compact construction of high grade super alloy stainless steel ensures long life and carries a guarantee against leakage.

Because Keston boilers are room sealed and have a unique and versatile flue/air intake system, the boiler can be situated practically anywhere, and in the most convenient position. The flue/air intake is small diameter standard muPVC plastic kitchen wastepipe measuring just 40mm (1 1/2") for the domestic range which can be extended up to 10 metres in length, and 50mm (2") for the Keston 130 and Keston 170 commercial models which can be extended up to 15 metres in length from the appliance.

With Keston boilers installation costs and valuable space can be saved, as well as saving labour, money on fuel bills, and the environment.

Keston boilers are suitable for connection to open-vented or sealed systems. The system must be pumped central heating or pumped central heating with combined indirect domestic hot water. Gravity circuits cannot be used.

Contact: Frank Forde, Keston Heating Products. Tel: 01 - 462 1753.
* 50mm for the Keston 130 and Keston 170.

Heatslave Combi Balances the Options

Worcester Heat Systems has added a new model to its Heatslave oil fired combi range. The new room-sealed, balanced-flue, boilers join the existing conventional and open-flue options and use the same flue ducting. All models draw air for the burner from outside the room and expel the waste gases through the same concentric ducting.

The flue design enables boilers to be installed below the standard kitchen worktop height, and also ensures exceptional quietness in operation, together with high levels of efficiency. Being fully room sealed, the Heatslave RS is particularly flexible and can be sited virtually anywhere in the house.

Like the other Heatslave Combi's, the new RS version incorporates an advanced heat exchanger design to provide full central heating and hot water on demand for the highest operating efficiency. It complies fully with the forthcoming boiler efficiency directive and is OFSA 100 Oftec certificated.

Heatslave Combi comes in three different output ratings - 12/14kW, 15/19kW and 20/25kW - and can be supplied with an optional plug-in electronic programmer if required.

Already an extensive and well proven range, Heatslave provides additional options with the introduction of the new RS room-sealed, balanced-flue models.

Contact: Justin Sheehan, Heatvent
Tel: 01 - 450 8166;
Vincent Kavanagh, Worcester Bosch Tel: 087 - 243 7904.

Above: The new RS room sealed balanced flue boiler from Worcester Bosch is the latest to be added to its Heatslave oil fired Combi range

Heatmerchants - for Baxi, Biasi and Firebird

Heatmerchants have been the leading suppliers of heating and plumbing equipment in Ireland for the last 21 years and now have a chain of outlets nationwide. Their success has largely been due to their commitment to continuous improvement in the products they sell, and the service they provide to those in the trade.

When it comes to boilers, Heatmerchants have the range plumbers and domestic customers require. One can choose from gas and oil boilers in a variety of sizes and outputs at value-for-money prices. Purchasing and seeking out leading technology will ensure they remain at the top of this industry. For example two of their major exclusive suppliers include UK-based Baxi and Italian company Biasi, who are internationally renowned for the excellence of their products. Irish manufacturer Firebird's products are also sold by Heatmerchants branches nationwide.

There are outlets in the following locations:- Athlone; Cork (2); Dublin; Kilkenny; Limerick; Navan; Sligo; Waterford.

Brief details of the products from each of the boiler manufacturers represented by Heatmerchants are as follows:
A range of highly efficient cast iron boilers bearing the CE (**) and for firing on Natural Gas, LPG or gas oil.

The boilers are of a 3-pass design which give the boiler range an average efficiency of 91.4% N.C.V.

Logica & Midilogica boilers are equipped with a control panel featuring an exclusive aesthetically pleasing design. The boiler jacket is made of hot painted metal and has a special clip-on system for easy assembly using a limited number of screws.

The main features of this boiler range are high efficiency, low nitrogen oxide (NOx) emissions, easy maintenance and long life. With an output range of 20kW to 150kW these boilers offer the perfect solution for all domestic and commercial boiler installations.
Baxi gas central heating boilers from Heatmerchants

Baxi Boiler

The Baxi partnership has agreed to acquire the assets of Italian heating company Ocean Idroclima SpA for a consideration of approximately £80 million. Baxi is one of the UK's leading manufacturers of gas central heating boilers with a turnover in excess of £100 million. Ocean manufactures gas fired boilers, radiators, electric water heaters and bathtubs in two factories in Italy. Combining the businesses of Baxi and Ocean will create a business with a turnover approaching £200 million and Baxi will become the fourth largest boiler manufacturer in Europe.

Brian Gray, Chief Executive of Baxi, said: "This is an excellent opportunity for Baxi. The deal gives us a much stronger geographical position and a wider range of products. It also represents a new and exciting opportunity for Heatmerchants as it will lead to a greater range of system boilers, combination boilers and gas fires being made available through them in Ireland."

Baxi Heating is one of the UK's leading manufacturers of domestic heating appliances. It dominates the gas back boiler market (seven out of ten back boilers sold bear the Baxi Bermuda name) and the convector market (the Baxi Brazilia range is the dominant product in the gas wall heater sector).

In the traditional cast iron boiler market, the Baxi Solo wall-mounted and Boston floor-standing central heating boilers are established as firm favourites with installers.

In recent years Baxi has expanded its central heating boiler range to include combination boilers which now account for almost half of all gas boilers sold. The high specification Baxi Bahama 100 has made a major impact in its sector with its value-for-money price platform and ease of installation.

In 1998 Baxi entered the condensing boiler market for the first time with a unique new environment-friendly product called the Barcelona. Last year also saw Baxi Heating expand its gas fire range with a new range of stoves.

Biasi B30

Biasi's B30 boilers meet the market demand for cast iron boilers with gas or fuel oil burners for small to medium heating requirements where it is important to reduce energy consumption and safeguard the environment. B30 boilers comprise a cast-iron unit with three smoke turns and totally wet furnace. B30 boilers can function with forced air burners that burn gas or fuel oil.

B30 boilers have the following advantages:
- A boiler body with a low temperature and frontal inspection;
- High efficiency;
- Quality certification of their production process;
- All B30 boiler bodies incorporate Biasi's five decades of casting experience.

The advantages of cast iron can be summed up as follows:
- Excellent durability;
- Exceptional heat transmission;
- Resistance to condensation which means that the boiler body can function at low temperatures;
- GG20 cast iron is used and the element has been designed to prevent the creation of dangerous internal stresses;

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The new RS room-sealed balanced-flue boiler from Worcester Bosch is the latest to be added to their Heatslave oil fired Combi range.

**Heatslave Combi**
- Outstanding fuel economy
- High efficiency boiler and heat exchanger
- Optional built-in 7-day electronic programmer
- Instant hot water on tap

**Utility Range**
- 3 Models
- 50,000-110,000 Btu/Hr
- Supplied for boilerhouse/utility room
- Variety of flueing options - low level/conventional flue

**Danesmoor**
- Compact design
- High performance burners and heat exchangers
- Choice of CF and RS models
- Optional 7-day electronic programmer
- Quiet operation
- Variety of flueing options
- Sealed system boilers also available

**Distributed by:**
HEATOVENT
Heatoveant House, Greenhills Road, Dublin 12.
Tel: 01 - 450 8166; Fax: 01 - 450 8501.

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**PRODUCT REVIEW: BOILERS**

**Worcester Bosch**

- The new RS room-sealed balanced-flue boiler.
- Outstanding fuel economy.
- High efficiency boiler and heat exchanger.
- Optional built-in 7-day electronic programmer.
- Instant hot water on tap.

**Firebird Boilers**

- Outstanding fuel economy.
- Quality Certification of the production process.
- The production cycle includes:
  - Quality control of cast iron characteristics for every casting;
  - Thickness test;
  - Hydraulic testing of each element at 10 bar;
  - Hydraulic testing of the assembled unit at 6 bar.

**Galvanised steel with special adjustable insulated flue outlet.** This is an instant solution to time-wasting boiler house construction, as no waiting is necessary while separate boiler house is built.

**Contact your local Heatmerchants branch for literature and the latest product news.**
Having been with the family business since he was 18 years of age, Dave Sampson took the opportunity just before Christmas to make the break and set up on his own. He had the nucleus of the EnergyWatch concept in his mind for a number of years and felt the time was right to test the theory and strike out on his own.

What does Energy Watch do?
EnergyWatch provides a simple, but detailed, picture of energy use in a particular situation, depicting:
- Energy consumption
- Areas of energy effectiveness
- Areas of wasted energy
- Comfort levels for staff and clients
- How to improve energy efficiency
- Training in energy management

EnergyWatch will achieve this through calling to your premises and carrying out a thorough EnergyAudit. The EnergyAudit consists of an area by area, zone by zone assessment – detailing every aspect of energy in terms of waste and efficiency.

Upon completion of the EnergyAudit, EnergyWatch will present the client with a report providing a realistic picture in all areas of energy consumption, supported by some practical proposals as to how energy costs can be minimised while maximising energy efficiency.

Maximise Energy Efficiency
“At EnergyWatch”, says Dave, “we believe that your business can make real savings in relation to the cost of energy. Our experience to date has shown how businesses have maximised their energy efficiency through the effective application of our assessment. Experience has also shown that the cost of our services can be easily recouped through the implementation of our suggestions.

Applications
The Hotel Industry
Guest Houses
The Catering Industry
Nursing Homes
Educational Establishments
Offices
Retail Outlets
Warehousing
Large Residences
Galleries
Clubs
Public Houses
Religious Buildings
Clinics

Contact: David Sampson.
Tel: 01 - 853 1255;
Fax: 01 - 853 1376;
email: energywatch@tinet.ie
Project Management for the Built Environment and Adding Value to Facilities Management Through Benchmarking are the first in a series of construction-related seminars being organised by the Faculty of the Built Environment, DIT. Project Management and Facilities Management are fast-becoming stand-alone disciplines but, while many are now familiar with the terms, the level of understanding throughout the industry at large as to what they each entail leaves something to be desired.

The Faculty of the Built Environment, DIT, aims to redress this situation. Faculty Director John Ratcliffe has devised a special programme of events to help clients and industry professionals better understand the emerging role of the Project Manager and the Facilities Manager. Part of this programme is the inclusion of an MBA degree course in Project Management and in Facilities Management in the Faculty’s syllabus for the next academic year.

To introduce this new development — and to create a better understanding of what Project Management and Facilities Management is all about — John Ratcliffe and his colleagues have organised two separate conferences which will take place at the DIT in May.

The Facilities Management Conference will take place on Wednesday, 12 May 1999 and the Project Management Conference on Wednesday, 26 May 1999.

The speaker line-up for both is exceptional, bringing together a panel of the world’s leading experts in each of the relevant fields. Included are representatives from the main project management and facilities management organisations such as the Project Management Institute (PMI), the Association of Project Managers (APM), EuroFM, and leading members of the Facilities Management industry.

For full programme details on both conferences — and to secure places — complete the booking form right and return as directed.

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**CONFERENCE BOOKING FORM**

Conference Fee
IR£195 per delegate (+VAT @ 21%)
Groups of 5+ IR£175 per delegate (+VAT @ 21%)

**Please check which conference you wish to attend**
☐ Project Management for the Built Environment
☐ Adding Value to Facilities Management through Benchmarking

Please reserve number of places

Fee enclosed: IR£

Cheques payable to: Expo Exhibitions Ltd

Credit Card bookings also accepted

Return to:
Sorcha Donohoe
Expo Exhibitions Ltd
8/9 Sandyford Office Park
Sandyford
Dublin 18

First Name

Surname

Position

Organisation

Address

Tel Fax
**Air Heaters**

The Mark GS gas-fired suspended air heater is an all-round product. Its wide industrial usage makes it one of the top products within the Mark range, its excellent price/performance ratio makes the Mark Gas air heater above all a European product. It is exported to more than fifteen countries. Available in suspended balanced flue room sealed or conventional flue type 18 to 98 kW.

**Ecofan**

Winter units which on the one hand ensure a temperature gradient which is as low as possible and on the other hand are promptly able to extract. (summer/winter unit) should working conditions make this necessary.

**Tanner**

The Mark Tanner is an indirect water, steam or thermal oil fueled air heater. Its design and the use of first class components makes it a popular product with a big future. Many accessories complete the Tanner range such as fresh air or recirculation components as optional. Low pressure hot water unit air heaters from 8 to 126 kW.

**Califlo**

The Mark Califlo make up air heater is a solution in all situations in which large quantities of (polluted) air are extracted, which is the case in spraying rooms, welding halls, machine factories and the plastics industry. The fully modulating burner makes an optimum balance of required heat and ventilation possible.

**Föhn**

The Mark Föhn has been a unique product for years. Its fully dismountable construction means that the Mark Föhn can be installed in situations in which ready-assembled products cannot be installed. Combined with its superior performance, this makes the Föhn widely applicable. Thus the Föhn is often installed in commercial and industrial halls, government buildings and churches. Oil or gas-fired high output cabinet air heaters 50-400 kW.

**Infra**

As a black tube radiator, the Mark Infra 13-38 can be installed for space as well as local heating. It emits energy in the form of radiant heat which has the advantage of ensuring a pleasant, comfortable surrounding temperature. Suspended radiant tube heaters 13-38kW output. Conventional or balanced flue models.
CIBSE NEWS

Student Awards
The CIBSE Student Awards took place at the Dublin Institute of Technology, Bolton Street recently. In addition to the Executive offices from the CIBSE Republic of Irish Branch, CIBSE President, Ronnie Kirwood, was also present. BSNews was there to record the award winners on camera as they received their presentations. Unfortunately, Trevor Geraghty – who secured third place in the Diploma Awards for his paper on Wave Power – was unable to attend.

Diploma Award – 1st place: Gavin Power with Jim Curley, Chairman, CIBSE Republic of Ireland Branch and Ronnie Kirwood, CIBSE President.

Diploma Award – 2nd place: Howard Neville with Jim Curley, Chairman, CIBSE Republic of Ireland Branch and Ronnie Kirwood, CIBSE President.

Degree Award – 1st place: Keith Lynch with Jim Curley, Chairman, CIBSE Republic of Ireland Branch and Ronnie Kirwood, CIBSE President.

Degree Award – 2nd place: Ruth Kelly with Ronnie Kirwood, CIBSE President.

Degree Award – 3rd place: Damien Spillane with Ronnie Kirwood, CIBSE President.

Building Services at Hewlett Packard
Francis McNulty and David Corrigan were project managers for BeMRA and MEP systems for Hewlett Packard, from design team appointment right through to completion on site.

This talk gave an insight into the design of the mechanical, electrical, sprinkler and process installations, including some of the difficulties encountered during the design and construction process.

A visit to the Hewlett Packard site took place on the following Saturday.

BSNews was there to record the award winners on camera as they received their presentations. Unfortunately, Trevor Geraghty – who secured third place in the Diploma Awards for his paper on Wave Power – was unable to attend.

Jim Curley, CIBSE Chairman pictured with Francis McNulty and David Corrigan, prior to their Hewlett Packard presentation.
While the name H & M Engineering is not, as yet, widely known throughout the building services industry, that of its two directors — Noel May and Colin Huggett — needs no introduction. Both are highly-regarded in the refrigeration sector where they are the acknowledged industry leaders in devising, designing and implementing tailored systems solutions for industrial refrigeration, process cooling and air conditioning. That extensive experience is now also being brought to bear in the heating and water treatment sectors.

H & M Engineering provides an all-embracing package. While essentially engineering products suppliers, these products are supplied against a background which considers the end-use application. Where appropriate and/or required, everything from system analysis through to design, product supply, and also advice is available on installation and commissioning.

To this end H & M Engineering is a highly-computerised operation making extensive use of auto CAD and even auto CAD light when on site visits.

The actual installation and commissioning is carried out by a nationwide network of appointed service engineers with H & M Engineering acting as the project managers.

Nonetheless, H & M Engineering is first and foremost a supplier of products and equipment. Spares are available from the company’s Clondalkin premises, which is situated close to the M50, thereby providing easy access for all of Dublin, and the primary routes to the rest of the country.

Given the quality emphasis of the product portfolio and the support services provided, H & M Engineering represents only brand-leading names in each of the industry categories served. Brief details of these — and the applications catered for — are as follows, with selected examples illustrated right:-

**GRASSO (GEA COMPANY)**
- Screw & piston compressors and packs
- Ammonia liquid chillers
- Automatic air purgers
- Kuba air coolers
- Spare parts

**WATERWISE**
- Filtex Ozone water treatment products
- Water softeners
- Corrosion inhibitors

**DUNHAM BUSH**
- Cooling Products
  - Air & water cooled screw & piston chillers
  - Components – chiller barrels, vessels etc
  - Spare parts
- Heating Products
  - Gas-fired heaters
  - Radiant heating
  - Fan convectors
  - Perimeter heating, etc

**MULTISOL**
- Refrigeration oils
- Heat transfer fluids

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H & M ENGINEERING LTD,
Unit 1, The Ford Centre, Monastery Road, Clondalkin, Dublin 22.
Tel: 01 - 459 1470/71; Fax: 01 - 459 1475; eMail: hmeng@iol.ie
Colin Huggett: 086 - 2246309; Noel May: 086 - 8112482

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**GRASSO AMMONIA CHILLER PACKS**

Grasso, one of the world's leading manufacturers of refrigeration compressors and components, offers a wide range of factory-assembled, ready-to-operate liquid chillers, all of which are equipped with Grasso screw compressors. Comprising complete refrigeration systems, the range caters for the medium/large refrigeration and AC market, with capacities between 200 and 3300 kW (57 to 939 tons).

Available in water-cooled or air-cooled versions, or with evaporative condensers, all models are equipped with a standard modular PLC SIMATIC S5-95U controller.

Worldwide legislation will prohibit the future use of products and refrigerants containing CFCs. However, ammonia (NH₃), one of the oldest industrially-used refrigerants, has the benefit of being environmentally neutral. Grasso NH₃ liquid chillers are designed specifically for the refrigerant ammonia.

**REFLO 68A AMMONIA COMPRESSOR LUBRICANT**

Reflo 68A is an ammonia refrigeration compressor lubricant that significantly outperforms conventional refrigerant oils. Most important, Reflo 68A cuts oil carryover by up to 80% and offers long service life, reduced maintenance costs, less bearing wear and safer operation.

Reflo 68A is an exclusive blend of Petro-Canada's exceptionally pure HydroTreated base oils and specially selected oxidation and corrosion inhibitors.

**DUNHAM-BUSH PACKAGED CHILLERS**

Dunham-Bush is a multinational organisation with worldwide manufacturing plants. It specialises in the heating, ventilation and air conditioning industry, with extensive cooling and heating product ranges.

The ACD "Modulair" air cooled packaged chiller series is a typical example of the innovative nature of the entire portfolio.

The modular construction of the Modulair Series makes all models suitable for most cooling applications. Available with a nominal capacity range of 80 kW to 950 kW, with single or dual circuit configuration, the Modulair Series comprises three ranges, each available in three versions.

Modulair chillers are fully piped, wired, charged and tested for use with the latest ozone-friendly refrigerants. The only steps required to install and commission a machine are the connection of two flanged pipe spigots, one 3-phase and earth power cable (no neutral), chilled liquid pump and flow switch signal wiring, and possibly a telephone line to permit remote monitoring.

**WATERWISE WATER TREATMENT USING OZONE**

Filtex packaged cooling water systems from Waterwise use ozone which is a high-energy form of oxygen and the most efficient broad-spectrum microbial control agent available. Correctly applied, it destroys all bacteria, viruses and cysts, including Legionella.

Ozone is produced electronically in an ozone generator under vacuum conditions. It is drawn into a stream of cooling water using a venturi injector, producing a powerful biocidal effect.

Acting as a biocide throughout the cooling system, it destroys bacteria, algae and viruses, both in the water and attached to the pipework and cooling tower.

Complete packaged systems are offered incorporating sidestream filtration, conductivity bleed-off control, and corrosion protection.
3D Air Sales Establish Irish Office in Dublin

3D Air Sales – who own the distribution rights for Mitsubishi Heavy Industries in Ireland and the UK – have established a wholly-owned Irish subsidiary called 3D Air Sales (Ireland) Ltd.

Michael Clancy is Director of the new operation and he is currently in the process of appointing a nationwide dealer network. Interviews are also taking place with a view to appointing a Technical Support Manager.

The new company will operate from premises located at Unit 21, Western Industrial Estate, Naas Road, Dublin 12.

Michael Clancy told BSNews as we went to press that the new business is now fully operational and offering ex-stock availability of Mitsubishi Heavy Industries unitary range. There are also plans to increase the scope of the product portfolio over the coming months.

Contact: Michael Clancy, 3D Air Sales (Ireland).
Tel: 01 - 450 9433.

CIF & RIAI Endorse Plan Expo

Ireland’s construction industry showcase, Plan Expo, has been formally endorsed by the CIF and the RIAI and will now be presented in association with both bodies. This is a very significant development and comes against a background where the construction sector is worth in the region of £9.7 billion, employs 140,000 people directly, and a further 50,000 indirectly.

New products, innovative ideas and forward-looking designs feature prominently at every show, with Plan Expo being part of the dynamic, trend-setting process, rather than merely reflecting it.

“Plan Expo’s unique formula – which includes product presentations, skills demonstrations, conferences, seminars and awards schemes – does the construction industry proud and the Construction Industry Federation is very pleased to be associated with the forthcoming event”, says Liam Kelleher, CIF Director General.

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Baxi Expansion

Baxi has announced an agreement to acquire the assets of Italian heating company Ocean Idroclima S.p.A. for a consideration of approximately STG£80 million.

Baxi has a turnover in excess of STG£100 million and the acquisition of Ocean – a pan-European supplier of heating products – will result in a combined business with a turnover approaching STG£200 million. By acquiring the company, currently a wholly-owned subsidiary of privately-owned Italian Group, EL.FI, Baxi will become the fourth largest boiler manufacturer in Europe.

Heiton Holdings plc has acquired Gillespie Building Supplies (Carlow) Ltd, which trades as Mr B Building Supplies from premises on Kernessontown Industrial Estate in Carlow.

Mr B Builders Suppliers, established in 1997, is a subsidiary of RN Gillespie Ltd. The business has a strong reputation in the South East, particularly in the Carlow and Kilknenny areas.

Under the terms of the agreement, Heitons will initially acquire the entire issued share capital of Mr B Building Supplies. Heitons, under the terms of a separate agreement, will also acquire the adjoining property in order to cater for an expanded product range.

The overall investment in the business and facilities will be approximately IRE£1.3 million.

Contact: Garret Buckley/Stephan Murtagh, Expo Exhibitions.
Tel: 01 - 295 8181.

Liam Kelleher, CIF Director.

Eoin O’Cofaigh, President, RIAI.

“The quality management and design of construction is in the interest of all who are engaged in, and avail of, building work and related products and services. In this respect a tailored forum where specifiers and architects in particular can examine and source all the latest and impending new products and services is essential. Plan Expo is just such a forum”, says RIAI President Eoin O’Cofaigh.

With Plan Expo ’99 and HireXpo, the stand-
Honeywell has the future all mapped out

Honeywell leads the world in building control technology, improving the working environment, conserving energy and raising fire safety and security standards.

In fact, Honeywell building controls can match the needs of any building precisely, from individual controls through to a fully integrated management control and protection system.

The market for Honeywell building controls covers every type of location and every kind of customer.

And, whatever your requirement, our distributors in Ireland are on hand to provide advice and support. That’s how we build strong working partnerships with all customers.

Honeywell’s reputation for quality and reliability is second to none. And this, coupled with our market leading innovations, ensures that buildings run smoothly and can easily be upgraded or modified with products that will serve you effectively today and well into the next millennium.

Home and Building Control.
Honeywell Control Systems Limited
Honeywell House, Arlington Business Park
Bracknell, Berks RG12 1EB
Telephone: 0044 1344 656000
Fax: 0044 1344 656240

Published by ARROW@DIT, 1999
Mitsubishi Roadshow and Casino Nights

The recent Mitsubishi Electric nationwide roadshow consisted of a product exhibition in the Mitsubishi Electric training, exhibition and corporate entertainment trailer, followed by a Las Vegas Casino night in each of the three venues. During the week the roadshow visited Belfast, Dublin and Cork, drawing a total crowd of over 500 architects, engineers, and consultants.

The Mitsubishi Electric roadshow and Casino nights were supported by the company’s nationwide network of dealers, many of whose staff also attended the events. Co-hosing the Belfast exhibition was Brian Hunter of Bel-Air Refrigeration.

Discussing the benefits of City Multi air conditioning systems at the Cork evening of the Mitsubishi Electric Roadshow are (L-R) Joe Mulligan, Thompsons AC; Paul Sexton, Mitsubishi Electric; Laurence Thompson, Thompsons Air Conditioning; Peter White, VMRA; and Michael Sheehan, Mitsubishi Electric.

Some of the prizewinners from the Belfast night of the Mitsubishi Electric Roadshow pictured with Brian Hunter, Bel-Air Refrigeration and Michael Sheehan, Mitsubishi Electric.

Enjoying the evening at the Mitsubishi Electric Roadshow in the RDS, Dublin are (L-R) Michael Sheehan, Mitsubishi Electric with Mark and Brian Cooney, Reconair.

Derek Myers, H A O’Neill, top prize winner at the Mitsubishi Electric Air Conditioning Roadshow in the RDS, Dublin, being presented with a bottle of champagne by Paul Sexton, Mitsubishi Electric. Also in the picture is Colm Mulcahy, Mitsubishi Electric and Janice, one of the evening’s hostesses.

Hostesses for the Mitsubishi Electric evening in Cork, Andrea, Linda and Janice with Joe Mulligan, Thompsons; Paul Sexton, Mitsubishi Electric; first prize winner Paddy McGlaue, Kaiser Chemicals; Laurence Thompson, Thompsons Air Conditioning; and Michael Sheehan, Mitsubishi Electric.

Left: Tension mounts at the finals table during the Dublin evening of the Mitsubishi Electric Air Conditioning Roadshow in the RDS.
Making things better for your son and air.

MITSUBISHI ELECTRIC
AIR CONDITIONING SYSTEMS

the next generation

Published by ARROW@DIT, 1999
AC 2000 Opens in Dublin

AC 2000 Ltd, a leading air conditioning contractor in the UK, has opened a new branch in Dublin. Formerly known as Wathes Air Conditioning Ltd, AC 20000 - with a turnover last year of STG £12 million - was established over 90 years ago. Throughout that time, AC 2000 has gained a wealth of experience in designing, installing, commissioning and maintaining a wide variety of air conditioning systems.

Vent-Axia’s Optimax Brochure

Vent-Axia’s fan coil portfolio now has an eye-catching and informative brochure to outline the numerous options available to specifiers. Taking the guesswork out of selecting a fan coil unit, the brochure contains every conceivable fact and figure a specifier needs to know.

Available in eight variants, the Optimax runs efficiently for up to six times longer between routine filter replacements, while also offering cost-cutting capabilities.

Offering cooling performance of up to 8kW and over 7kW of heat output, the range is produced at Vent-Axia’s Fan Coil Division at Chichester, quality-assured in accordance with the demanding requirements of ISO9001, and fully supported by Vent-Axia’s established expertise.

If compact design, low maintenance, low noise, low energy consumption, robust construction and ease of installation are what you are looking for, Optimax is the next generation of fan-coil design which has it all.

To receive further information on the Optimax fan coil units and the new range of Spectrum AHU’s contact: Michael Randall, Vent-Axia Ventilation. Tel: 01 - 450 4133.
Trade News

Natmaint '99

Natmaint '99, the national maintenance and facility management exhibition, has successfully concluded negotiations with Serco Facility Management as a key exhibitor for this year's show.

Serco is one of the largest facility management organisations in the world and carries out full FM services for blue chip companies worldwide.

Natmaint '99 - Ireland's only dedicated exhibition for the industrial maintenance and facility management – will be held in the new Shelbourne Hall, RDS, Dublin on 26/27 May 1999.

Contact: Gerry Swan, Natmaint '99. Tel: 01 - 624 2827

AHU Specialist Mistral Air

Formed in June of 1998 and with its manufacturing base at Unit 19, Drimnagh Industrial Estate, Dublin 12, Mistral Air Ltd, specialises in the manufacture of air handling units for the domestic and international markets.

The use of modern materials and up-to-date manufacturing processes ensure that the company is already establishing itself in the marketplace with a large number of projects successfully completed to date.

Key elements such as the use of aluminium components throughout and pre-insulated panels mean that Mistral Air Ltd offers units that are light-weight in construction and suitable for a large variety of situations where weight constraints may be of critical importance.

The company's principal, Martin Kearney, hopes that more than 15 years in the building services industry means that clients' needs can be interpreted correctly and that their requirements can be fully met.

Along with manufacturing air handling units, Mistral Air offers packaged systems incorporating stand-alone or BMS controls, pre-piping and pre-wiring.

In addition, it can also offer services such as on-site assembly for restricted locations and modifications or repairs to existing air handling units.

Contact: Martin Kearney, Mistral Air Ltd. Tel: 01 - 456 8866; Fax: 01 - 456 8833; eMail: mistral@iol.ie

RAC Show

Largest Ever

The recent RAC exhibition in Birmingham was the largest UK dedicated refrigeration and air conditioning show to date. Over 250 market-leading companies combined to present a comprehensive showcase of all the latest developments in products and gases.

Running in tandem with the show itself was a complementary programme of related events, including continuous seminars and SkillFridge '99, the UK's national skill competition to find the Young Refrigeration Engineer of the Year.

The Irish were there in force, not just as visitors but also manning stands for their principals. The overall consensus was one of a very worthwhile and successful show.
'Phenomenal Savings of Phenolics'

The pledge by industrialised nations to address environmental issues by reducing carbon monoxide emissions to 20% below 1990 levels by 2010 has placed great emphasis on the need for energy-efficient construction products to help achieve this target.

Kooltherm Phenolic products developed by Kingspan Industrial Insulation Ltd already incorporate the qualities necessary to meet the more stringent emission standards, thanks to the fact they have been specifically designed to minimise energy consumption and reduce clients' running costs.

"What is not always realised is that BS5422:1990 – which sets the required level of thermal insulation for ductwork and piping – was never amended to meet revised levels set by Part L of the Building Regulations", says Brendan Smith, Kooltherm Products Manager. Furthermore, the commitment made at the United National environmental conference in Kyoto renders the standard even more inadequate".

Kooltherm phenolic insulation products have been developed to provide a stated thermal performance level with the use of substantially less material than the corresponding amount of mineral fibre needed to achieve the same thermal performance. A consequent benefit is a dramatic reduction in the thickness of insulation required, which can often be an optimum consideration when space around pipework and ducting is restricted.

While the embodied energy of mineral fibre is lower than that of phenolics (13-12 MJ/Kg of 100 MJ/Kg), so much less phenolic insulation is required to the amount of mineral fibre in any one application that the actual embodied energy of phenolic insulation will be as much as 33% lower.

With a K value of 0.018 W/mK (at 10°C), Kooltherm phenolic insulation has the lowest stable thermal conductivity of all insulation materials. Furthermore, as phenolic is a densely cross-linked structure which does not break down, it is not prone to long-term degradation of its thermal performance.

Contact: Brendan Smith, Kooltherm Products Manager. Tel: 042 - 979 5027.

Maico WRS-D Room Air System

The Maico Aeronom WRS-D room air system with heat recovery is a central system with individual room control. Each room is supplied with two fans, fresh outside air being drawn in, filtered, and then delivered to the rooms by the concurrent heat exchanger.

Up to 80% of the heat present in the extracted air is delivered to the supply air, while stale air is extracted and delivered to the outside by the concurrent heat exchanger.

The system can be adapted to the required number of rooms using an additional motor block and partial fitting with fans.

Contact: Billy Wright, Irish Fan Distributors. Tel: 051 - 852404.

Building Services Event

The 1999 Building Services Event (Earls Court 11 - 13 May) will have a definite new look with new sections such as LIFTEX – Europe’s largest ever display of elevators and escalator systems – highlighting the expanding role of the industry.

In an adjoining hall Construction Solutions ‘99 will show how modern IT systems now impact on every aspect of building design, from calculating bills of quantity to developing the configuration of the air handling plant.

Even among the more traditional sections covering industrial and commercial heating, ventilating and air conditioning and, of course, DHE for the domestic heating and plumbing installer, there will be much to see. The emphasis will be on new products and services.

Contact: EMAP Trenton. Tel: 0044 181 277 5110.

Kooltherm phenolic insulation products from Kingspan Industrial Insulation.

Maico Aeronom WRS-D room air system with heat recovery from Irish Fan Distributors.
Solution to Difficult Pipe Connections

Making a connection to a broken drainage pipe, particularly if it is located underground, can be a real problem, especially if the pipe is fragile. Indeed, if the pipe is made from clay, it is easy to do more harm than good when trying to effect a connection. In any case, difficult connections such as these can involve a substantial amount of time and effort.

Now, leading WC pan connector manufacturer Multikwik has launched a solution ... the new Universal Pipe Connector (MKEP110). Quick and easy-to-use, the Universal Pipe Connector provides a perfect push-fit connection with any pipe in a fixed position with an inside dimension of between 99 and 105mm. This includes clay pipes, uPVC underground or soil pipes, cast iron pipes and Timesaver cast iron pipes.

By inserting the end of the Universal Pipe Connector into the inside of the fixed pipe, a new 110mm plastic pipe can be connected using a slip collar. Thanks to Multikwik's established push-fit design and high performance elastomeric seal, the flexible polypropylene Universal Pipe Connector effects a permanent water and air-tight connection.

Contact: MFP Sales Ltd. Tel: 01 - 628 0696.

Building Information Live Database

The Building Information Centre, part of DIT, went live with its Product Sourcing Website in early February. The website comprises a listing of over 2500 construction industry firms and over 1000 product classifications. This web site is ideal for architects, engineers, contractors, and surveyors when they are sourcing building products. It offers a one-stop virtual shop to the construction industry.

The site was developed as part of the EU 4th Framework Genial Project which was led by Siemens, Germany and comprised other European Building Centres as partners.

The Building Information Centre was established by DIT to deliver excellent information services and IT solutions to the Irish construction industry.

As well as the product sourcing website, the Centre also offers web services and IT consultancy to the construction industry. Its website links-page offers a gateway to state-of-the-art Construction IT initiatives throughout Europe. Telecom Eireann have given their strong support to the development of this web knowledgebase.

Contact: Eamonn Buckley. Tel: 01 - 873 2130; eMail: ebuckley@bild.ie Website: www.bild.ie

REHAU Quality Underfloor Heating

The REHAU underfloor heating system is currently providing comfort in offices, factories, care facilities and community centres in more than 29 countries throughout the world. Its efficiency, level of comfort and achieved and minimal requirements for maintenance result in cost-effective, energy-saving, heating systems.

and it can be incorporated into almost any existing system easily. As the system has low return water temperatures, it lends itself to the latest condensing boiler technology.

Insulation is used to eliminate downward heat loss, while the whole floor dissipates heat evenly to occupied areas.

A wide choice of suitable floor finishes can be used.

System control options ranging from weather compensation to more simplified thermostats can be incorporated into the design requirements of any project.

REHAU underfloor heating is distributed in Ireland by Keston Heating Products, who is currently in the process of appointing a nationwide network of authorised installers.

Contact: Frank Forde, Keston Heating Products. Tel: 01 - 462 1753.

Getting Paid — CCC Seminars

The following are brief details of forthcoming Contract Construction Consultants (Ireland) seminars:

Subject: Using Standard Civil Engineering Forms to Get Your Money

Date: Tuesday 4 May 1999

Time: 5pm to 9.15pm (light buffet included)

Venue: Institution of Engineers of Ireland, Dublin

Contact: Lisa Barry, Contract & Construction Consultants (Ireland). Tel: 01 - 676 6744.
Unvented Water Heaters
with 5-year Guarantee

Four new Heatrae Sadia Multipoint water heaters – designed for direct feed from the cold water mains and for use in cloakrooms, workshops, clinics, laboratories and extensions where two or more outlets need to be served from a single water heater – are available from OBf.

All are available in a choice of two different element ratings. The 10 and 15-litre versions are suitable for the most popular applications, while the new 30 and 50-litre units are intended for applications where a higher capacity is required.

There is a 5-year guarantee on the high-grade copper inner container which is designed for a long, trouble-free life, consistent with the company's “fit-and-forget” philosophy.

Multipoint units come complete with a factory-fitted temperature and pressure relief valve, tundish and service valve. This offers maximum safety and simplifies stockholding, ordering and installation. The T&P valve offers two levels of safety, opening if either water temperature or pressure within the heater exceed preset safety levels (90°C or 7 bar respectively).

Contact: OBf Distributors.
Tel: 01 - 450 4644.

Eutectic Balls on the Net

Cristopia Energy Systems, a leading supplier of encapsulated ice and eutectic latent thermal energy storage systems to commerce and industry, now has a website on the Internet at: www.cristopia.com

Information relates to the application of these systems to all types of air conditioning and process cooling applications between +27°C and +33°C and details reasons for using eutectic thermal storage; how to use eutectic thermal storage; product range; international network; references; case studies; on-line technical back-up.

Contact: Cristopia Energy Systems.
Tel: 0044 181 330 1403.

Unvented Water Heaters
with 5-year Guarantee

Powrmatic Up
the Heat with
System Flue

Powrmatic Ltd, Europe's largest manufacturer of warm air heating equipment, has developed its range of commercial flue products in a concerted effort to up its profile in the flue and chimney market.

The well established System 250 range, previously available in internal diameters from 125mm to 300mm, will be available up to 600mm as from 1 May 1999.

The system will now be considered a multi-purpose chimney product and internal diameters of 250mm upwards will be available with a comprehensive range of optional material specifications to suit all applications and all budget limitations. Powrmatic aims to deliver all bespoke systems, including specially-manufactured modular headers and components, within 10 days.

The internal diameter range of 125mm to 200mm will be manufactured with a 316 grade stainless steel liner, 25mm of high quality silica powder insulation, and a 304-grade stainless steel outer casing. These diameters are Kite marked to BS4543 parts 2 & 3 1990, and are, therefore, suitable for solid fuel and 35 sec oil appliances. In addition, these diameters are 4-hour fire rated in accordance with BS476 part 20 1987.

To make ordering easier, the range has been rationalised to offer 400mm, 500mm, and 750mm installed lengths. Adjustable lengths will remain available where dimensional flexibility between components is required.

Effective from 1 May 1999, System 125 commercial gas vent will be phased out and replaced with a new range ... System 250 GY. Apart from the benefits in quality, this development is seen as a rationalisation of the product range, offering benefits such as common components and support brackets, and the possibility of designers changing from one system to another without the need for special adaptors. Manufactured with an aluminium liner, 25mm air cavity and zalutite outer casing, System 250 GV is available in 175mm, 200mm, 250mm, 300mm, 350mm, 400mm, 450mm, 500mm, 550mm, and 600mm internal diameter. Gas vent product is suitable for atmospheric gas fired appliances where the flue gas temperature does not exceed 250°C.

Contact: Patrick Lowry, Powrmatic (Ire).
Tel: 01 - 452 1533.
Inside the Bestobell Steam Trap

Manotherm Limited –
The Control Centre,
4 Walkinstown Road, Dublin 12.
Tel: 01 - 452 2355;
Fax: 01 - 451 6919