IDHE Awards

CIBSE Annual Dinner

Congratulations Gerry!

- Domestic Boilers & Burners
- Customised Air Movement Solutions
- Free RECI Directory inside
Innovation in Pumping Technology

Wilo-TP and TS range

These submersible pumps are suitable for drainage and waste water disposal and feature a multitude of technological and ecological product qualities. Features include standard explosion protection, low weight and a detachable power cable. They are constructed from a material combination of stainless steel and composites and are suitable for vertical pump installation.

- Building & surface dewatering
- Environmental engineering and sewage waste disposal
- Soiled waste water and storm water disposal
- Civil and process engineering schemes
Dark Clouds On The Horizon?

Is the honeymoon period over? A broad cross-section of those polled by BSNews recently indicated that, even with just a minor downturn in construction output, the impact could be significant. Apparently, some industry sectors are already showing signs of the jitters.

The general consensus is that the high-volume, low-margin mentality of recent years is now coming home to roost. Too many years of continuous trading at levels which yielded minimal profits mean that more and more companies are now facing cash-flow problems. The signs are there across all market segments, the impact on some being greater than on others.

Hopefully, the doom and gloom merchants are wrong. Then again, there could be some justification for their fears. Either way the honeymoon period would appear to be coming to an end. The outlook is still very healthy but, it is definitely time for everyone to take stock ... to look to their operating procedures, management controls and overall trading philosophy.

Reports of the stronger market players finally refusing work at margins which are unacceptable points to an element of unease which has not been seen for some time. Those in a position to say no are few and far between. Once in the cycle of funding one job out of another — without any significant net gain — it is very difficult to break the pattern. Nonetheless, there comes a time when even that process catches up on itself and collapses.

Hopefully, that situation — while undoubtedly happening in isolated pockets — is not widespread.

It is time to be honest, to face up to the shortcomings in the system at large, and to address them head on before the whole house of cards comes tumbling down.
**Complete dx System from Carrier**

An attractive “family” of indoor units, an outdoor unit based on proven technology, an optimised gas flow distributor, a range of controls and full system specifications ... in essence, the complete factory-assembled direct expansion green refrigerant system for a wide range of commercial applications, has been launched by Carrier and is now available from Core Air Conditioning.

As a result of its global alliance with Toshiba, Carrier is now able to offer the convenience of a complete choice of technologies — dx or hydronic — from a single supplier source.

The Carrier MultiVRF is a highly-efficient, R407C, direct-expansion, heat pump system, capable of accurate temperature control to within 0.5°C. Up to 16 indoor units can be connected, via one or two gas flow distributors, to a 2-pipe outdoor unit. This can be sited up to 100 metres away (50 metres vertically).

The units and controls of the Carrier MultiVRF system can be factory-matched to create installations that will provide cooling and heating capacities up to 25kW and up to 28kW respectively. These will suit any buildings that have zones which will demand either heating or cooling. They particularly suit existing spaces where only limited quantities of new pipework are admissible.

The indoor units may be controlled by either infra-red or hard-wired remote controllers, providing individual control or in groups using room or group controllers, or in complete zones via the gas flow distributors and an electronic zone manager. Moreover, the VRF Building Management System (BMS), a pc-based central remote control, is now available. It is able to control individually up to 1000 indoor units, and has been specifically conceived for hotel and office applications.

The system has the attraction of high-quality established inverter technology, modular installation capability for part-occupied buildings and significant energy savings over some traditional ac systems as a result of matching compressor output directly with indoor unit demand. Additionally, no plant room is required.

Contact: Austin McDermott, Core Air Conditioning. Tel: 01 - 294 3110.

**Wavin ‘Go Places & Win’**

Builders throughout the country will be completing jigsaws during the next five months in a new marketing initiative from Wavin Ireland. In an intriguing promotion called “Go Places & Win Prizes”, Wavin is offering builders a chance to win up to five holidays, plus a host of prizes from 28" widescreen televisions to portable CD sound machines, from mountain bikes to trolley bags.

Patrick Atkinson, Marketing Manager, Wavin Ireland, is pictured here at the launch of “Go Places & Win Prizes”.

**Heating Controls for Holmes**

David Holmes (right) has been appointed Product Manager with Danfoss Ireland. David has extensive experience of the building services industry and has been with the company for just three years. David’s new appointment means a much broader brief, but he will now have specific responsibility for heating controls.
Specialist Suppliers and Designers of

**Building & Architectural Acoustic Products**

for
Hotels, Cinemas, Offices, Recording Studios & Nightclubs

**Noise Control Engineering Products**

for
Noisy Machines, Ducts, Pipes, & Fans

**Anti-Vibration Products**

Press Machines, Air-Handling Units,
Compressors & Water Pumps

For further information on:—
Site Surveys, Detailed Reports or Manufacturing

Contact us at

NCRL, 11 Fitzwilliam Quay, Ringsend, Dublin 4.
Tel: 01 - 667 1077; Fax: 01 - 667 1055;
email: ncrl@eircom.net  Website: www.ncrl.net
‘Work Smarter, Not Harder ... Use Smartfit Heating Controls’

"Honeywell, a market-leading name in central heating control, has lived up to its reputation by introducing the largest single improvement to central heating control since the introduction of its Sundial Plans some 30 years ago" according to a company spokesperson. In launching a whole new control system Honeywell Smartfit sets the new standard for central heating control.

Recognising that radical change is difficult in the domestic heating market, Honeywell has made the new system look and feel like a traditional system, but has still managed to create a whole new potential for installers.

Traditional systems rely on the laborious wiring being connected correctly, with over 30 wires having to be prepared and connected in the correct sequence, allowing mains voltage to enter every control on the system. Smartfit has simple plug-in valves and sensors, and the brand new low-voltage room unit only requires two wires to make it work. If the wires are back to front, it still works. With Smartfit, the only mains voltage wiring required is the connections to the pump and the boiler. Even these have been reduced to one wire terminal.

In fact, with Smartfit, there is no need for any wiring diagrams for the controls as all systems are the same ... just connect the 2-wire room unit, plug in the valves and cylinder sensor, and the system is complete.

With Smartfit heating systems have had a radical overhaul to incorporate modern technology.
Contact: Pauline Weatherall, Honeywell. Tel: 0044 800 521121; email: literature@honeywell.com

"Lennox Town" ... contact Walkair.

“The stylised graphic of a typical town depicts, in a cartoon-like format, how different Lennox system products can be used in a range of applications within a representative town environment”, says Vincent Mahony of Walkair, the Lennox distributor in Ireland.

Products featured include packaged rooftop units on supermarkets, restaurants and cinemas, chillers and air handlers serving office blocks, as well as fan coils and chilled water cassettes. It shows how these products can be linked together to form the basis for a complete air conditioning system solution.

The graphic will appear on the company’s promotional literature during 2001 and on a range of other items, including posters.
Contact: Vincent Mahony, Walkair. Tel: 01 - 456 8070.

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◆ New Business Introductions
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WB Range from Worcester Bosch

Worcester Bosch — one of the leading brands of oil boilers — has developed the WB range exclusively for the Irish market.

To mark the fact the company is offering a free and very useful set of working overalls with every purchase of a WB oil-fired boiler throughout the period 5 February to 27 April. The overalls are quality made and can be expected to give excellent service for a lengthy period (but not for as long as the boiler itself of course!).

The WB range offers three boiler outputs — 50,000 - 70,000Btu/hr; 70,000-90,000Btu/hr; and 90,000-110,000Btu/hr. They are manufactured to the highest standards and incorporate the latest technology, together with Electro oil burners on every model.

Contact: Derek Duff, Worcester Bosch.
Tel: 086 814 6644.

VEJAY PLASTICS LIMITED

Vejay Plastics was established in 1978 and, through a service-drive approach, has established itself as one of the leaders in the design and manufacture of plastic products for the building services industry. The product portfolio is diverse and all-embracing, and includes:

Fume Cupboards
Vejay Plastics manufactures an extensive range of laboratory fume cupboards for use in colleges, hospitals and pharmaceutical companies (brochure available on request);

Fume Extraction Systems
Vejay Plastics manufactures, supplies and installs round and rectangle ductwork for plant requiring fume extraction to the atmosphere;

Fans
Manufactured in PVC and polypropylene, Vejay Plastics supplies and installs a vast range of fume extraction systems to suit all manner of applications;

Tanks/Tank Linings
Vejay Plastics designs and manufactures polypropylene and PVC tanks up to a capacity of 6,000 gallons suitable for the food sector. Other applications include situations requiring chemical and acid-resistant models. The tanks — available in cylindrical and rectangle models — are manufactured in accordance with BS 4994. Additionally, concrete pumps and rectangular steel tanks can be lined with polypropylene to ensure a sealed unit;

Sinks/Trays
Chemical-resistant sinks and trays can be manufactured to suit specific requirements, complete with taps, drain and steel frames. They are manufactured in polypropylene and PVC in any size;

Sheeting, Ductwork & Fittings
Vejay Plastics manufactures an extensive range of sheeting, ductwork and fittings in PVC, polypropylene, perspex, etc.

Speciality Items
Vejay Plastics manufactures a broad range of other, complementary items in PVC and propylene. Whatever the requirement, the company will design, manufacture, supply and install all manner of tailor-made building services solutions.

Contact
Mark Jay & Gerry O’Neill, Vejay Plastics Ltd, 14 Kelly’s Row, Dorset Street, Dublin 1, Tel: 01 - 874 2180; Fax: 01 - 878 8634, email: info@vejayplastics.ie Website: www.vejayplastics.ie

Example from the WB range which was specially developed for the Irish market.
Chillers from GEA Happel

A chiller and air handling unit "package" from one source is now available from GEA Happel since the company launched a new, complete range of air cooled and water cooled GEA chillers on the Irish market with capacities from 10kW to 580kW, and water-cooled chillers with capacities from 12kW to 320kW.

Designed and manufactured to the highest standards to provide high efficiency, GEA chillers are fully optimised for use with environmentally-friendly refrigerants R134a and R407C to give quiet operation, easy maintenance and minimum operating expenditure.

Combining a GEA chiller with ATplus or ATpicco air handling units and GEA fan coil units offers customers the confidence of buying a complete, highly engineered system from one source.

Contact: Noel May/Colin Huggett, H&M Engineering. Tel: 01 - 459 1470/71.

Western Bathroom Collection Echoes Children of Lir

With over 50 individual items in the core range and qualified personnel available to discuss non-standard units, the new Western Collection of baths, shower pods and whirlpools from Ancofer offers excellent value for money.

Designed by the company's own in-house team of specialists, the Western Collection echoes the enduring style, spirit, intrigue and quality of the Children of Lir classic, with a logo based on the same theme.

The entire collection — including the extensive range of bathroom aids and accessories — is manufactured at Ancofer's purpose-designed manufacturing plant in Tooraree, Ballyhaunis, Co Mayo.

To mark the introduction of the collection Ancofer has published a high-quality, full-colour brochure depicting the entire range, along with all relevant sizes/dimensions.

Contact: Tom Davy, Ancofer. Tel: 0907 30850/30860.

Photograph shows cover of the newly-published Western Collection bath brochure, featuring the unique Children of Lir-based logo.

Guidelines For Good Practice

To launch the latest publication by the Heritage Council Archaeology & Development: Guidelines for good practice for developers, Charles Mount (left), Archaeology Officer, visited a site currently undergoing excavation in James' St Hospital, together with Margaret Gowen (centre), Archaeological Consultant and Toal O'Muire (right), OMS Architects.
Keep ahead with Honeywell.

It's reassuring to know you can keep ahead of the game with Honeywell. We have been making energy saving controls for over 100 years. So people trust us to provide quality, reliability and good value.

Our top quality range of thermostatic valves includes the smart chrome-top VT200, as well as the VT15 and VT117. All offer energy savings and reversible flow bodies to give unrivalled performance, individual room temperature control and stylish appearance.

Make the smart move - use Honeywell
New Look CIBSE National Conference

The format of the CIBSE National Conference 2001 has been changed to allow easier access to a range of more focused events. Most of the elements of the traditional conference have been retained, but they are being broken into separate components and brought to central London at Regent's College Conference Centre, on 2 July and 18 October.

The first of two one-day conferences will be held on 2 July, and will focus on leading technologies and "real building services now". The main sessions will cover process, design photovoltaics/lighting and cooling, and four parallel workshop sessions on pipe expansion acoustics, photovoltaics and lighting perceptions will also be available to delegates. The day will conclude with a dinner and social.

The second of the conferences will take place later in the year on 18 October. For this event, the theme will be experience and feedback for the use of design tools. Again, parallel workshops will be run and the day will close with a dinner where the HAC Graduate Award will be announced.

More information on these changes can be found on CIBSE's website's “What's New” section at www.cibse.org or by calling CIBSE Services at Tel: 0044 208 772 3660.

New from S&P and Ventac

Always to the forefront with innovative ventilation solutions, Ventac has just recently launched a whole new range of commercial, industrial and domestic fans from S&P. A detailed 272-page, full colour catalogue is available on request. Below are a number of examples from the range. Contact: Ciaron King, Ventac. Tel: 01 - 667 1077.

- New range of S&P heavy-duty compact series cased axials
- S&P Series TTT cased fans with external motor
- S&P Series THGT high temperature 400°C/2h with adjustable pitch impellors
- New range of S&P HDT Series flame-proof motor axial fans. Volumes: 2000m³/h — 13,700m³/h. Exx2IIC7T4

Inspecting the site of Dromroe Village, the new £20 million student accommodation complex at the University of Limerick, are (from left to right) Ms Mirette Corboy, Chairperson of the Plassey Campus Centre and former president of the Construction Industry Board, and John O'Connor, Vice President, Administration of the University of Limerick.
FOR THE

THE NEW TRV 2-WAY FROM MYSON HEATING CONTROLS HAS TAKEN THE CENTRAL HEATING INDUSTRY BY STORM. IN JUST A FEW MONTHS, SALES HAVE MORE THAN DOUBLED. AND NO WONDER.

TRV 2-WAY

THE MYSON 2-WAY IS THE GENUINE ARTICLE YOU CAN FIT IT ON THE FLOW OR RETURN RADIATOR TAPPING WITH WATER FLOW IN EITHER DIRECTION.

THE ONLY

WHAT'S MORE, THE MYSON 2-WAY COMES IN A WIDE RANGE OF SIZES, WITH ALL THE ACCESSORIES YOU NEED. SO NEXT TIME YOU FIT A TRV, DON'T SETTLE FOR SECOND BEST. FIT THE MYSON 2-WAY - EVERYONE ELSE IS!

WAY IS UP.

TRV2WAY

MYSON

HEATING CONTROLS

Available in Polished Chrome, Satin Brass, or Nickel finishes, in a full range of sizes. For more information contact Myson Heating Controls Ltd, Newtech West, Co Limerick. Tel: 069 - 62277; Fax: 069 - 62448; email: enquiries@myson-heating-controls.com Websites: www.myson-heating-controls.com
TRADE NEWS

Pictured at the Grafton Group preliminary announcement of results for the year ended 31 December 2000 in the Shelbourne Hotel were Norman D Kilroy, Managing Director and Michael Chadwick, Chairman, Grafton Group plc.

Guide to Solving Condensation Problems

Tegral Building Products has published a new brochure for the building and roofing trade which provides solutions to many common ventilation problems. Entitled "Ventilation Solutions", the brochure explains the importance of correct ventilation and the range of products available from Tegral.

According to Tom Richmond, Tegral Building Products: "Modern buildings are warmer and better insulated than ever before. This has brought undeniable benefits in terms of comfort, running costs and the environment, but it has also increased the risk of condensation forming in cold roof spaces."

"While a normal amount of condensation is to be expected in buildings, excessive condensation can prove harmful to structural timber, insulation, metal components and electrical equipment, store possessions and even decorations below ceiling levels."

The building regulations require the prevention of excessive condensation. The brochure sets out the common ventilation solutions for cold and warm roofs.

Tegral's product range includes slate and tile vents, slate and tile ventilator accessories, ridge vents and eaves vents and accessories.

Contact: Tom Richmond, Tegral Building Products. Tel: 0507 31316; email: info@tegral.ie

Heavy-Duty Hand Cleaner

Now available in Ireland, Lava heavy-duty hand cleaner comprises a combination of pumice particles and moisturisers. The pumice shifts the most stubborn of deeply-ingrained dirt and the moisturisers care for the skin, preventing hands becoming rough and dry. This makes Lava ideal for anyone who gets their hands dirty, whether in the workshop or on site.

Lava is available in three types — the traditional Lava Bar, (100g and 150g); Lava liquid hand cleaner, available in a range of sizes to fit in the tool kit; and in a pump dispenser format (225ml & 975ml) or a squeezable flip-top (500ml).

For those who are constantly on the move, pre-moistened Lava hand cleaner towels (available in packs of 10 or 50 towels) offer the same cleaning power as the bar and the liquid, but require no water and no rinsing.

Find That Product, Fast!

If you need to source a product type or particular brand name, it is in the BSNews Buyer Guide.
Our delivery methods can be a little extreme.
CONGRATULATIONS GERRY!

Toshiba ... So Good They’re Doing it Twice!

When Toshiba came to Dublin last month to support Irish distributor GT Phelan with the launch of the Modular Multi VRF at the Berkeley Court Hotel, Dublin was in the grip of a snow blizzard with everyone being advised to make “only essential” travel journeys. Such was the tremendous turnout on the night that Gerry Phelan can feel best pleased with himself ... he is obviously considered an “essential” by a very broad cross-section of Ireland’s construction industry, especially the building services sector.

Quite apart from business reasons, people were in attendance as a personal tribute to Gerry who received two presentations on the night — one to mark his 20-year trading relationship with Toshiba, and the other to mark his 21 years trading as GT Phelan Ltd though, as Gerry later pointed out, he is in business on his own for something like 35 years!

Such was the success of the evening that the entire programme, complete with video presentation and a full complement of product samples and display panel boards, will be repeated over the coming months.

See BSNews February 2001 for full technical breakdown and background information on the Toshiba Modular Multi VRF System.
Where installers strive to improve quality standards yet strive to reduce costs, Control Aer presents PVC grille box, the low cost, lightweight alternative!

**Standard Range**
- 70% lighter than galvanised
- Easy installation — just like galvanised but lighter
- Available in all popular sizes
- Finish black — (Non vision)
- Non-corrosive — reduced bacteria
- Absolute seal — no leakage

**Premier Range**
The premier range all the advantages of the standard range but with the following benefits ...
- Fire retardant thermoplastic
- Increased thickness (3mm throughout)
- Improved safety (no sharp corners)
- Improved impact resistance
- 120mm box height

VEAB is a forerunner in the field of ventilation air heating. VEAB duct heaters are available in rectangular and circular versions, and use either electricity or hot water as the source of heat. The duct heater is designed for installation in a ventilation system where it heats the supply air to the required temperature.

Duct heaters contribute towards a comfortable climate and temperature in anything from small dwellings to bank premises, hospitals and other public buildings.

Units can be supplied with unique installer-friendly, integral, control packs.

**VEAB Circular & Rectangular Duct Heaters**

Published by ARROW@TU Dublin, 2001
Evaporative Condensers Offer Energy-Efficiency and Low-Life Cycle Costs

Evaporative condensers can help Europe meet its target for reducing greenhouse gases under the Kyoto Protocol and demand for this technology looks set to increase, says Gerry McDonagh of RSL, who distribute the Baltimore Aircoil range of evaporative condensers.

The energy advantages of evaporative condensers have long been recognised. They offer important cost-saving benefits for most refrigeration and air conditioning systems by having lower overall power consumption than conventional air cooled or water cooled condensing systems.

They also require substantially less fan horsepower than air-cooled condensers of comparable capacity. Moreover, systems utilising evaporative condensers can be designed for a lower condensing temperature, and consequently lower compressor energy input, than systems utilising air-cooled condensers. This is because evaporative condenser capacity is a function of ambient wet bulb temperature, while air cooled condenser capacity is a function of ambient dry bulb temperature.

Since design wet bulb temperatures are generally 8° to 12°C lower than design dry bulb temperatures, condensing temperatures for systems using evaporative condensers can be at least that much less, resulting in compressor and system power savings of up to 30%.

Compared to shell-and-tube condenser/cooling tower systems, the evaporative condenser rejects heat directly to the atmosphere air in one step of heat transfer. The compact design of evaporative condensers also means that they require less space and supporting steel than other systems, with their factory-assembled modular construction reducing costly field erection time. BAC evaporative condensers also feature a proven corrosion-protection system and other design features which minimise maintenance costs.

The VX Series, available in 62 models from 60 to 6930kW, offers a wide selection of units to meet virtually every installation and application need, while the low profile VCL Series is ideal for compact indoors or restricted outdoors applications. There are 33 models in the VCL Series, with capacities ranging from 180 to 1330kW. The VCL design reduces unit height by as much as two metres compared to other configurations.

Installed costs are kept to a minimum as the VCL models are supplied fully assembled, with factory-sealed seams and joints. No on-site assembly or installation and alignment of fan motors and drives is required. Because the unit is supplied in one piece, any lifting by crane is made easier. This range also boasts very low sound levels with a directional capability that usually avoids the need for additional acoustic treatment.

The innovative CXV Series includes 42 models, ranging from 320kW to 2070kW, and offers a major advance in heat transfer capability which reduces the size of the condensing coil and thus the refrigerant charge. It combines both cooling tower and evaporative condenser technology for better condensing performance, with easier access for routine maintenance. The low-weight of the CXV allows the use of smaller, less-costly cranes — giving a lower installed cost — while fewer coil connections reduce installation time and related refrigerant piping costs.

A wide range of model sizes, combined with numerous options, makes the CXV one of the most versatile evaporative condensers available. The compact size and single-side air inlet design allows better utilisation of space, while a choice of control of fan operation yields more steps of capacity control.

Optional accessories include engineered sound attenuation, extended surface coils (VXC and VCL); Baltiguard drive system (VXC and VCL) for energy savings and BAC’s Baltibond Corrosion Protection System.

Contact: Gerry McDonagh, RSL. Tel: 01 - 450 8011.

BAC Series CXV Evaporative Condensers servicing a brewery refrigeration plant
Customised Air Movement Solutions

When Niall Cleary established Mech-Elec Distributors Ltd seven years ago, the objective was to fill a niche market segment offering customised air movement solutions. That he and Sales Director Jim Dunne have been successful in this endeavour is patently obvious. Mech-Elec now comprises two Divisions — a distributing arm and a manufacturing concern — employs 12 people, and has just taken possession of a purpose-built premises which will serve as headquarters for the company's growing number of interests.

Standing on 8,000 sq ft and comprising offices, stores and an extensive showroom, the new building is located at Unit 84, Calmount Business Park, Calmount Road, Ballymount, Dublin 12. All administration and general management and distribution activity will be conducted from this building with the manufacturing arm remaining behind in the original premises as a self-contained operation. Such is the level of growth with manufacturing that it is now utilising the entire 6,000 sq ft this comprises.

Mech-Elec is one of the largest fan suppliers in Ireland with a portfolio of market-leading brands, especially at the top end of the market, where quality and performance are of prime consideration. A particular strength is the ability to devise a tailored solution for a given application and to manufacture a customised unit to satisfy that requirement.

In this respect Mech-Elec can supply everything from air handling units through to twin fans, axial and centrifugal fans, etc, for all manner of domestic, commercial and industrial applications. All manufacturing procedures are conducted in accordance with the highest quality-control procedures and in accordance with all relevant Standards and Regulations.

Among the international names of renown represented by Mech-Elec are the following:

- **Sodeco** — Sodeco offers an extensive choice of axial and centrifugal industrial fans in virtually any duty required. Included are smoke-spill fans and process fans;
- **Ostberg** — Based in Sweden, Ostberg is one of the foremost names in fans, company founder Mr. Ostberg in fact being the inventor of the famous tube fan. The Ostberg range is extensive and includes acoustic fans, along with heat recovery units for small offices;
- **Sentera Controls** — Controls have always been a very important element in the performance of fans and this is true today perhaps more than at any time in the history of the industry. Sentera Controls are specialists in fan speed controllers and have, over the years, introduced many industry "firsts". That innovative spirit is continued in the current line-up and extends to everything from frequency inverters through to auto transformers, electronic speed controllers, motor protection, differential pressure control, extra switching and overload protection.

Koolair — Koolair is one of Europe’s leading manufacturer of grilles, volume control boxes, fire dampers, VAV boxes, etc. The choice offered is vast and includes copper, brass and stainless steel units.

Greenmount Air Management — Greenmount manufactures a range of quality domestic and commercial fans for the top end of the market. The range is extensive and includes window, wall, roof and ceiling fans. All units also come with unique controls package.

The foregoing is but a brief sample extract from the wide-ranging Mech-Elec portfolio. Apart from the intrinsic strengths represented by the market-leading brands and the quality control manufacturing procedures, an invaluable ingredient of the Mech-Elec service is the experience and technical know-how of the personnel, and the infinite flexibility which applies when problem-solving on behalf of a client.

Contact: Niall Cleary, Mech-Elec. Tel: 01 - 450 8822.
Sub-Station Certification Statutory Requirement

Chapter 63 of the Wiring Rules — Certification & Reporting. Clause 63.2.3 states: “Where an electrical installation contains a sub-system provided by another installer, a sub-system completion certificate in accordance with annex 63A shall be provided by that installer. Note: an example is a refrigeration plant or a lift assembly.”

Consulting engineers and architects include a statement in their specifications that sub-system certification is a requirement of the contract and both mechanical and electrical system designers and installers should be aware that testing and certification of all electrical wiring — including that associated with mechanical installations — is a statutory requirement.

Electrical sub-systems are defined as: “any sub-system that will be connected to an electrical installation with the exception of appliances connected through a plug top that are designed and intended for such use.” Such sub-systems would include air conditioning and ventilation, refrigeration, gas detection, BMS systems, etc.

The electrical installation must be certified as having been installed, inspected and tested in full accordance with the current edition of the ETCI National Rules for Electrical Installations. All electrical works (including electrical sub-systems) must be tested and certified. An ETCI sub-system certificate, along with the test results associated with same, shall be included in the Project Safety File.

Additionally, no electrical installation — no matter how carefully designed and installed — can be expected to last forever. Deterioration will take place due to age as well as due to normal wear and tear. With this in mind, the Wiring Rules recommend that installations should be inspected periodically.

The time interval between inspection will depend on the type of installation and on the way in which it is used. Table A shows suggested intervals between periodic inspections.

A periodic inspection can be carried out by a registered contractor or, alternatively, RECI offers an inspection service for older premises. The periodic inspection report form records the condition of the installation and also lists any defects, omissions and non-compliance with standards revealed by the inspection and testing.

If you would like more information on electrical safety in general, and also hints and rules which you should always follow, you can view the RECI website at www.reci.ie or Tel: 01 - 492 9966. See also the RECI Members Directory which comes to you free of charge with this issue of BSNews.

**TABLE A — SUGGESTED INTERVALS BETWEEN PERIODIC TESTS AND INSPECTIONS**

<table>
<thead>
<tr>
<th>Type of Installation</th>
<th>Max. Period Between Inspections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic Premises</td>
<td>10 years</td>
</tr>
<tr>
<td>Commercial Premises</td>
<td>5 years</td>
</tr>
<tr>
<td>Educational Establishments</td>
<td>5 years</td>
</tr>
<tr>
<td>Hospitals</td>
<td>5 years</td>
</tr>
<tr>
<td>Industrial Premises</td>
<td>3 years</td>
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<tr>
<td>Cinemas</td>
<td>1 year</td>
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<tr>
<td>Places of Public Entertainment</td>
<td>1 year</td>
</tr>
<tr>
<td>Agricultural and Horticultural</td>
<td>3 years</td>
</tr>
<tr>
<td>Caravans</td>
<td>3 years</td>
</tr>
<tr>
<td>Caravan Sites</td>
<td>1 year</td>
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<tr>
<td>Emergency Lighting</td>
<td>3 years</td>
</tr>
<tr>
<td>Fire Alarm Systems</td>
<td>1 year</td>
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<tr>
<td>Laundrettes</td>
<td>1 year</td>
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<tr>
<td>Petrol Filling Stations</td>
<td>1 year</td>
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<tr>
<td>Highway Power Supplies</td>
<td>6 years</td>
</tr>
<tr>
<td>Temporary Installations</td>
<td>3 months</td>
</tr>
</tbody>
</table>
Indoor Environment Technology

- A modular underfloor air conditioning system with complete and functional utilisation of the access floor plenum.

- The building and the services... ultimate flexibility.

- Flexibility... freedom to move.

- Healthy environment... clean air.

- Economics... return on investment.

- Many prestigious FSS projects... hundreds of thousands square metres already installed.
Exceptional Turnout for CIBSE Ball

Now firmly established as the premier occasion on the building services calendar of events, the CIBSE Annual Dinner set yet another record this year by hosting the largest ever gathering of industry personnel on the night. An all-embracing cross-section of construction industry representatives attended with architects, builders, mechanical and electrical consultants, contractors and product suppliers mixing with one another prior to, during, and well into the night after the actual dinner itself. While an enjoyable social occasion, the CIBSE Dinner also serves as the perfect industry forum where views and opinions are expressed, shared — and at times disputed! — both formally and informally, throughout the course of the evening. No amount of reporting can convey the essence of the night ...you have to be there to experience it. Among those who were and were good enough to pose for the camera were:

Bob Venning with Patrick & Anne Gibbons and Greg Traynor, CIBSE Republic of Ireland Branch Chairman.

Bill Noone with Peter O'Dowd.

Brian Hunter with Michael Buckley.

Don Burn with Colin Short and Eamon O'Brien.

Andrew Kennedy with Arthur Hickey, RIAI President.

Bryan Godfree, Chairman of Northern Ireland Region with Greg Traynor, Chairman, CIBSE Republic of Ireland Branch.

Brendan Duffy with Joe Morgan.
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The new Maico aeronom room air system WS 250 from Irish Fan Distributors combines high living comfort with efficient energy savings. The main use of this central ventilation system is in one-family-homes, preferably low-energy and passive houses, with an area up to 180 sq m. It provides a healthy and comfortable ambient climate by permanent and constant air exchange all around the year.

The exhaust of humidity by continuous ventilation is, in the end, advantageous for the building and its inhabitants. Marks of mildew and mould, and consequently damage to buildings or even allergic reactions, will be avoided, and bad odours will vanish into thin air.

Thanks to an ingenious control the air flow in winter is comfortably warm, and in summer even and refreshing cool. The counter-cross heat-exchanger built into this device recovers over 90% of the heat without any need for supplementary heating of the air. Thus, the heat requirement will be reduced to a minimum.

The built-in freezing protection guarantees trouble-free operation in winter, while in the warm season, the unit may provide pleasant fresh air. With the aid of a bypass channel for summer operation, and controlled by a temperature sensor, it results in a refreshing ambient atmosphere.

"A constant airflow volume is the outstanding feature of the new WS 250", says Billy Wright of Irish Fan Distributors. "Therefore, it can be easily and quickly regulated, which in turn is time and cost saving. Furthermore, the airflow remains constant, even when the filters are dirty. A signal indicates when a change of filters is due (an extremely easy task without the need of using any tools). In addition to the standard dust filter, the WS 250 is equipped with a highly-effective pollen filter".

The control module supplied with the WS 250 offers the user unlimited regulating possibilities for individual living comfort. Set to automatic, all standard operations provide daily the optimal ventilation, such as duration and intensity during different times of the day and days of the week. It is, however, possible to increase the air circulation by means of the key "degree of ventilation" and clean the air rapidly from cigarette smoke for instance.

After one hour the system automatically returns to standard operation. Apart from showing the basic information, the system will also indicate room temperature, as well as the necessity for filter change, or announce any operational disturbance.

Manual programme changes can be carried out quickly, so for absence during vacation, during interim periods in spring or autumn, or for additional ventilation in case of need (party air). The AUTOMATIC setting will, however, be maintained. With the key "summer/winter" the operation during these seasons will be activated as has been described already.

Due to its compact dimensions of 759 x 531 x 854 (w/d/h) the aeronom WS 250 fits into the smallest space in the attic, basement, storeroom or alike, or can be mounted on a console on the wall.

The case itself consists of plastic-powder coated steel sheet. The duct connection outlets DN 160 are on top of the device. Besides replacement filters, a wide variety of matching components is available.

Performance characteristics of Maico aeronom WS 250:-
Airflow volume up to 250 m/h
Set airflow at step 1: 100 m_h
Set airflow at step 2: 150 m_h
Set airflow at step 3: 200 m_h

Power consumption at 50 Pa
Step 1: 30W
Step 2: 50W
Step 3: 62W

Sound power level/noise reflection from case
at Step 1: 32dB
at Step 1: 38dB
at Step 1: 43dB

Protection Class 1
Protection type IP 00

Contact: Billy Wright, Irish Fan Distributors. Tel: 051 - 852404; Fax: 051 - 873440; email: sales@irishfandist.com
Website: www.irishfandist.com
IDHE Graduates Celebrate in Style

After all their hard work and dedication, it was fitting that an excellent turnout of industry personnel and family members should join with DIT/IDHE Certificate recipients in Morans Red Cow Hotel, Dublin, recently to celebrate their achievements.

Master of Ceremonies on the night was Seamus Murran, Head of Department, Construction Skills, School of Construction, DIT, Bolton Street. Seamus did an excellent job, providing linkage between the primary speakers — Phil Murray, Head of School of Construction, DIT and Jimmy Hamilton, IDHE President — while also announcing each and every one of the Certificate recipients as they came to collect their awards. Given the numbers involved it was no easy task and all credit to Seamus for the smooth and efficient manner in which the formal aspect of the night's proceedings were conducted.

Presentations on the night included DIT Certificates, IDHE Certificates, Pipe Welding Certificates and the overall Best Student Award. This went to Tracey Morris and was presented by Donal Cummins, Operations Manager, Heatmerchants, who sponsored the Award.

Other sponsors on the night included Potterton Myson (Irl); C&F Quadrant; Davies of Fairview; Grant Engineering; and heatovent.

Photographs on the night were taken by European Photo Services and students who wish to get extra prints can do so by contacting the company directly at Tel: 01 - 492 3077.
Benchmark Boiler Servicing Code

In a drive to improve industry standards of installation and maintenance, the Benchmark scheme introduced in the UK 18 months ago aims to improve industry standards.

Its first innovation was the introduction of the Benchmark Logbook which details both commissioning and service histories. It has a number of key aims — in addition to registering boiler details, it lays out guidelines to ensure proper commissioning procedure is followed; and aims to encourage regular maintenance and to ensure that the end-user receives proper instructions on the boiler and controls operation.

Subsequently, a Benchmark installation and Commissioning Code of Practice was introduced and has proved a positive influence in improving and standardising installation practice.

A Benchmark Boiler Servicing Code of Practice was added in September 2000 and is now in operation with all Benchmark members, advising the installer to follow its Code of Practice and initiating training courses for installers to familiarise themselves with any extra requirements resulting from this Code.

The Code incorporates the combined wisdom of all the key industry players as part of the industry’s initiative towards eradicating installation practices which can cause problems in the performance of the system, eg, a failure to properly flush the system before operation.

The Code goes to the very basics and starts with the key recommendation which is quite simply, to follow the manufacturers instructions which should be used in conjunction with any other servicing check lists and guidelines which the installer uses in his normal day-to-day maintenance work.

Each manufacturer’s procedure will be different even though there is a general similarity. Each model in the same manufacturers range will also vary, however slightly. Nonetheless, it is the small differences which can sometimes catch the installer out.

The new Benchmark Servicing Code of Practice should help to eliminate any such problems by providing working guidelines and encouraging the completion of the Benchmark Logbook which will eventually become one of those all-important documents without which a house will be more difficult or even impossible to sell.

Against this background, Derek Duff of Worcester Bosch takes readers through a typical Benchmark procedure.

It is over a year now since the Worcester SBI system boiler range was launched, consequently some householders will be requesting the first annual service of the appliance. The SBI was Worcester’s first non-combi gas fired boiler available in two models covering outputs from 6-15kW and 15-25kW.

The product has a number of in-built features and options including (a) an in-built filling loop; (b) an optional diverter value; (c) a system by-pass and optional timeclock.

The following procedure describes a typical annual service on an SBI boiler.

Make a visual check. Is the location of the boiler within the regulations? It is surprising how often things have changed. A conservatory extension may have enclosed a balanced flue, perhaps another room with an open flued boiler has been turned into a bathroom, making this an illegal installation? Is the balanced flue position still acceptable? How many trees or sheds obstruct the outlet? Is it therefore still in accordance with BS440 Part 1?

Is combustion air, where required for open flued boilers, still available? It is surprising how often someone removes an air inlet grille and then wallpapers over it. Even a fanned-flue room-sealed boiler may require ventilation air if a kitchen makeover has built it into a cupboard.

Importantly, speak to the householder... are they aware of any problems or changes in the way it operates.

Is the electrical wiring in accordance with the latest regulations?

Having completed these preliminary (and easy to overlook) checks it’s into action with another often-overlooked check. Fit a U gauge or manometer to the gas meter and check the soundness of the whole of the gas installation, now to the boiler. Run the system yourself to see if it appears to be operating properly. Try it in both heating and hot water only mode, making sure the hot water cylinder heats up on demand and that the diverter valves allow the required demand to be opened, closed or shared depending on the system installed.

Isolate the electrical supply and then strip down the boiler for its maintenance. Lift off
the white enamelled door and store it to one side to avoid damage. Remove the two screws holding the bottom fascia to the side panels and hinge down. This reveals the inner combustion chamber door which should be removed by taking out the four screws.

Disconnect wiring and air pressure sensing tubes from the fan and then remove fan by releasing three fixing screws. Check and clean impeller of fan using a soft brush (pic 1).

Remove flue hood assembly by removing two screws and sliding the flue and assembly from the appliance (pic 2).

Remove the one-piece inner combustion chamber front and sides by loosening the two wing nuts and pulling forward the complete assembly, revealing the burner (pic 3).

Inspect the ignition and flame sensor electrodes. Clean main burner by brushing blade tops and mixing tube with a soft brush (pic 4), check that all flame ports are clear.

Inspect the main injector and clean with a soft brush. In the unlikely event that the injector appears to be damaged, do not attempt to clean but replace in preference as this is a non-serviceable component.

Cover the burner with a cloth and brush and clean the main heat exchanger using a soft brush. Be careful not to distort heat exchanger fins.

Examine the combustion chamber insulation, removing any dust or deposits using a soft brush. Vacuum out any remaining dust and debris.

Now the service has been completed, its time to reassemble the appliance in reverse order. Once again operate the appliance, checking flow rates and temperature on hot water and that the boiler modulates properly. Operate the central heating system and ensure radiators heat up evenly and that the temperature control does modulate the burner while in the central heating mode.

Finally — and this is again all too easy to overlook — complete all the documentation which now involves completing the service interval section on the back of the Benchmark Logbook. Tell the consumer what you have done, point out that you have completed the record card and/or leave the top copy of your service check list with the customer for information.

Now you should have a satisfied customer who will want you to return to carry out the next scheduled service in 12 months time.
Keston Celsius 25 – for Environmentally Sound Home Heating

Keston Heating Products has introduced the new Keston Celsius 25 ultra-high-efficiency condensing gas boiler which sets a precedent in environmentally-sound home heating. A Class 5 rating for NOx emissions is achieved and the boiler easily exceeds all current European Standards for CO emissions.

The fully modulating, wall-mounted, room-sealed condensing gas boiler is exceptionally compact with dimensions of H:621mm x W:472mm x D:250mm. It weighs just 38 kilos and can be sited practically anywhere, even in a standard kitchen cupboard if required.

If the optional system kit is used — which incorporates an 8-litre expansion vessel and 3-Bar safety valve — it adds an extra 272mm to the height.

With automatically-varied heating outputs from 7kW (23,900Btu/h) to 25.2kW (86,000Btu/h), the one model is suitable for most domestic installations. A perfect mix of gas and air for optimum combustion maintains modulation efficiency at all heating output levels and achieves SEDBUK efficiency of 90.8% and peak efficiency of 97%. The appliance automatically sets the heating output for each installation by constantly monitoring the boiler temperature required by the thermostat.

For additional efficiency the Keston Celsius 25 also monitors the water flow and controls the integral standard multi-speed domestic pump to match the pump speed to the boiler output.

The boiler benefits from Keston’s unique flue systems using small diameter (50mm) muPVC standard kitchen waste pipe, which on this model can be extended up to 20 metres from the boiler either vertically or horizontally.

Other features include all servicing access from the front. This means it is very easy to service. It also means minimal top and bottom clearance is required, electronic spark ignitions, offering five ignition attempts, built-in pump overrun, frost protection stat, and very quiet operation.

Built-in diagnostics with full fault-diagnostic display on the front of the boiler is capable of pinpointing the exact problem, whether it is installation or boiler related. Even with an intermittent fault the memory will retain it and record the cause.

In households where there is a high demand for instant hot water, the Keston Spa unvented hot water storage cylinder is the perfect match for the Keston Celsius 25 boiler.

Keston Spa is extremely efficient and offers many benefits to the end user and installer. It has one of the most rapid heat transfer and recovery rates available, so far more hot water can be produced on demand from a much smaller cylinder.

For larger domestic and commercial installations there are wall-mounted gas condensing boilers for heating outputs from 130,000Btu/h (38kW) to 340,000Btu/h (100kW).

The higher output boilers can have a maximum combined flue and air intake length of up to 39 metres using the Keston composite flue pipe. For commercial installations any heating output can be achieved using a modular system.

Contact: Frank Forde, Keston Heating Products. Tel: 01 - 462 1753; Fax: 01 - 451 7613; email: keston@focus-ireland.com

The Keston Celsius 25 Boiler Schematic

1. Air Pressure Switch
2. Gas Valve
3. Mixing Chamber
4. Fan
5. Burner
6. Heat Exchanger
7. User Control and Display
8. Pressure Gauge
9. Return Sensor
10. Water Pump
11. Flow Sensor
12. Condensate Trap
13. Water Pressure Switch
14. Flow Overheat Thermostat
15. Flue Overheat Thermostat
16. Automatic Air Vent
17. Ignition Electrode
18. Flue Pipe
19. Combustion Test Point
The new Compact System Boiler range from Glow-worm. Fitting any other System Boiler is just a waste of space!
Introducing the new Glow-worm Compact System Boiler - up to 40% smaller than its competitors!

With 2 models to choose from up to 100,000 Btu/h, together with comprehensive flueing options, the Glow-worm Compact System Boiler is suitable for the majority of domestic heating requirements.

With its modern look and string flexibility, the Compact System Boiler includes a host of benefits designed to meet your installation needs.

So, the next time you need a system boiler range that is small, easy to install and versatile enough to handle your most demanding customer, look no further than the new Glow-worm Compact System Boiler.

After all, fitting any other system boiler will be just a waste of space!

- Choice of 2 fully modulating models.
  Compact System 60: 30-60,000 Btu/h output.
  Compact System 100: 40-100,000 Btu/h output.
- Standard rear flueing from within the boiler casing
  Comprehensive range of horizontal and vertical flueing options to maximise siting flexibility.
- Electronic ignition.
- Optional electronic programmer.
- In-built automatic frost protection.
- Separate fixing jig - especially useful for site work.
- Zero compartment ventilation requirements.
- Very competitively priced.
- Backed by Heatcall after sales service.

POTTERTON

The Complete Boiler Range

Wall Hung Boilers
Natural Gas / LPG
System
Cast Iron
Combi
Condensing
Conventional/Balanced Flue

Floor Standing Boilers
Natural Gas/LPG/Oil
Conventional/Balanced Flue
System (Oil only)
Combi (Oil only)

Potterton Myson (Irl) Ltd
Belgard Road, Tallaght, Dublin 24.
Tel: 01 - 459 0870; Fax: 01 - 459 0880;
email: post@potterton-myson.ie
Vokèra – Quality Service Each and Every Time!

Vokèra continues its success story in Ireland, by recognising the need to provide quality products and first-rate parts and service availability. Paddy Scriven, General Manager for Vokèra Ireland, explains the company’s philosophy. “Consistency and support have been the key to our success and by providing a quality service each time, every time, for installers and merchants alike. A major part of this strategy in the Republic has been achieved by the introduction of a dedicated branch for Vokèra Ireland.

“Vokèra’s service support has always been recognised as industry leading. However, it is a constant challenge to grow the facilities required for our ever-increasing business, while still retaining the personal touch and flexibility that has gained the loyalty of many installers over the years.

“We recognised there was a real need to establish a centre to satisfy the demands of the Irish domestic heating market and to offer customers increased choice and flexibility. As with all of Vokèra’s regional centres, we are dedicated to supplying quality products, the highest standard of customer service, and comprehensive installer training”.

Vokèra’s 8,600 sq ft premises in Callan, Co Kilkenny, houses a dedicated spares and service department, enabling a team of directly-employed Vokèra engineers to attend customers’ calls the same or next working day. The centre features modern training facilities — including a lecture room and live workshop — where installers can gain “hands-on” experience working on real installations.

“Success is not just about backup though, a quality product is essential to keep ahead of the competition and the recently launched Mynute “e” system boiler typifies Vokèra’s commitment to producing innovative yet practical solutions”, added Scriven.

The new specification boilers — the Mynute 10e, 14e and 20e models — feature electronic temperature sensing, with the NTC sensor now mounted on the primary flow, providing accurate control of flow temperature. The Mynute also now incorporates a water pressure switch, eliminating the central heating diaphragm, improving reliability and reducing service requirements.

Like traditional boilers, a system boiler can provide central heating and hot water from a cylinder if required. The key difference is that with a system boiler the major components are built in. For example, the pump — normally installed somewhere remote to the boiler — is built in, as is the expansion vessel which takes the place of the feed/expansion tank normally installed in the loft. The major benefit of a dry loft system is that you remove the potential for leaks or frost damage to tanks or pipework.

Like its predecessors, the Mynute “e” can be used with low pressure sealed systems for installations where mains pressure is either undesirable or not possible.

The new Mynute manages to combine style with practicality, the casing is enhanced by having a covered control panel, enabling the appliance to be sited with confidence. This is hinged down during service to provide quick and easy access to the boiler components such as the pump and gas valve.

To add to the already impressive Vokèra credentials of quality products and outstanding service support, the company is now part of the internationally successful, Italian-based, Riello Group. This important connection provides Vokèra with international backing and support ranging from R&D to customer service.

Vokèra provides dedicated sales, service and technical support to its customers in the Republic of Ireland via its customer service department.

Contact: Paddy Scriven, Vokèra Ireland. Tel: 056 - 55055; Fax: 056 - 55060; email: enquiries@vokera.co.uk

Website: www.vokera.co.uk
BAXI & FOCAL POINT FIRES

TWO GREAT PRODUCTS - TWO GREAT COMPANIES

- High efficiency 90.7%.
- 30 - 100,000 BTU.
- Fully modulating.
- Open vented or sealed system.
- Environmentally friendly.
- Easy to install.
- Priced to compete.

- 100% efficient.
- Thermostatically controlled.
- No chimney required.
- 3.0kW heat output (max).
- Environmentally friendly.
- Easy to install.
- Patented catalytic technology.

A choice of two exclusive fire fronts are available: the Elysee and the Elegance. Both of which can be supplied in brass and antiqued bronze, silver or black.

heatmerchants Gas & Oil Parts

Published by ARROW@TU Dublin, 2001
Installing a Danfoss Randall Boiler Energy Manager to almost any central heating system, new or existing, will reduce unnecessary boiler cycling, improve boiler seasonal efficiency, and reduce running costs.

The unit - comprising a control unit, an outdoor sensor and a return temperature sensor - integrates the operation of the heating system and domestic hot water system and includes a pump overrun. It provides both weather-compensated control of boiler temperature and boiler interlock.

The BEM5000 is also an all-electric solution, which can be installed without the need to drain down the system, making it an ideal upgrade option. Danfoss Randall's BEM5000 sales literature (see insert in this issue) has been updated in line with the company's high-quality advertising campaign. The cover page reflects the black and blue colour of the advertisements, and inside there is a brief, but informative, description of the product, clear diagrams with useful labelling, and an easy-to-use data table.

**Features & Benefits**

- Sophisticated electronic boiler manager;
- Suitable for use with almost any boiler;
- Improves boiler efficiency by reducing unnecessary cycling;
- Reduces running costs by saving energy;
- Provides boiler interlock;
- Weather-compensated control of boiler temperature;
- Load compensation;
- Hot water override;
- Gravity/Pumped water option;
- Easy to install;
- User adjustable;
- Easy-to-ready status indicators.

For further information on the BEM5000, or any other Danfoss Randall product, call Danfoss Ireland. Contact: David Holmes, Danfoss Ireland.

Tel: 01 - 626 8111; email: marketing@danfoss.ie

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**Looking for a Fresh Challenge?**

Are you looking for fresh challenges, working in a friendly, personal environment, where the workload is shared, and your contribution valued? Control Aer are recruiting, looking for internal sales staff who want to be part of a successful innovative team.

If you are thinking of fast tracking your career, where the personal development and financial rewards are gratifying then we want to hear from you. Packages include shares, so work with us, not for us!

If you deserve this opportunity, please write to the address/email below, including a CV and details of your sales experience. Looking forward to hearing from you.

Michael Renaghan,
Control Aer Ltd, Kylemore Park North,
Kylemore Road, Dublin 10.
email: michael@controlaer.com

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Danfoss Randall BEM5000 — "the ultimate boiler energy manager"
The Worcester Bosch SBi system boiler range

CHOOSE THE BOILER THAT REDUCES YOUR OVERHEADS

**CONVENTIONAL SYSTEM LAYOUT**

**SBI SYSTEM BOILER WITH UNVENTED HOT WATER CYLINDER**

Whichever way you look at it, the exceptional Worcester Bosch SBi system boiler saves all round. With components such as the bypass, pump, expansion vessel and even the filling link built into one compact, wall-mounted unit, it occupies far less space. Reduces installation and maintenance times. And benefits from the proven technology of the advanced Worcester Bosch CDi range, guaranteeing high efficiency, low running costs and cleaner emissions while delivering all the heating and hot water your tenants could need. Not forgetting the optional security features which ensure thieves will never get away with it.

So start reducing your overheads right now. By ringing Derek Duff at Worcester Bosch on 086 814 6644 for details of the cost-cutting Worcester Bosch SBi system boiler.

Worcester
Bosch Group

Heating and hot water comfort
Potterton – Suppliers of the Complete Boiler Range

Potterton Myson supplies a complete range of gas and oil fired central heating boilers to suit any household’s needs. At the core of the total concept for the range are improved build quality, efficient customer service and support, and the promise to provide the most advanced, efficient and economic heating system for customers.

Potterton Myson is aware that times have changed and has been proactive in moving with these changes. As proof of this two new boilers are being added to the already extensive range – Potterton System and Potterton Combi.

Potterton System – The new System boiler is fully modulating from 300Btu – 80,000 Btu. With built-in frost thermostat and multiple flue options, this product will match the current market demand for ease of installation incorporating the complete heating system at a competitive price. It is ideally suited to the continuing demand for newly-built homes in Ireland. It is easily converted from LPG, making it the most popular choice for utilities.

Potterton Combi – Through the years the market has increasingly demanded the complete heating and hot water solution. Now, with the Potterton Combi, that solution is here. A highly-efficient complete system incorporating instantaneous hot water may be just the solution you are looking for. This boiler may even work in areas of minimum water pressure, overiding the weakness of most combi offers. This offer will replace the current Puma range.

The new Potterton System boiler and Potterton Combi boiler ranges will be available before summer 2001.

Potterton Myson’s current range of boilers includes:

- The Suprema Range
  - The Suprema collection incorporates a range of natural gas, wall-hung, fanned-flue boilers for conventional heating and hot water systems. Complete with a wide choice of outputs, there is a Suprema boiler to suit any home. Some of the key features include:
    - Can be used in compartments up to 50,000Btu without ventilation;
    - Wide range of flueing options which facilitate a greater choice of locations;
    - Single control knob which enables ease of use;
  - Outputs from 30,000Btu to 120,000Btu available;
  - Sealed system kit available up to 60,000Btu;
  - Cast iron heat exchanger.

Gas boilers

Kingfisher/Osprey ranges – These ranges incorporate a choice of floor-standing, gas, cast-iron boilers, complete with a wide choice of outputs to suit the requirements of the family home. Some of the features/benefits include:

- A range of fanned-blananced or fanned conventional flue systems;
- Compact size which facilitates a snug fit into vented cupboards or under worktops;
- 80% efficiency compares with 65% efficiency in older boilers;
- Outputs ranging from 40,000Btu to 220,000Btu;
- Cast iron heat exchanger;
- Boilers over 125,000Btu are available for LPG.

The Puma – A wall-hung, natural gas, combination boiler which can be sited almost anywhere.
Modulating Domestic Condensing Boiler With In-Built Modulating Circulation Pump

- One boiler for practically any domestic installation
- Fully modulating 7kW to 25kW output
- Flue can be extended 20 metres from boiler vertically or horizontally
- Small diameter muPVC plastic flue system
- Ultra-high efficiency up to 97% (GCV)
- Can save up to 30% on fuel bill
- Integral standard domestic pump
- Wall mounted, room sealed – can be sited virtually anywhere
- Completely environmentally sound – minimal NOx and CO emissions
- Suitable for sealed or open systems
- In-built frost protection
- In-built pump and fan exercise function
- Full diagnostics
- Anti-cycle control
- Natural and LP Gas models
- Stainless steel heat exchanger – 5 year guarantee
- Higher output boilers from 38kW to 100kW also available
- British Gas Service Listed

for Environmentally Sound Home Heating

KESTON HEATING PRODUCTS LTD,
Unit B6 Cookstown Business Centre,
Cookstown Industrial Estate, Tallaght,
Dublin 24.
Tel: 01 - 462 1753; Fax: 01 - 451 7613;
email: keston@co2s-ireland.com
Website: www.kestonireland.com
DOMESTIC BOILERS & BURNERS

Features/benefits include:
- Flexible range of flue options;
- Compact size ... ideal for homes where space is at a premium;
- Two outputs ... 80,000Btu and 100,000Btu;
- Electronic ignition or permanent pilot.

The Profile
For systems requiring gravity, the cast iron heat exchanger in the Profile offers the complete solution. Features/benefits include:
- Wide range of flue options;
- Cast iron heat exchanger;
- Outputs from 30,000Btu to 100,000Btu;
- Available for natural gas and LPG.

Condensing boilers
The Envoy is a wall-hung boiler that combines the latest in condensing technology with flexibility and ease of installation. It is a "super-efficiency" boiler, setting the pace by delivering up to 965 efficiency, effectively cutting heating bills by up to 30%.

For projects requiring a super efficiency boiler, the Envoy is available as a contract offer only.

Oil boilers
The Statesman is Potterton Mysons' range of domestic indoor oil boilers. Combining modern design with ease of installation, the Statesman is compact enough to fit into most kitchen layouts. Some of its principle features are as follows:
- It incorporates the tried-and-tested Reillo burner;
- Outputs range from 45,000Btu/h to 110,000Btu/h;
- Its unique cylindrical, telescopic, balanced flue system provides a number of options to match each installation situation;
- The range covers conventional and balanced-flue requirements.

With a specialist team of field and in-house technical engineers to cater for customer queries, Potterton Myson can provide expert advice on specification and installation.

Contact: Vincent Broderick, Potterton Myson.
Tel: 01 - 459 0870; Fax: 01 - 459 0880; email: post@pottertonmyson.ie
Website: www.myson.heating/control.com

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Get Online with the BSNews Buyer Guide

In response to reader demand following publication of the current edition of the BSNews Buyer Guide, it will go live online shortly. It is not intended as a replacement for the printed edition, but rather as a complementary electronic edition. As such it is a mirror-image of the printed version, the navigation process being identical and involving just three "clicks" to find that product.

Both publications will run in tandem, facilitating the emerging use of online sourcing by consulting engineers, project managers, architects, mechanical and electrical contractors, domestic installers, and builders. To encourage dual-usage it will be extensively advertised in BSNews.

While the entire editorial contents are being listed verbatim free, advertising slots are limited to sponsorship of each of the major market segments, with the advertisements appearing on every single page within that relevant section. Additionally, one click on the advert will provide an instant link to the advertiser's own website.

If you are interested in sponsoring any of the major category sections, contact Joe Warren at Tel: 01 - 288 5001; Fax: 01 - 288 6966; email: joe@pressline.ie
The Vokera Mynute.

Just because it's a small boiler, it doesn't mean the Vokera Mynute isn't up to some pretty major tasks.

For instance, by linking two or more Vokera Mynute system boilers together, it's possible to meet the heating requirements of larger homes and buildings.

The Mynute offers other big advantages, too. With all the components in one case, there's no need to go to all the trouble of installing expansion tanks, separate pumps and all the necessary pipework.

You don't have to waste any time assembling separate components either. The circulating pump, safety valve, by-pass, automatic air vent and expansion vessel are all built-in.

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 95,536Btu).

Add a superb back up service and customer support, delivered by Vokera's own team of directly employed engineers, and small wonder the Mynute is making such a big impression.

To find out more, send the coupon or call Vokera Ireland sales department on 056 55055.
Heatmerchants — Driving Forward the Merits of Energy Efficiency

Heatmerchants/Gas & Oil Parts can now offer a boiler and fire that far exceeds the efficiencies of yesteryear. The Baxi Barcelona Condensing Boiler and the Focal Point Centurion Flueless Fire now offer efficiencies of 90.7% and 100% respectively. “These efficiencies are in stark contrast to the 80% and 50% efficiencies of other brands”, according to a company spokesperson. Focal Point Fires has spent two years developing a flueless gas fire, which is having a profound effect on the market. The Centurion is an inset fire with an output of 3kw and an efficiency of 100%. CE-marked by BG technology, the fire incorporates a patented catalytic converter, which reduces the CO content of the combustion products to zero. The catalytic converter has a life expectancy in excess of 11,000 hours of use. Based upon average daily use this represents approximately 10 years of normal operation. For extra peace of mind the catalytic converter is covered by a 5-year warranty scheme.

Conventional fires require a flue or chimney and consequently energy is wasted. As the Centurion does not require a flue or chimney all the heat is distributed into the room and, therefore, none is lost up the chimney, resulting in 100% efficiency and lower running costs of approx. 5.5p per hour.

The Centurion will assist in neutralising airborne particles which are present in the home such as cooking odours, cigarette smoke, and dust mites as found in carpets, fabrics and furnishings, creating a cleaner and friendlier environment.

Focal Point states in its instructions that the Centurion can only be used in a room with a volume not less than 40 cubic metres. In old fashioned money this equates to a room 14ft x 14ft and 7ft 6ins high. Permanent ventilation of not less than 100 sq.cm. is also a must, although it is clear from its tests that there is a substantial margin of safety with the volume and ventilation figures that have been approved as part of its CE markings.

High-efficiency boilers have become an increasingly viable alternative for installers for both new systems and replacement boilers ... not only are they reliable and suitable for a wide variety of household applications, they are easy to handle, straightforward to install and now priced to compete in this competitive boiler market.

As market leader in the high-efficiency sector, Baxi has been a key player in driving forward the merits of energy efficiency to both installers and end users. The Baxi Barcelona high-efficiency condensing boiler — which operates at one of the highest seasonal efficiency ratings of 90.7% — is fully modulating between 30,000Btu - 100,000Btu. It is suitable for a wide range of domestic applications, from a small 2-bedroom flat to a large detached executive home, and can reduce household bills by up to 12%. It comes preset for 30,000Btu - 80,000Btu, but can be adjusted on site to 100,000 Btu.

Sleek in appearance, the boiler features a rugged cast aluminium heat exchanger, revolutionary ceramic burner and advanced microprocessor. Compared to a standard boiler, this ensures that the Barcelona...
The range is also easy to install. The Baxi Barcelona features the popular “ledge and latch” fixing, ensuring a fast, easy installation with all servicing from the front.

A network of Baxi service engineers are now in place countrywide, offering prompt aftersales service, and technical backup.

For a home heating package that offers the latest technology, lower running costs, environmentally-friendly, value-for-money, and an effective after sales service, then visit one of Heatmerchants 15 branches countrywide for more information and prices.

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Get Online with the BSNews Buyer Guide

In response to reader demand following publication of the current edition of the BSNews Buyer Guide, it will go live online shortly. It is not intended as a replacement for the printed edition, but rather as a complementary electronic edition. As such it is a mirror-image of the printed version, the navigation process being identical and involving just three “clicks” to find that product.

Both publications will run in tandem, facilitating the emerging use of online sourcing by consulting engineers, project managers, architects, mechanical and electrical contractors, domestic installers, and builders. To encourage dual-usage it will be extensively advertised in BSNews.

While the entire editorial contents are being listed verbatim free, advertising slots are limited to sponsorship of each of the major market segments, with the advertisements appearing on every single page within that relevant section. Additionally, one click on the advert will provide an instant link to the advertiser’s own website.

If you are interested in sponsoring any of the major category sections, contact Joe Warren at Tel: 01 - 288 5001; Fax: 01 - 288 6966; email: joe@pressline.ie
DOMESTIC BOILERS & BURNERS

Compact System by Name —
System Compact by Nature

New to Glow-worm’s System boiler range, is one of the smallest boilers ever launched to the Irish market ... up to 40% smaller than its competitors.

The two new Compact System 60 and 100 models feature fully modulating output up to 100,000 Btu/h and electronic ignition along with a whole array of features and benefits for the specifier, installer and the consumer.

The combination of high specification, small dimensions and competitive pricing of the Compact System models makes it one of the best value system ranges available.

Ease of installation and servicing, reliability, servicing and all round performance were the prime requisites for this innovative product.

It has been specifically designed for quick, trouble-free ‘installability’ with a high level of features and benefits for the installer and consumer.

Both models are suited to the overwhelming majority of sites and applications.

The Compact System features the following benefits: casing dimensions of just 700mm high x 450mm wide x 300mm deep; comprehensive, and telescopic, flueing options for maximum siting flexibility, including a standard rear flue from within the boiler casing; pre-fixing jig for site time savings; modern functional aesthetics with rounded edges and moulded instrument fascia cover; upward/downward pipe routing within the boiler casing; in-built automatic by-pass; zero compartment ventilation and optional electronic timer; automatic in-built frost protection; user controls which allows the consumer to set the heating temperature levels.

Glow-worm complies with Benchmark ... the industry initiative designed to improve installation, commissioning & security standards.

As with all Glow-worm products, the Compact System boiler is supported by Heatcall, Hepworth Heating's own 98% first-time fix service and after-sales organisation.

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