

3-1-2000

BS News

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Recommended Citation

(2000) "BS News," *Building Services Engineering*: Vol. 39: Iss. 3, Article 1.

doi:10.21427/D7SH8J

Available at: <https://arrow.tudublin.ie/bsn/vol39/iss3/1>

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et al.: BS News

*BSN*News

MECHANICAL & ELECTRICAL BUILDING SERVICES

MARCH 2000



The Boiler Industry Body

- ◆ **Boilers & Burners — 15-page special**
- ◆ **Ventilation Association — Membership Application Form**
- ◆ **Energy Show — Making Sustainable Energy Pay**
- ◆ **Integrated FM Management Services**
- ◆ **PHEX Ireland 2000 — Belfast & Dublin**

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- Boiler Feed

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BSNews*

MECHANICAL & ELECTRICAL
BUILDING SERVICES

ISSN 0791-0878

Published by:
Pressline Ltd,
Carraig Court,
George's Avenue,
Blackrock, Co Dublin.
Tel: 01-288 5001/2/3
Fax: 01-288 6966
ISDN: 01 - 211 2338/9
eMail: bsnews@pressline.ie

Editor: Pat Lehane

Advertisement Manager: Joe Warren

General Manager: Edel Burke

Origination and Design:

Pressline Ltd. Tel: 01 - 288 5001

Subscription: One Year — £30

Printed by: Kilkenny People.

© All editorial contents and all
advertisements prepared by the publishers,
Pressline Ltd.

* Incorporating Irish Heating & Ventilating
News.

Readership Data

Irish Building Services News (formerly Irish H&V News) is Ireland's only Building Services magazine providing coverage of heating, ventilating, air conditioning, refrigeration, sanitaryware, plumbing, maintenance and environmental industries. It is the only publication catering exclusively for these industries and its circulation includes members of the following:- Chartered Institution of Building Services Engineers (CIBSE);

The Mechanical Engineering & Building Services Contractors' Association (MEBSA); The Association of Consulting Engineers of Ireland (ACEI); The Mechanical Engineering Contractors' Association; The Institute of Domestic Heating Engineers (IDHE); The Registered Heating Contractors Association; The Maintenance, Energy & Environmental Technology Association (MEETA) which incorporates energy managers and maintenance managers; The Energy Conservation & District Heating Association; The Institute of Plumbing; The Irish Home Builders Association (IHBA); Builders Merchants/Trade Supply Outlets; Irish Property & Facilities Managers Association.

In addition, Irish Building Services News circulates to independent building services contractors and key executives in industry. Government, Semi-State and local authority bodies. Essentially, our circulation is virtually saturation coverage of all those with an interest and/or involvement in the industry.

RIBEC – The Boiler Industry Body

The need to improve the quality of service being provided to boiler users and to regulate the boiler services industry has long been recognised. Consequently, a group of interested parties from the services industry and boiler users have been working with the Irish Energy Centre for the past two years. This group has now set down the groundwork for the establishment of a non-profit making, independent body – called The Register of Irish Boiler Engineering Contractors (RIBEC) – which will help realise these aims.

RIBEC will be a joint initiative between the boiler services industry, boiler and ancillary equipment suppliers, and boiler users.

It will promote the safe and efficient installation, maintenance and operation of boilers to architects, specifiers, insurance companies, service contractors, facilities managers, plant operators, and building owners. RIBEC will operate as an independent, authoritative body with all members abiding by a regulatory Code of Practice. RIBEC will offer benefits to all interested parties, including the Government which is charged with reducing Greenhouse Gas emissions.

RIBEC Membership Benefits

- ☐ Improved plant reliability;
- ☐ Service Industry regulation;
- ☐ Code of Practice for the service industry;
- ☐ Guaranteed quality of service;
- ☐ Improved safety in boiler plants;
- ☐ Improved plant efficiency/energy cost savings;
- ☐ Certification of service engineers;
- ☐ Technical training/information;
- ☐ Traceability of modifications to boiler plant;
- ☐ Arbitration in cases of dispute;

Over the coming weeks you may be contacted by a member of the RIBEC Steering Committee for your views, opinions, etc on this initiative. Please consider the presentation seriously and respond in a positive, constructive manner.

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I D H E N E W S

Millennium Ball Success

The recent IDHE Millennium Ball proved an exceptional success, the large turnout on the night enjoying entertainment and craic in abundance. As usual, this was provided by the local resident band and of course the star turn — the IDHE's very own cabaret machine — Gerry Marry and his Musical Director!

A feature of the IDHE dinners is the relaxed and informal atmosphere with speeches in particular being kept to a minimum. Chairman Jimmy Hamilton

did particularly well in this respect, acknowledging all those who deserved mention while, at the same time, keeping his address short and to the point. While there are many who contributed to the success of the evening, no one will begrudge a special mention for Phil Morley. Well done Phil.

Our photographer was also present and a cross-section of the photographs taken are reproduced here.



Left: Declan Kissane, Regina Walsh, Carol English and Karl Carrick, all of Hevac.

Right: Brian and Joan McTernan with Sean and Jenny McGinley, Heatmerchants, and John Lynch, Sentinel.



Left: Jimmy Hamilton, IDHE Chairman with Marie Hamilton; Shiela and Eamon McGlade; and Philomena and Paul Cleary, Bord Gais.

Right: Seamus and Noreen Murrin, DIT with Rita and Dave Harris, Harris Heating; and Una and Pat Walsh, Bord Gais.



Looking to the Future

In recent years the IDHE Committee has undertaken a significant review of the Institute with a view to upgrading the quality of the services provided. This process is now bearing fruit and is especially evident in education where Education Officer Joe Newman is spearheading a number of new developments.

Most notable, perhaps, is the IDHE website. This is now under construction and should be fully operational within three months. Kevin Farrelly has played a major part in this initiative and he will continue to oversee its future progress.

Joe Newman sees the website as an integral part of the IDHE education process and says that the contents of the site will be structured to provide educational and informative information to both the trade and the general public.

As for the more traditional education process, the strong links between the IDHE and DIT in Dublin, CIT in Cork and Fas are also under review, the objective being to further strengthen the relationships and current courses, and also to develop new courses.

In the meantime Joe appeals to contractors and suppliers alike to support the upcoming courses, especially the current 2-year Diploma Course. He can be contacted directly with all your education-related queries.

Contact: Joe Newman, IDHE Education Officer.
Tel: 087 - 245 7729.
email: jnewman@indigo.ie

Grundfos Teach-In Yields Results

The Grundfos education programme — a new initiative introduced by General Manager Gordon Barry earlier this year in response to customer demand — is proving extremely successful. To date there have been two teach-ins, the first of which covered seals, while the most recent dealt with speed control pumps and speed control booster sets.

This was a two-day event with two consecutive sessions held back-to-back over a Tuesday & Wednesday/Thursday & Friday. Approximately 15 people attended each session, the breakdown into smaller groups designed to ensure a more intimate, hands-on, workshop-type environment.

"The format proved extremely successful" says Gordon Barry, "the balanced presentation of theory and practical demonstrations on the four working models making for constructive and incisive feedback. Subjectmatter covered included installation, configuration, speed control and commissioning.

"Our recent One-For-One-Plus promotion on domestic circulators was also a tremendous success. It resulted in a double-digit increase in the sales of domestic circulators. Once the final returns are calculated at the close of the competition on 31 March, I'm confident that it will also reflect a significant increase in overall market share".



Kevin Ullinane, Associated Pumps, Cork with Val Corrigan, O'Brien International; Henrik Hamen, Grundfos electronic specialist; and Chris Maher, Submersible Pump Services.



LEFT:
Liam McDermot,
Grundfos with
Michael
Brosnan,
Mechanical &
Electrical
Services Ltd,
Castleisland



Brendan Cantwell, Cantwell Electrical with Peter Andreucetti, Eurofluid; Paul Allen, Grundfos; Frank Nugent, Industrial Pumps & Process; and PJ Dore, Limerick.



LEFT
Ivan Knudsen,
Product
Business
Manager
Drives &
Controls

Integrated FM Management Services Market Set to Double in Size

High demand for integrated facilities management (FM) services from large US-based multinational firms has pushed revenues in the European market for integrated FM services to a level of US\$7.86 billion in 1998, the latest year for which figures are available.

A new study by Frost & Sullivan, the international marketing consulting company, forecasts the European integrated FM services market to accrue revenues worth US\$16.03 billion by the year 2005, mainly driven by the reduction of non-core services costs and increasing business flexibility. Growth is particularly strong in the building operation and maintenance and support service sectors, developed as a consequence of end-user preference for outsourcing "non-core" soft services.

Richard Jackson, Research Analyst at Frost & Sullivan, identifies a number of factors driving growth in the European integrated FM services market. These include corporate restructuring, corporate image, the impact of trade unions, and improvements to building technologies.

Moreover, Frost & Sullivan's study identifies increasing opportunities from public sector sources such as healthcare agencies, as well as substantial growth potential in private sector demand across Continental Europe. The private sector represents the dominant end-user group in the total European integrated FM management services market, currently accounting for just over 71% of revenues.

In terms of revenues, the

outsource their "non-core" soft services. This growth is expected to continue in the foreseeable future, although the study anticipates growth rates to experience a decline towards the end of the forecast period. Cost effectiveness and company priorities are two key factors impacting the support services market.

Meanwhile, the market for property management services is forecast to see significant growth as companies look to rationalise their corporate structure, thereby increasing business adaptability and flexibility. Changing technology and design, coupled with the need for transient tenureship, are providing impetus for growth in the property management services market.

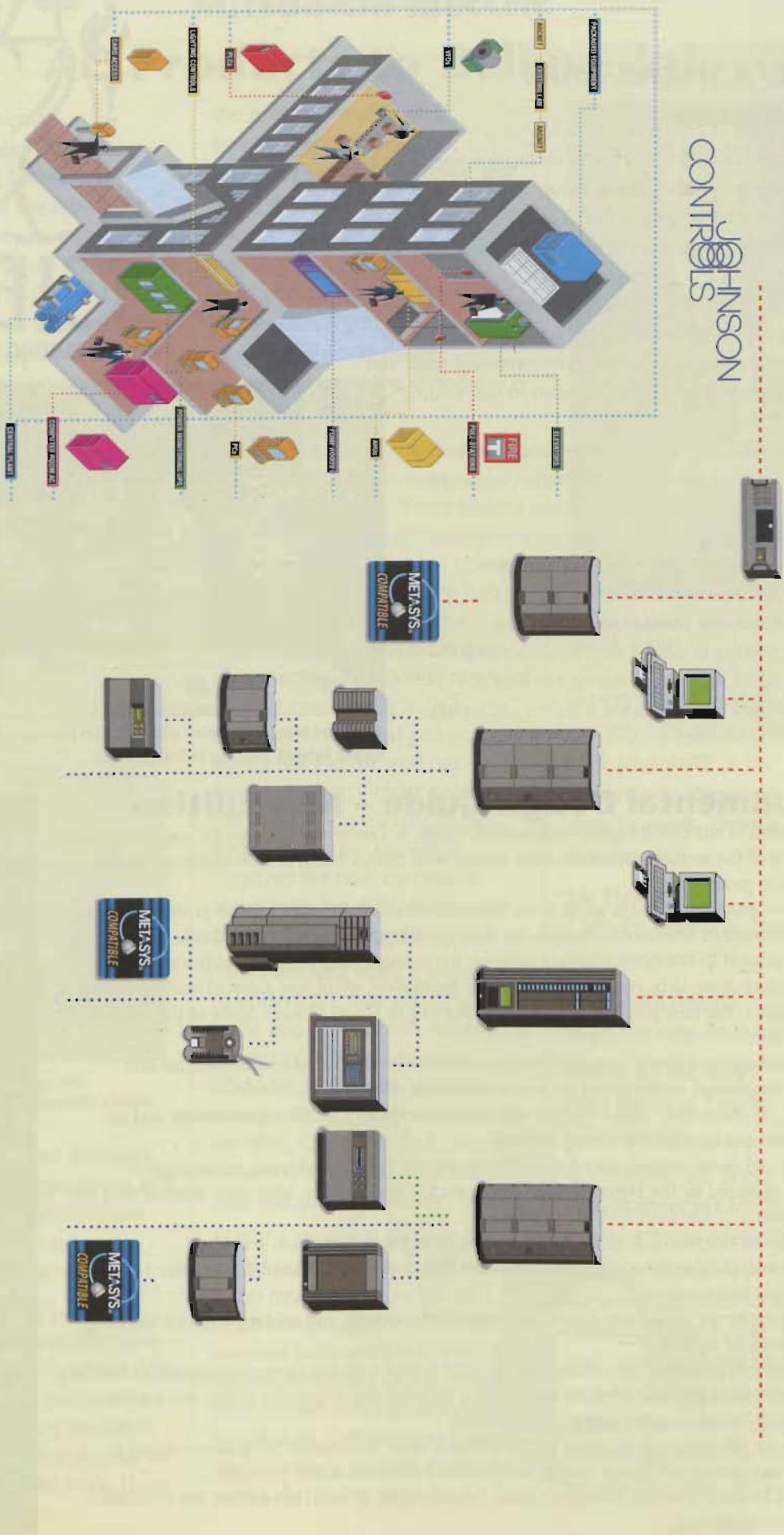
The key players in the integrated FM services market, according to the report, include Johnson Controls, Serco Group, Building & Property Group, Elyo, and Dalkia.

Facilities Management market segments under discussion in Frost & Sullivan's study include Building Operation and Maintenance; Support Services; Environment Management; IT & Telecommunications; and Property Management.

The European integrated FM services market will accrue revenues worth US\$16.03 billion by the year 2005, mainly driven by the reduction of non-core services costs and increasing business flexibility

European market segment for building operation and maintenance is leading the field, accounting for 33/2% of total revenues in 1998. Driven by the reduction in operating costs, Frost & Sullivan predicts this market to continue to grow throughout the remainder of the forecast period.

The European market for support services has witnessed dramatic growth over the last few years, reflecting the willingness of businesses to

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CIBSE/ASHRAE Joint Conference

The promotion of Dublin as a tourist destination was given a major boost recently when Brian Homan and Jim Curley attended the ASHRAE winter conference in Dallas and promoted the Joint CIBSE/ASHRAE Conference scheduled for 21 to 23 September 2000.

The conference, entitled "20 20 Vision", sets out to review the current state-of-the-art HVAC design; compare international developments; monitor progress on environmental goals, and provide a glimpse of future developments in the building services industry.

Brian Homan, Chairman of the Republic of Ireland CIBSE/ASHRAE Conference Sub-Committee, addressed the ASHRAE banquet held in conjunction with the Dallas Conference, extending an invitation to the 700 plus present to attend the Dublin Conference.

A small product exhibition will also be held in conjunction with the Dublin Conference. Any companies wishing to exhibit should contact Brian Homan at Tel: 01 - 280 5666; Francis McNulty at Tel: 01 - 296 0640; or Jim Curley at Tel: 01 - 671 1500.



Brian and Margaret Homan pictured with Janet and Jim Curley at the recent ASHRAE meeting in Dallas, Texas.

Environmental Design Guide – New Edition

The new edition of the CIBSE flagship publication, Guide A: Environmental Design, has just been published. All of the sections have been fully revised with the inclusion of new recommendations and calculation procedures.

The new environmental design guide is the essential reference document for all professionals in the built environment who have a concern for how a building will be used. The Guide gives extensive treatment to the fabric interface between the external environment and the internal parameters which have to be considered such as air infiltration, plant size, internal heat loads and moisture transfer. The new guide adds to the previous one in a host of ways. Some of the important changes include:

- The previously-used single "comfort" temperature has been replaced by summertime and wintertime temperature ranges based on percentage mean vote (PMV);
 - New sections have been added dealing with indoor air quality, air filtration strategy and the electromagnetic and electrostatic environment;
 - The cold and warm weather data for the UK have been fully revised using meteorological information provided by the Meteorological Office for the period 1976- 1995 with detailed data for eight locations;
 - A selection of international heating and cooling design temperatures is provided;
 - Detailed solar data and cooling load tables have been included in three UK locations: London, Manchester and Edinburgh;
 - Tables of predicted irradiances, based on computer algorithms, and cooling loads for latitudes 0 - 60° are provided on disk;
 - More detailed calculation procedures are included to deal with the thermal properties of building structures and particularly for windows and glazing, for solid and suspended floors, and for the calculation of U-values for basement walls and floors;
 - Methods for calculating infiltration and ventilation rates. A computer programme listing is provided for calculating air change rates in single zone enclosures is also provided.
- Contact: Ken Butcher, Editorial Manager, CIBSE. Tel: 0044 208 6755211; Fax: 0044 208 6733302; email: kbutter@cibse.org

CIBSE Charity Appeal

The CIBSE/BSNews Millennium Jubilee Appeal in aid of third world charities Concern, Goal, Self Help and Trocaire yielded a total of £3,540. The charities have asked us to pass on their thanks to the contributors to this appeal.

Mitsubishi Electric AC Products to Believe In!

During a dealer presentation in Paris recently, Mitsubishi Electric unveiled the latest in a long line of innovative and progressive initiatives with the announcement of the new Mitsubishi Electric Quality Mark which will be supported by a £3 million marketing investment. Scheduled to appear on all air conditioning products, packaging and point-of-sale material throughout the coming year, the new MQ Mark is intended as confirmation and further assurance for consultants,



Michael Sheehan, Manager, Air Conditioning Division, Mitsubishi Electric

architects, contractors and end-users that they are specifying and installing products which have been developed, tested and manufactured to the most exacting standards.

"We have always taken the view that our customers — whom we view as our trading partners — deserve the best", say President Fergus Madigan. "In doing so we continuously strive to bring them

the most innovative and technologically-advanced product portfolio. However, that is but one part of the equation. Equally important is the selling out process ... the support mechanisms which confirm and underwrite, if you like, the quality of the individual products. Hence the introduction of the MQ Mark".

Mike Sheehan, Mitsubishi Electric Air Conditioning Division Manager, concurs. "From the time Mitsubishi Electric sold its first ever air conditioning unit in Ireland in 1986, the name has always stood for innovative, quality products, supported by an equally quality-driven range of support services. As a consequence of that policy, Mitsubishi Electric and our trading partners, most notably our dealers, have experienced exceptional sales growth. Together we now command something like 40% of the Irish air conditioning market.

"The new MQ Mark is intended to underscore that standing, while also giving fresh impetus to the many new and exciting advances in each of our top-selling product ranges — such as Mr Slim, City Multi and Loosnay — which will come on stream over the coming months.

"On the technical support side a particularly exciting development is the new Mitsubishi Electric Centre of Excellence. We have invested substantially in this new technical training facility which incorporates fully-operational installed air conditioning systems incorporating working examples across the entire range."



Fergus Madigan, President Mitsubishi Electric Ireland

During the presentation in Paris recently Mitsubishi Electric also took advantage of the opportunity to present its annual dealer awards. There were as follows:—

Mr Slim Award

Clement Whiriskey, Whiriskey Refrigeration

City Multi Award

Brian Cooney, Reconair

Dealer of the Year

John Harmon, Harmon Air Conditioning

Concluding the presentations President Fergus Madigan thanked those present for helping Mitsubishi Electric achieve its success to date.

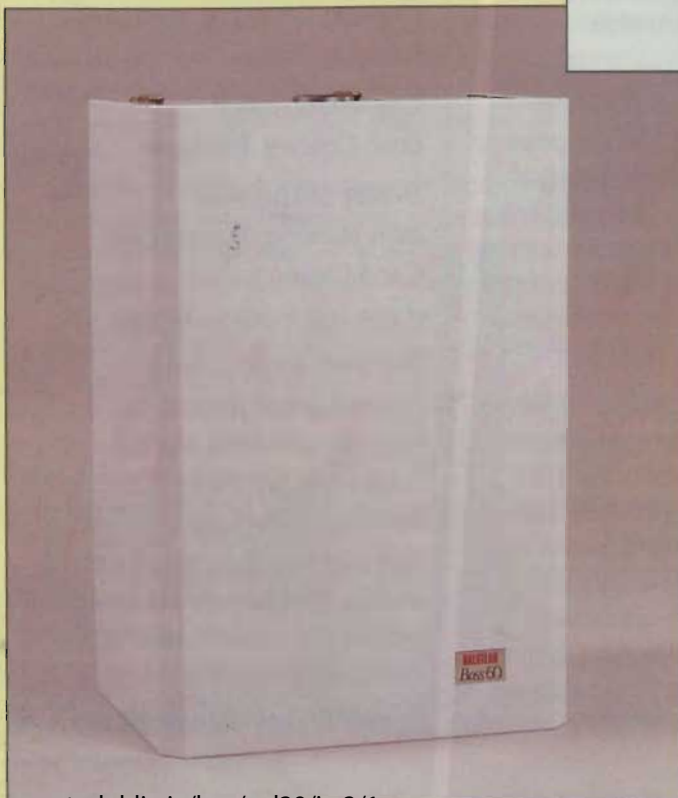
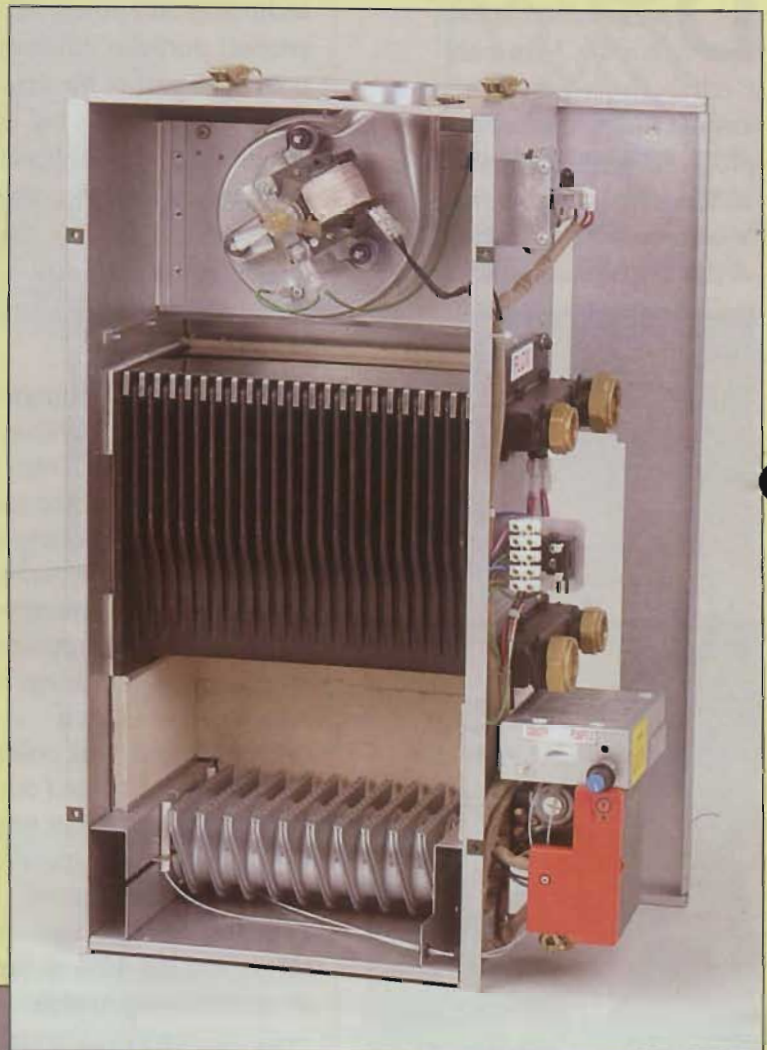
Looking to the future, he said that together, Mitsubishi Electric and its trading partners could sustain this market standing, concluding with the words ... "you ain't seen nothing yet!".

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Boilers – from Kyoto to the Kitchen

Isn't it amazing that, while global warming and the hole in the ozone layer have been topics of everyday conversation for quite some time now, we in the Domestic Sector have still not advanced greatly in the adoption of practices that will lessen the problem. Global warming, as we all know, is caused by our pumping large quantities of greenhouse gases into the atmosphere which are effectively insulating our world and allowing the temperature to rise very gradually.

The most common of the greenhouse gases is carbon dioxide (CO₂) which is produced in many ways, including the respiratory process of plants, animals and human beings. Nature in its own wondrous way provides checks and balances on the levels of CO₂ in the atmosphere, for example, by having plant life like trees effectively filter the air and turn carbon dioxide back into Oxygen (O₂) which is needed to sustain life.

The problems arise when the natural balance is disturbed. On one hand man is converting the rain forests into furniture and other products to enhance our earthly comfort, thus eliminating the check part of the equation. On the other hand we are equally hell bent on throwing the balance part of the equation out of kilter by burning enormous amounts of fossil fuels to heat our

world, operate our factories, and run our cars, etc.

As a lover of comfort who dislikes the damp cold weather we get in Ireland, and who delights in having a nice car, I am not advocating that we should turn back the clock and start wearing the hair shirt. We have come too far in the last 100 years to take a backward step now but, in going forward, we must all ensure that we are acting responsibly and accept our portion of the blame for what we have done to the world and contributing towards the solution. While this is perhaps a laudable aspiration, in the cool stark light of day we must realise that it is highly unlikely that this will happen.

In the last century we have developed bigger, better and more efficient means of extracting the earth's resources to fuel our ever-growing needs. We have moved a long way from having to dress warmly and huddle around the open fire to keep warm in winter. Central heating is now a pre-requisite in every home, and the thought of putting on an extra layer to ensure comfort is alien to most.

Congratulations boiler manufacturers

With all the technical advances we have made it is a disgrace, if not a crime, that for the most part we continue to get it wrong when it comes to central heating systems. In recent years, an EU Directive has ensured that more efficient boilers are now readily available on the market.

This is a very positive first step, and I am sure that, in years to come, the current limits for boiler efficiency will be revised upwards giving further scope for savings. All credit must be given to the manufacturers of domestic boilers who have responded to the challenge to improve their products. It is a great pity that when we went so far as to legislate on boiler performance that we did not go the whole hog and lay down ground rules for installation and control.

We have to go back about five years to get reliable statistics on how homes are heated in Ireland. Back in 1995 the housing stock stood at about 1.12 million homes, 816,831 of which had central heating. The number of systems by fuel type is indicated on Table A.

Since 1995 approximately 160,000 new homes have been built, and new build is running at over 40,000 homes per year. All of these



Virgil Bolger, Irish Energy Centre. Tel: 01 - 836 9080.

new homes will undoubtedly have central heating systems using one or other of the above fuels. These, coupled with homes where central heating has been replaced and or installed as a retrofit, will swell the number of homes with central heating to over one million.

What amazes me is that despite all of the technical wizardry and know-how available, you can still walk into practically any showhouse around the country and find that, apart from a cheap time clock and boiler thermostat, there is no other form of control on the central heating system. It also amazes me that thermostatic radiator valves are considered to be an optional extra rather than the norm in every system.

One could also ask whatever happened to the good old reliable room thermostat? If this is still happening with new build despite the fact that the Building Regulations specify that controls must be installed, what must the rest of the heating systems stock be like? Do we really think we are doing our customers any favours by trimming the costs of the

TABLE A

Fuel Type	No. of Systems
Gas Oil/Kerosene	298,525
Natural Gas	166,892
Solid Fuels	243,286
LPG	12,928
Electricity	25,857
Other or mixed	69,342

B O I L E R S A N D B U R N E R S

system at the expense of the controls?

In the last few weeks I was asked by a concerned friend to look at a system for an 87 year old lady who was deeply unhappy with her new gas fired heating system. The system was installed on a Thursday/Friday and by Sunday had the owner not just in a sweat, but practically unable to get out of bed through dehydration. She did not know how to operate the time clock and there was no way to regulate the temperature other than at the boiler.

Not only was she left with a system that she

could not control; insult was added to injury by the fact that the boiler was installed in her hot-press so she would have to find some other place to air and store her laundry.

Surely the time has come when we should be looking at the bigger picture, and educating customers about what is available to them. How many heating engineers will take the time to sit down with their customers and explain how their new heating system should be controlled, and how a small initial outlay will improve the performance of the system, and ensure cost-effective comfort in the home. Over

the life time of a system it will consume fuel costing five or even six times more than the installation cost. Controls will pay for themselves in less than two heating seasons, and will save the installation cost of the system over its lifetime.

We spend over £160 million per year on oil and gas for our domestic heating systems and we are pumping over 1.2 million tonnes of CO₂ into the atmosphere. Good control could easily save 10% to 20% of this, resulting in a reduced national annual spend of £16 to £32 million, and a reduction in CO₂ emissions of 120,000 to 240,000 tonnes.

If we are to meet our Kyoto commitments, and if we are to leave anything worth having to those who come after us, then the time has surely come to start taking our responsibilities seriously. We must take positive action to ensure that systems are installed in such a way as to at least comply with Building Regulations. We must educate consumers and we must include control facilities in every package as the norm, not as optional extras. In fact I would go so far as to say that if we are not including controls we are breaking the law.

Riello Boilers from C&F Quadrant

Riello Burners need no introduction to the building services industry.

Renowned the world over as one of the foremost burner manufacturers, Riello burners lie at the heart of all manner of commercial and domestic heating systems.

Riello 40 typifies the strengths of the comprehensive range, and the many benefits provided. Brief details of this portfolio – which can be divided into the following categories – are as follows:-

Riello 40: gasoil and kerosene versions – The new Riello 40's are

without doubt among the best burners that modern design techniques, wedded

to advanced technology, can offer. There are six gasoil models, carefully range-rated and covering firing rates from 10,000 to 200,000 kcal/h

Riello 40: blown gas version – This series

comprises four models which cover an output range of 9,500 to 200,000 kcal/h;

Riello 40: dual fuel version – Developed for the commercial burner market, the two models that comprise this range

cover firing rates from 35,000 to 170,000 kcal/h;

Riello 40: special applications – This special version of Riello 40 fuel oil burners includes three models with firing rates going from 25,000 to 170,000 kcal/hr.

Contact: John Duignan, C&F Quadrant.
Tel: 01 - 626 4917;
Fax: 01 - 626 3251;
Email: sales@CFQuadrant.ie



Left: Riello 40 burner – full range from C&F Quadrant

Number One in Central Heating



Potterton Myson (Irl) Limited

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MYSON

BOILERS AND BURNERS

Baxi Boilers from Heatmerchants

Heatmerchants branches located in prominent areas of Athlone, Bray, Cork, Dublin, Kilkenny, Limerick, Navan, Sligo, Tralee and Waterford are sole distributors of the Baxi boiler range in the Republic of Ireland. Baxi are one of the UK's leading manufacturers of gas central heating boilers with a turnover in excess of £100 million. They recently acquired the Blue

Circle company who have extensive interests in the boiler market, as well as having acquired the assets of Italian heating company Ocean Idroclima SpA for a consideration around £80 million last year.

Ocean manufactures gas fired boilers, radiators, electric water heaters and bathtubs in two factories in Italy. Since the amalgamation of Baxi and Ocean, Baxi has become

the fourth largest boiler manufacturer in the UK, with a turnover of £200 m.

Brian Gray, Chief Executive of Baxi, said of the Ocean acquisition: "This has been an excellent opportunity for Baxi. The deal has given us much stronger geographical position and a wider range of products. It has also provided Heatmerchants with new opportunities to sell an even greater range of system boilers, combination boilers, and gas fires 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 10 back boilers sold bear the Baxi Bermuda name — and the convector market, the Baxi Brazilla range being 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 boilers sold. The high specification of 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 environmental-friendly boiler called the Barcelona.

A new Ocean Luna boiler with 80,000 btus is due to be launched in April. Check your local branch for details.

Heatmerchants is pleased to inform customers that, due to the amalgamation of Gas & Oil Parts who have two Dublin outlets — Glasnevin and Rialto — the company has a direct Baxi spare parts back-up service for all customers.

Contact: Your nearest Heatmerchants branch:-
Athlone

Tel: 0902 - 72730;
Fax: 0902 - 72762;

Bray

Tel: 01 - 211 6180;
Fax: 01 - 286 4769;

Little Island, Co Cork; Turners Cross, Co Cork

Tel: 021 - 968134;
Fax: 021 - 317760;

Dublin 22

Tel: 01 - 630 4306;
Fax: 01 - 630 4307;

Kilkenny

Tel: 056 - 62244;
Fax: 056 - 21209;

Limerick

Tel: 061 - 311206;
Fax: 061 - 413708;

Navan, Co Meath

Tel: 046 - 72900;
Fax: 046 - 72901;

Newbridge (new store opening late 2000);

Sligo

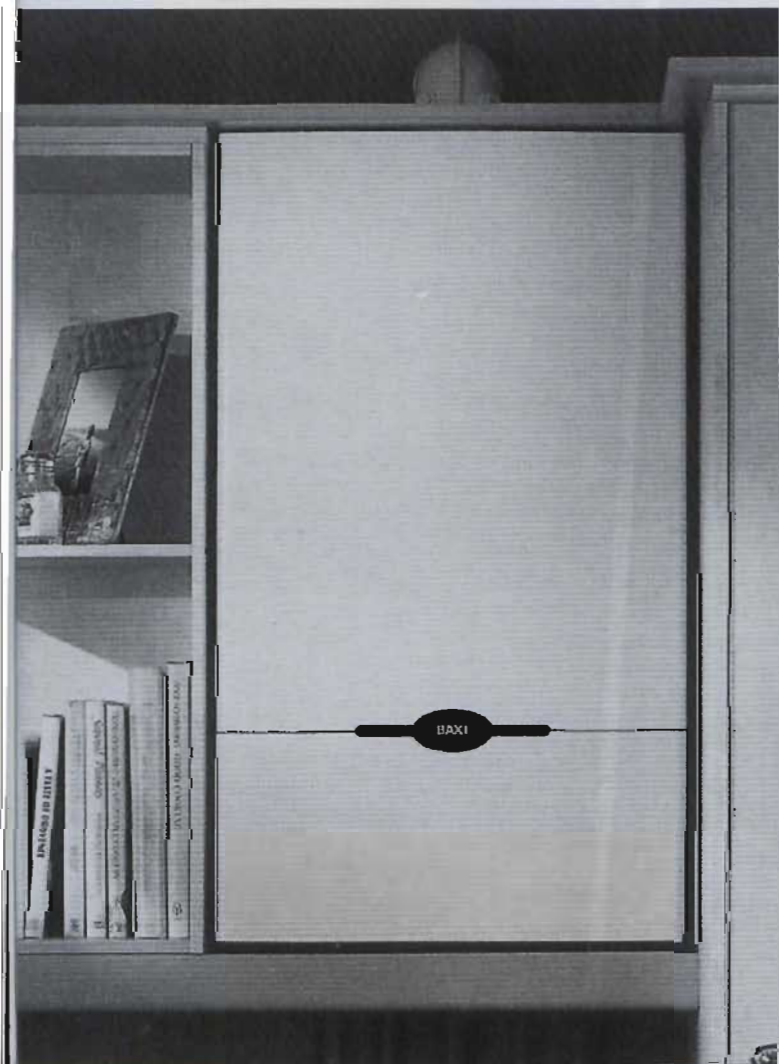
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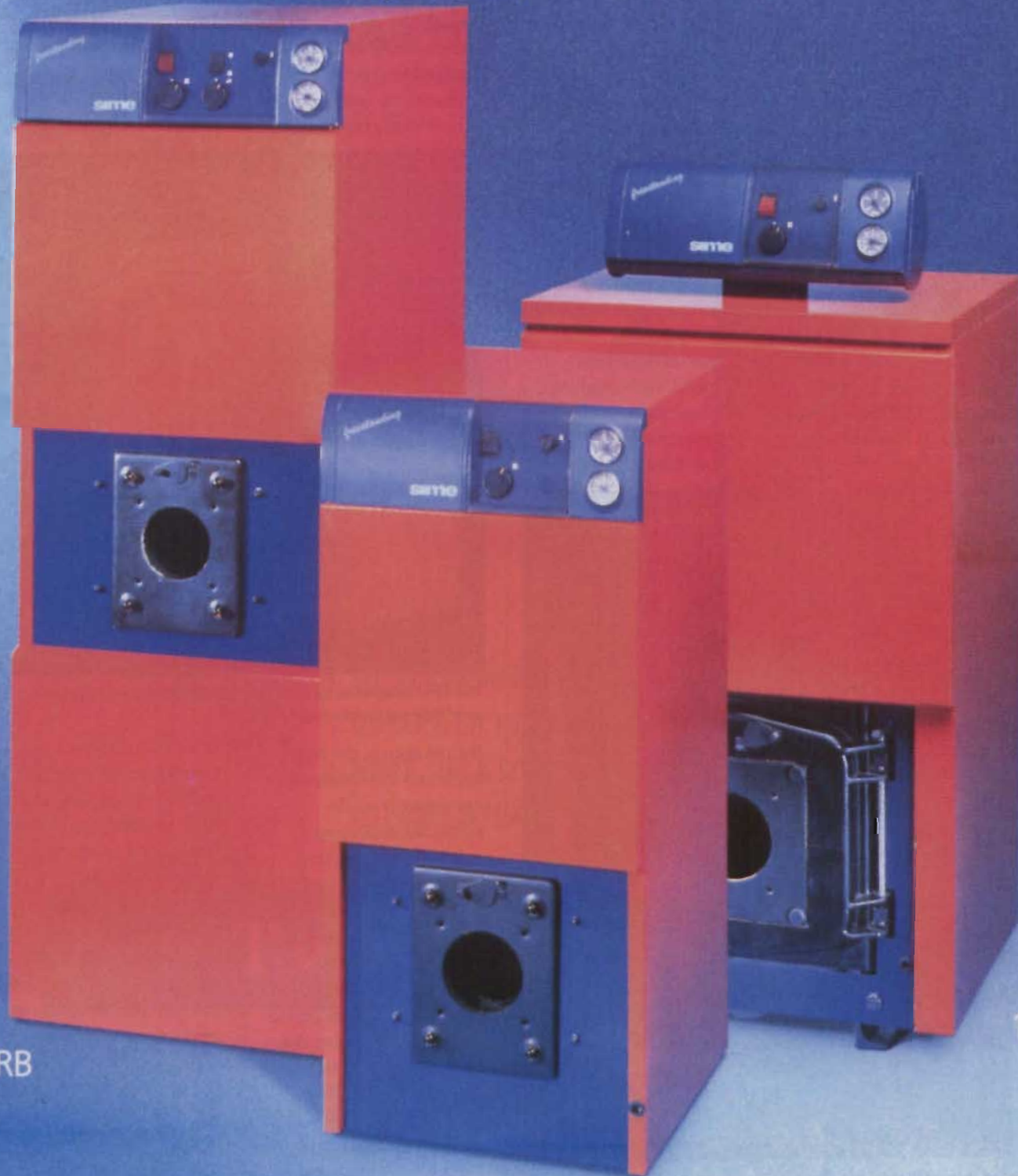
The Baxi Bahama from Heatmerchants

SIME cast-iron boilers are recognised for their safety, endurance, energy savings and reliable performance, most of them still working perfectly here in Ireland after **25 years!**

They are designed and built in accordance with the European Directive CEE 92/42.

The cast iron body is **guaranteed for 12 years** against leaks, faults or defects on the strict understanding that installation and operation procedures have been carried out in accordance with the manufacturer's instructions and installation is by appropriately qualified parties to approved codes and practices.

SIME works while respecting and protecting the environment.



ARB

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1R-2R

BOILERS AND BURNERS

SIME Boilers ... with a Cast Iron Guarantee

Sime gas and oil-fired cast iron boilers are recognised in Ireland for many years for their safety, endurance, energy savings and reliable performances. They are designed and built in accordance with the European Directive CEE 92/42. Each casting undergoes very severe laboratory testing to guarantee a product with outstanding performance.

Hevac Ltd, who is Sime's exclusive agent in Ireland, has been selling the quality cast iron boilers into the Irish market for over 27 years and is proud of the fact that many of the

original boilers installed are still in operation today. Sime cast iron boilers have proven over the years to represent exceptional value for money. Such is Hevac's confidence in the quality and reliability of Sime boilers that it continues to offer an unprecedented 12-year "Cast to Last" guarantee.

There are many models available, in both gas and oil, with outputs from 17kW to 279kW.

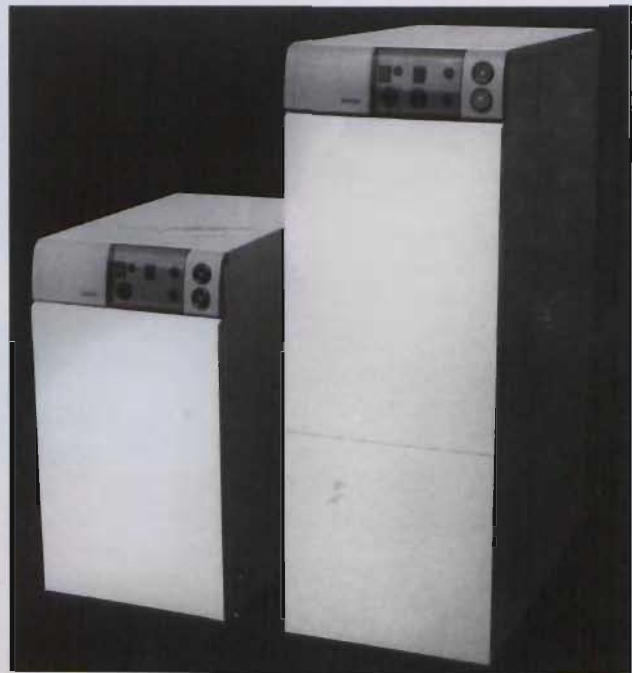
Sime oil boilers are equipped with complete and functional instrumentation, and can be combined very easily

with the most widely-used burners. To provide maximum operating safety the controls are protected by a door to prevent any accidental tampering.

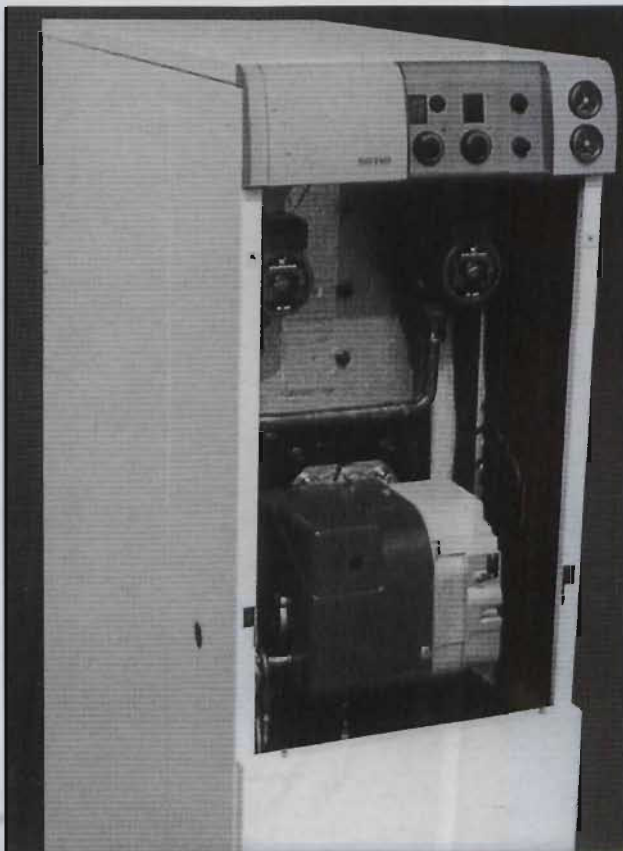
The special configuration of the chamber optimises

are two outputs available – 30kW and 40kW – and a hot water storage capacity of 100 litres. The units include many features, including a continuous DHW flow rate at 30°C of 840 litres/hour.

Hevac's considerable success with Sime boilers is based on a simple strategy of providing quality products complemented by



The Sime integrated oil fired cast-iron boilers for central heating and DHW production from Hevac



Cut-away section of the boiler

the radiance of the burner flame and the combustion gas convection. The enhanced insulation reduces radiance losses, while increasing silent operation at the same time. There are savings also in the maintenance and cleaning operations due to the reversible hinge on the combustion chamber door on the 1R and 2R models.

Sime recently launched the Aqua integrated unit – an oil-fired cast iron boiler for central heating and DHW production. There

an equally quality-conscious service support structure comprising ex-stock availability across the range and a complete range of spare parts.

It is the intention of Hevac and Sime to launch many new products into the range over the coming months. Further details are available upon request.

Contact: Karl Daly or Declan Kissane, Hevac Ltd.
Tel: 01 - 830 1211;
Fax: 01 - 830 1990;
email: karld@hevac.ie

Two Respected Names

One Reliable Source

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BOILERS AND BURNERS

Potterton Boilers Oil and Gas Boilers

Potterton provide a range of both 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 are aware that times have changed and have been proactive in moving with these changes. Twenty years ago a boiler's primary function was to heat the

home. Today a warm home is taken for granted and boilers must fulfil other requirements such as meeting people's increased hot water demands, while simultaneously maintaining energy efficiency. Potterton has designed a range of boilers that meet these modern-day householder's needs. These include the following:-

Oil Boilers – The Statesman

Potterton's Statesman range is a range of domestic indoor oil boilers.



Potterton Myson Statesman oil boiler

Combining modern design with ease of installation, the Statesman is compact enough to fit into most kitchen layouts. Some of its principal 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.

Gas Boilers – The Kingfisher Range

The Kingfisher range incorporates a range of floor-standing gas cast iron boilers, complete with a wide choice of outputs to suit the requirements of the family home. Some of

its features include:-

- A range of fanned balanced or fanned conventional flue systems;
- Compact size which facilitates a snug fit into vented cupboards or under worktops;
- 80% efficiency compared with 65% efficiency of older boilers;
- Outputs ranging from 40,000 to 220,000 Btu/h.

The Suprima Range

The Suprima range 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 Suprima boiler to suit any home. Some of the key features include:-

- Neat and compact enough to be sited in wall cupboards or other out-of-



Potterton Myson Suprima gas boiler

The Compact Combi range from Glow-worm. Fitting any other combi is just a waste of space!

Introducing the Glow-worm Compact - up to half the size of other combis we could mention!

With 2 ranges to choose from - electronic ignition and permanent pilot, 3 outputs up to 100,000 Btu/hr, together with comprehensive flueing options, the Glow-worm Compact is suitable for the majority of domestic heating and hot water requirements.

With its modern look and siting flexibility, both the Compact 'e' and Compact 'p' include a host of benefits designed to meet your installation needs. Such as:-

- One of the smallest combis available with top turret flueing
- Additional rear flue capability on Compact 'e' model allows for even more flexibility in siting
- Telescopic flueing - quick and simple installation with no flue cutting required
- Horizontal and vertical flueing options with a further twin flueing option available on the Compact 'e' range
- Zero compartment ventilation
- In-built automatic bypass
- Prefixing jig, allowing pre-plumbing and pre-wiring
- Upward and downward pipe routing within boiler casing for easier, quicker installation
- Optional electronic or electromechanical timers available
- Backed by Heatcall after sales service

So, the next time you need a combination 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.

Dimensions	Dimensions	Dimensions	Dimensions	Dimensions
Height 880mm (+ flue elbow)	Height 880mm (+ flue elbow)	Height 830mm (+ flue elbow)	Height 830mm (+ flue elbow)	Height 700mm
Width 480mm	Width 490mm	Width 450mm	Width 490mm	Width 450mm
Depth 380mm	Depth 370mm	Depth 360mm	Depth 320mm	Depth 300mm
VAILANT TURBOMAX VUV 24/28/28/2	POTTERTON PUMA/COMBI 100	WORCESTER 24/28 CDI	BAXI BAHAMA 100	

Compact 'e' model shown on rear flue installation



Tel: +353 1 626 5711 / +353 1 626 4917
Fax: +353 1 626 7863 / +353 1 626 3251



Hepworth Heating Ltd
A HEATPUMP & FLUE COMPANY

Tel: 01773 824141 Fax: 01773 828123
www.hep-heat.co.uk

"Wire Free" Control System for Under-Floor Heating



Using the Danfoss CFM Master Controller, the ABN-NC Thermal Motors modulate and control the flow through the manifold based on the CFR radio frequency Room Thermostat.

- ✓ Controls up to 12 circuits at any one time.
- ✓ Simple to install & control
- ✓ Change-over switch for night setback operation.
- ✓ Built-in battery back-up system in the event of power failure.
- ✓ "Wire free" Room Thermostat control is aesthetically pleasing, user friendly, simple to operate and an ideal control solution for heating applications (i.e. offices, domestic home/apartment, guesthouses, schools, nursing homes, etc).

Danfoss (Ireland) Ltd

Nangor Road Business Park, Dublin 12.
Tel: 01 - 626 8111; Fax: 01 - 626 9334
Email: sampson@indigo.ie

Danfoss - Insist on them by name!

BOILERS AND BURNERS

sight locations;

- Elegant-styled casing and durable stoved white finish;
- Wide range of flueing options which facilitate a greater choice of locations;
- Single control knob which enables ease of use.

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.

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: Natasha Prendergast, Marketing Executive, Potterton Myson (Irl) Ltd. Tel: 01 - 459 0870; Fax: 01 - 459 0880; email: post@potterton-myson.ie

Vokèra – Maximising Consumer Choice

Following the recent launch of the Linea Max floor-standing combi by Vokèra, the Linea range now offers a comprehensive choice for the consumer.

The range covers outputs from 9.3kW to 34kW, so whatever the heating requirement or size of property, Vokèra can provide the product to suit.

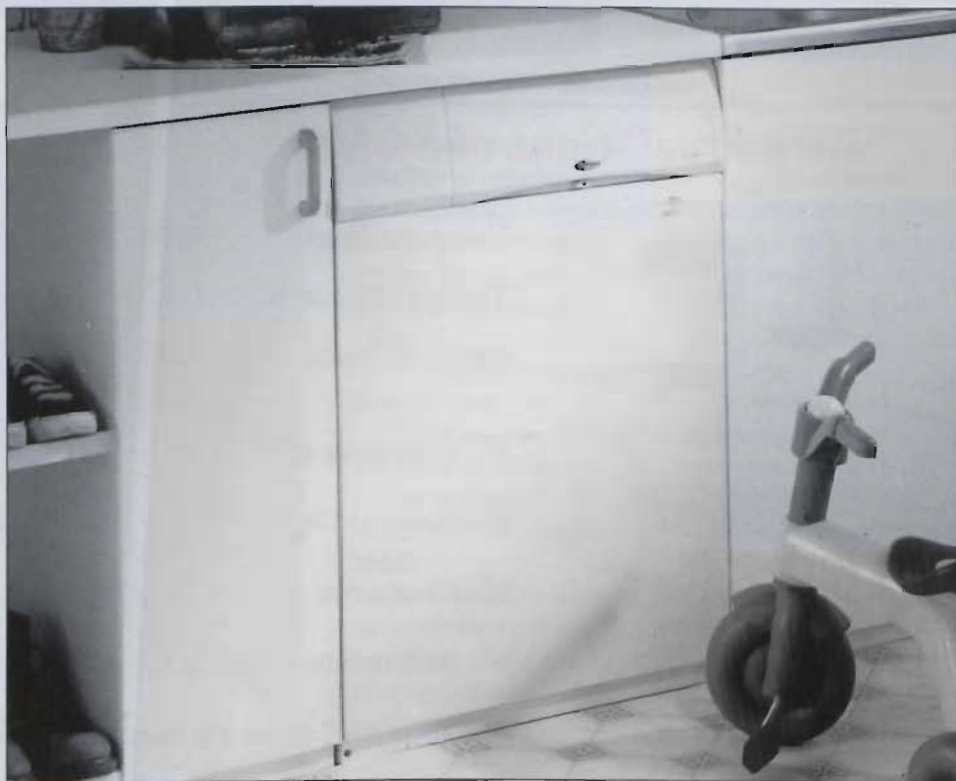
By combining a 58-litre "thermal store" with the normal operation of a

properties with two bathrooms.

The hot water flow rate of the Linea Max is 18 litres per minute (at a temperature rise of 35°C) until the thermal store is depleted, after which the continual running flow rate is the same as its sister products, the Linea 28. Alternatively, if the tap is turned off for approximately five minutes, the thermal store will be replenished and the boiler resumes its

system, the Linea Max can be installed almost anywhere in the home.

In addition, the Linea Max incorporates a number of energy-efficient features, including hot water pre-heat cycle which guarantees instant hot water delivery; an anti-cycle device which prevents wasteful on/off firing; and electronic ignition meaning no wasteful pilot light or permanently-running fan.



The Linea Max floor-standing combi from Vokèra Ireland

combi, the Linea Max is able to deliver 55% more hot water than combis with equivalent outputs ... enough to meet the hot water needs of larger

full performance of 18 litres per minute.

To ensure easy installation the Linea Max has a unique pre-plumbed "slide-in" system. With Vokèra's versatile flueing

Contact: Paddy Scriven, General Manager, Vokèra Ireland. Tel: 056 - 55055; Fax: 056 - 55060; email: margaret.glennon@Vokèra.co.uk

The Best Range from Halstead

The Halstead Best is a compact wall-mounted, fan-assisted, balanced-flue, natural gas boiler. For the installation engineer it is technically advanced, while quick and easy to install. The Best also incorporates a lightweight cast iron heat exchanger for efficiency and reliability.

Available with five range-rated outputs of 30, 40, 50, 60 and 80,000 btu/hr, all Best outputs feature automatic direct burner ignition and electronic temperature control.

A white finish to the flue assembly enhances the boiler's overall high-quality finish.

Located on top of the boiler, the flue turret facilitates multi-directional flue exits. With optional flue accessories, a maximum horizontal flue length of 20 mtrs can be achieved, or 18 mtrs vertically with kits. 90° and 45° bends further enhance the flexibility of the flue system.

The sealed system pod is an add-on kit designed to simplify the installation of the Best boiler in conjunction with a pressurised central heating system.

Contact: Alan Seery,
Plumb Direct.
Tel: 01 - 457 9030;
Fax: 01 - 457 9029.

The Best Range

❑ 30F, 40F, 50F, 60F, 80F

Suitable for the majority of heating requirements.

❑ Cast iron heat exchanger

Quiet in operation, on fully-pumped, gravity or pressurised systems.

❑ Fits inside a kitchen unit

The Best 30, 40, 50 and 60 will fit inside a modified kitchen unit.

❑ Fanned flue (round/telescopic)

Left, right, rear or vertical, easy siting.

❑ Electronic ignition

No pilot saves gas, fan does not run continuously.

❑ Standard components

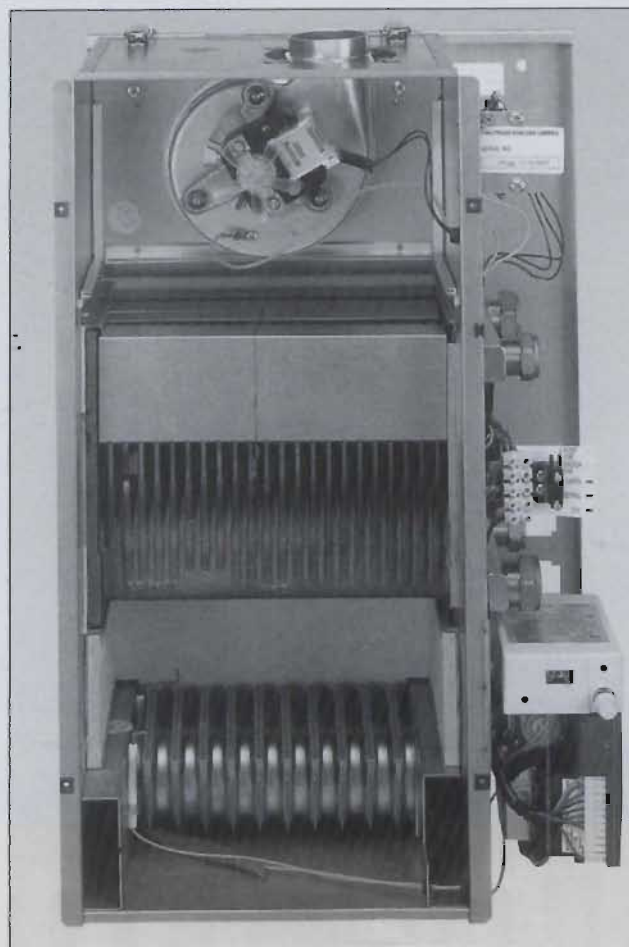
Easy servicing and spares availability.

❑ Competitive price

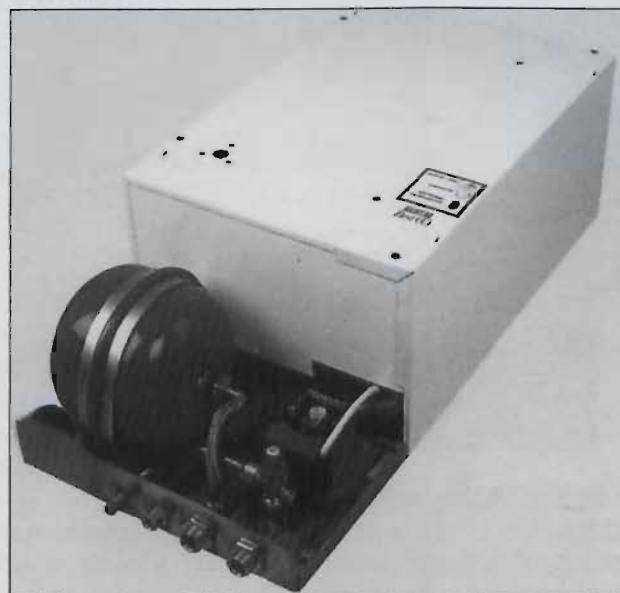
Excellent value for money.

❑ System pod available

Extra versatility for sealed systems.



Left: Cut-away of the Halstead lightweight cast-iron fan flue boiler from Plumb Direct.



Best System Pod

The Best sealed System Pod is an add-on kit designed to simplify the installation of The Best boiler in conjunction with a pressurised central heating system. This is particularly suitable for use with unvented hot water storage systems.

Boilers continued on page 22

MITSUBISHI ELECTRIC QUALITY

Mr. Slim. The Unanimous



Mr. Slim is Ireland's leading range of packaged split system air conditioning products, offering a huge choice of components and configurations for a wide range of applications, from restaurants and bars, to shops and offices - typical cooling capacity up to 28.4kW and heating capacity up to 26kW.

Wide choice - to fit your application precisely

With 14 ceiling cassettes, 6 ceiling suspended units, 10 wall mounted units, and 22 ceiling ducted units, there's a Mr. Slim model to provide the optimum "fit" for all your jobs.

Environmentally friendly options

The Mr. Slim range includes models using R407C ozone friendly refrigerant. It can also incorporate optional fresh air casements to help keep designated non-smoking areas smoke-free.

Excellent control features and options

Mr. Slim puts you in control with a wide choice of control configuration options, via one or multiple controllers, and all models can be interfaced to Building Management Systems.

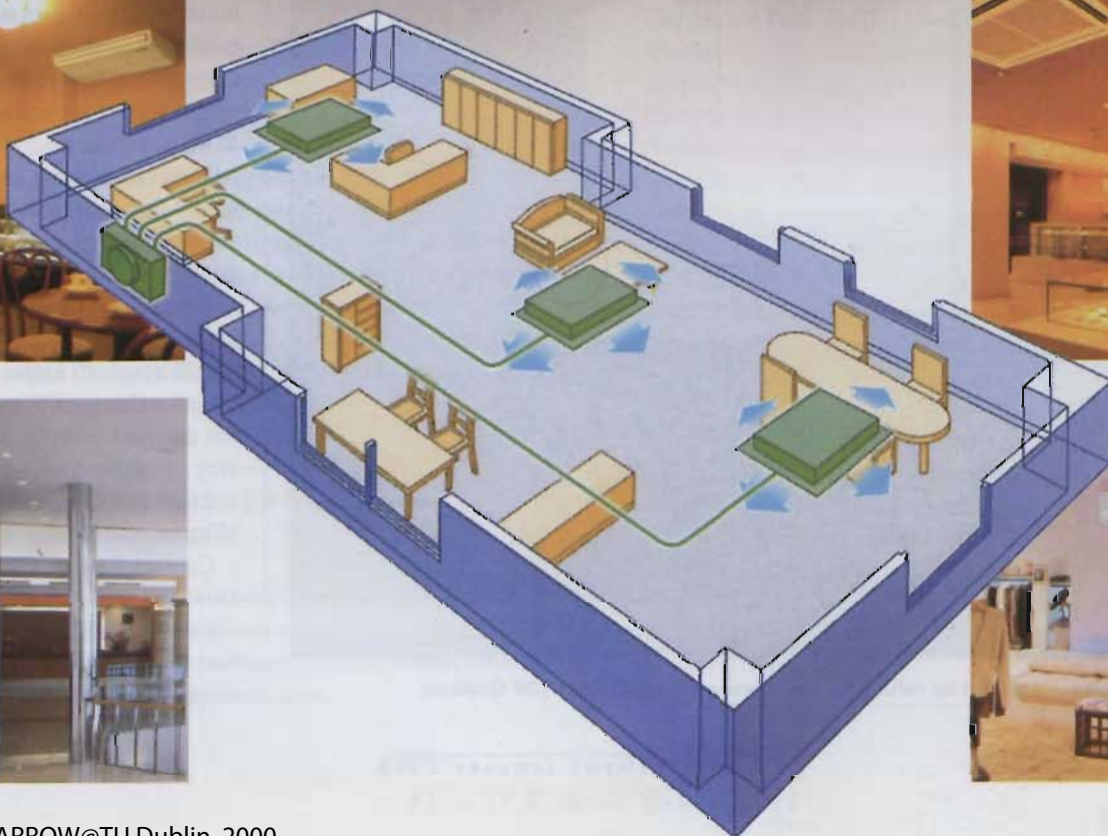
Whisper Quiet

Advanced fan design has resulted in class-leading noise levels down to just 31dB(A).

For further information on the Mr. Slim range contact:

Freefone 1800 333 600

Split Decision.



BOILERS AND BURNERS

Compact By Name, Compact By Nature ... the New Combi Range from Glow-worm

New from Glow-worm is the Compact, one of the smallest combination boilers to be launched to the Irish market. This is up to half the size of similar-capacity competitors' models.

The six-model range offers both permanent pilot and electronic ignition in domestic hot water outputs of 75, 80 and 100,000 Btu/h, along with a whole array of features and benefits for both the

installer and the consumer.

The combination of high specification and small dimensions of the Compact has been designed to make a big impact in the combi sector.

John Duignan of Irish distributors C&F Quadrant says:- "Ease of installation, 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 merchant, specifier, installer and the consumer. The compact is suitable for the hot water and heating requirements for the overwhelming majority of domestic installations".

Common features to both the permanent pilot and electronic ignition 75 100 models are: casing dimensions of just 700mm high x 450mm wide x

300mm deep; comprehensive, and telescopic, flueing options for maximum siting flexibility; pre-fixing jig for site time savings; modern functional aesthetics with rounded edges and moulded instrument fascia cover; upward pipe routing within the boiler casing; in-built automatic by-pass; zero compartment ventilation; and optional electronic and electro-mechanical timers.

The Compact permanent pilot models have combined heating and hot water heat exchangers (guaranteed for 12 months); reduced terminal siting clearances; and room thermostat capability of 230 volts.

The electronic models of the Compact have electronic direct burner ignition; a separate DHW plate heat exchanger with a 5-year guarantee; an equal heat output for both heating and hot water for maximum flexibility; in-built frost protection; anti-cycle device; user controls which allow the consumer to set hot water and heating temperature levels; user-visible diagnostic to show the boiler's operating conditions.

Combine all this with low lift-weight (under 34kg for Compact 'P', under 32kg for Compact 'E') and the compact provides a very attractive combi for installer and consumer alike.

Contact: Sales at C&F Quadrant.
Tel: 01 - 626 4917;
Fax: 01 - 626 3251;
email: sales@CFQuadrant.ie



Compact by name ... Compact by nature, the new Glow-worm combi from C&F Quadrant

Making Sustainable Energy Pay

The new millennium heralds a time of dramatic change for energy users and producers in Ireland. The opening of the electricity market offers new choices, new opportunities and new threats, while the Government's Green Paper on Sustainable Energy signals the national strategy required to meet our Kyoto greenhouse gas commitments. Energy efficiency and renewable sources of energy are essential partners in this objective — efficiency reduces our demand for energy; renewables increase the sustainability of our energy supply.

Hence The Energy Show 2000 — the Irish Energy Centre's showcase for energy-efficient products and services — has widened its scope to include renewable technologies, several of which are now commercially viable. The successful combined exhibition and workshop format has been retained but will now take place in the larger RDS Industries Hall on 17 & 18 May next. This is to facilitate the increased demand from intending exhibitors, and to make access and parking easier for the anticipated increase in visitors. Energy Show 2000 will also include a dedicated Renewable Energy Area beside the Workshops.



The Exhibition – What's to see

The Energy Show 2000 will bring together product and service suppliers with those who have most to gain from investing in energy-efficiency and renewable energy. It will demonstrate that moving towards sustainable energy can represent a commercial opportunity through the increased market for certain technologies on the one hand, and the reduced energy cost base for industry and commerce on the other.

Applications covered by exhibitors are wide ranging, and include:— Energy Audits; Energy Management Systems; Monitoring & Targeting; Combined Heat & Power; Boilers and Ancillary Equipment; Services & Testing; Compressed Air; Fuel Suppliers & Utilities; HVAC Products; Lighting & Lighting Controls; Instrumentation, Controls & Data Collection; Variable Speed Drives; Maintenance & Service Contractors; Biomass equipment suppliers; Renewable energy consultants; Heat pump suppliers; PV and Solar Thermal suppliers; Wind energy suppliers, manufacturers and consultants (full list attached).

Exhibition Contact

Margaret Andreucetti, Business Exhibitions. Tel: 01 - 295 7418; Fax: 01 - 295 7417. Email: energy2000@irish-energy.ie

Workshops

Over the duration of the Energy Show 2000 there will be a number of Workshops on different aspects of renewable energy and energy efficiency. These Workshops will introduce the delegates to the subject technologies and their applications. Current subject areas planned are: Monitoring & Targeting; Combined Heat & Power (CHP); Refrigeration; Wind Energy; Renewable Energy in Buildings; Renewable Energy in Ireland; Boilers; Energy Management in Industry and Commerce.

Workshop Contact

Irish Energy Centre. Tel: 01 - 836 9080; Fax: 01 - 837 2847. Email: Infor@irish-energy.ie

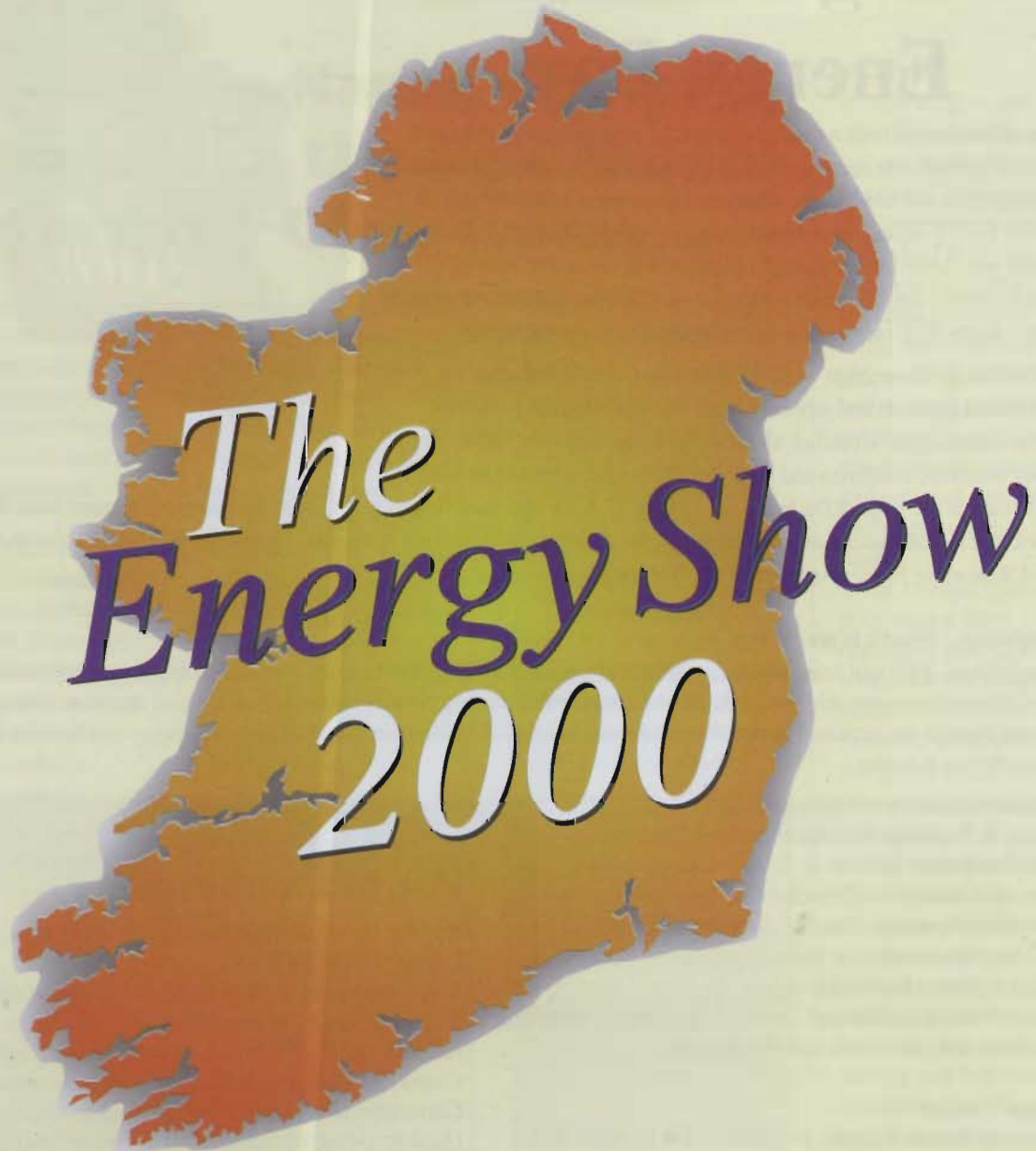
The Energy Show 2000 is a must for anyone with responsibility for, or an interest in, energy and energy-related matters, including energy suppliers, energy managers, building design, development and management, and large heat users.

List of Exhibitors

Among those exhibitors already confirmed for The Energy Show 2000 are:

ABB Group; Air Technology; Albar Associates; Atlas Copco Ireland; Belimo Automation UK; Casey Consulting; CODEMA; Concord Boiler Engineering; Cummins Power Generation; Cylon Controls; D E Generator Hire; Dalkia Technology; Danfoss (Ireland); Dunlop Design Engineering; Dunstar Energy Design; Edina Power Plant; EFT Control Systems; Eirtricity; Electric Drives; Enron Wind Corp.; EPH Controls; ERDA (Environmental Research & Design Associates; ESB; Eurotherm Ireland; Gardiner Energy Management; Green City Denmark A/S; Green Innovation; Hanley Air Systems; Honeywell Control Systems; Irish Energy Centre; Irish Energy Management; KB Combustion; Keston Heating Products; Lighthouse Communications; Manotherm; McCool Controls & Engineering; Measureit Technology; Mitsui Babcock Energy Services; Motogen (Electric); NEG Micon UK; Northern Ireland Electricity; Parkersell Lighting Services (Irl); Peter Schnieder; Powerlogic; Prolux; Safegard Systems; Sauter HVAC Controls; Scan Energy & Environmental Services; Schneider Electric Ireland; Sinergy; Spirax Sarco; Tech Con Sales; Telemecanique; The Institute of Energy Belfast; Thermpak Systems; Viteria Energy Services; Wärtsilä NSD Ireland; Wind, Water, Solar Energy Systems; Woodleigh.

The Energy Show 2000 is a must for anyone with responsibility for, or an interest in, energy and energy-related matters.



Exhibition & Workshops

Industries Hall, RDS,
Dublin

presented by

Wednesday 17th &
Thursday 18th May 2000



IRISH ENERGY CENTRE

The Energy Show 2000 exhibition is organised on behalf of the Irish Energy Centre by

BUSINESS EXHIBITIONS LTD

Margaret Andreucetti/Maureen Ledwith at Tel: 01 - 295 7418.

email: energy2000@irish-energy.ie

Official Catalogue



Advertise in the Catalogue

BSNews is responsible for the collation and production of The Energy Show 2000 Official Catalogue. It will be produced as an integral part of the April issue of *BSNews* and circulated to our entire readership leading up to the show.

Separately-bound copies of the catalogue will be made freely available for all visitors to The Energy Show 2000, which they will keep for future reference. This will effectively extend the "selling life" of the show, and also of course the impact of advertising contained within the catalogue.

All exhibitors will receive a free listing of approximately 50 words within the catalogue. Additionally, advertisers in the catalogue will receive further editorial and photographic coverage in the show preview, which will precede the catalogue within *BSNews*.

Contact: Joe Warren, *BSNews*. Tel: 01 - 288 5001



Design Air Limited

Design Air Ltd specialises in underfloor air conditioning and raised access floors, the highly-advanced Flexible Space System from AET lying at the heart of the services provided by the company.

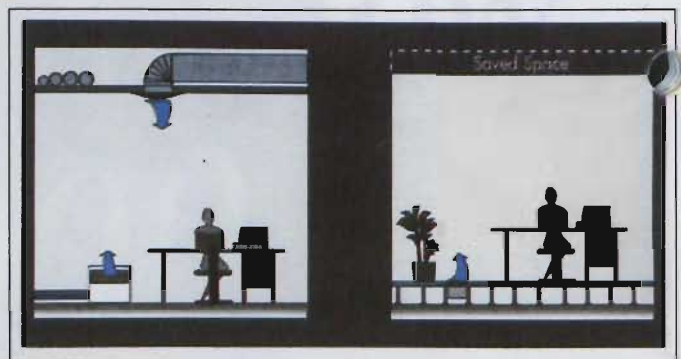
Led by Donal Keane, who is widely known throughout the building services sector and in air movement in particular, the company offers full turnkey packages including design assistance, installation, commissioning and overall project management.

The AET Flexible Space System is an innovative concept comprising underfloor air conditioning with complete functional utilisation of the access floor plenum. It simplifies the design and installation of healthy working environments by eliminating the limited flexibility of conventional piping, fixed ductwork and false ceilings.

The entire floor void is used for the distribution of clean, conditioned air which is recirculated by conditioned air modules and distributed to the workplace via unobtrusive console or floor terminal units which can be individually controlled.

While highly-innovative, the concept is already well proven with over one million sq m of AET Flexible Space System already installed worldwide. Following its recent introduction to Ireland architects, consultants, developers and building occupiers have reacted very positively to the concept.

The Nesite access floor is a fundamental component of the Flexible Space System. It consists of a variable-height steel substructure on which a wide variety of modular 600mm by 600mm tiles can be laid. It forms an airtight, uniform, surface with the appearance of a solid floor which is available in a choice of finishes, from



With the Flexible Space System from Design Air, savings result from the elimination or dramatic reduction of false ceilings, piping and fixed ductwork

lose-laid carpet and vinyl linoleum to high-quality ceramics, parquet, granite, marble and inert panels for special applications.

With a standard 250/300mm recommended height for conditioned air circulation (200mm minimum net height), the floor void also houses all building services.

Apart from the air quality, comfort and environmental advantages, the AET Flexible Space System from Design Air also provides considerable cost advantages in respect of construction and operation (see panel left).

Contact

Donal Keane
Design Air Ltd
Unit 7, Turnpike Business Park
Turnpike Lane
Dublin 22
Tel: 01 - 460 5555
Fax: 01 - 460 5556
email: designair@indigo.ie

Construction

- ☐ Ease of design
- ☐ Shorter construction times
- ☐ Reduction in building heights
- ☐ Less builders works during construction
- ☐ Reduction in on-site co-ordination
- ☐ Elimination or reduction of ceiling void
- ☐ Reduced initial plant expenditure
- ☐ Reduction of plant space required (up to 20%)
- ☐ Enhancement of rental values
- ☐ Improved aesthetics
- ☐ Fully self-contained no need for BMS

Operation

- ☐ Reduced operating costs
- ☐ Ease of maintenance
- ☐ Substantial reduction in costs for future moves
- ☐ Ease of control by all users (user friendly)
- ☐ Proven studies to show a reduction in Sick Building Syndrome
- ☐ Total flexibility in future building use
- ☐ No risk of cross contamination
- ☐ Filtration standard to computer room standard
- ☐ No contamination of ceiling tiles around air grilles

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.



The Centre Hong Kong



First Point, Gatwick



Willis Corroon, Ipswich



Rover HQ, Gaydon



The Flexible Space Office



Design Air Limited

Design Air Ltd, Unit 7, Turnpike Business Park, Turnpike Lane, Dublin 22.

Tel: 01 - 460 5555; Fax: 01 - 460 5556; email: designair@indigo.ie

Published by ARROW@TU Dublin, 2000

Flexible Space System

AET
FLEXIBLE SPACE



** Air Management Engineers **

Acoustic Cabinet Fans – Medium Pressure



Acoustic lined cabinets fitted with medium pressure direct drive centrifugal fans and lined with extra thick acoustic foam to minimise radiated and inlet noises.

Applications:

The compact design and low noise levels enables installation in false ceiling applications or any situation where low noise levels are one of the main requirements.

Series – Acoustic box CAB

www.ventac.ie sales@ventac.ie

Acoustic Cabinet Fans – High Pressure

Acoustic double insulated side panels form the cabinet, which house the direct driven backward curved centrifugal fan. Equipped with IP55, class F motors and are speed controllable using an autotransformer.

Applications:

The compact design is ideal for ducted system where high and low noise levels are required. The access panels and the backward curved impeller make cleaning very easy.



Series CVAB



The Ventilation & Air Conditioning Association of Ireland (V&ACAI)

The large turnout for the first open meeting of the Ventilation & Air Conditioning Association of Ireland recently proves beyond any shadow of a doubt that not only is there a need for such a body, but that the will is there across the entire air movement spectrum to make it a success. Following the meeting quite a number of people/companies responded to the call for prospective committee members. These names are now being collated while the closing date for receipt of additional nominations is Friday, 21 April 2000.

In the meantime those who have not yet applied for membership can do so by completing the form right, and returning it to Pressline Ltd, Carraig Court, George's Avenue, Blackrock, Co Dublin.

Membership is open to all those engaged in the ventilation and air conditioning sector who agree to abide by the Code of Ethics, and who support the objectives which include:—

OBJECTIVES

- (1) Increase the standard of ventilation and air conditioning design and installation;
- (2) Provide a bona fide register of competent manufacturers, distributors and contractors;
- (3) Raise the standard of workmanship;
- (4) Raise the awareness of the standards required by different regulatory authorities;
- (5) Provide a means of communication within the industry;
- (6) Provide a means and forum to convey and discuss new legislative changes;
- (7) Provide peace of mind to consulting engineers, architects, specifiers and end-users.

The V&ACAI is a non-profit organisation but obviously requires funding to carry out the aforementioned objectives. Hence the membership fees have been set as follows:—

MEMBERSHIP FEES

Company Membership	£200
Contractor Membership**	£150
Individual Membership**	£100
Associate Membership	£100

**** If an individual or a contractor is paid up member of RECI or the AECI then the membership fee is £100.**



Ventilation & Air Conditioning Association of Ireland

Company Name: _____

Address: _____

Contact: _____

Company Registration No: _____

VAT No: _____

Tel: _____

Fax: _____

Mobile: _____

Email: _____

Years in Business: _____

Type of Business: _____

No. of Employees: 1 -- 10 ☐
 10 -- 20 ☐
 20 -- 50 ☐

Ins. Bond No: _____

Reference (will be required if less than three years in business)

Danfoss Show at Our House



Above: Pictured at the Our House Exhibitions, the Danish Ambassador, His Excellency Ulrik Federspiel with John Sampson, Danfoss (Ireland) Ltd, launching a new product of wire free manifold control system for under-floor heating.

In his last official function as Danish Ambassador to Ireland Dr Ulrick Federspiel visited the Danfoss (Ireland) Ltd stand at the recent Our House Exhibition to congratulate the company on its continued success in the field of heating and energy management control systems for domestic and commercial buildings.

The ambassador was greeted by John Sampson, whose Dublin 12 company – J J Sampson & Son Ltd took on the title Danfoss (Ireland) Ltd in January, following its merger with the Denmark-based Danfoss A/S. The well respected J J Sampson & Son Ltd had been the Danish company's agent and sole representative in Ireland for 47 years. "The name change from J J Sampson & Son to Danfoss (Ireland) Ltd serves to highlight the full commitment of Danfoss towards all our valued customers in Ireland", said Mr Sampson, "and reinforces our intention to provide an overall distribution for our products throughout the island of Ireland".

The Danfoss (Ireland) Ltd stand attracted much interest at the Our House Exhibition, particularly in regard to the company's innovative heating control units, which cut household costs on water and heating bills, and its under-floor heating systems, which are now widely used in the latest hi-tech apartments.

Contact: John Sampson, Danfoss (Ireland) Ltd.
Tel: 01 - 626 8111; Fax: 01 - 626 9334.

'Relative Strangers' Childrens Appeal

"During the month of January, RTE screened a 4-part drama "Relative Stranger" starring Brenda Fricker and Adrian Dunbar. I am proud to say that my seven-year-old son "Ben" also had a major part in this drama, playing the part of Jamie Beckeer, a young boy who tragically dies from leukemia.

"Happily, Ben was acting and, in real life, is a very healthy, happy seven year old. However, as the drama was quite realistic and coupled with the fact that the writer of the series lost his seven-year-old son through leukemia, one can't but be touched by the death of a child.

"As a result of having had this exposure to the effects of leukemia, I have undertaken to assist in the raising of funds for the Children Medical and Research Foundation. The main thrust of my fund-raising is to partake in their 100 kilometre walking challenge. This challenge is being held in the Grand Canyon in July of this year. This letter is an appeal to you to sponsor me on behalf of The Children's Medical & Research Foundation which is based at Our Lady's Hospital for Sick Children in Crumlin, Dublin.

"I appeal to you to send a cheque (made out to the Foundation) to me now care of the Foundation address, or to my home at 126 Ballinclea Heights, Killiney, Co Dublin. All money raised by my efforts will be acknowledged by the foundation. I thank you for the time you have taken to read this letter and in advance for the sponsorship I know you will provide.

Sincerely,
Kieran Butler

IMBM CPD Presentation

Integrated Facilities Solutions Ltd recently presented a CPD called "IT & Buildings Maintenance Management" to IMBM members.

The event – which was held in the historic setting of the Law Society of Ireland – was a great success with a full attendance of 75 - 80 people. Both members and non-members from the property/facilities maintenance management industry attended.

The focus of the CPD was how IT is automating the industry and the benefits that are to be gained from utilising the technology available to manage the built environment more efficiently.

The event was closed with a presentation from Barry Carey, Facilities Manager of the Law Society, on the history of the building and how it is been adapted in recent times to accommodate conferencing and hospitality facilities.

IFS would like to thank both the IMBM Dublin Branch, and The Law Society of Ireland, for coordinating this CPD event.

Contact: Fred Hosford, IMBM. Tel: 01 - 402 4016

FÖHN

Oil or gas-fired high output cabinet
air heaters 30-415 kW

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ECOFAN

Recirculation/ventilation
destratification unit

INFRA LINE

Suspended flexible radiant
heating system 50-100 kW

INFRA

Suspended radiant heaters
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TANNER

Indirect hot water, steam or thermal oil
fueled air heater from 7.5-87 kW

ECOFAN

Reduces by recirculation the temperature
difference between the roof and the floor

ECOFAN

Reduces by recirculation the
temperature difference between
the roof and the floor

GS

Direct gas-fired air heater with
atmospheric burner and axial fan;
20.4-95.8 kW

GC

Direct gas-fired air heater with
atmospheric burner and centrifugal fan;
20.4-95.8 kW

G

Direct gas-fired duct heatexchanger
module with atmospheric burner;
20.4-95.8 kW

CALFLO

Direct gas-fired make up air heater;
with a fully modulating burner
with 100% efficiency; 71-996 kW

ROOFTOP

Direct gas-fired air heater, with atmospheric
burner and centrifugal fan; 20-370 kW,
bigger capacities are available on request

PIPE BENDER

The pipe bending machines bends
everything up to 4" both manually or
electrically operated machines available

INFRA AQUA

Flat radiant panels for ceiling suspension;
capacities are available on request

TRADE NEWS

Trane Opens Irish Office

The Trane Company officially opened a wholly-owned Irish office earlier this year following a market presence in Ireland for 30 years through its franchise Aemac Engineering Ltd. Eddie McAlester, who has held the franchise for all this time, will still act as a consultant to the new company.

In recognition of the increasing importance of the Irish market and its Irish customers, Trane decided to expand its direct presence by establishing a company-owned Sales and Service operation in Dublin. Aidan Flannery has relocated from England to take over the office as Managing Director. In his career with Trane, Aidan has been Regional Manager in the Birmingham office, and UK Service Manager.



Aidan Flannery, Managing Director, Trane Ireland.

Eddie's team remain with the new company and in fact have now been joined by two additional members.

"We firmly believe that this will enable us to serve our customers even better in the future", says Aidan



Exterior view of Trane's new headquarters in Dublin

Rettig Completes Acquisition of Baxi's Radiator Businesses

"We are pleased to have completed our acquisition of the former Blue Circle Heating radiator businesses from Baxi Group Plc", says Tom V Weymann, CEO and President of Oy Rettig Ab. "This means that we can tackle the real challenge of integrating and developing all the businesses into a stronger Rettig Heating Group. Adding Myson, Finimetal and Thermopanel gives us well positioned brands in the major markets in Europe and a broadened offering package including steel panel radiators, underfloor heating, decorative radiators, bathroom radiators, oil filled electrical radiators, and controls".

Sean Hanratty, Managing Director of Myson Heating Controls in Ireland, also welcomed the development. He told BSNews as we went to press that he and his colleagues are looking forward to the new opportunities it will undoubtedly bring.

Luc Cardinaels, Chief Executive of Rettig Heating Group says: "This is an exciting time for all of us as we will share our enthusiasm about the growth potential of the new Rettig Heating Group with the strong and committed management teams of Myson, Thermopanel and Finimetal, supported by their highly-dedicated workforce. "We welcome our new colleagues and are looking forward to combining our efforts to serve our customers better and building a dynamic entrepreneurial company", he concluded.

Flannery. It is our belief that the benefits of a business relationship go beyond 'buy and supply', and we aim to serve our customers passionately. We believe that offering solutions is our business, not just selling products and services.

"In the coming years we will establish Trane as a market leader in Ireland for the supply and service of HVAC equipment and associated services. This will be achieved through dedicated and focussed customer service.

"We hope that our existing customers will continue to enjoy working with us, and that those who are not will find us an ever-increasing part of their future plans for air conditioning".

Contact: Aidan Flannery, Trane Ireland. Tel: 01 - 628 2965; Fax: 01 - 628 2266; email: aflannery@trane.fr Website: www.trane.com



Seeks Stockist

Ventac & Co Ltd, distributor of ventilation equipment and ancillaries, is looking to appoint stockists in the North-West, West, South-West and South of the country.

Interested parties should contact Ciaran King at
Tel: 01 - 667 1077;
Fax: 01 - 667 1055;
Email: ctking@ventac.ie
Website: www.ventac.ie

All correspondence will be dealt with in strictest confidence.

THE HONEYWELL ENTERPRISE BUILDINGS INTEGRATOR™

**LIFESAFETY
MANAGEMENT**

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ADVANCING PRODUCTIVITY AND EFFICIENCY ACROSS YOUR ENTERPRISE

Decisions that can effectively improve the safety, security and productivity of your total enterprise, depend on the quality of information available and the speed at which it can be accessed.

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The EBI system pulls together all core building systems and integrates information from many

different enterprise subsystems, to provide quality information that can lead to more cost-effective solutions to critical decisions – faster.

The Honeywell EBI system provides a powerful window into your entire operation – enabling you to boost productivity, improve safety standards, maximise assets and drive down costs.

Invest in the future for your organisation, call 0800 521121 Ext. 4067 NOW for more details. Or write to Honeywell Control Systems Ltd, Honeywell House, Arlington Business Park, Bracknell, Berkshire RG12 1EB

Honeywell

www.honeywell.com/uk

TRADE NEWS

Brendan O'Toole joins ELTA

Elta Fans has recently appointed a new sales engineer to increase the company's market share in Ireland. Brendan O'Toole has more than 20 years experience in the building services industry and is set to help Elta continue to raise its profile in the Irish market.

Brendan will principally help sell Elta's Select range, which is made up of 15 product groups. He will also be promoting the



Brendan O'Toole.

company's full range of fans for industrial

applications, which are manufactured at the company's factory at Fareham in Hampshire.

"Most people will hopefully associate me with selling quality and value-for-money products in the past, and that is a tradition I guarantee will continue in my representation of Elta products in Ireland", said Brendan.

The Select range of fans is aimed specifically at the heating and ventilating market and includes plate and duct mounted axial fans; mixed flow units; twinflow units; hideaway

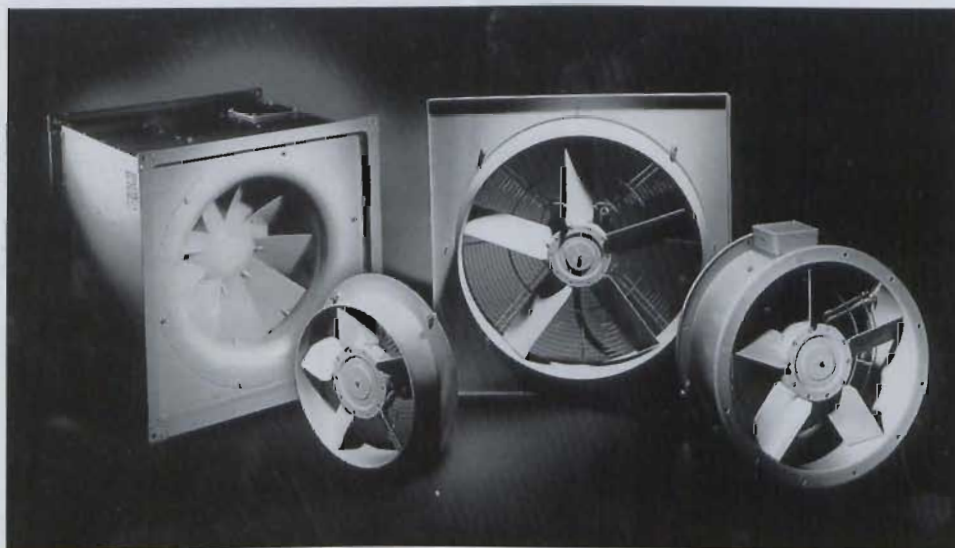
units; tube fans; bifurcated fans; and roof units. All are available from stock.

Elta's industrial product range includes larger axial, mixed-flow and centrifugal fans, complete with a full range of smokevent fans, which can be built to order.

Elta fans is part of the Elta Group, whose chairman is Ray Ball, the founder of the Air Movement Group. Brendan worked for AMG and claims that the Ball family is again leading the way in the air movement industry with Elta.

"The Ball family has, in typical market-leading style, set the industry standard. They have improved their product range and extended it", he added.

Contact: Brendan O'Toole. Tel: 01 - 268 6088; Fax: 01 - 628 9302; Mobile: 087 - 257 2099.



Evolving and revolving – the Elta Select range features the Multiflow and Compact ranges of fan. The Select range has been developed out of Elta's years of EOM experience and signals a major push into the H&V market.



Roger Gets Off the Mark!

Roger Bolger, Area Manager for Mark Eire covering the North East/Midlands and Northern parts of the country, is now also responsible for much of the Leinster region. Since joining the company Roger has made significant inroads in winning new business for Mark Eire and his 17 years plus of industry experience is now being brought to bear in the Leinster region.

Contact: Roger Bolger, Mark. Tel: 01 - 836 7079; Mobile: 087 - 8030141.



Seeks Stockist

Ventac & Co Ltd, distributor of ventilation equipment and ancillaries, is looking to appoint stockists in the North-West, West, South-West and South of the country.

Interested parties should contact Ciaran King at
Tel: 01 - 667 1077;
Fax: 01 - 667 1055;
Email: ctking@ventac.ie
Website: www.ventac.ie

All correspondence will be dealt with in strictest confidence.

Differential Pressure Transmitters

The new Dwyer Series 632S differential pressure transmitters from Manotherm bring 1% FS accuracy to monitoring and controlling positive, negative or differential of air and compatible gases and liquids.

Using dual piezoresistive pressure sensors to convert pressure readings to a standard 4-20 mA output signal, the two models in

pressures up to 250 psig. Operating temperature for both is 20 to 120°F (-6.7 to 49°C), adjustability is 0.05% of full span, wetted parts are 316 SS.

Dwyer Instruments produces a broad range of measuring and control instruments for pressure, temperature, level and flow applications, all of which are available from Manotherm.



Dwyer differential pressure transmitter from Manotherm for monitoring and controlling positive, negative or differential pressures of air and compatible gases and liquids.

this series are particularly easy to adjust in the field. Zero and span controls are mounted on the front of their die-cast aluminium cases.

Range for Model 632S-1 is 0 - 100 psid with a maximum of 0 - 200 psid. This instrument will withstand pressures up to 500 psig. Range for Model 632S-1 is 0 - 30 psid with a maximum range of 0 - 100psid. It will withstand

Contact: Bob Gilbert/
Brian Harris, Manotherm.
Tel: 01 - 452 2355;
Fax: 01 - 451 6919; email:
manotherm@eircom.com
Northern Ireland:
U15 Banbridge Enterprise
Centre, Scarva Road
Industrial Estate, Banbridge
BT32 3QD, Co Down.
Tel: 01820 669936;
Fax: 01820 669990;
email:
sales@manotherm.freemove
.co.uk

Sound Seal Signature Acoustic Wall Panels

Sound Seal™ Europe, Noise Control Research Laboratories Ltd, have launched the Sound Seal™ Signature series range of architectural acoustic wall panels.

Signature panels are lightweight, colourful, fire-rated and are available in a variety of finishes. The most popular finish is fabric, although it is available in elegant wood or a co-polymer finish, which is extremely abuse-resistant and therefore ideally suited to schools, gymnasiums or hospitals.

Signature series gives the architect or consultant the opportunity to specify a wall panel, which not only meets acoustic requirements, but also enhances the aesthetics of any application.

Currently Signature acoustical panels are being installed in the British Embassy, Dublin; Beamish & Crawford, Cork; and University College, Galway Hospital.

Contact: Ciaran King, Noise Control Research Laboratories. Tel: 01 - 667 1077; or email: ncrl@eircom.net
Website: www.ncrl.net

They're Back ... Grainger & Kearney Join Control Aer

John Grainger and Ben Kearney have rekindled their love affair with the ventilation supply business by teaming up with their former colleagues – Dave Kelly and Michael Renaghan – at Control Aer. With their return to the scene Control Aer promises to deliver a refreshing approach to ventilation and air conditioning. In what has become an increasingly-crowded and competitive market, Control Aer aims to be different. Full story in *BSNews* April.

Below: Control Aer – Dave Kelly with John Grainger, Michael Renaghan and Ben Kearney.



Noise Control Products For Industrial & OEM Applications



Portable Enclosures

VBD-10 Damping Compound & Soundamp E Sheets

Acoustical Pipe & Duct Lagging

Curtain Systems

Barriers

Quilted Fiberglass & Barrier Composites

Quilted Fiberglass Absorbers

Acoustical Wall Panels & Ceiling Baffles

- ◆ **SOUND ABSORPTION/NOISE BARRIER ACOUSTICAL CURTAIN SYSTEMS** are rugged and tough enough to handle the harshest industrial environment. STC ratings up to 33 offering significant noise reduction while allowing for complete accessibility, as well as visibility and ventilation. Easy installation on floor mounted, suspended, and wall mounted frames.
- ◆ **QUILTED FIBERGLASS AND BARRIER COMPOSITES** are used in OEM applications to control noise in engine compartments and transmission housings. Also suitable for industrial applications, these absorber/barrier combinations are available in panels, rolls or custom configurations and are impervious to harsh environments.
- ◆ **QUILTED FIBERGLASS ABSORBERS** are fire safe, high performance, acoustic blankets used in OEM, in-plant and architectural applications. Constructed for superior mechanical strength, they are unaffected by moisture, humidity, dust, dirt, oils and most chemicals. NRC to 1.05, FMVSS 302 acceptable, fire safe class 1. In-house die cutting and custom fabrication satisfies any design requirement.
- ◆ **BARRIERS** flexible noise barriers are lamp, tough, high-temperature-fused, loaded vinyl with rock/fillers and/or reinforced with high strength fabric. Perfect for applications requiring performance under moderate or severe temperature conditions. USDA acceptable, transparent noise barriers, high temperature and specialty barriers are available, including a Class 1 Flammability rated barrier.
- ◆ **PORTABLE ACOUSTICAL ENCLOSURES AND SCREENS** are free-standing portable units which can be supplied with any of Sound Seal's quilted fiberglass or absorber/barrier composite panels. Perfect as machinery partitions, dividers or welding shields. Quick and easy installation. Also available, complete three or four-sided portable enclosures including windows, ventilation and roof tops.
- ◆ **ACOUSTICAL WALL PANELS AND CEILING BAFFLES** Overhead baffles and wall mounted blankets are an effective, economic method of reducing reverberant noise in industrial or architectural environments. They are designed to improve acoustical conditions by introducing "soft" absorptive materials into an otherwise "hard" reflective environment. Perfect for theaters, auditoriums, sports facilities and industrial buildings. Also available FDA approved sanitary baffles.
- ◆ **VBD-10 DAMPING COMPOUND AND SOUNDAMP E SHEETS** Structure-borne vibration can be effectively and economically reduced with a simple application of either product. Damping compound may be brushed, troweled or sprayed. Paintable when dry. Meets ASTM E-162 and E-662 (Smoke and Flame). Wide temperature range. Ideal for OEM applications including rail, bus and marine. Excellent in industrial applications. Self adhesive damping sheet is .060" thick. Meets UL-94. Cuts easily to any size.
- ◆ **ACOUSTICAL PIPE & DUCT LAGGING** features a loaded vinyl noise barrier with a reinforced aluminum foil facing. Used for wrapping steel, iron and plastic pipes, sheet metal duct work, and noisy valves indoors and outdoors. Excellent durability and corrosion resistance, high conformability and easily installed. Also available in composite form with a 1" or 2" quilted fiberglass absorber.

Sound Seal Acoustical Products offer maximum noise reduction for minimum dollars. Curtain Panels and composite materials are Class 1 Flammability rated with STC rating up to 33 and NRC rating to 1.05.

SOUND SEAL™

Noise Control Research Laboratories Ltd.,
11 Fitzwilliam Quay, Ringsend, Dublin 4, Ireland
Tel: +353 1 6671077 Fax: +353 1 6671055
e-mail: ncr@earcom.net

WebSite: www.ncrl.net (under construction)
www.ventac.ie (look under Acoustic Products)
International Contacts: Mr. Ciaran King
Mr. Carmin Hall

TRADE NEWS

New Technological Leadership from Thermo Systems and Johnson Controls



The M5 Workstation brings new technological leadership to the Metasys® Building Management System for heating, ventilating and air conditioning control of buildings.

Metasys Operator Workstations are easy to use. Operators can simply point and click through dynamic, full-colour graphics of floor plans, system schematics, live trend data, historical information and comprehensive reports and summaries. You can interactively change status, schedules, setpoints and control strategies. The Operator Workstation uses standard hardware platforms and runs in Microsoft Windows, 98 or NT environment. Network Control Modules provide central monitoring of alarms, and they collect and store data on historical trends, equipment runtime and energy consumption. Plus, M-Web lets you monitor systems and equipment from anywhere in the world via the Internet.

The M5 Workstation combines the best industry standard hardware and software with Johnson Controls 100-plus years of control experience to create an easy-to-learn and use, yet powerful interface to the Metasys Network. With all of these advantages, your decision couldn't be simpler – the M5 Workstation and the integrating Metasys Network are the perfect solution to assist you in managing the needs of your dynamic enterprise.

Contact: Aidan Lynch, Thermo Systems.
Tel: 01 - 493 1701; Fax: 01 - 493 1746;
email: aidan.lynch@thermosystems.ie

THE BUCKLEY CONSULTANCY



*building services
consulting engineers*

Electrical Building Services Engineer

The Buckley Consultancy is a small but well-established building services practice. Due to continued expansion we have an opening for an Electrical Building Services Engineer.

This offers the right candidate the opportunity to join a small dynamic team and gain hands-on experience in design and site work. We are looking for someone with initiative and flair, who can work on their own.

This is an equal opportunity office and remuneration will reward experience and skills.

Please reply in writing to
the Senior Partner at
The Buckley Consultancy,
Carraig Court, George's Avenue,
Blackrock, Co Dublin.

Tel: 01 - 288 4938; Fax: 01 - 288 4992;

Mobile: 086 2555003

email: buckley.consultancy@indigo.ie

TRADE NEWS

HEATmaster – The Hot Line in Radiators

Cork-based company Maple Marketing Ltd expanded its Building Products Portfolio in 1999 with the addition of two new product ranges – the HEATmaster high-output low water content compact convector radiators, and a towel rail for bathroom and kitchen applications.

and finally coated by a series of multi-spray applications of RAL 9010 white epoxy-polyester electrostatic powder paint cured at 200°C.

The HEATmaster Compact Convector range includes factory-fitted top and side covers on both the single and double

end 1/2" connectors are standard fitments.

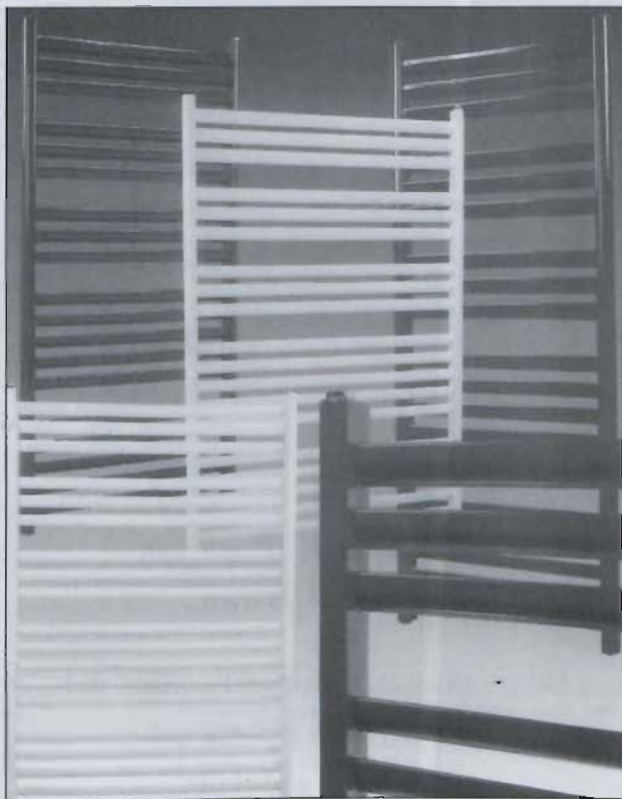
All radiators are carefully packed and protected by the use of carton box end sleeves, plastic protectors fitted to wall lugs, bubble-wrapped and finally double-shrink-wrapped in a heavy-gauge polythene protective film.

The HEATmaster towel rail is manufactured to the same exacting standards as the convector radiators, and also produced in the matching colour RAL 9010 white. The stylish and functional design enhances the utilisation of restricted spaces in bathrooms and kitchens.

A nationwide delivery service ensures that delivery will be made anywhere in Ireland within 48 hours from receipt of order.

Both HEATmaster ranges carry five-year no-quibble guarantees against any defects caused by faulty materials or manufacture, while experienced staff are readily available to assist and advise customers with technical and promotional back-up.

Contact: Charles Wheeler/Emmet Martin, Maple Marketing Ltd.
Tel: 021 - 968388;
Fax: 021 - 968454;
email: maple@indigo.ie



Heatmaster towel radiators from Maple Marketing.

Designed for economical performance, style and efficiency, HEATmaster radiators are manufactured to the ISO9001 Quality System and are credited to DIN EN442. The final finishing process is in compliance with DIN 55900. The process involves totally submerging all radiators in a primer paint which is oven-baked

convector types. Chrome air vents, plugs, sealing rings, wall brackets, nylon buffers, screws and wall plugs are all included within the packaging of the radiator.

The range is produced in heights of 300mm, 400mm, 500mm, 600mm and 900mm, in lengths from 400mm to 3000mm. Top and bottom opposite

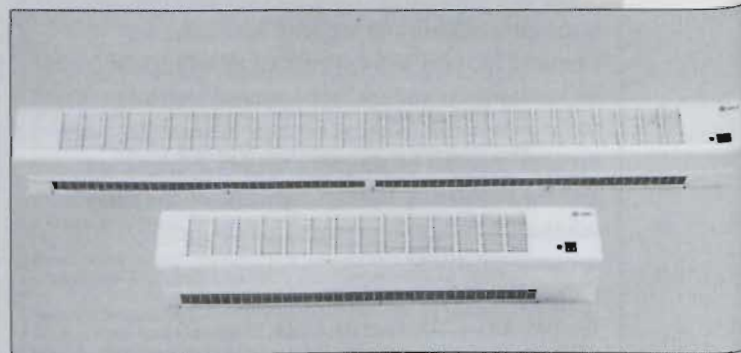
S&P COR Series Air Curtains

The COR range of air curtains from Ventac create a very effective barrier to prevent the entry of outside air, either as a fresh air version (COR-F), or as a combined fresh/warm air unit.

This means significant energy savings on air conditioned or heated locations as the air curtain prevents losses. The cross-flow impeller is accurately balanced providing a very low noise level.

Stylish in design, with rounded edges, COR air curtains are manufactured 100% in steel with an ivory painted finish.

Contact: Ciaran King, Ventac. Tel: 01 - 667 1077.
email: cking@ventac.ie



S&P COR series air curtains from Ventac

Phex Exhibition Returns

The PHEX domestic plumbing and heating exhibition returns to Belfast and Dublin in April 2000. The format is the

11am to 3.30pm on the second day.

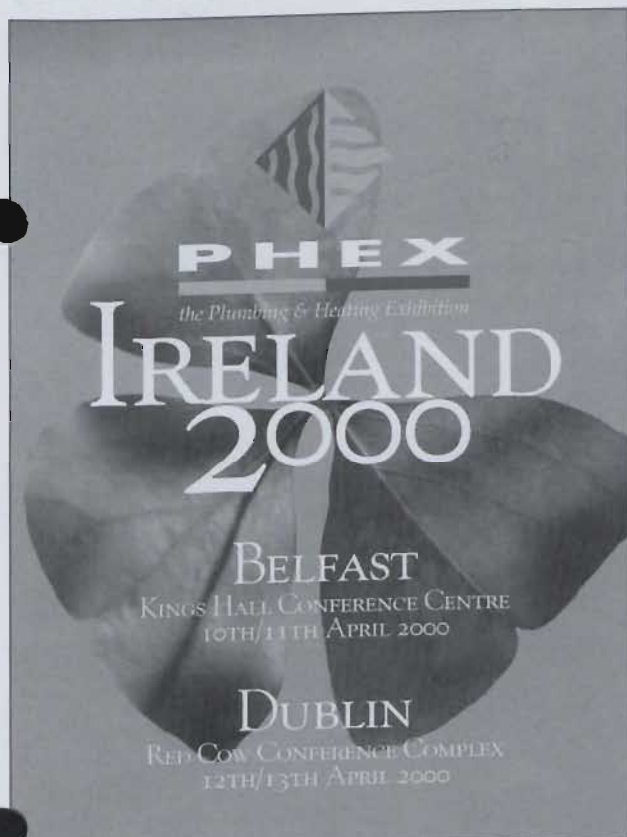
A broad cross-section of exhibitors means the visitor will be able to view

disrupting work schedules. In addition, the organisers are providing free refreshments for all visitors and a chance to win prizes at the roulette table.

Both exhibitions will provide the opportunity for

visitors to discuss business, and also to enjoy themselves at the popular roulette evening which has proved a great success previously.

Contact: PHEX Hotline - Tel: 0044 181 680 4200.



same as the proven successful series of exhibitions organised by B & M Publications in the UK and Ireland over the past few years.

The show will start in The Kings Hall Conference Centre in Belfast on 10 and 11 April 2000, and will then move to Dublin where, because of growing demand, it has moved to the larger Red Cow Complex for the 12 and 13 April 2000. The shows will be open between 6pm and 9.30pm on the first day at each venue, and from

the latest offerings in boilers, controls, fires, pipes and fittings, radiators, sanitaryware, showers and tools. PHEX is supported by the majority of leading manufacturers in the industry and their distributors, both in the North and South of Ireland.

With time at a premium during the working week, the local nature of the shows and the convenient opening times provide the busy installer with the maximum opportunity to visit the exhibition without

Champagne Jordan

Brian Jordan of Jordan Mechanical Services, Dublin, was the winner of the 7 March BSNews Wall Planner 'phone in competition.

Congratulations Brian and commiserations (and thanks) to all the others who participated.

Keep checking ... there are a further two bottles to be won throughout the year.

S&P Centrifugal Twin Fan Cabinets

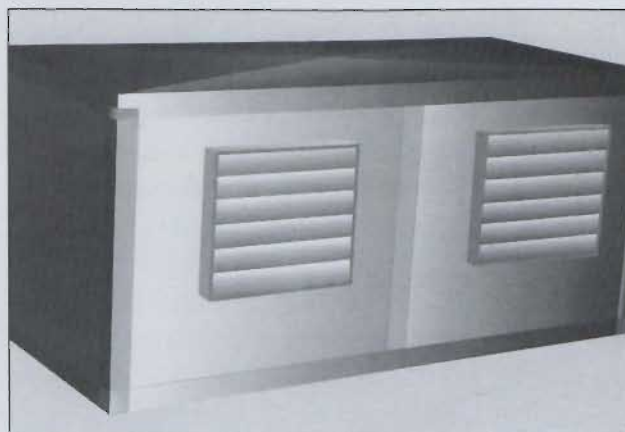
The CV-X2 range from S&P comprises nine sizes of centrifugal twin fan units, consisting of two direct-drive, low-pressure, centrifugal fans. The fans are fitted with single or 3-phase asynchronous induction motors, with squirrel cage rotors cast in aluminium, and fitted with thermal protection.

Models 7/7 and 9/7 are fitted with sleeve bearings. Models 10/10, 12/12 and 15/15 are fitted with ball bearings, greased for life.

The fan housing is constructed of heavy-gauge galvanised steel with double-skin side panels. The units come complete with backdraught shutters and wire mesh guard and are suitable for internal or external installations.

The fans can be run in parallel or with automatic change-over as duty/standby.

Contact: Ciaran King, Ventac. Tel: 01 - 667 1077; email: ctking@ventac.ie



The new S&P centrifugal twin fan cabinets from Ventac



**MANOTHERM
LIMITED**
THE CONTROL CENTRES

4 WALKINSTOWN ROAD, DUBLIN 12
Building Services Engineering, Vol. 39 [2000], Iss. 3, Art. 1
E-mail: manotherm@eircom.net
U 15 BANBRIDGE ENTERPRISE CENTRE
SCARVA RD IND. EST., BANBRIDGE BT32 3QD, CO DOWN
Tel: 01820 669936 Fax: 01820 669990
E-mail: sales@manotherm.freeserve.co.uk

Dwyer®

C O N T R O L S
A N D
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