Innovation in Pumping Technology

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

- Water supply
- Boosting
- Sprinkling
- Irrigation
- High pressure wash
- Fire protection
- Water treatment
- Boiler Feed
Ventilation & AC Association Committee

The officers and committee members of the Ventilation & Air Conditioning Association (V&ACA) are now being finalised. This follows the names put forward after the last meeting in the Red Cow Hotel, Dublin, and includes a broad cross-section of sectoral interests, making for an all-embracing, representative, body.

A committee meeting will be held shortly, after which an outline programme will be unveiled to the industry. The proposals include publication of a list of members which will be included in the forthcoming edition of the BSNews Buyer Guide.

If you are involved in the ventilation and air conditioning sector of building services and have not already applied for membership, do so immediately if you wish to benefit from the many advantages it entails.

Contact: Pat Lehane at Tel: 01 - 288 5001.

BMS Controls Eros Waterflow

This month's front cover features the world-renowned fountain and statue of Eros in London's Piccadilly Circus. How many people know that it conceals a unique building services BMS story? Immediately blow ground is a plantroom containing a small, stand-alone, computer-based, management system installed by Dublin's Pointer Control Systems. When Westminster City Council wished to stop spray waters from the fountain soaking passers-by and tourists picnicing on the statue's edge, Pointer devised a novel solution. First Pointer sited a windspeed detector at the junction of Piccadilly, Upper & Lower Regent Streets, and Shaftesbury Avenue. This in turn is linked to a programmable controller located under the fountain which interprets the signals and enables one of three pumping levels propelling water through the water spouts at differing heights and velocities to match the wind conditions.

To gauge the full extent of the BMS applications solutions offered by the industry's leading players see our 15-page feature starting on page 8.

In This Issue

<table>
<thead>
<tr>
<th>Wilo Packaged Sewage Systems</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Season Control Expansion Continues</td>
<td>3</td>
</tr>
<tr>
<td>IDHE News</td>
<td>4</td>
</tr>
<tr>
<td>Building Management Systems</td>
<td>8</td>
</tr>
<tr>
<td>Energy Show Review</td>
<td>26</td>
</tr>
<tr>
<td>News</td>
<td>27</td>
</tr>
</tbody>
</table>
Wilo pumps can now offer packaged solutions for sewage applications ranging from a single domestic wc up to large projects such as office buildings, hotels, and other commercial developments. The current range of packaged sewage products, recently expanded and updated, offers a clean and hygienic solution to situations where the need to pump sewage arises.

The Wilo range starts with the Opti-Box KH unit for a single wc application. This is a stylish wc waste disposal unit, which connects directly to the outlet of the wc pan. Fully self-contained, its macerating system ensures efficient disposal via a 32mm diameter discharge outlet. The KH can also accept a waste water connection from a wash hand basin and a shower or bidet. This is followed in the range by the recently-launched Drainlift-S. This is a fully self-contained system comprising a single pump mounted in a polypropylene collection chamber, complete with integrated level controls. It can be connected directly to a wc pan or sited remotely if required, and it is designed to cater for waste water and sewage discharge from a single bathroom installation.

A feature of this unit is its compact dimensions, at only 300mm wide, it is possible to install the Drainlift-S behind a stud partition or within a false cavity, concealing it from view. This feature makes the Drainlift-S unit ideal for refurbishment or extension projects where space is either restricted, or at a premium. The 45-litre capacity collection chamber has an internal sloped base, which prevents dirt depositing and ensures safe operation.

The pump fitted is from the proven design of Wilo’s modern stainless steel and composite submersible range, which have efficiency-enhanced free-flow impellers. The Drainlift-S is available for either single or 3-phase electrical supply.

For larger multi-appliance projects, Wilo has the option of several single or twin-pump units to cater for high discharge capacities. The Drainlift-FH (single pump) and DFH (twin pump) units have 90- and 150-litre capacity collection tanks respectively, and can achieve discharge flow rates up to 18 litres/sec. They require a 3-phase electrical supply. These units are complete with integral level controls and are supplied with a wall-mountable control panel, featuring volt-free contacts for run-and-fault signals. All twin-pump units have an automatic pump duty cycling feature. The Drainlift-XXL units are twin pump sets, suitable for very large projects, and can cater for discharge flows of up to 45 litres/sec. They come with a 400-litre capacity collection tank as standard, but this can be doubled to 800 litres, using 2 x 400 L tank, if required. As with all the Wilo packaged units, integral level controls are provided as standard. The XXL unit is supplied with a microprocessor control panel providing automatic duty cycling, standby and peak load operation and volt-free contacts for run-and-fault monitoring.

The Drainlift range of packaged sewage systems offers a ready-to-connect, clean and hygienic solution for sewage disposal in modern building design, and complements Wilo’s existing pump products.

Full details are available from Wilo Engineering Ltd. Tel: 061- 410 963; Fax: 061- 414 728; e-mail: sales@wilo.ie Web: www.wilo.com
Season Control Expansion Continues

The past two months have seen significant positive advances within Season Control Group.

Chief Executive Chris Hutton stated: “We have strengthened our management team with the appointment of John Kennedy as General Manager and Charlie Glass as Chief Financial Officer. This has enabled us to take full advantage of our 

£150,000 investment in our Tetra fully-integrated computer system. This means that we can serve our customers quicker and give them more individual attention as Tetra holds a unique price list and purchasing details relating to each of our customers”.

The arrival of John and Charlie has given Chris more freedom to develop new markets and expand the Season product range. He said: “We are now in a position to unveil further products and push into new geographical areas quicker than we could have before”.

Other new appointments include that of Carl Dumpleton to the position of General Sales Manager and Jenny Bennett as Sales Office Manager.

Carl Dumpleton stated: “We are expanding our projects team by 200% to deal with the volume of enquiries and orders which are currently being generated across the spectrum of agencies. We have been particularly busy with Interklima Air Handling units, Dunham Bush fan coils and Air Diffusion high-quality air terminal devices. We have also successfully launched the Hitachi range of split air conditioners and VRF systems, and I was delighted to accept my new position in the company at such a time of major investment and growth”.

Jenny Bennett has taken up her new position after ten years with the company and her knowledge of products and customers are vital to the organisation. The sales office now consists of Jenny and six internal sales people, ready to help customers with technical queries and pricing enquiries. Jenny stated: “The team gets great satisfaction from helping customers with particular problems ... be it a quick delivery or a technical detail that we can fulfil”.

The Season Control Cork branch will shortly move to larger, more modern, premises. The new building will enable Branch Manager Mick Sweeney to double his stockholding and increase the product range available.

The current year shows further sales expansion and these new changes will enhance the customer offering from Season Control far into this century.

Contact: Chris Hutton, Season Control.
Tel: 01 - 456 8200.
Fax: 01 - 456 8210.
email: season@clubie
City West Proves Perfect Venue

City West proved the perfect venue for this year's IDHE annual golf outing. Despite the inclement weather of our so-called summer, the Gods were generous on the day in question, the rain stopping literally as the first participants stepped up to the first tee. Fifty golfers enjoyed an excellent day's outing, the comraderie and craic being as important as the golf (to some at least!).

Overall sponsors on the day were Barlo and Oliver Fitzpatrick provided an excellent array of prizes, along with the "goody bags" which each golfer received prior to going out.

As usual, Hevac presented the Perpetual Trophy, Tom Scott attending to make the presentation and a very eloquent speech on the night.

Nor is the late Bill Penrice forgotten. Bill contributed enormously to the development and expansion of the IDHE down through the years and it is fitting that he is remembered by way of the William F Penrice Perpetual Trophy.

Results

This year's overall winner John Hutchinson was the worthy recipient of the Hevac Perpetual Trophy, while the Bill Penrice Trophy went to Vincent Broderick. Other winners on the day were as follows:

Class A
First — Tom Jordan (30pts)
Second — Ronnie Bruen (35pts)
Third — Vincent Broderick (34pts)

Class B
First — Jim Brereton (33pts)
Second — Tom Kennedy (28pts)
Third — Hughie Barrett (28pts)

Class C
First — Padraig Cummins (30pts)
Second — Joe Keogh (29pts)
Third — Des Corr (28pts)

Others
Longest Drive — Vincent Broderick
Nearest the Pin — Joe Keogh
Best Front 9 — Ken Wynne
Best Back 9 — Noel Cullen

Special Prize
Pat Melia who, on the strength of having hit the most shots on the day, got a special award for playing the most golf! Well done Pat.
High Performance Centrifugal Fan Belt Drive – Double Inlet
High efficiency series with interchangeable, forward or backward curved aerofoil impellers. Applications specially for HVAC and air handling units. Also in heavy duty design for industrial application. Technologically advanced designs:
- Interchangeable impellers;
- A complete range of fan sizes covering volumes up to 350,000m³/h;
- Casing from galvanised sheet steel or heavy welded construction;
- Low-friction bearings in both light and heavy duty designs;
- High-quality surface treatment with various finishes for protection against corrosion according to Gebhardt specification G 775/1.

www.ventac.com  sales@ventac.ie
IDHE B135 Domestic Heating and Environmental Engineers Course

Run by DIT, Dublin and CIT, Cork

This course is intended for persons engaged in the heating industry and will provide a broad technical education and understanding of the principles and techniques in heating and environmental engineering.

Course Duration
Course duration is two years, two evenings per week, 7pm to 10pm each evening. Commencing first week in September.

Course Subjects
Heating Technology; Combustion Technology; Management; Quantity Surveying; Drafting; Mechanical Services; Renewable Resources.

Course Application Form

Name: ____________________________ BLOCK CAPITALS PLEASE

Company: _______________________

Address: ________________________

Tel: ____________________________ Fax: ______________________ Email: ______________________

Details of Education to date:

____________________________________________________________________________________

____________________________________________________________________________________

Details of current employment:

____________________________________________________________________________________

____________________________________________________________________________________

Signature of applicant: ____________________________ Date: __________________

Completed forms to: Joe Newman, IDHE, Suite 183, 28 South Frederick Street, Dublin 2. Tel: 01 - 840 1820; Fax: 01 - 840 1820; Mobile: 087 - 245 7729; email: jnewman@indigo.ie
BMS – Integration Critical Issue if Industry to Provide Total Solution

These are exciting times for the BMS industry. Over the past two decades it has been transformed from a fledgling controls activity to a sophisticated discipline employing the latest state-of-the-art technology.

Once the exclusive domain of cash-rich entrepreneurs with large buildings who wished to look at screens to access basic facilities and carry out the odd change to set points and parameters, BMS was regarded by the consulting engineering fraternity as a necessary evil which was not really cost justifiable.

However, as the years have progressed, technology has advanced and costs have become more reasonable so installations have become smaller. More and more building owners and users have appreciated the benefits of precise monitoring and control of plant and equipment of all sizes, together with the ability to closely follow performances in remote plant rooms and boiler houses. But it isn’t just owners of building that have capitalised on what BMS has to offer, as our front cover picture and story demonstrates: even one of the most famous fountains in the world is able to operate better with the help of a computer-based control system.

So, BMS is no longer new technology ... it has won the trust of everybody from the developer to the end user. In fact, these people are clamouring for more complex systems that take advantage of the phenomenal advances in the field of communications. Indeed, they are creating the way forward because there is no doubt that communication through integration is where the future of the industry lies.

Thankfully there is no shortage of highly-skilled companies in Ireland able to ensure that things will progress efficiently and speedily. It’s ironic that it took an economic downturn to give us such solid foundations, for all the big names in the industry opened up for business here in the good times, and then deserted us when the going became rough. This spawned a plethora or indigenous companies created by the people left behind to serve what remained of the market.

As time has passed many of these companies have grown (some have, of course, unfortunately fallen along the way) to become highly-proficient within the industry, serving markets in Europe, the Middle East and Asia, as well as Ireland. They are more than capable of meeting the challenges that will be thrown down as the new millennium unfolds.

They have adapted and improved their skills to supplement basic building services and M&E engineering expertise with the software engineering capabilities that will be critical for the future success of any organisation. They are well aware that building owners and operators who, during the oil crisis, were demanding energy efficiency, are now more concerned with the provision of information in the form of management reports, tariff analysis, percentages, and in the case of manufacturing premises, production statistics. They are also demanding integration at all levels.

Large and small buildings alike must therefore be equipped with systems that will take advantage of the benefits that IT will bring through the use of the Internet, TCP/IP technology and LONworks and BacNet. If true integration is going to be achieved the industry will have to make decisions as to which of these protocols should be adopted. Remember VHS v Betamax?

Even the users of smaller buildings can take advantage of the integration possibilities ahead of us because BMS will no longer relate merely to H&V activities ... it will embrace security and access control, fire, lifts and escalators, stock and personnel movement, asset management, and more.

For the operators of multi-locational buildings the prospects are thrilling. Not only will all the disciplines suggested above be integrated into the same system, they will all be as extensive and sophisticated as the client demands; security systems will incorporate CCTV and car park barriers control; fire systems will embrace audio alarms; isolation of affected areas; pressurisation to channel smoke away from evacuation routes; access
With a controls range spanning 8 to 24 points, a flexible three layer network, and a choice of display interfaces, unitron's modular expandable design delivers outstanding control solutions on projects of all sizes. For a brochure or further information please contact Cylon today on 01 8366426.
Safeguard V1 – Efficient & Cost-Effective Total Control

Safeguard Systems was formed in 1994 when Actionair, the UK’s leading damper manufacturer, was sold and their new owners decided to close down Actionair’s very successful manufacturing outlet in Ballymount. With many years experience in fire/smoke damper control systems, the Safeguard team set about designing a new generation of control systems, as well as offering conventional systems. In 1999, Safeguard agreed an exclusive UK sales and marketing arrangement with Actionair, who now brand-market Safeguard’s products.

Unfortunately, many countries — Ireland included — adopt the policy of meeting the minimum building requirements and it isn’t until a disaster occurs that questions are asked. The minimum requirement is met by using curtain-type fire dampers, but it is now universally accepted that these dampers do not prevent the spread of smoke through HVAC systems and it is smoke that damages buildings and kills people. Very rarely in a fire situation does the actual fire itself cause death.

Furthermore, these “life-saving” devices are rarely if ever checked, mainly due to the fact that even in buildings where a small quantity of dampers have been fitted, manual testing and resetting becomes a prodigious task and really automatic testing is essential. In some countries legislation has been passed that ensures that only motorised combination fire/smoke dampers shall be fitted and that they must be tested every 48 hours.

The Safeguard VI system maintains a database for every available fire/smoke damper actuator and provides the facility for automatic testing. Being completely flexible and using the LonWorks® standard (LonWorks® being the de facto standard for building controls) the Safeguard VI system allows building owners/operators to achieve best-practice fire/smoke damper testing and control exceeding the requirements of any standard, and assuring complete peace of mind in an efficient and cost-effective way.

Unfortunately, when a fire/smoke damper system has been proposed, Safeguard continually experiences the 11th hour “we have to have a fire/smoke damper system which we haven’t budgeted for”, instead of being thought about early on in the building design. When consulted Safeguard can advise on the most appropriate system for the building layout, which normally facilitates overall M&E cost savings.

Safeguard hope that it will not take a disaster, or indeed legislation, to make us adopt best-practice in Ireland and welcome comments/enquiries from all interested parties.

Contact: Safeguard.
Tel: 01 - 276 1600;
Fax: 01 - 276 1611;
email: safeguard@iol.ie
Website: www.safeguard.ie
Sanyo OSS 2000 BMS System from Redbro

The new OSS 2000 system from Sanyo has been designed specifically for the Sanyo range of air conditioning equipment. It offers an unparalleled range of controls for a multi-system air conditioning plant and can easily be incorporated into the relevant ac system by means of an AMY adaptor kit and in-house PC with suitable modem.

The OSS 2000 is then conveniently installed into the computer and the full range of facilities are readily available for operation. OSS 2000 can also be incorporated into existing BMS systems.

With the new OSS 2000 BMS Control System, the following control options are available:

**Function Control**
- Operation mode (heating, cooling, dry, fan, super auto);
- Temperature setting;
- Fan speed setting (high, med, low, auto);
- Auto flap (up/down + left/right);
- 365-day operation timer (monitor and change option);
- Sensor temperature display;
- Complete self-diagnostic display;
- Cumulative operation time (microsoft excel compatible).

**System Control**
- Complete central control (collective and individual per zone);
- Group control;
- Setting range (control and monitoring);
- Cooling/dry (18-30);
- Heat (76026);
- Data logging facility including full alarm functions to email etc;
- Individual password levels for security and exclusive users;
- Full history reports;
- Costs;
- User pattern;
- Operation;
- Graphs, etc.

Used in combination with OSS 2000, the system controller can control up to 64 groups of indoor units.

The controller makes it possible to use a large-scale intelligent building control system and is capable of handling input/output operation data for indoor units' central control, status monitoring, and electricity bill rate for each tenant.

When connecting with BMS, the user should make sure that computer software is in compliance with the communication protocol specification of DDC.

Contact: Barry Hennessy, Redbro.
Tel: 01 - 294 0321;
Fax: 01 - 294 0325;
e-mail: sanyoac@indigo.ie
FOR THE

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

TRV 2-WAY

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

THE ONLY

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

WAY IS UP.
Control for Today and Tomorrow

The state of play in Building Automation — Many have seen technology in the now mature building automation industry going through a settled period. Now common are modular, distributed systems using freely programmable controllers in hierarchical communication networks as the basis of HVAC control systems. Yet in other aspects of a total solution, the fast pace of developments in the IT, software and telecommunication industries is having a major influence on the way people interact with their environment, writes Stuart Aynsley, Marketing Director, Cylon Controls Ltd.

The power of the Internet (Intranet) — One of the fastest-growing sectors of the computer industry is the Internet explosion seen over the last few years. Is it therefore surprising that your building operational data can now be presented to you through pages on your internal company Intranet or your Internet site?

Communicate any way you like — It seems in this way that almost every schoolchild now carries a mobile telephone, rather than this being the preserve of those that need to stay in touch with business. We have been familiar over the last few years with critical alarms from building services appearing on the text pager carried by a maintenance engineer. If that engineer has a mobile phone, why not use the SMS (Short Messaging Service) facility to the same effect?

What about WAP? Wireless Application Protocol is the latest mini revolution to hit the telecommunications industry. As this technology matures, it permits simple information to to be accessed from a suitably WAP-enabled Internet site using only a mobile telephone. So if your Building Automation System is linked to the Internet, could your maintenance engineer check out the cause of the SMS alarm he received in this way?

IT - What is it? — Which business survives today without networking their PC users together? If this infrastructure exists, then why not make some use of the optical fibre, twisted pair cabling or even the Ethernet itself to expand the availability of your building control information within your organisation?

Integration and Interoperability — Long gone now are the heady ideas of “one stop shop” integration, with disciplines in HVAC, fire and security systems provided by a single manufacturer. The advent of simple low-cost multi-protocol devices combined with the slow emergence of a number of standard communication protocols now means that sensible integration of useful information between disciplines can often give cost-effective benefits to building owners.

Don’t forget control — In this communication explosion, it is not surprising that a control company should take advantage of the amount of development happening in other sectors of the market. Of course, this doesn’t mean that we have rested on our laurels when it comes to the programmable controllers at the heart of the system. Hardware is continually evolving, taking advantage of the latest SMT (Surface Mount Technology) components to add more functionality and reliability to ever-smaller control devices. A quick look at Untron 2000 shows that all new, virtually maintenance-free, room controllers providing the benefits of pre-configured devices in a programmable unit have appeared. These combine with the increased flexibility of the new communication and main plant controllers with in-built relays and new local displays for portable or fixed applications.

Building Automation enters a new Millennium — The message today is that developments affecting the way we interact with our building services, and the way they perform, are changing faster than ever. Who knows what new technology may be just around the corner and how it could affect us in the future?

Experience Tomorrow’s Control Today ... with Cylon.

Contact: Cylon Controls
Tel: 01 - 836 6626;
Fax: 01 - 836 5108;
email: askus@cylon.ie
Website: www.cylon-controls.com
Honeywell Integrated Facility Management Solution

Honeywell has introduced Enterprise Building IntegratorTM (EBI), a powerful integrated facility management solution that makes an entire business more efficient and productive. Its specific purposes are to provide a high return on investment and to stimulate growth, by providing a single and seamless, highly-sophisticated control and information base for many management systems and subsystems.

EBI can provide complete control of all a building's core systems, including services, security and fire, as well as unrivalled integration of real-time and historical information from many different enterprise subsystems. These include industrial manufacturing and process automation, financial and personnel records, environmental controls, and supply chain databases. EBI can link to existing systems, such as personnel and access systems, and can use common databases and card readers, for example, so preserving earlier investments.

EBI's open architecture and robust user interface provides a single powerful 'window' to all data and operations, enabling users at all levels to reduce operating costs, achieve optimal maintenance strategies, and achieve greater productivity through higher reliability and less downtime. EBI makes it easy to manage day-to-day operations economically while enabling executives to integrate facilities effectively into their growth strategies. Critical decisions can be made quickly, with positive effects on the bottom-line of the business.

The EBI system technology has been developed alongside Honeywell's Industrial Automation and Control solutions, which have been well-proven worldwide in hundreds of mission-critical applications. Examples are offshore gas platforms and onshore oil terminals, where the consequences of system failure resulting in lost production are inevitably very expensive and are also safety-critical.

EBI is scalable to the size of an enterprise and is easily expanded as the organisation grows or requires more sophistication.

EBI uses PC-based client-server LAN/WAN-based architecture on Windows NT to provide cost-effective connectivity to any enterprise data infrastructure without the need for proprietary IT hardware. It is simple to operate and to configure: it not only uses the familiar Microsoft Windows operating environment but also has an easy-to-use interface coupled to an intuitive menu and Windows operating system.

EBI includes powerful software applications such as LifeSafety Manager, Building Manager and Security Manager. Each manages a particular facet of a building, while integrating to cover a total enterprise. LifeSafety Manager provides primary monitoring and full control of a building's smoke and fire detection systems and safe evacuation of occupants. In addition, its seamless combination of event information, response prompting and tracking capabilities makes it an exceptional incident management and regulatory compliance tool, if required by local codes of practice.

Building Manager integrates and controls products and subsystems for a building's HVAC, lighting, hydraulics and energy usage. Based on an open building automation architecture, this application works seamlessly with BACnet open protocol and LONMARK devices, as well as other third-party devices and subsystems.

Honeywell Security Manager allows building operators to control and monitor access and security at one or more installation. This application provides centralised alarming, cardholder management and the ability to acquire and use data from human resource databases. The security application has comprehensive reporting capabilities, with preconfigured standard reports and the ability to create reports customised to the facility's needs.

Contact: Finn McCool, McCool Controls & Engineering;
Tel: 01 - 855 0542;
Fax: 01 - 855 0546;
email: mail@mccoolcontrols.ie

When Integrated with other Honeywell Enterprise Building Integrator applications, Honeywell LifeSafety Manager enhances the productivity of the enterprise by providing total information access and control of the building.
SANYO Multi System Air Conditioners “Super ECO MULTI”

Environmentally-friendly HFC R407C available.
New Technological Leadership from Thermo Systems and Johnson Controls

The MS 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 MS 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 MS 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

---

Technical Sales Engineers

Standard Control systems require Technical Sales Engineers to promote their leading range of HVAC products throughout Ireland.

Experience in working with Consulting Engineers and Contractors within the building services industry is desirable.

Knowledge of Building Management Systems and control items is desirable though not essential, as full training will be given.

We offer unrivalled conditions and career prospects to the right candidates.

Please send your CV in strict confidence to:
The Personnel Manager
Standard Control Systems
Main Street, Leixlip, Co Kildare.
email: info@standardcontrol.com

or

Phone Tracy Flinter at
Tel: 01 - 624 6100 to arrange an interview.
In the world of building control technology, improving the working environment, conserving energy and raising fire and security standards are paramount.

Honeywell building controls can match the needs of any building precisely, from individual controls to a fully-integrated management control and protection system. Now, with McCool Controls and Engineering Ltd as sole Honeywell HVAC Solutions Partner, the broadest range of technological solutions has opened up in the Republic of Ireland.

Honeywell's reputation for quality and reliability is second to none, while McCool's established position in the Irish building controls industry, with branches in Dublin, Cork and Limerick, ensures a strong and healthy working relationship with all existing and future customers.

If you would like to know more contact:

McCool Controls and Engineering Ltd,
Unit 12 Docklands Innovation Park,
East Wall Road, Dublin 3.
Tel: 01 - 855 0542; Fax: 01 - 855 0546
Cork – Tel: 021 - 382055
Limerick – Tel: 061 - 372277

Honeywell and McCool have your future all mapped out
TIRED OF NEVER READY?

CALL SAVE, 1890 258 456

INSIST ON

AEVEREADY

An extensive range of Quality Products
At Competitive Prices. Guaranteed: Ex-Stock. 
Everything you need: AEVEREADY.

CONTROL AER: WITHOUT THE HASSLE.

CONTROL AER LTD.

KYLEMORE PARK NORTH.
DUBLIN 10

TEL: +353 (0)1 6260177
FAX: +353 (0)1 6260414
E-MAIL: sales@controlaer.com

01 6260177

CORK BRANCH. UNIT 12
SOUTH LINK PARK
SOUTH LINK ROAD, CORK

TEL: +353 (0)21 4381571
FAX: +353 (0)21 4381530

021 4381571
Control Aer is pleased to announce its most successful line ever...
‘The People’ who have made the company a nationwide success through dedication and hard work...
...and we are still growing!

ANNOUNCING
Control Aer (Cork) Ltd, Unit 12, South Link Park, Ballycurreen Road, Cork.
Tel: 021 - 4318511; Fax: 021 - 4318520
Mobile: 087 - 618 4474

DUBLIN
Kylemore Park North, Dublin 10.
Tel: 01 - 626 0177; Fax: 01 - 626 0434;
email: sales@controlaer.com
Webpage: www.controlaer.com
Safeguard VI
Fire and Smoke Damper Control Systems

Safeguard Systems
Unit 34 Southern Cross Business Park, Bray, Co Wicklow.
Tel: 01 - 01 - 276 1600;
Fax: 01 - 276 1611;
email: safeguard@iol.ie
Website: www.safeguard.ie

GUI
PC based graphical user interface

FSDAC
Ensures correct operation of fire/smoke damper

DI-04
Accepts inputs into the system

RO-04
Provides outputs from the system

Benefits

• Flexible open system
• Unlimited resources
• Windows™ platform
• Lonworks® protocol
• Fast commissioning
• Graphical User Interface (GUI)

• Network cable cost reductions
• Network cable polarity insensitive
• Remote monitoring
• Designed and manufactured in Ireland

BELIMO

Explosionproof and Industrial Actuators/Valves

https://arrow.tudublin.ie/bsn/vol39/iss6/1
DOI: 10.21427/D7NT4W
BMS – More than an Aid for H&V

There was a time and not too long ago, writes Robert Maguire, Managing Director, Pointer Control Systems, when any activity associated with control of heating, ventilation and building services was looked upon as a necessary evil and treated as such. Technology has moved on and H&V has now become HVAC and indeed much more. Its chief exponents have dispelled the myth of the nuisance control systems and now present an image of high-tech, systems designed and applied by highly-competent engineers who are capable of creating, installing and maintaining the total building solution. Pointer Control Systems is one of these companies.

The application of the control system can be somewhat complex in that the decision chain involves many disciplines which include developers, architects, consultants, main contractors, mechanical and electrical contractors, control system designers and end users (both employees within the building, and the facilities managers running the premises). I venture to suggest that while each link in the chain is important, the control system designers take centre stage and their impact on a successful installation is growing tremendously.

The reason is that the building management system has become more than a tool to ensure the efficient and economical operation of HVAC equipment; modern technological advancement has created the opportunities for so much more, and the clients – the building users – are demanding all the extras; they want the information and flexibility that a well-designed, finely-engineered and properly-installed and commissioned system can offer. They realise the BMS is the intelligence of the building, and they want to exploit it to its greatest extent.

At Pointer Control Systems we have expanded the company in such a manner to ensure those limits are wide. Over 15 years we have grown to be a multi-million organisation engaged in design, panel building, system configuration, commissioning, and ongoing maintenance. We are set to expand further in the immediate future with the creation of our access control division which will exploit one of the many controls regimes that are enveloped within BMS through the growing move to integration.

Pointer Control Systems is poised to be able to offer the total building solution, not just because of our in-house expertise, but also because of our ability to access the best products and equipment. The company is one of the oldest and most experienced suppliers of the Cylon building management system, but to ensure we have the right product for the right application we have strong ties with system manufacturers in Sweden and Germany, and we have become Ireland’s only Value Added Reseller for Controls Systems International, the Dallas-based manufacturer with a worldwide portfolio of clients and installations on all seven continents.

We are currently installing the CSI equipment in one of Dublin’s foremost construction projects and, while much of our activity of necessity takes place in the capital, Pointer installations can be found in every major city and town from Sligo to Cork.

Among the projects on our “completed” or “ongoing” lists are the University of Galway, Pennys Department stores, the Mansion House and the Concert Hall in Dublin, and the National Botanic Gardens.

We have been privileged to work with most of the major consulting engineers in Ireland and have strong relationships with all the leading M&E contractors. In fact, we believe that cooperation with each discipline at all levels is the key to the success of a project, and it has certainly been an important factor in the growth of Pointer Controls.

Contact: Robert Maguire, Pointer Controls.
Tel: 01 - 830 0533;
Fax: 01 - 830 0543;
email: pointers@iol.ie

The ACC building in Dublin which is typical of the scale and calibre of projects undertaken by Pointer Control Systems.
Innovative Myson Heating Controls

Potterton Myson has designed a comprehensive range of controls which guarantees complete control of home heating. Manufacturing of the highest standards have allowed the company to produce a top-quality product that’s kinder to the environment and reduces energy consumption. The range incorporates three main methods of heating control — time, temperature and flow control.

Time Control — Myson Heating Controls provides an extensive range of electronic programmers, which cover every possible control application. Accuracy and reliability result from this fully-electronic range, which is easy to set up and programme. A clear digital clock display with an LED status highlights how the system is working.

For less complex controls, Potterton Myson offers the Mini Minder E and Es. These controls merge the high accuracy and reliability of advanced electronic time control, with a user-friendly, easy-to-read clockface.

Temperature Control — (TRV-2-Way). The Myson TRV 2-Way is a highly-innovative product which is fully designed and engineered by Myson Heating Controls in Newcastle West, Co Limerick. Complete with the benefits of the well-established TRVII, such as the temperature-sensitive liquid element and the sculpted white wheelhead, it is available in a range of sizes. It also comes in a wide choice of finishes, including polished chrome, satin brass and nickel.

In standard TRVs many components comprise the internal spindle and disc assembly. However, in the TRV-2-Way, Myson uses a new bonding technique (patent pending), which prevents the flexing of this internal disc when water flows in the “wrong” direction. What results is the elimination of those all-too-familiar rattles and bangs.

To complement the standard 15mm Myson TRV2-Way, an extensive range of accessories is also available, including remote adjusters, remote sensors and theft controls.

Thermostatic Cylinder Valve (TCV) — Designed for use in domestic central heating systems, the new Thermostatic Cylinder Valve provides non-electric control of the domestic hot water temperature by limiting the primary flow or return.

Manufactured by Myson Heating Controls in Limerick, the TCV is both easy to install and simple to operate.

Flow Control (Power Extra Motorised Valves MPE) — The Potterton Myson MSV Range of System Control Valves was recently rebranded as Myson’s Power Extra Motorised Valves (MPE). This range of system control valves has been designed for use in fully-pumped combined central heating and hot water systems.

The MPE 222 and MPE 228 2-port valves will control the central heating or hot water circuit. Used in combination, these two valves will satisfy the requirements of most fully-controlled systems. If necessary, additional MPE 2-port valves can be used to split the central heating system into several circuits to provide greater control.

The MPE 322 and 328 3-port mid-position valves which can boast a market-leading 6-Watt Class ‘F’ Motor, will control both the central heating and hot water circuits simultaneously. These valves may be operated directly by the system programmer, or indirectly, by room and cylinder thermostats.

To complement the existing 22mm 3-port valve, Myson Heating Controls has introduced a 28mm 3-port valve.

Automatic Bypass Valve (ABV) — The Automatic By-Pass Valve is a system relief valve which can be used to balance the heating system. Combined with the thermostatic radiator and motorised valves, it allows the system pressure to be relieved when all other components are closed down.

Contact: Sean Hanratty, Myson Heating Controls. Tel: 069 - 62277; Fax: 069 - 62448; email: enquiries@myson-heat-controls.com Website: www.myson-heat-controls.com

Myson Heating’s TRV 2-Way radiator valve specification

DOI: 10.21427/D7NT4W
WE ARE THE LEADING SUPPLIER OF:

- HVAC Control Systems
- Energy Management Systems
- Max Demand Controllers
- Monitoring & Targeting Systems

SUPPLIERS OF:-

- Cylon – BEMS Systems
- Honeywell – HVAC Control Systems
- Landis & Staefa – Control Equipment
- Phoenix Laboratory Airflow Controls
- Paragon Air Flow Control Systems

FULL MAINTENANCE AND SERVICE BACK-UP FACILITY

24 HOUR CALL OUT SERVICE

Contact:

DUBLIN OFFICE
Unit 12, Docklands Innovation Park, East Wall Road, Dublin 3.
Tel: 01 - 855 0542; Fax: 01 - 855 0546; Mobile: 086 2580472/088 547197
eMail: mccooldu@iol.ie

CORK OFFICE
Unit 10, Ashdale House, Blarney, Co Cork
Tel: 021 - 382055; Fax: 021 - 382348;
eMail: mccoolck@iol.ie

LIMERICK OFFICE
Castleconnel, Co Limerick. Tel: 061 - 372277

BALLYMENA OFFICE
Unit 8, Ballymena Business Centre, 62 Fenaghy Road, Ballymena.
Tel: 08 01266 49422; Fax: 08 01266 49423
SCS 962 Supervisor Provides Low-Cost Access for Multi-Users

The use of a standard Web browser has greatly reduced the cost of providing Trend building management systems with multiple graphical operator interfaces. Trend's latest operator interface, the powerful '962' supervisor, is a client/server-based software package where a client comprises nothing more than the browser Internet Explorer. It thus costs very little to provide BMS access to anyone who might want it.

Suitable for any size of Trend system, the highly user-friendly 962 supervisor is designed for use with Windows 95, 98 or NT. To run a client application all that is needed is a PC and version 4 or 5 of Internet Explorer, which on many computer packages is supplied free of charge. Connection to the server requires no special networking arrangements and can be achieved via existing IT infrastructure.

Using 962, it would be an easy and inexpensive matter to give BMS access to hundreds of people within a building, allowing them, say, to adjust their local air conditioning and/or lighting. Someone such as an on-call engineer, who wants to interrogate a system remotely, could do so using a laptop and mobile phone. To minimise call charges, connection could be made via the Internet.

System monitored data is displayed on automatically-generated HTML pages, which can include photographs and dynamic graphics. Logged data values can be presented in graph form. Importantly, the information and adjustments available to a user can be exactly tailored to that person's needs. This means that an operator is never presented with more data or options than he or she requires, thus eliminating a major source of potential confusion.

However, for those whose job function demands it (such as an energy manager or building services engineer), access can be provided to every point on the BMS. Also, alarms can be categorised and then directed to the appropriate individual(s).

Operator adjustments might be limited to the changing of a single temperature setpoint or extend to all system settings. Authorised personnel could also use 962 (the server or a client) to make changes to system control strategy. Once the 962 server has been set up, the operator of a client supervisor only has to enter the server's address and log on. Any changes made at a client supervisor result in immediate updating of the server. Conversely, any changes made at the server are instantly available to all the clients.

Because a 962 client uses HTML pages it can be integrated with other applications. For instance, data from an access control system or images from CCTV cameras could be viewed on the supervisor's screen.

The price of 962 varies according to the number of clients that require simultaneous access to the building management system. For those wanting just a single 962 supervisor, a low-priced stand-alone package is available.

Standard Control Systems are the sole distributor in Ireland for Caradon Trend.

Contact: Cormac Walsh or Sean O'Toole, Standard Control Systems.
Tel: 01 - 624 6100; Fax 01 - 624 6105; email: info@standardcontrol.ie
Website: www.standardcontrol.com

ABB Goes International with Cylon

ABB, who have been closely associated with Cylon Controls since 1989, has recently signed an international agreement with the company to install and support the Irish BMS product throughout Europe. This increased market penetration is invaluable in the drive to raise exports which now account for 75% of all Cylon production. Cylon Controls Ltd is careful to ensure that Irish customers get the best possible service, and is happy to count ABB among the major installers of Cylon in Ireland.

Contact: Gerry Pembroke/ Dave McMenamin, ABB.
Tel: 01 - 405 7300; Fax: 01 - 405 7324;
email: information@ie.abb.com

The powerful 962 supervisor from Standard Control Systems
HITACHI is consistently recognised as a global leader in the air conditioning industry. Reliability. Innovation. Quality engineering. Efficiency. Performance. Excellent product range. Experienced and dedicated distributors. Whatever the criteria, HITACHI air conditioning leads the way. HITACHI have the financial and technological resources to ensure success through its commitment to a programme of continuous research and product development. This is confirmed by world firsts such as the scroll and semi hermetic compressors and the all DC inverter systems. It is this commitment which keeps HITACHI ahead. It is this commitment which makes HITACHI the future of air conditioning!
Exhibition and Workshop Formula Proves Perfect Combination

The value of the combined workshop/exhibition formula of the Energy Show 2000 was confirmed once again last month with almost 100 exhibitors enjoying an excellent visitor turnout. Apart from increased numbers, the overall mix was such that virtually every relevant industry sector was represented. Included were energy managers, consulting engineers, architects, property managers, factory and facility managers, waste management companies, independent power producers, agri co-ops, hoteliers, educational establishments, hospitals, sports facilities, financial controllers, banks and financial institutions, central government departments and local government officials.

The move to the much larger Industries Hall at the RDS made a significant difference, both exhibitors and visitors alike citing easier access, better car-parking facilities, better stand layout, and much broader aisles as critical innovations which made for a far more successful event.

All the workshops were over-subscribed, making for a particularly intensive buzz at break times when the delegates spilled out on to the exhibition floor. While there were all manner of products on display, the unique formula of The Energy Show meant that, apart from specifics, they also served as conversation and discussion backdrops to more in-depth and lengthy discussions.

More than anything else the Energy Show is an industry talking shop which facilitates and encourages a better understanding of how greater efficiency in energy usage can reduce our demand for energy, and how renewables can increase the overall sustainability of our energy supply.

For those who missed the workshops, herewith is a brief synopsis of the subject covered. Further details are available from the Irish Energy Centre.

Monitoring & Targeting (EE1)
M&T is a disciplined approach to energy management which ensures that energy resources are used to the maximum economic advantage. It is the collection, interpretation and reporting of information on energy use with a view to reducing energy consumption and associated costs. This workshop introduced the techniques and practices involved, and supported this with case studies.

Combined Heat & Power (EE2)
This workshop introduced the delegates to the technology, environmental benefits, financial considerations and potential applications for CHP.

Opportunities in Bioenergy: Municipal Biogas and Wood/Waste CHP (RE1)
Energy technologies offer a range of sustainable waste management solutions. This workshop covered municipal-scale biogas technologies and wood/waste combined heat and power.

Wind Energy Opportunities (RE2)
Wind energy development can be expected to increase sharply over the next few years in line with government policy. This workshop looked into opportunities for investors, developers and companies interested in local power production.

Refrigeration (EE3)
Refrigeration can account for up to 50% of the total electricity demand in a plant. Studies have identified energy cost savings of up to 30% achieved through the upgrading of existing systems and improved design of replacement systems. This workshop reviewed areas for energy saving opportunities and provided an update regarding legislation and the phasing out of certain refrigerants.

Renewable Energy Solutions for Irish Buildings (RE3)
Space and water heating account for 60-80% of energy consumption in buildings. As this workshop outlined, much of this energy can be provided sustainably and economically using free solar and ambient energy resources.

Boiler House Energy Efficiency (RE4)
Boilers continue to be major users of fossil fuels and contributors to greenhouse gas emissions. This workshop looked at the environmental and insurance issues facing boiler users. Speakers from a wide range of backgrounds demonstrated how boiler operations can be improved making them cleaner, safer, more efficient, reliable and environmentally friendly.

The Changing Market for Renewables (RE5)
The Kyoto Protocol, electricity market liberalisation and the on-going review of renewable energy policy are opening new opportunities for energy producers and users alike. This workshop examined the market for electricity from renewables.

Energy Management in Action (EE5)
The objective of this workshop was to provide a step-by-step practical update — through a collection of case studies and presentations — of the benefits of energy management application throughout different sectors. It also highlighted the energy savings that can be achieved.
Toshiba Simplifies Room Controls

Toshiba has gone back to the controls drawing board with the customers' interests at heart. The new Toshiba room controller has been developed without internal and external timer functions which commonly lead to frustration and confusion among room occupants who want instant gratification and minimal interaction with their room comfort conditioning system.

Just four operating modes are available - auto, cool, heat and fan - using a single button.
Temperature adjustment from 18-29°C is up or down and the fan and louvre are also adjustable.

Engineers have four further test functions available to them, including a self-diagnostic programme and a network communications feature.

The controller can be used to override central control of a system and may also be used to control either single rooms or groups of up to 16 individual heat pump indoor units.

Contact: Gerry Phelan, GT Phelan. Tel: 01 - 286 4377; Fax: 01 - 286 4310; email: gtpelan@eircom.net

Danfoss and Fridge Spares Agreement

Danfoss Ireland Ltd and Fridge Spares (Wholesale) Ltd have finalised a sales and marketing agreement covering stocking and supply of the full range of Danfoss control components for refrigeration and air conditioning applications in Ireland. The agreement means that Fridge Spares (Wholesale) Ltd will carry the Danfoss commercial components product range as a main stockist, ensuring availability through their branches in Dublin, Cork and Belfast.

Danfoss Ireland will continue to maintain existing supply agreements with customers while providing direct technical support and promotion of their products at all customer levels in the market place.

"We are delighted to have this sales agreement with Fridge Spares (Wholesale) Ltd", says John Sampson, Managing Director of Danfoss Ireland Ltd. "With three outlets and committed stock of our full Danfoss refrigeration components range at Fridge Spares (Wholesale) Ltd, the agreement provides an effective sales partner ensuring Danfoss product availability and support for our commercial refrigeration customers throughout Ireland".

For his part Dermot Byrne, Managing Director, Fridge Spares (Wholesale) Ltd, said: "We are committed to supplying the refrigeration trade with high-quality product solutions. Combining products from a leading controls company such as Danfoss with our existing portfolio ensures we maintain the best product option for our customers".

Danfoss product lines available through Fridge Spares (Wholesale) Ltd will include: T/TE expansion valves with interchangeable orifice; the New TU/TC revolutionary all-solder, stainless steel expansion valve series; EVR solenoid valves; the new Eliminator® drier range (standard, bi-flow and/or burn-out); SGN extra sensitive sight glasses for new refrigerants; check valves; pressure regulators; motor control gear; and selected electronic AKC control systems for cold rooms.

The agreement does not include Danfoss Maneurop compressors and condensing units, or the Adap-Kool® control and monitoring systems, all of which will continue to be supplied either direct from Danfoss Ireland and/or through existing channels.

Contact: John Sampson, Managing Director, Danfoss Ireland. Tel: 01 - 626 8111; Dermot Byrne, Managing Director, Fridge Spares (Wholesale) Ltd. Tel: 01 - 8303 466.

O'Reilly Joines Gypsum Industries

Meath All-Star Mark O'Reilly has been appointed Sales Representative for Gypsum Industries. He will be responsible for builders merchants in the greater Dublin area and house building sites in Dublin and in parts of Meath and Kildare. Mark has considerable experience of the builders merchant trade. He has previously worked with Goodwins Builders Merchants in Mulhuddart and Chadwick branches in Lucan and Walkinstown.

Published by ARROW@TU Dublin, 2000
These fans can be supplied with safe extra low-voltage (SELV) controls and in a choice of colours to complement any decor style. Options include remote control versions and automatic models which react to air quality, personnel detection and other such relevant functions.

Contact: Martin Finnegan, Control Aer  
Tel: 01 - 626 0177;  email: martin@controlaer.com

Qualceram pays £40m for Shires  
Qualceram has acquired Shires, the British manufacturer of toilet and bathroom products. Shires has five manufacturing plants in Britain – two ceramics plants in Stoke, an acrylic plant in Bradford, a shower enclosures plant in Rochdale, and a fireclay plant in Darwen. Shires also has distribution operations in Ireland and Britain.

Qualceram Company Secretary Mr Aidan Clince declined to go into detail on the funding of a takeover of a company more than three times its size in terms of turnover, but he said the funding would be a mixture of debt and equity.

Photo shows Solar & Palau adjustable inline cased axial fan from Ventac

Oerre Smart Series commercial fans are available from Control Aer  
These fans can be supplied with safe extra low-voltage (SELV) controls and in a choice of colours to complement any decor style. Options include remote control versions and automatic models which react to air quality, personnel detection and other such relevant functions.

Contact: Martin Finnegan, Control Aer  
Tel: 01 - 626 0177;  email: martin@controlaer.com

Oerre Intra ultra-quiet fan from Control Aer  
especially welcomed by architects. Additionally, all units are of the highest manufacture and performance quality and are supplied with a 5-year guarantee. Oerre has the approval of the Institute of “Machiao Di Qualita” (an organisation similar to Ireland’s National Standards Authority) for over 25 years. This guarantees compliance with air quality certification CSQ Institute: UNI EN ISO 9001. Among the most recent additions to the Oerre portfolio is Intra, a range of ultra-quiet fans which are ideally suited to conference rooms and apartments. They comprise a powerful centrifugal fan which is flush-mounted in the ceiling, with a stylish grille and back-draft shutter as standard.

Equally innovative is the Smart Series of commercial fans which is intended for installation in windows, walls or panels, either surface or flush-mounted.

Qualceram pays £40m for Shires  
Qualceram has acquired Shires, the British manufacturer of toilet and bathroom products. Shires has five manufacturing plants in Britain – two ceramics plants in Stoke, an acrylic plant in Bradford, a shower enclosures plant in Rochdale, and a fireclay plant in Darwen. Shires also has distribution operations in Ireland and Britain.

Qualceram Company Secretary Mr Aidan Clince declined to go into detail on the funding of a takeover of a company more than three times its size in terms of turnover, but he said the funding would be a mixture of debt and equity.
Your Clients & Their Neighbours will be pleased you chose Climaveneta

THE SILENT CHILLER

Belgard Road, Tallaght, Dublin 24.
Tel: 01 - 405 7300
Fax: 01 - 405 7327
Little Flowmeter Doesn't Just Go With The Flow – It Controls It!

The new Series VFF Visi-Float® flowmeter from Manotherm allow the user to set the flow rate, while visually monitoring it. These small, durable instruments — designed to handle pressures up to 100 psi (690 kPa) and temperatures up to 150°F (85°C) — can be used to control and/or indicate water flow in a wide variety of applications. They may be installed in any position.

Operation of these flowsetting flowmeters is extremely simple, as is maintenance. The metering tube is machined into the solid-acrylic housing. The measurement scales are hot-stamped into it. Standard O-Ring for the series is Buna-N, while Viton® may also be ordered. Standard fittings are 3/8" NPT nickel-plated brass, with 303 SST also available.

Models for this series cover three GPM ranges (0.5 to 2.0; 2.0 to 5.0; 5.0 to 8.5). All models are in stock and ready for shipment.

Contact: Bob Gilbert/Brian Harris, Manotherm.

Expo Exhibitions Joint MDs

Expo Exhibitions Ltd, Ireland’s leading organiser of exhibitions has appointed Garret Buckley and Alan Murphy as Joint Managing Directors of the exhibition, conference and event management company. The announcement was made following the recent acquisition of John Palmer Exhibitions Ltd (see BSNews May 2000).

Garret Buckley joined the Expo team as Sales Executive in 1989, rising to the position of Sales and Marketing Director, before his most recent appointment. He is also Chairperson of the Irish Exhibition Organisers Association.

Alan Murphy joined the Expo Group in 1998 as Operations and Finance Director. He has a vast range of experience in relation to the financial planning and the on-site planning aspects of the exhibition industry, which he developed working with major international companies.

Alan Murphy (left) and Garret Buckley, who have been appointed Joint Managing Directors of Expo Exhibitions Ltd.
Noise Control Products For Industrial & OEM Applications

**Sound Absorption/Noise Barrier Acoustical Curtain Systems** are rugged and tough enough to handle the harshest industrial environments. STC ratings up to 35 offering significant noise reduction while allowing for complete access, as well as visibility and ventilation. Easy installation on floor mounts, suspended, and wall mounted frames.

**Quilted Fiberglass and Barrier Composites** are used in OEM applications to control noise in engine compartments and transmission humps. Also suitable for industrial applications, these acoustical-absorptive 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 limp, tough, high temperature bonded loaded vinyl with nonlead filters 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 Flameability rated barrier.

**Portable Acoustical Enclosures and Screens** for 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 & 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 ETA approved sanitary baffles.

**VBD-10 Damper Compound and Sound damp E Sheets**-Structure-borne vibration can be effectively and economically reduced with a simple application of either product. Damper compound may be brushed, sprayed or sprayed. Paintable when dry. Meets ASTM E-162 and E-162 Durable and Flash. Wide temperature range. Ideal for OEM applications including rail, bus and marine. Excellent in industrial applications. Self adhesive coating 20", 60" thick. Meets UL-94. Cuts easily to any size.

**Acoustical Pipe & Duct Lagging**-Features a loaded vinyl foam barrier with a reinforced aluminum foil facing. Used for wrapping steel, iron and plastic pipes, sheet metal duct work, and many valves, radiators and hoodrails. Excellent durability and corrosion resistance, high environmental and rain 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 Flameability-rated with STC rating up to 33 and NRC rating up to 1.05.

---

**NCRL Europe**

Noise Control Research Laboratories Ltd.
11 Fitzwilliam Quay, Ringsend, Dublin 4, Ireland

Tel: 353-1+6671077, Fax: 353-1+6671055
Web: www.ncrl.net E-mail: ctking@ventac.ie

NCRL Europe is a subsidiary of Ventac & Co Ltd.

www.ncrl.net

Published by ARROW @ U. Dublin, 2000
ARE YOU PREPARED TO GAMBLE
£700 MILLION BUILDING SERVICES
BUSINESS OPPORTUNITY?

You Don’t Need To

To guarantee that your products are specified, and that you share in the profit potential of Ireland’s £700 million Building Services Industry, be listed and advertise in the

**BSNews BUILDING SERVICES BUYER GUIDE**

**CONTACT**

Joe Warren, Advertising Director
Tel: 01 - 288 5001; Fax: 01 - 288 6966;
email: joe@pressline.ie
York Chiller has ‘Smallest Footprint’

York has introduced a new screw chiller, the YASX 'Churchill', which is claimed to have the smallest footprint per kW of cooling of any chiller on the market.

Andy Green of York says: “Churchill can deliver more than 70kW of cooling per m² of floor area and is one of the new range of York chillers that has been engineered from scratch around the performance characteristics of the new refrigerants, in this instance R407c. The Churchill has been designed to suit replacement chiller work or new build applications where roof space is particularly tight”.

Available in six models from 250kW to 500kW, the Churchill can be located externally on a rooftop or at ground level. Twin helical semi-hermetic screw compressors ensure reliable performance along with easier maintenance. The compressor motors are gas cooled with built-in overload protection and provide a capacity control range for 15% to 100% of the full chiller load.

Independent refrigerant circuits are provided with each compressor. Economisers are fitted to circuits on three of the models to maximise chiller capacity and efficiency by sub-cooling liquid refrigerant delivered to the cooler expansion valves. The refrigeration circuits are designed to minimise acoustic breakout with additional sound reduction options available for particularly acoustically-sensitive projects.

Contact: Andy Green, York. Tel: 01 - 466 0177; Fax: 01 - 466 0198; email: yorkacr@tinet.ie

DIT, Building Maintenance Management Courses

This programme in building maintenance management provides a focus for what has become an area of increasingly-significant and complex professional activity in the property sector.

The on-going responsibility for conducting effective management in the maintenance, repair and refurbishment of buildings lies with the building maintenance manager. In this context the building maintenance manager is responsible for all aspects of maintenance associated with the care and upkeep of existing buildings, old and new.

The Dublin Institute of Technology, Bolton Street — in association with the Institute of Maintenance and Building Management (IMBM) — continued to offer the successful and popular Maintenance Management Programmes of Study on a modular basis during the academic year just ending.

These part-time evening programmes incorporate topics on Corrective and Preventative Maintenance; Finance and Coatings; Contract Law; Health, Safety & Welfare at Work; and Communications Techniques.

The programmes are geared towards personnel engaged in building maintenance work in both the public and private sectors, and the basis on which they are operated allows great flexibility to anyone attending to obtain new or additional skills in Building Maintenance Management.

Due to the continued success of the 1999/2000 programme, it is planned to repeat similar modules commencing September 2000.

Each module is approximately 36 hours duration and is run over a 12-week period. The Institute would, depending on demand, be prepared to offer the various modules to company groups.

Contact: Fred Hosford. Tel: 01 - 402 4016; Fax: 01 - 402 3999

Carrier Selection & Specification Bible

Copies of Carrier's comprehensive hard-cover, full-colour, product catalogue and selection guide are now available from Core Air Conditioning.

This 23-page publication covers the entire Carrier range and includes full product descriptions, along with physical data, dimensions, electrical data, accessories, features and related benefits.

Contact: Austin McDermot, Core Air Conditioning. Tel: 01 - 294 3170; Fax: 01 - 294 3115; email: coreac@iol.ie Website: ireland@iol.ie/coreac

York's new Churchill chiller which has been developed for applications where space is at a premium. It can deliver 70kW plus of cooling per m² of space it occupies.

Performance along with easier maintenance. The compressor motors are gas cooled with built-in overload protection and provide a capacity control range for 15% to 100% of the full chiller load.

Independent refrigerant circuits are provided with each compressor. Economisers are fitted to circuits on three of the models to maximise chiller capacity and efficiency by sub-cooling liquid refrigerant delivered to the cooler expansion valves. The refrigeration circuits are designed to minimise acoustic breakout with additional sound reduction options available for particularly acoustically-sensitive projects.

Contact: Andy Green, York. Tel: 01 - 466 0177; Fax: 01 - 466 0198; email: yorkacr@tinet.ie
**TRADE NEWS**

**Thermal Heat Exchangers Investment Programme**

Thermal Heat Exchangers of Drogheda has just completed Phase 1 of its investment programme in its Irish plant. The installation of a new state-of-the-art polyester powder paint facility will provide customers with the best weather-resistant finish on the market.

Martin Winters, Operations Manager of Thermal said: “The installation of the new paint plant underscores out commitment to providing excellent price value to our customers and, with the Irish weather, this type of durable finish will be appreciated”.

The finish is not only the advantage the new plant brings. The company has also eliminated the use of all VOC paints, thus making the new finish environmentally-friendly. Additionally, lead times for condensers and dry coolers have been dramatically reduced. Sheet metal can now be punched, bent and painted in a few hours.

Thermal Heat Exchangers offer six complete ranges of air cooled condensers and dry air liquid coolers. In addition to their standard range, they also offer a series of V shaped condensers with up to 1600kW of capacity for more specialised application.

Contact: Stephen Rock, Thermal Heat Exchangers.
Tel: 041 - 9831051; Fax: 041 - 9832117; email: thermal@indigo.ie

---

**4Eveready... or We Pay You!**

4Eveready is a unique and innovative concept introduced by Control Aer to combat the losses incurred by contractors for delays in the ready availability of certain product items. The problem invariably arises because of the poor stock levels of many suppliers, though poor planning and lack of allowances for lead-times can also be a contributory factor. Either way the bottom line for the contractor is additional hidden costs which can mean an actual loss on the project.

Hence the introduction of 4Eveready by Control Aer. As the name suggests, Control Aer is for-ever-ready, always capable of supplying product ex-stock across a broad range of ventilation equipment covered in the catalogue by the 4Eveready concept.

But it is easy to make such claims. However, where 4Eveready differs from other similar concepts is in the “We Pay You” rider which accompanies the 4Eveready slogan. Again it is self-explanatory. If the product is not available ex-stock Control Aer will provide a generous saving on your overall order.

Contact: Michael Renaghan, Control Aer.
Tel: 01 - 626 0177; email: michael@controlaer.com

---

**Control Aer (Cork)**

Control Aer has appointed Robert Holmes to the Board of Directors of Control Aer (Cork) Ltd. Robert brings considerable knowledge and experience to the Board and will be responsible for the development of Control Aer sales in the Munster region. A depot is currently being fitted out and Robert and his staff will be servicing Cork city and the surrounding region.

Robert’s background is in the sheet metal trade, being a National Apprentice of the Year Winner 1992. He has worked with leading companies such as GB Metal and Pat Hynes, and has acted as site foreman and site manager on significant projects such as Boston Scientific in Galway and Kodak.

“Sub-standard products, late deliveries and uncompetitive pricing has been tolerated because choice was not available”, says Robert. “I can assure Munster customers that a big change is at hand”.

---

Contact: Michael Renaghan, Control Aer.
Tel: 01 - 626 0177; email: michael@controlaer.com

---

https://arrow.tudublin.ie/bsn/vol39/iss6/1
DOI: 10.21427/D7NT4W
Safeair – The Portable AC Specialists

Safeair Systems specialise in the hire and sale of portable air conditioning equipment and are based in the new Southern Cross Business Park in Bray. They are the Irish representative for Mizushi, the market leader in portable air conditioners for commercial and domestic applications, and also for Broughton commercial/industrial portable air conditioners.

Additionally, Safeair has a unique wall-mount portable, with or without heat pump, which is ideal for small offices, portacabins, conservatories and dormer bungalows etc.

With the largest hire fleet and most competitive hire tariffs, Safeair prides itself on its professional approach and its whole company ethos is based on meeting customer needs and providing customer service.

Safeair surveys clients’ premises to identify the correct portable(s) that will meet their requirements before agreeing a hire contract.

Capacities range from 2.2kW to 7.9kW and are available on same or next day service. All run from a standard 13-amp socket.

Safeair also sells, installs and services Mitsubishi fixed air conditioning systems and all staff are fully trained and certified in commissioning/servicing of systems and safe handling of refrigerant. The company’s electricians work to, and are approved to RECI standards.

Contact: Safeair Sales.
Tel: 01 - 276 1600;
Fax: 01 - 276 1611.
email: safegard@iol.ie

Mizushi mini split portable air conditioner from Safeair Systems

Fumex Extraction Arms

The Fumex Extraction arms from Ventac are the easiest and most cost-effective solution to eliminate at source, fumes, vapours, gases, and any other air pollutant produced in the working environment.

Fumex has the widest range of high-quality extractor arms available in the Irish market, typical features including:

- The arms are completely free from internal parts. This results in a minimal loss of flow and most effective suction as well as there being no parts exposed to chemical erosion;
- Greater flexibility which ensures closeness to the source of pollution;
- Remains stationary, without rebounding when positioned;
- Delivered fully-assembled for easy installation.

Accessories include:
- Stainless steel hoods;
- Magnetic nozzles;
- Portable fans;
- Hose reels exhausts.

Full information on Fumex Extraction arms, and a range of fans and control devices to suit are available from Ventac.

Contact: Caimin Hall, Ventac & Co.
Tel: 01 - 667 1077;
Fax: 01 - 667 1055;
email: sales@ventac.ie

Fumex extraction arms from Ventac are suitable for wall or ceiling mounting. The spring-return locks when the desired amount of hose has been rolled out. Hose diameters — 100mm; 125mm; 150mm. There are also accessories that facilitate connection to different exhaust pipes.
**Eurovent/Cecomaf Questions Danish Proposals**

Proposals from the Danish Environment Protection Agency for the phase-out of industrial greenhouse gases, including hydrofluorocarbons (HFCs), have been called into question by Eurovent/Cecomaf, the pan-European organisation representing air conditioning and refrigeration equipment manufacturers.

It stresses that, to comply with the Montreal Protocol and subsequent European legislation, its members have taken positive steps to abandon refrigerants based on chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs), and to move towards the use of more "ozone-friendly" HFCs.

The organisation believes that, in respect of most applications, the HFC option remains environmentally the best alternative to CFCs and HCFCs in air-conditioning and commercial refrigeration applications, arguing that HFC-based equipment is reliable, economical, energy-efficient and safe to manufacture and maintain.

Eurovent/Cecomaf acknowledges that, as HFCs do contribute to global warming, their emission to atmosphere must be minimised. But it points out, according to the Intergovernmental Panel on Climate Change, HFCs will account for just 2% of all greenhouse gases by 2050, and that by far the largest global warming potential lies in carbon dioxide produced by energy producers such as power plants consuming fossil fuels.

Eurovent/Cecomaf adds that a study of the lifecycle performance of the products manufactured by its members proves that over 90% of the CO2 generated derives from the use of electricity, and less than 10% from greenhouse gases emitted through equipment leaks or incorrect operation.

Eurovent/Cecomaf is keen to contribute effectively, through its members, to the worldwide reduction in greenhouse gas emissions. It therefore recommends the development of environmentally-beneficial measures in respect of:

- the recovery and recycling of HFC-based refrigerants;
- the containment of refrigerant and the minimisation of refrigerant leaks;
- the introduction of minimum standards for safe refrigerant handling;
- the engagement on all service contracts of qualified personnel.

---

**Hardware for Software**

Sean O’Kelly, Deputy Managing Director, Panasonic Ireland introduced the company’s new range of notebook computers, called “Toughbook”, recently.

The Panasonic Toughbook is designed to take the roughest and toughest field conditions and can withstand vibration, shock, rain and dust, the major causes of damage to notebook PCs. The Toughbook has a new field design LCD with touch-screen, which allows for a clear, easy-to-read display even when out of doors. The outer casing is made of a tough magnesium alloy that is 20 times stronger than ABS resin. A new, thick sock-damping material is used to isolate the hard disk drive, which helps to protect the data if the PC is dropped by accident.

Speaking at the launch, Patrick Hughes, Manager, Business Systems Division, Panasonic Ireland said: “In toughness, compactness and windows versatility, this rugged notebook PC is in a class of its own. The Toughbook in fact will give all field sales and service specialists and operates the power and performance they need even in the harshest of outdoor conditions.”

Contact: Orlaith Doyle, Panasonic. Tel: 01 - 295 9966; email: Orlaith.doyle@panasonic.ie

---

**Grundfos Takes over Myson Pumps**

The English pump company Myson Pumps, a division of the Baxi Group which is Europe’s largest boiler manufacturer, has been taken over by the Grundfos Group. This acquisition is based on Grundfos’ strategy of achieving double-digit growth every year.

Myson Pumps, located in King’s Lynn, West Norfolk, has 168 employees and a 1999 turnover of £13 million. Approximately 90% of the company’s sales are generated on the UK market ... the rest on European markets.

The product range of Myson Pumps will be a supplement to Grundfos’ circulator programme and so the acquisition will open up for new markets in the heating, ventilation and air conditioning area for Grundfos.

Contact: Gordon Barry, Grundfos Ireland. Tel: 01 - 295 4926; Fax: 01 - 295 4739. email: gbarry@grundfos.com Website:www.grundfos.com
There are fittings...

Don't settle for cheap imitations that leave you knee deep just when you least expect it!

Conex is the established brand name for quality that plumbers know and trust!

So when it comes to quality just ask for Conex.

The name for quality fittings!

then there's

CONEX

THE NAME FOR QUALITY TRIFLOW SOLDER RING AND COMPRESSION FITTINGS