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BS News

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Split Systems – Increased Sales But Whither Margains?

As we approach that time of year when the weather should improve and we should get some warmer days, those involved in the split system market are getting their sales teams fully wound-up to get a share of the only growing sector in the Irish airconditioning market. Market size is always a point of contention and *BSNews* has done some research to try and establish what it is in this important market sector.

The information below was compiled by independent consultants through contact with a number of companies and individuals, and the values quoted are based on dealer/installer sales prices, excluding any installation costs and VAT.

The three leading market shareholders are Mitsubishi through their dealer network; Toshiba through GT Phelan Ltd; and Hitachi/Lennox through Rink Air Conditioning Ltd. These three

companies have an estimated combined market share in excess of 60%.

Another 20% is shared between Marstaire through Crossflow Airconditioning Ltd; Daikin through Coolair Ltd; Sanyo through Redbro Ltd; and Panasonic through Walker Air Conditioning Ltd.

There are numerous other companies who participate in this market and it is estimated that they have a combined market share of 20%.

The market size for split systems is estimated to be of the order of £5.4 million to £5.8 million.

From the consultants discussions with the various companies, it was concluded that while it is a large and growing sector of the broader air conditioning market, it has become extremely competitive in the last number of years. This competitiveness is due to a number of factors, the drive for market dominance being the

principal cause. The ever-increasing number of players is also a contributory factor.

The bottom line is reduced prices, despite manufacturers increased costs, leading to continuous margin erosion. With the prime selling season about to commence, this is a matter requiring immediate attention.

Installers Beware!

CEN – the European Committee for Standardisation – has prepared a new Draft Standard for the use of cold water cisterns in dwellings which will shortly be implemented by all CEN member states, including Ireland. The implications for domestic installers are significant. See page 4.

VEHA KING OF THE CASTLE!



Jim O'Reilly, Commercial Director, Veba, Wicklow, with Group Chairman, Tony Mullins and Basil Farnham, Glenhill Merchants, Belfast, pictured at the recent Veba weekend in Ashford Castle. Full report on pages 22/23/24.

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The Energy Conservation & District Heating
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saturation coverage of all those with an
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Contents

PAGE 4

INSTALLER ADVICE LINE

A Draft Standard for the use of cold water storage cisterns within dwellings is soon to be adapted by all the national standard bodies within the EU, Ireland included. The implications for installers are significant.

PAGE 5

ROM PLASTICS

Innovative, yet simple... but always top quality.

PAGE 9

TRADE NEWS

Irish Energy Centre Headquarters; 'Batimat an Absolute Must'; Anglo-Irish Projects Conference; Selling Ireland's Environment Expertise; Standard Control Systems Unique Installation at The Davenport; IS EN ISO: 1994 Accreditation for Tempair; BTU Forthcoming Events; Airwell Shouts it from the Rooftops; Trianco Super Flo; Built-in Knee Safety; Mark Gets CE Approval.

PAGE 13

WAC SERVICES

Quality ECO Care Specialists – a 4-page, full-colour report.

PAGE 17

BSNews TECHNICAL ADVICE LINE

This month Bob Gilbert of Manotherm Ltd highlights the benefits of using a 3-way control valve on boiler feed applications.

PAGE 18

GRILLES, LOUVRES, DUCTING AND FILTERS

Season Control issues price list; Better prices from Dan Chambers; Low Velocity Displacement units from Finheat;

PAGE 22

VEHA KING OF THE CASTLE!

Last year it was Killarney ... this year it was the celubrious setting of Ashford Castle. Places on the Veba weekend soiree are now much coveted, invited guests deeming it the most presitiguous occasion within the building services social/business calander of events. This report includes a photographic round-up of the weekend.

PAGE 25

CHIMNEYS

Powrmatic System flue from HCD; Flamco Brefco ... Beware Imitations!; Multipurpose Vents, Chimneys, and Flues from Selkirk.



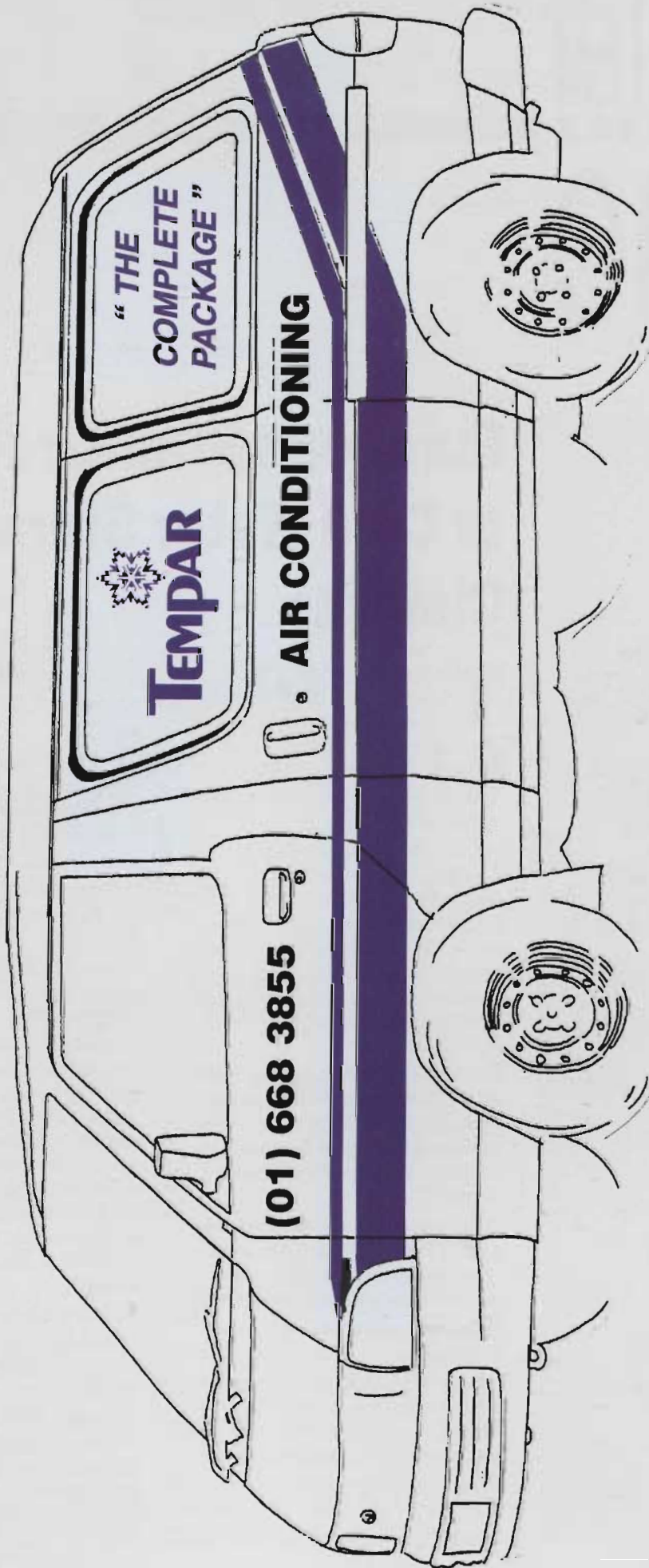
Peter Cullen
with Brendan
Grace and Jim
O'Reilly. It was
the 1st April
and it's
Brendan's
birthday ...
honestly! See
pages 22/23/24

nsai



I.S. EN ISO 9002 : 1994

Quality Assured



Customer Driven

Installer ADVICE line

A Draft Standard for the use of cold water storage cistern within dwellings has been produced. This Standard is soon to be adapted by all the national standard bodies within the EC, Ireland included.

European Standardisation of Cold Water Storage Cisterns

The European Committee for Standardisation (CEN) is situated in Brussels and deals with the harmonisation of standards throughout Europe. This involves the creation of new standards as well as the harmonisation of existing ones.

Currently, there are quite a number of Technical Committees working on standards for the building industry. Some are at the very early stage and will take a number of years before an EN standard is produced, but there are others which are in place and which will be adapted shortly by the various CEN members, writes *PJ Feerick**.

In October 1994, a Draft Standard for the use of cold water storage cisterns within dwellings was produced. This Standard is soon to be adapted by all the national standard bodies within the EU, Ireland included.

At first look this 49-page document seems daunting and unworkable. However, on closer scrutiny the actual effect on the installation can be summarised as follows.

The changes required under this Standard means that:-

- ☐ Every cold water storage cistern must be installed in such a way that it will prevent the entry of any type of contaminates, be it dirty water, insects or dust particles;
- ☐ It must be insulated against heat and frost;
- ☐ It must also exclude light;

☐ At the same time, it must not be air tight. The end result of these requirements means that:

- ☐ The tank has to have a close-fitting cover;
- ☐ A purpose-made insulation jacket;
- ☐ The overflow pipe has to have a filter to exclude insects;
- ☐ Any expansion or vent pipe has to be attached to the lid in such a way that dirt etc is excluded;
- ☐ A special filtered breather must be attached to the lid to allow the free exchange of air.

To the installer, this may seem a very cumbersome system and he may wonder how he is going to insure that his work will comply with the Standard. However, this may not prove to be as difficult as it might seem, thanks to the ingenuity of the tank manufacturers. Most have come up with a kit of parts to suit their products, including full instructions. These kits, insulation jacket and lids are now available throughout Ireland.

Existing installations can also be brought up to the requirements of the Standard by the use of these kits, lid for the tank and an insulation jacket.

While there are a lot of other, additional requirements within the new EN Standard, they are only relevant to the tank manufacturers.

* PJ Feerick is Managing Director of Rom Plastics Ltd.

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Combining Quality Plastics

Rom Plastics is something of a paradox. On the one hand there is the simple, down-to-earth trading philosophy, which makes for excellent customer relations. No problem is insurmountable with all reasonable — and at times unreasonable! — requests being dealt with promptly, efficiently and, above all else, with the minimum of fuss.

On the other hand this is complemented by highly-sophisticated manufacturing and quality control procedures which utilise the most technologically-advanced production processes and equipment.

ROM Plastics' strength is its ability to marry the two together. This it does effortlessly, such is the quality ethos

which permeates all companies within the ROM company network. Apart from the obvious benefits of quality products enjoyed by ROM's customer base of builder, plumbing and general hardware merchants, there is the added security that all necessary professional

support and technical advisory facilities are immediately to hand to be availed of as required.

A further advantage is that ROM Plastics never stands still. Its portfolio is forever changing with innovative new products continuously coming on stream. These are invariably industry led in that they are designed and developed to meet a particular market niche or an identified requirement for a solution to a specific problem.

The sophistication of the systems employed by ROM Plastics and its inventive abilities are perhaps best illustrated by the extent and scope of the diverse products conceived, designed, developed and successfully brought to the marketplace in recent years. Apart from building services-related products, these include road cones; a unique exhibition display stand which extends to 12m by 2m yet folds away into a case measuring only a metre; a ducting chamber for UK cable companies; and the internationally-successful and highly-acclaimed Amphicat boat.

Complementing its own-manufactured product line-up is a similarly extensive and diverse range of

building services products from international, market-leading brands such as Pegler, Sunvic, Mears, T&D, Jendico, Orkli, Spirella and Sovereign.

The common denominator running through entire product portfolio is quality. ROM Plastics operates to IS EN ISO 9002 and is affiliated to all

relevant quality-conscious bodies such as OFTEC and the Association of Rotational moulders.

ROM Plastics comprises four separate companies — ROM Plastics Sales Ltd, Dublin; ROM Plastics Ltd, Glenamaddy; Romplas Ltd, Belfast; and Romplas Teo, Rosmuc. It employs a total of 100 people and, in addition to Ireland, has significant worldwide sales in Canada, America, France, Germany, Holland, Turkey, Italy and the UK.



The Rowen bath is a particularly good example of the inventive capabilities of Romplas. It comprises a free-standing "oide worlde" style bath which stands on cast metal feet.

With Eco-Friendly Solutions

ROM Plastics Ltd

ROM Plastics Ltd stands on a 6.5-acre site in Glenamaddy which includes nearly 40,000 sq ft of covered manufacturing area. Rotational moulding, vacuum forming and resin transfer moulding are its speciality with a product portfolio covering cold water storage tanks, oil storage tanks, mariculture, agriculture, road cones, boats, sanitary hygiene storage units, hospital/medical hygiene storage units and sub-contract work for various OEMs in industries as diverse as refrigeration and water treatment.



ROM rotational moulded feed and expansion cisterns which can be supplied complete with lids.

ROM Plastics (Sales) Ltd

ROM Plastics Sales Ltd handles sales and distribution for all ROM companies from a 15,500 sq ft office, warehouse and storage facility located at Ascot House, Kylemore Park North, Dublin 12. Extensive stocks comprising a representative selection across the entire portfolio are held on site to ensure immediate turnaround to customers' orders.

In addition to sales personnel, experienced and fully-qualified engineers are always to hand to assist with technical queries and to provide all necessary support and back-up services.



Horizon — This 300-gallon oil storage tank requires no painting or maintenance. It is moulded from a special grade of polyethelene with ultra-violet light stabiliser and has no joints or seams. Dimensions are Length — 2160mm; Width — 990mm; Height — 1065mm.

Romplas Ltd

Romplas Ltd operates out of a 32,000 sq ft premises in Belfast and manufactures acrylic baths in all manner of shapes and sizes, ranging from standard rectangular units to corner baths. There are 22 models in all and these are available in various dimensional combinations ranging from 1,000mm by 1,000mm up to 1,500mm by 1,000mm offset and 1,700mm by 900mm. Virtually any colour choice is offered.



Chateau — This delicately-sculptured bath is wider than usual (1700mm by 900mm) and has contoured arm rests. It is designed to be built into a wooden, tiled or carpeted surround. Taps can be fitted in traditional position or wall-mounted.

Romplas Teo

Romplas Teo is located in Rosmuc and currently stands on 8,500 sq ft but expansion plans are already well advanced for this to be increased significantly in the coming months.

Romplas is very much at the cutting edge of new product development and has the advantage of highly-sophisticated, technologically-advanced know-how sourced by agreement from its German inventors. Romplas has combined this technology with its own experience and expertise to produce a unique range of kitchen sinks and baths embodying unprecedented strength relative to their lightness yet which are significantly cheaper than comparative brand-leading competitors.

Kitchen sinks are available in various bowl/drain combinations in white, grey, brown, red and terracotta. They are branded Nitrom and are sold separately by Nuwood, a

wholly-owned sales arm based in Dublin. Meanwhile the baths produced using this new technology incorporate unique, sophisticated styling. Tailor-made, one-off designs can also be made to individual specifications.

Another innovative product from Romplas Teo is Timbron and Timbron Classic. These represent the first truly satisfactory timber substitutes and can be made to match virtually any wood — hard or soft — in colour, appearance and density.

Made by recycling non-biodegradable polystyrene waste, Timbron and Timbron Classic can be sawn, drilled, chiselled, mitred, sanded, planed, glued, nailed, screwed, rivetted, jointed, machined and painted. Even in the harshest of conditions they won't dry out, split or rot.

Additionally, Timbron and Timbron Classic are flame retardant and impervious to insect attack.



Above: The ROM Roadshow which travels thousands of miles every year bringing representative in-situ displays from the company's vast portfolio to customers doorsteps. This is a customised mobile display facility specially purchased and kitted out for the purpose.

Right: Timbron and Timbron Classic can be supplied pre-finished and pre-shaped to virtually any profile and size.



Contact

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ROM
PLASTICS 10

TRADE NEWS

Irish Energy Centre Headquarters

Emmet Stagg, TD, Minister of State at the Department of Transport, Trade and Communications, laid the foundation stone of the new Irish Energy Centre headquarters in Glasnevin earlier this month. The new office building, 400 sq m in size, will be completed by the end of this year at a cost of approximately £500,000. Designed to incorporate the most advanced energy-efficient features, the building has already received Special Mention in the 1995 Architectural Association of Ireland Awards.

The Irish Energy Centre has a brief from the government to reduce energy consumption by £50 million per annum by 1999. Minister of State, Emmet Stagg addressed the employment potential associated with energy savings. "Realisation of the targeted energy savings of £50 million per annum should result in an economic surplus sufficient to create 200 permanent on-going jobs", he added. Forbairt support for the new Irish Energy Centre included providing the site, the permanent staff and the management for the new headquarters.



Pictured at the laying of the foundation stone of the new Irish Energy Centre headquarters are Bill Quinn, The Irish Energy Centre; project architect Eileen Fitzgerald of Energy Research Group in UCD; and the builder Tony Malone of Rohcon

Anglo-Irish Projects Conference

A conference on "Major Anglo-Irish Infrastructural Projects" – organised jointly by an Bórd Tráchtála and the British Department of Trade and Industry – will be held on Wednesday, 21 June, at the Royal Hospital in Kilmainham. According to Martin McCarthy, Ireland Market Department at Bórd Tráchtála, the event will focus on opportunities for companies, here and throughout the UK, to bid in partnership for

upcoming contracts. Speakers will cover opportunities arising from projects such as the Dublin and Croydon light rail systems; the Laganside Development; and other major programmes.

Peter Irwin of Rotary (NI) Ltd will discuss his company's recent £60 million contract for the new Hong Kong airport and detail opportunities for Irish suppliers to the project.

Following the conference, participants will have an opportunity to meet potential partners.

Contact: Martin McCarthy, Bórd Tráchtála. Tel: 01 - 269 5011.

'Batimat An Absolute Must'

The 20th session of Batimat (6 to 11 November) will again be a two-site exhibition. This overall growth will go hand in hand with a redistribution of the exhibitors between the Porte de Versailles and Paris-Nord Exhibition sites.

This year, Batimat Construction will occupy the entire Exhibition Centre at Porte de Versailles, (230,000 sq m) except for a small hall with an area of 12,000 sq m. It will be the showcase for the construction industry, finishings, tools and equipment and trade bodies. Among the innovations at this session will be a new section devoted to the

renovation, maintenance and improvement of the built heritage.

Batimat Confort will occupy all of Hall 6 and half of Hall 5 at the Paris-Nord Exhibition Centre, a total exhibition area of 67,870 sq m as against 46,500 m² in 1993, which represents a 46% growth.

This increase in the area of Batimat Confort is due to the re-grouping of exhibitors to make the exhibition even more coherent. It shares the venue with Interclima, the International Heating, Ventilation and Air-Conditioning Exhibition.

Batimat Confort 95 at Paris-Nord will cover the following: bathroom installations and fittings; plumbing; tiling; and, for the first time, lighting and electrical equipment.

Selling Ireland's Environment Expertise



A major marketing campaign by Bórd Tráchtála to establish Ireland as a leading supplier of environmental technology and consultancy in a world market now worth \$210 billion a year, was announced by Enda Kenny, TD, Minister for Tourism and Trade, on 5 April.

He was speaking at the launch of the first ever Environmental Technologies Directory from Ireland. It is published by Bórd Tráchtála and gives details on 122 Irish companies which are already providing environmental equipment and services in export markets.

Pictured with the Minister at the launch are Maura Mellerick, Senior Engineer, Dun Laoghaire/Rathdown Co Council; Minister Kenny; and Alan McCarthy, Chief Executive, Bórd Tráchtála.

TRADE NEWS

IS EN ISO 9002: 1994 Accreditation for Tempar

With the continuing evolution and development of the ISO 9000 accreditation system, new formulas are being devised which measure and monitor more precisely specific functions in relation to the awarding of certification.

In this respect Tempar's recent accreditation to IS EN ISO 9002: 1994 is unique. This certification is awarded according to the latest and most rigorous examination and performance criteria. In Tempar's case, it applies specifically to the supply, installation, commissioning, maintenance and servicing of heating, ventilation and air conditioning equipment.

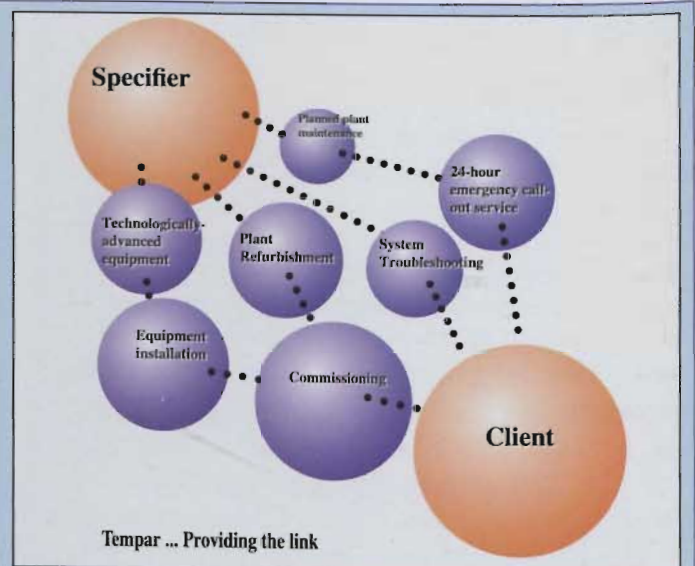
That Tempar should be the first to receive this latest certification is hardly surprising. When it comes to service and all related functions and inputs, Tempar has always been to the forefront in pursuing policies of excellence in respect of quality. The company's entire management, organisational and operational

structure has been purpose-built to achieve this goal.

Everything from the product portfolio through to the ultimate service that's provided is quality driven. This aspect has been further strengthened in recent months with the appointment of a dedicated quality control manager who, in addition to overseeing compliance with all the regulatory controls associated with IS EN ISO 9002: 1994 certification, is also responsible for the ongoing training of all personnel, in addition to ensuring that all Health & Safety requirements are also fully observed.

Tempar's core strength lies in the manner in which this quality emphasis is successfully applied to its entire modus operandi which includes the following:

- A team of 14 experienced and fully-qualified engineers who are augmented by four apprentices (1st, 2nd, 3rd and 4th-year level);



- A communications system which allows for two-way contact between engineers and the control base;
- A firmly-stated customer care policy which, while rigid in its objective, is nonetheless flexible and can be tailored to suit individual needs and/or situations;
- The complete product package: This is no idle boast. Tempar's product portfolio includes packaged and "split-type" air conditioning systems, heat exchange ventilator units, air conditioning water chillers, fan coil units, variable refrigerant volume and

hydronic air conditioning systems.

- Among the brand-leading names represented by the aforementioned portfolio are Mitsubishi Electric, York, Seveso, Argo and Olympia.

Tempar offers total solutions for both the mechanical and electrical building services sectors, including equipment sales, installation, commissioning, service, planned maintenance and emergency call-outs.

Contact: Damien Parlour, Tempar.
Tel: 01 - 668 3086.

Standard Control Systems Unique Installation at The Davenport

By utilising the Davenport Hotels' own check-in software and combining it with a Trend Software link, Standard Control Systems have achieved a unique level of energy management control which is automatically activated once a guest has been checked in.

The main air handling unit is supplying a constant minimum fresh air quantity at 17°C to

each bedroom fan coil unit. This air quantity, in itself, is not sufficient to maintain required occupancy temperatures within the room, but it provides air movement for fabric protection to prevent condensation and the formation of mould growth.

This minimum air quantity is equivalent to an air vent in the wall of each bedroom.

Room temperature setpoints are

switched between occupied and unoccupied modes by the check-in software.

During the unoccupied mode, the Trend room controller setpoint is set to 17°C. The fancoil unit will not start unless the room temperature drops below this level. Should this occur, the fancoil unit is started in low speed until the room temperature has risen by one degree at which point, the unit will be switched off again.

No cooling energy will be used to maintain the room

temperature during the unoccupied mode, ie, the 17°C setpoint is a minimum heating level only, and is adjustable.

When a guest is checked in by the receptionist using the hotel check-in software, the Trend system is signalled to switch the appropriate room to occupied mode. At this point, the following will occur:

- (1) The room temperature setpoint is now determined by the remote potentiometer and becomes adjustable by the guest in the range of 16 to 26°C, ie,

TRADE NEWS

plus or minus 5°C, using the temperature adjustment unit in the room;

(2) The remote on/off becomes enabled and is adjusted by the guest;

(3) When the room reaches its desired setpoint, the unit will switch off. Note: if either heating or cooling is in demand by the room temperature sensor in occupied mode, the units will start.

(4) When the guest is checked out of the hotel, the check-in software will automatically signal the Trend system to revert to unoccupied mode.

This system has proved enormously successful for the Davenport Hotel and has led to many enquiries from specifiers and end-users alike.

Contact: Sean O'Toole,
Standard Control Systems.
Tel: 01 - 626 6100.



Utilising the Davenports' own check-in software and that of Trend, Standard Control Systems has achieved unique levels of energy management control at the hotel

BTU Forthcoming Events

Old Conna, 26 May; Beechpark, 23 June; Royal Dublin, 21 July; Clonsilla (Saturday outing) 19 August; Forrest Little, 21 September; Woodbrook, 20 October; and Newlands, 1 December.

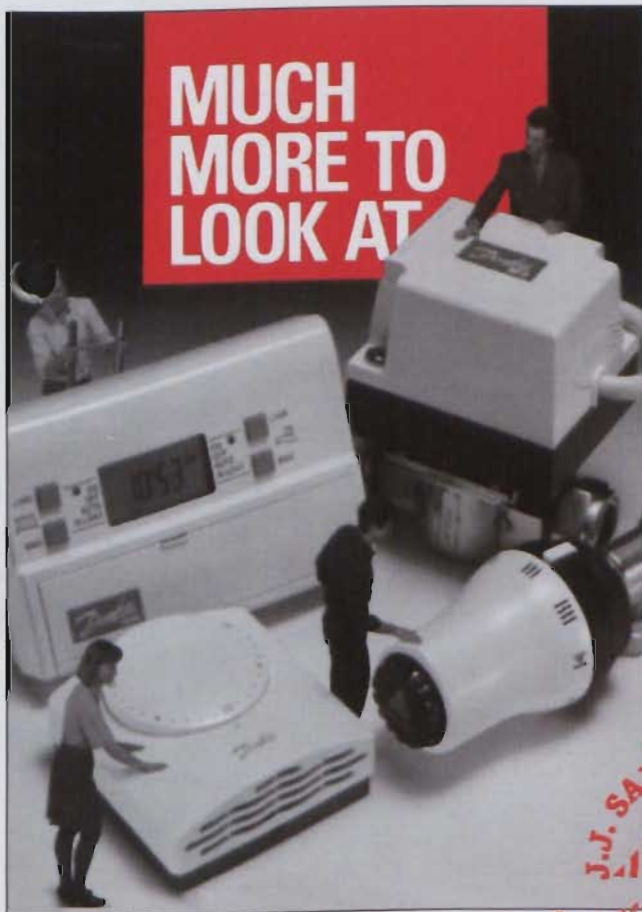
The weekend this year is to St Helens Bay in Rosslare on 1 to 3 September. The cost is £70 per person, B&B, plus one evening meal.

The away trip to Newcastle will be on the 29 June and places will be given on the basis of first come and paid up.

Contact: Dave Sampson, BTU Captain. Tel: 01 - 626 8111.

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TRADE NEWS

Airwell Shouts it from the Rooftops

Airwell has introduced a new series of roof-top units specially designed for shops, hypermarkets, shopping malls and industrial premises.

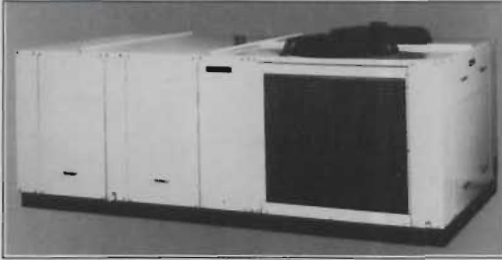
There are seven standard models and seven heatpump models with double cooling circuiting. These new appliances are directly installed on the roof of buildings. They are completely assembled at the factory

and are shipped ready to operate.

If required, the needs of additional

heating can be filled by an electric or hot water back-up which is also factory fitted.

Contact: Dave Roome, D C Compute Air. Tel: 01 - 839 2366.



Trianco Super Flo

Like all combination boilers, Trianco's Super Flo heats water direct from the mains. However, unlike other storage combis, it is capable of providing superior instantaneous hot water flow rates, together with full central heating for the larger property.

Using a sophisticated water temperature flow rate system to provide a constant and high rate of hot water, Super Flo is capable of providing 180 litres (40 gallons) of domestic hot water at a flow rate of 26 litres/minute (6 gallons/minute). With a controlled domestic hot

water temperature of 55°C, the possibility of scale build up in hard water areas is also much reduced.

With the Super Flo, installation is simple. There's no need for a costly and bulky cold water storage tank, no hot water cylinder and therefore less of the pipework needed for a conventional system.

Siting the boiler is made easy by the wide range of flue options including left, right or rear outlets. Optional flue extensions as well as vertical flue kits further increase siting versatility.

Contact Shay Kiernan, Heating Distributors. Tel: 01 - 837 5144.

Built-In Knee Safety

Snickers Workwear has launched a new, ergonomically-shaped kneepad which is lightweight and has deep folds for maximum flexibility.

It is designed to fit into the Snickers trade range of garments, and slots into a pocket on the trouser leg, thus eliminating the need for awkward and uncomfortable straps. The pad wraps around the knee when bent giving maximum protection against knee injuries on rough or damp surfaces.

Due to expansion Snickers are presently looking for agents countrywide to handle their specialist range of workwear.

Contact: Snickers at Tel: 01 - 660 6748

Mark Gets CE Approval

Mark Éire has been awarded CE approval by Gastec, the Dutch Centre of Gas Technology, to manufacture gas-fired unit air-heaters carrying the CE approval. Mark are the first company in this area that have the technology and expertise to meet the requirements of the CE approval.

What this CE approval does is to make sure that any gas-fired unit air heater carrying the CE Mark has undergone tough tests in relation to levels of emissions such as CO1, CO2 efficiency etc. These units also have more sensitive controls to ensure the safety of operation, ie Class 1 gas valves which basically are two valves in one; over-heat cut-off stats which protects the heater from over heating; min/max stats to ensure that the unit operates within the required temperature range; sensitive pressure switches which cut out the unit if CO emissions get too high and various other controls to ensure safety of the environment, the user and the heater itself.

What Mark has done is to re-design its heater range by engineering into them the requirements of the CE approval using their own expertise and that of the parent company. "We are currently manufacturing these units for Ireland, UK, France, Germany, Belgium, Denmark and for our parent company in Holland", says Padriac O'Conaola, Mark Éire Quality Manager.

Another development from this endeavour is the introduction of a low NOx type unit. With tougher regulations coming into force for NOx emissions before the year 2000, this unit has now entered the market and set the pace for others to follow. Along with the requirements of the CE approval, this unit has NOx emissions 30% less than those currently being aimed for by standards authorities.

"It is exciting to see that Ireland is once again leading the way for other European countries by manufacturing efficient, safe and environmentally-conscious heaters, ahead of any compulsory standards", concludes O'Conaola.

Contact: Maurice Byrne, Mark Éire. Tel: 01 - 668 0510



CE Approved Mark Éire balanced flue, fan-assisted, gas-fired unit heater incorporating top exit flue and combustion air inlet pipes.

WAC SERVICES

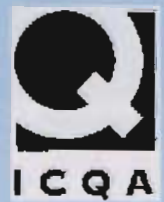
Quality ECO Care Specialists

◆ SERVICE



◆ RISK MANAGEMENT ASSESSMENT

◆ MAINTENANCE



◆ HANDLING HAZARDOUS MATERIALS

WAC Services is a quality-driven company with full accreditation to ISO 9002/EN29002/BS 5750 (Part 2). It has a pedigree stretching back 30 years during which time it has always been to the forefront by way of quality disciplines, practices and the implementation of the most advanced and rigorous quality control procedures.

This is a vital pre-requisite in today's quality-conscious marketplace where the expectations of keenly-aware clients combined with ever-stricter regulatory controls make for a most demanding and competitive trading environment. In this respect WAC Services is pro-active rather than re-active, preferring to lead by surpassing the requirements rather than simply complying with them.

This pioneering attitude is personified

by WAC Services' current endeavours to introduce eco quality systems and its striving for accreditation to ISO 310, the environmental quality award stamp of approval and the fact that it recently qualified for a Hazchem Certificate.

These are the strengths which guarantee clients an ultra-professional support package and service offering, be it in after-sales service, by way of maintenance contracts, or risk management assessment.



La Touche House, IFSC, Dublin – Carrier 30/GF240 chiller

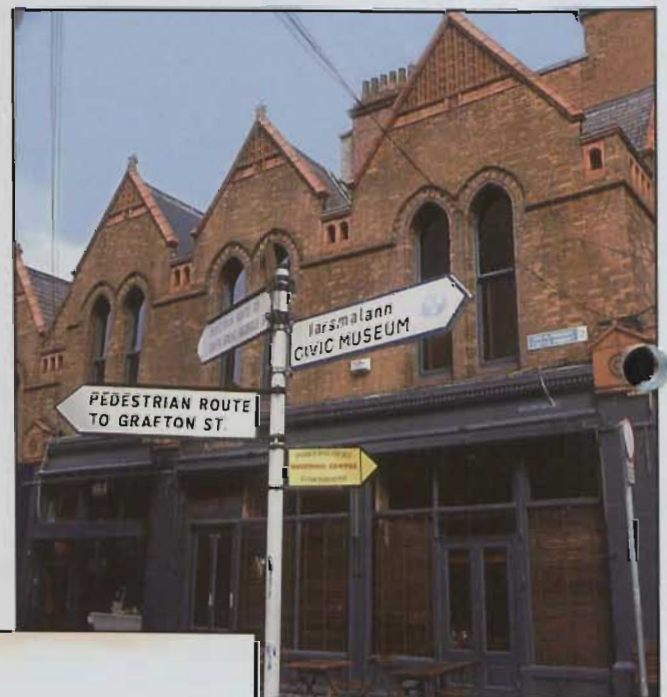
After-sales service is no longer merely about problem-solving ... it is no longer sufficient simply to put something right after it has gone wrong.

WAC Services' objective is to solve problems in a manner which, apart from dealing with the immediate difficulty to hand, assists in identifying the root cause of that problem and thereby eliminates its re-occurrence.

Cost-effectiveness, in addition to wise and economic energy usage, form an integral part of all solutions put forward.

This is a comparatively new discipline but one which is now an essential requirement.

More and more clients ask for and indeed insist that, service and maintenance companies provide documentary proof by way of written manuals and/or professionally set out procedures detailing how they go about the competent and safe handling and movement of noxious and hazardous materials and gases.



Above: Cookes Café, Dublin – Panasonic splits



Left: Gowans, Naas Road, Dublin 12 – Carrier

WAC Services operates a 24-hour emergency call-out facility, 365 days of the year. With all engineers in direct radio contact with base, a speedy and prompt response is assured.



K-Club – Panasonic splits

Ongoing maintenance is an essential requirement in the smooth running of any commercial/industrial enterprise.

Regular, professionally-carried out maintenance procedures ensure that plant failure and downtime are eliminated; that plant always operates to maximum efficiency; that it operates to maximum effect in respect of energy usage; and that the life of plant and equipment is prolonged.

WAC Services has a wealth of experience in maintenance, be it for broad-ranging, all-encompassing building management systems or for more specific designated areas such as clean room applications.

Whatever the requirement, WAC Services will devise an appropriate, customised solution.

While confident in the knowledge that we operate to exacting quality control procedures, WAC Services is conscious that the industry and its requirements are forever changing. Everyone from management through to administrative staff and engineering personnel constantly undergo education/training updates which ensure that they are familiar at all times with the changing face of technology and product innovation.



Treasury Building, Dublin – Liebert computer support units



Woodchester, Golden Lane, Dublin – Carrier 30GF chiller

WAC Services is one of the first companies within the building services sector in Ireland to be awarded the Hazchem Certificate. Also, its engineers have C&G 2077 Handling Refrigerants Certificates.

Essentially, this verifies for clients that the carriage, storage and general handling of all noxious and potentially-explosive gases is carried out according to set procedures which not only comply with, but actually surpass, all relevant regulatory obligations and safety requirements.

WAC Services is part of the long-established Walker Air Group of companies which is recognised as one of the pioneering forces which brought air conditioning to Ireland approximately 30 years ago. Throughout that time Walker Air has been responsible for many industry "firsts" while it also proved a fertile training ground for industry personnel who have since branched out on their own and now constitute the vast bulk of much of the competition the company faces in the marketplace.

WAC Services' associate companies within the Walker Air Group are Walker Air Conditioning Ltd, Dublin; HRP Walker, Dublin; Walker Air Conditioning, Belfast; Walker Air Conditioning, Glasgow; and Walker Air Conditioning, London. Brief details of each are as follows:-

HRP WALKER, DUBLIN

Activity – Refrigeration wholesaling. With the pace of EU legislative requirements changing at an alarming rate in respect of the phasing out of certain gasses, refrigeration holds vast potential for development. An essential part of the service provided by HRP Walker is educational and technical support.

Brands – Prestcold; Searle; Rhone Poulenc.

Contact – Tony Madden/ Michael Nolan.

WALKER AIR CONDITIONING, LONDON

Activity – Air conditioning, dehumidification, humidification and water coolers.

Brands – Condaire; DST; Elkay; Oasis

Contact – Dave Stewart

WALKER AIR CONDITIONING, BELFAST

Activity – Covers all company operations such as air conditioning, refrigeration and service.

Brands – Carrier, Holland Heating.

Contact – WAC: George Baker;

Epos: Robin McCosh

WALKER AIR CONDITIONING, DUBLIN

Activity – Air conditioning and filtration products. Clestra Hauserman chilled ceilings and partition systems. Cleanroom technology and associated developments.

Brands – Carrier; Liebert; Clestra; Panasonic.

Contact – Adrian Cooke.

WALKER AIR CONDITIONING, GLASGOW

Activity – Primarily air conditioning.

Brands – Carrier; Holland Heating.

Contact – Gerry Bone.

CONTACT

John Monaghan, WAC Services

Tel: 01 - 830 0844

Three-Way Control Valve Used on Boiler Feedwater Application

This month Bob Gilbert of Manotherm Ltd highlights the benefits of using a 3-way control valve on boiler feed applications.

The Jordan Mark 79 is a three-way pneumatic control valve that can be used on diverting service as a bypass valve or for combining fluids as a mixing valve. The application highlighted here

features the Mark 79 used as a bypass valve on a boiler feedwater application.

The three-way Mark 79 is used to control the water flow to an economizer before the water enters the boiler through a boiler feedwater level control valve. The water flows through the normally open side of the Mark 79 and through the economizer where it is preheated by the boiler flue gases before the water enters the boiler. This arrangement accomplishes two important objectives for the customer:-

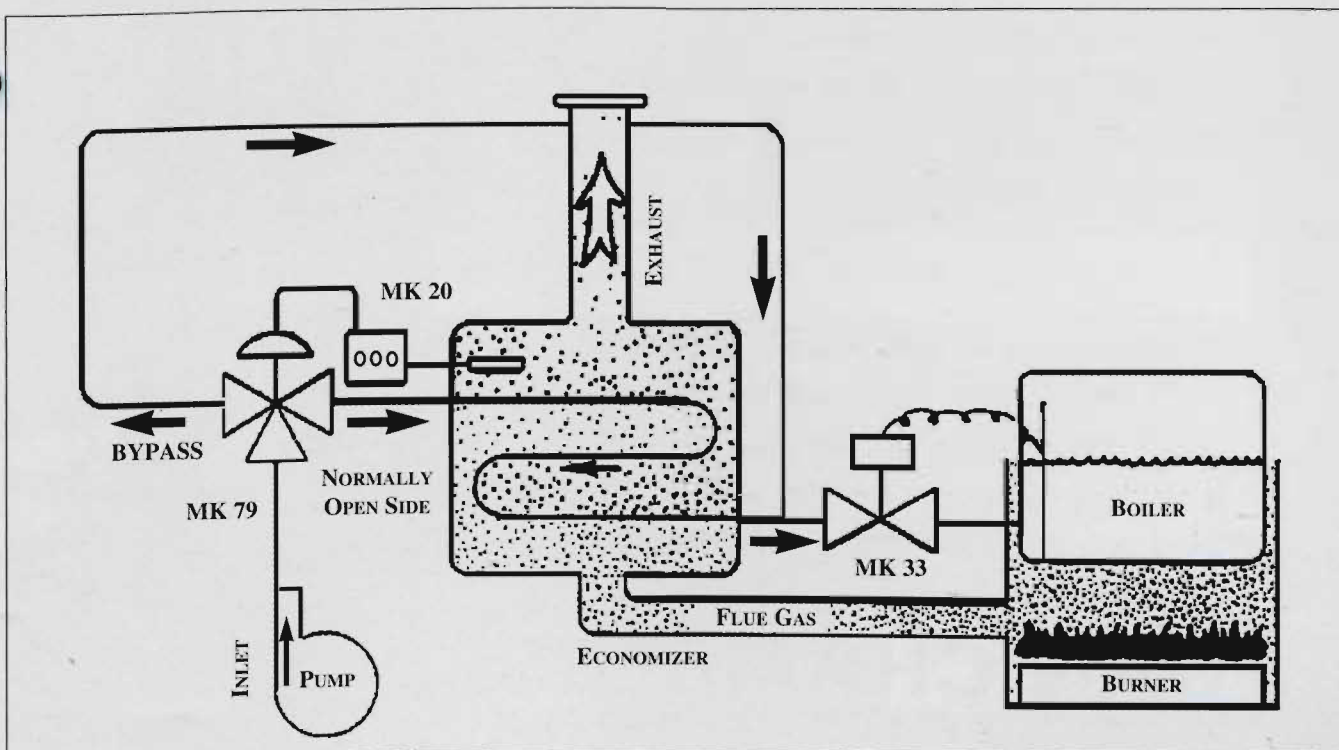
- ☐ Reduces the flue gas exhaust to below the maximum allowable rates as required by environmental regulations;
- ☐ Reheats the boiler feedwater to improve the efficiency on the boiler.

The primary function of the Mark 79 is to bypass some of the flow

around the economizer to maintain a constant flow to the boiler when the flue gas temperature drops below the dew point of the gas and thus prevents moisture in the economizer. The more water that flows through the economizer, the lower the flue gas temperature will become.

When the temperature drops to the set point of the Mark 20 Temperature Controller (slightly higher than the flue gas dew point), the controller will cause the Mark 79 to bypass some of the water around the economizer until the controller is satisfied.

In the example shown here, the customer found a number of benefits from the Jordan product. The Mark 79 three-way control valve enabled him to use one valve where he had previously needed two separate control valves while he has also reduced his fuel consumption by 10-15%.



SPECIAL REVIEW

Grilles, Louvres, Ducting & Filters

Season Control Issues Price List

Season Control has recently issued their 1995 Price List, the only company in the trade to do so. This price list is available to all Season Control customers and it is issued with an individual discount sheet.

"The price list has many benefits to the customer", says a spokesperson, "including ease of use – it's colour-coded according to product range; it provides an at-a-glance reference of his discount structure; and it simplifies the installer's work by providing a comprehensive list of products and prices, thereby reducing the need for him to contact a member of the sales department for each purchase. "While publishing prices brings with it the risk of competitors having access to our prices, we have complete confidence in our pricing structure which has proved to

Season Control – Comparison of anti-microbial treatments for filter media

	Other Anti-microbial Air Filter Products	Bio-Pure Air Filters
1. Leaches into the Environment	YES	NO
2. Soluble in Water	YES	NO
3. Has a Vapour Pressure	YES	NO
4. Produces Zone of Inhibition	YES	NO
5. Microorganisms can Adapt	YES	NO
6. Field Performance Data	NO	YES
7. Peer Reviewed Studies	NO	YES

Season Control – comparison of anti-microbial treatments for filter media.

be the reason for the continuing support of our growing customer base".

As to the product portfolio itself, Season Control has just added a host of new products, including the new range of "Airguard" Bio-Pure and Vari-Pure air filters.

Bio-Pure microbial abatement and dust removal deliver clean, pure air. Bio-Pure high-performance anti-microbial treated

air filters are for use in applications where mold, mildew, fungi and bacteria are a problem.

▼ Bio-Pure air filters have the following characteristics:-

- ▼ Destroys microorganisms on contact;
- ▼ Checks mold, mildew and associated odours;
- ▼ Will not off gas in the airstream;
- ▼ Are stable, durable, long-lasting products;
- ▼ Removes atmospheric dust and dirt;
- ▼ Are totally disposable.

Vari-Pure high capacity extended surface activated carbon filters remove odours and air contaminants. When teamed with Vari-Sock Afterfilter, they are ideal for use where indoor air quality is of primary concern, ie, for the effective removal of odours and contaminants.

Vari-Pure activated carbon filters are designed to meet the challenge facing specifying and operating engineers to

THE GRILLE, DIFFUSER & LOUVRE SPECIALISTS

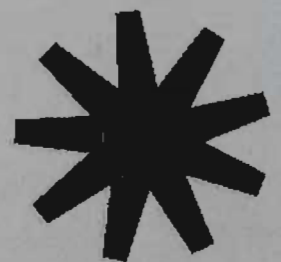
Standard Range – "AerGrilles"

- * Manufactured in Ireland
- * Quality Design & Workmanship
- * Satisfying your functional requirements
- * Value for money

Specialist Range – G.D.L. Grilles

- * Hinged & Removable Core Grilles
- * PVC Grilles for Toxic Atmospheres
- * Perforated Face Diffusers
- * Louvres - Various Frame Styles, Shapes, Designs
- * Medium to High Security Prison Grilles
- * Penthouse Louvres

DAN CHAMBERS
MANUFACTURING



Telephone: 01 830 3222

Fax No: 01 830 8888

Decorative Ventilation

et al.: BS News



FINHEAT LIMITED

47 Cherry Orchard Industrial Estate,
Ballyfermot, Dublin 10.
Tel: 01 - 623 4222; Fax: 01 - 623 4226



Deco Air

Low Velocity

Displacement

Units

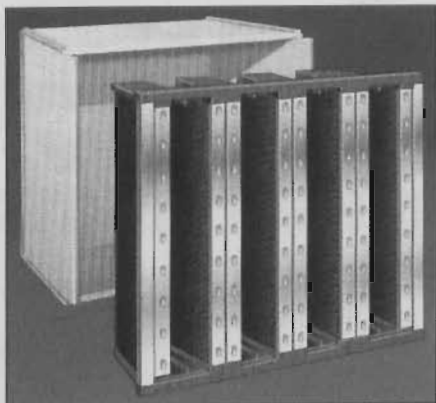
DECO AIR



GILBERTS

SPECIAL REVIEW

Grilles, Louvres, Ducting & Filters



Season Control – Vari-Pure with Vari-Sock afterfilter.

improve indoor air quality demanded by employees, customers and indeed all occupants of commercial, industrial, educational, institutional and residential buildings such as office buildings; hospitals; convalescent homes; airports; schools and libraries; industrial plants; and social halls.

Vari-Pure is ideal for use where a high level of odour control is required at a high velocity.

All Vari-Pure filters are supplied with an afterfilter as an integral component of the filter assembly. The Vari-Sock filter prevents any carbon dust from migrating downstream while enhancing particulate efficiency.

Variflow II is a new series of high-efficiency filters in 4" thick rigid cartridge style filters. This range offers high performance air filtration at a lower cost, compared to similar efficiency rated metallic cartridge filters.

Variflow II proves that less is more. They are: less in weight than comparable metallic filters; less in size; less storage space is required; less trouble to dispose of – all materials are bio-degradeable; less expensive for more quality air.

Variflow II filters are thinner, lighter and totally rigid and offer high performance air filtration with long service life. They are lightweight and easy to handle.

Season Control feel these new products will complement their already comprehensive range of Airguard filters.

For further information on these or any of your filtration needs, contact Tony or Claire at Season Control.

Tel: 01 - 453 2688.

<https://arrow.tudublin.ie/bsn/vol34/iss4/1>
DOI: 10.23427/07431905

Better Prices from Dan Chambers

So how have Dan Chambers Ventilation fared since *BSNews* reviewed the grille, louver and ducting market 12 months ago?

Answer: They are much more price-conscious. "Yes, we're all living in a more and more competitive world so Dan Chambers Ventilation have gone to their various suppliers and demanded better prices. "Not for us but for our customers", says Dan. The end result has been a genuine price reduction all round. The most notable by far has been a serious decrease in the price of flexible ducting, sheet metal ducting accessories, grilles, louvres and diffusers.

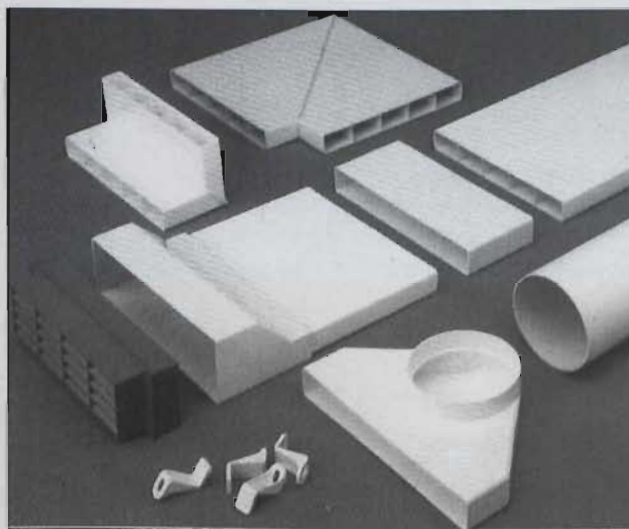
Contractors can now purchase top-quality brands such as Duro Dyne, Aer Grilles and a host of ancillary equipment from Roof Units Group at very attractive prices.

New Product – Fastpak flat ducting system ... yes, first the Flatpak Steel Ducting

System and now the Fastpak plastic, fully-ribbed flat ducting system manufactured from self-extinguishing grade PVCu so that it is light, corrosion-free and completely hygienic.

The ultimate in flat ducting, Fastpak comes in two widths – 9" and 12" – and is a most competitively-priced system, being up to 40% less expensive than other systems.

Contact: Sales Office, Dan Chambers Ltd.
Tel: 01 - 830 3222.



Manufactured from a self-extinguishing grade PVCu so that it is light, utterly corrosion-free, and completely hygienic, Fastpak comes in a full range of fittings and accessories to suit every flat duct application, including modular air brick units in five colours. Contact: Dan Chambers.

Low Velocity Displacement Units from Finheat

With the Deco Air Series from Gilberts, Finheat has introduced a new range of displacement ventilation terminals.

With traditional mixed-flow ventilation systems, cool fresh air is introduced at high level and is allowed to inter-mix and dilute the contaminated air in the occupied zone before being exhausted from the area (see Figure 1, page 21). By definition, this process is not always ideal in that the air extracted possesses the

same properties as that in the occupied space.

In contrast, however, displacement units introduce cool fresh air at a low or floor level allowing it to displace the warmer and lighter contaminated air up to the ceiling levels from where it can be extracted, (see Figure 2, page 21). In this way the occupied zones enjoy clean, fresh supply air conditions.

Clearly, therefore, displacement ventilation is particularly suitable for any application where there is a need to exhaust excess heat or other form of pollution from the occupied space such as cinemas, shops, restaurants etc, and is especially appropriate if high ceiling levels are available.

Conversely, however, the principle is less suitable for applications where pollution

SPECIAL REVIEW

Grilles, Louvres, Ducting & Filters

elements are heavier than air or where warm air heating is employed. This displacement principle has been a popular choice in Scandinavian countries for many years now and the Deco Air range, designed and developed in Finland four years ago, is therefore a well-established and proven brand.

The patented Deco Air diffusion core housed within each unit provides for quiet, smooth and even distribution of air across the entire face of the diffuser outlet and its design also eliminates the risk of clogging, making the unit maintenance free.

The Deco Air range is extensive catering for curved, semi-circular, corner, rectangular, circular and even bespoke configurations, allowing the architect or consultant an almost free hand to shape the front fascia and also fabricate it from virtually any kind of material and finish to best suit the room decor.

Eleven different Deco Air models are available ranging from the functional, yet

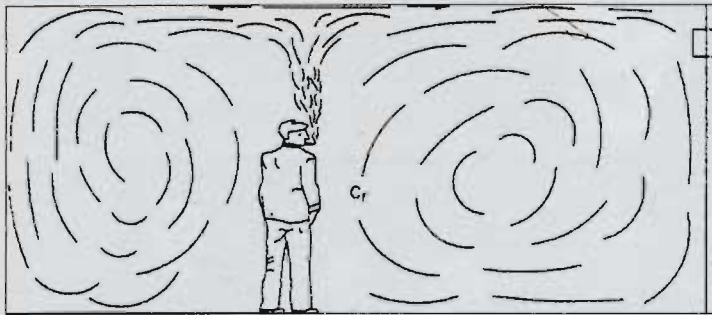


Figure 1 - Mixed flow ventilation

still appealing, steel slot and perforated face designs through to spectacular, crafted, Birch or Redbeech constructions, with both free standing and enclosed alternatives. Sizes and styles cater for the most demanding of projects.

Contact: Jim King, Finheat.
Tel: 01 - 623 4222.

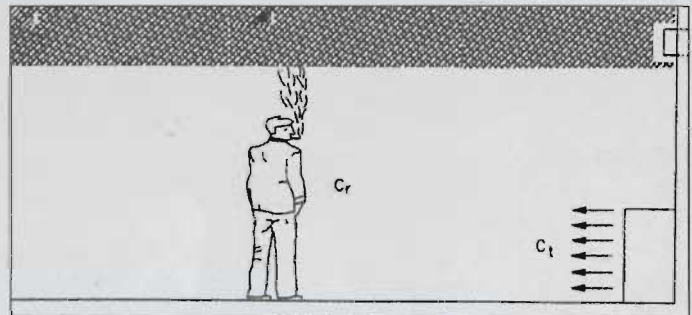


Figure 2 - Displacement Ventilation



SEASON CONTROL LTD.

51-52 Cork Street, Dublin 8
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Most experienced Grille Manufacturer in Ireland



SINGLE AND DOUBLE DEFLECTION GRILLES



CIRCULAR DIFFUSERS



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EYELASH GRILLES



LINEAR GRILLES



CEILING DIFFUSERS

YOUR INTERESTS ARE OUR PRIORITY !

Veha King of the Castle!

Last year it was Killarney ... this year it was the celebrious setting of Ashford Castle. Places on the Veha weekend soiree are now much coveted, invited guests deeming it the most presitiguous occasion within the building services social/business calander.

As Ireland's premier hotel, Ashford Castle was an appropriate setting for Ireland's premier radiator brand to say thank you to its customers for helping it record its best ever sales figures – taking in both Northern Ireland and the Republic – in the company's history

Reporting substantial progress in its ongoing, planned investment programme, the indications are that further significant developments will be announced within the coming months. These developments will be in addition to the recent introduction of the new Veha designer range of radiators and towel rails and the installation of the new, highly-advanced paint processing facilities over the Easster weekend. Furthermore, a new £600,000 press is scheduled to come on stream in June.

Veha Commercial Director Jim O'Reilly and his colleagues Tommy Kelly, Stephen Christie, Eugene O'Neill and Ger Hegarty played host throughout the weekend and were constantly on hand (no matter how late/early the time of day/night) to ensure that guests were enjoying themselves.

Brendan Grace provided professional entertainment in his usual inimitable style though Paddy Power was also in fine fettle and he proved that he too has a great deal to offer the cabaret circuit. John Fowley and Rory Healy were the "support" acts.

This year 110 people participated in the weekend's activities which included the by now obligatory golf competition and the formal gala dinner. Overall winner of the golf was Tommy Hurst of Hurst Heating & Plumbing, Galway. Flying the flag for the ladies in second place was Bridget Hughes, Morahan and Hughes, while Pat Walsh from Galway took third place.

However, for the most part guests were free to enjoy the facilities of the Castle and the surrounding grounds in a manner which best suited themselves. Freedom to do as you please is the operative regime on the Veha weekend and what better environment to do just that than Ashford Castle.



Matty Hughes, Morahan & Hughes, Galway with Tommy Kelly; Brendan Grace; Maura Kelly; and Bridget Hughes.

Tony and Bridie Barrett with Geraldine and Frank Barrett, Barretts of Maynooth.



Alister Smyth, British Steel and Ethna Smyth with Patricia and Tommy Hurst, Hurst Heating and Plumbing, Castlebar.



Dan Twomey, Cork Builders Providers with Philip and Evylyn Hughes, Lisburn.



Tony and Francis Callaghan, Arcon Heating and Plumbing with Betty and Tom Kavanagh, Swords Heating and Plumbing.



Terry and Betty Bell, Beggs and Partners, Belfast, with Ken and Doreen Weir, Beggs and Partners, Ballymena.





Rory and Eileen Healy, KCR Ltd, Dublin with Geraldine and Tom McNally, Euro Heating and Plumbing.



Dave Walsh, Walsh's Killeigh, Tullamore

Pat and Carmel Nolan, PJ Nolan, Carlow with Jim O'Reilly



Haldane and Mavis Elkin, Elkin & Bennett, Omagh



Ray and Amanda Skelly with Nancy and Tony Mullins.

Sean and Jacinta Redmond, PH Ross with Linda and Francis O'Dwyer, KCR Ltd.



Paddy and Brianán Kingham, Daly Brothers, Dundalk.



Ger and Anne Malone, Shannonside Heating and Plumbing with Sharon and Ger Hegarty.

Jim and Mary Daly, Cushcallow with Mary and Jim Byrne.



Margaret Lyons, International Trading, Cork.



Eugene and Mairead O'Neill with Dora and John Fowley, Brooks Hanly, Sligo.



Oliver and Salomi Brennan, Heating and Plumbing, Mullingar.



Eddie and Marie Kelly, Heitons, with Joyce and John Walsh, AHL.



Stephen and Patricia Christie with Marie and Pat Walsh, Walsh Heating and Plumbing, Galway.



Anne and Stephen Coen, T O'Higgins, Galway.



Jim and Mary O'Reilly with Geraldine and Gerry Byrne, Euro Heating.



Eilish and Kevin Darmody, Kevin Darmody Heating and Plumbing.

Veha's product portfolio is all-embracing, covering the domestic and commercial/industrial sectors. All requirements are catered for, a particular advantage being the company's ability to produce tailor-made, customised radiators. Equally important is the quality procedures employed throughout the entire production process.

CONTACT

Jim O'Reilly and his team

AREA REPRESENTATIVES

Tommy Kelly
Stephen Christie
Ger Hegarty

INTERNAL SALES

Eugene O'Neill
Geoff Birkbeck
Georgette Doyle

Tel: 0404 - 67278

Product Review: CHIMNEYS

Powrmatic System Flue from HCD

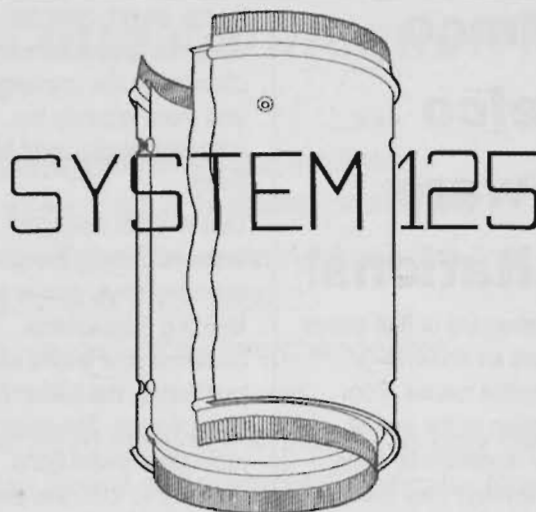
Powrmatic Ltd has developed a comprehensive range of flues and chimneys for use in both the domestic and commercial/industrial markets and these are available in Ireland, ex-stock through Heating Controls and Devices.

The company has put considerable investment into tools and up-to-date machinery for the manufacture of a range of flues which are second to none. All products are manufactured under the BS

5750 quality assurance scheme in order to provide components of the highest quality at a competitive price.

The range includes:

- ❑ System 1 single-wall product for air heaters;
- ❑ System 90, a domestic gas vent which is constructed with zalutite coated steel outer and aluminium inner. This gas vent can also be used with 28 sec oil for domestic boilers.
- ❑ System 125, a commercial gas vent with diameters up to 400mm;
- ❑ System 250, a high-quality twin-wall stainless steel flue with twist lock connectors that can be used with solid fuel as well as gas and oil;



Powrmatic Twin Wall Flue with 12.5mm air gap. Available in 175, 200, 250, 300, 350, and 400mm diameters from Heating Controls & Devices.

❑ At the top of the range is System 500, a high-quality twin-wall stainless flue with over-pressure capability that can be used for commercial and industrial boilers.

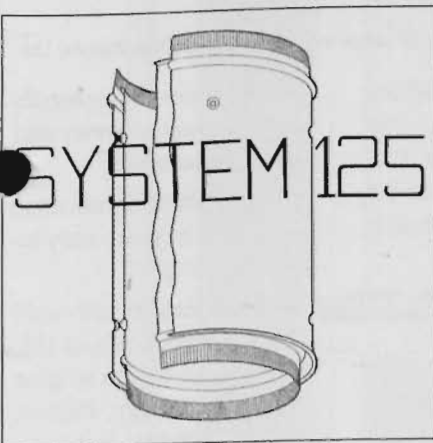
Powrmatic offers a design

and technical service and can also arrange for the installation of systems.

Contact: Winston Taylor, Heating Controls and Devices.

Tel: 01 - 452 1533.

YOU CAN'T BEAT THE SYSTEM



DOUBLE SKIN

with 12.5mm air gap

DIAMETERS: 200 - 400mm

APPLICATION: Gas appliances

DOUBLE SKIN

with 25mm insulation

DIAMETERS: 125 - 300mm

APPLICATION: Solid Fuel, oil and gas appliances

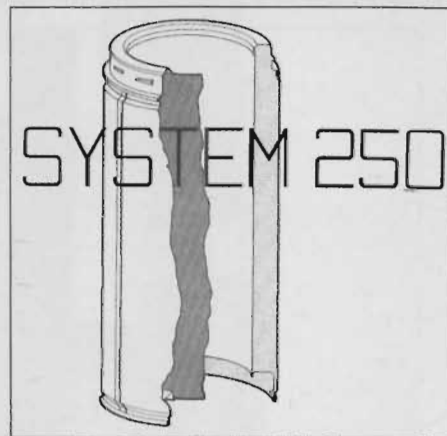


DOUBLE SKIN

with 10mm air gap

DIAMETERS: 100, 125, 150mm;

APPLICATION: Gas appliances



MAIN STOCKISTS

Heating Controls and Devices Ltd

45 Broomhill Close, Tallaght, Dublin 24.

Tel: 01 - 452 1533

powrmatic

58 Haddington Road, Dublin 4.

Tel: 01 - 668 1355

Product Review: CHIMNEYS

Flamco Brefco ... Beware Imitations!

The conveying of flue gases is, as we all know, a responsible matter. Poor installation or the use of inferior materials on flues and chimneys may present a serious health hazard.

Flamco Brefco are very conscious of the demands of the trade in general, and of the requirements regarding quality assurance and approvals. For that reason Supafue vitreous enamelled steel flue system undergoes regular inspections.

Supafue vitreous enamelled steel flues have been on the market for well over 20 years, and have virtually remained unchanged except

for the introduction of adaptors to accommodate changes in the marketplace, and more recently the introduction of a matt black finish.

Due to there being no relevant British Standard in the early days, and to satisfy Building Regulations, Supafue was tested and certified by the British Board of Agrément. The multiple production executions required to form the sheet steel into a finished product undergo vigorous examination twice a year. Every three years the Agrément Board investigates installations before renewing the certificate.

Supafue is widely stocked and to ensure against imitations when installing Class 1 flue systems, Flamco Brefco emboss the name of Supafue on both pipes and bends.

Many claims are made that



The Flamco Brefco Supastak range from BJ Caraher (Distributors) Ltd

Flamco Brefco manufacture for other trade names – this is not true. Remember, if it doesn't say Supafue on the box, then it isn't Supafue in the box.

Another quality chimney and flue system from Flamco Brefco is Supastak. As a result of continuous product development, the Supastak range of chimney and flue systems has been upgraded. Changes to this well-established Flamco Brefco product include:

Improvements and additions to the component range; Superior packaging to provide greater protection in transit and storage;

Complete interchangeability with the major chimney and flue manufacturers;

Easier product identification as a result of clear, easy-to-read labelling.

Supastak Zalutite twin-wall, gas flue system retains the same range of pipe lengths – 150mm, 300mm, 450mm, 600mm, 900mm, and 1500mm. The old 45° and 90° bends have been replaced with a new bend which is fully adjustable from 0° to 90°.

All tees are supplied with a tee cap and flashings come complete with storm collar and sealant.

A maintenance connector is



The Flamco Brefco Supafue range which is available from BJ Caraher (Distributors) Ltd



flamco BREFCO

Flamco BREFCO Limited
P.O. Box 16,
Brookhouse, Verdant Lane
Peel Green, Eccles,
Manchester M30 7QA.
Great Britain.
Telephone: 0161-789 8111.
Fax: 0161-789 1189.

Have you made the right chimney and flue connection?

- SUPASTAK AF prefabricated stainless steel insulated chimney system to B.S. 4543. Part 2. Suitable for all fuels.
- SUPASTAK Zalutite twin wall gas flue system, aluminium liner and Zalutite outer casing, to B.S. 715. 1989.
- The updated SUPASTAK range is fully interchangeable with the major chimney and flue manufacturer.
- SUPAFLUE vitreous enamelled steel flue system. The only flue of its type to carry a British Board of Agrément Certificate. Now available in matt black finish. Suitable for all fuels.

You have now!

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Telephone: Saintfield 511071. Fax: Saintfield 510921.



Product Review: CHIMNEYS

added to the range which allows easy access without disturbing the flue system.

The Supastak AF insulated chimney system now has only four pipe lengths – 120mm, 300mm, 500mm and 1000mm. This ensures easier and safer delivery/storage and overcomes the possibility of potential damage when lifting and fitting at height. All tees include a locking plug and all flashings are complete with storm collar and sealant.

This upgrading of Supastak, partly in response to demands by the trade, now offers a more versatile and better protected product range.

Contact: Sales Office, BJ Caraher (Distributors) Ltd.
Tel: 08 01238 811071.

Multipurpose Vents, Chimneys and Flues from Selkirk

Selkirk produces a comprehensive range of vents, chimneys and flues for most domestic and commercial applications, covering appliances such as boilers, diesel generators, cooking ranges and incinerators, burning any fuel. Their uses include smoke extract systems and garbage chutes.

Chimney and vent systems are single- or twin-walled multi-application prefabricated products. Available in a large range of sizes (100mm to 1200mm)

and materials, they are designed to convey gases, particles, fumes, smoke and products of combustion from a wide range of fuel-burning and process equipment.

Designed to be used as an alternative to heavy welded steel, the systems are light in weight and capable of accommodating continuous temperatures up to 760°C and pressures from 0 to 1500mm w.g., with fire ratings from 30 minutes to 40 hours.

With a variety of fittings and straight lengths available, Selkirk vents can be installed in many different configurations, both internally and externally. Being prefabricated and, in most cases insulated, the systems are easily handled and quickly installed. Materials are chosen to suit the particular application to hand.

The Selkirk IL is a gas vent designed for use with gas appliances, typically in domestic and small commercial installations, with draught-hoods or with flue gas temperature not exceeding 260°C and zero or negative pressure in the flue. The factory-made twin-wall IL comprises a range of straight pipe lengths and associated fittings and accessories, and the aluminium liner is protected

by an outer casing of Zalutite.

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Contact: Martin Garvey, Hevac.

Tel: 01 - 830 1211.



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Next Month

In our next issue we will focus on Refrigeration and review the progress being made by the industry to come to terms with the new regulatory controls covering the use of, and safe handling of, refrigerant gases.

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