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CIF Predicts 7% Growth

- Pumps
- Pipework & Drainage
- Night & Day Comfort from Carrier
- Season Control Filters out the Rest
- Actionair Aids Air Safety
Innovation in Pumping Technology
Wilo-TP and TS range

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

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E-mail: sales@wilo.ie
Internet: www.wilo.com
Thank heaven for the slowdown ... perhaps now some sanity will return. While it may be unfashionable to say so, the fact of the matter is that the construction industry — including the building services sector — was in danger of meltdown. Quite simply, the strain of coping with continuous double-figure growth, year on year since 1992, was clearly showing.

Now, however, there is a welcome hiatus on the horizon. Construction output for 2001 will be in the region of 7%, down from the 10% of last year. This “downturn” should be welcomed. Additionally — and thanks largely to the harsh lessons of recent years — capacity within the industry is expanding. Taken together, these two factors should mean that, by mid-year, we will no longer be playing catch-up but are actually within sight of regaining control of the situation.

Returning exiles and immigrating foreign nationals have helped swell the available labour pool and level of expertise but, equally important is the impact the boom has had on attracting young people into the construction industry. The number of new apprentices joining the industry increased to 6200 in 2000, up from 1800 in 1994. Apprenticeship intake is expected to reach 6500 in 2001, bringing the total construction apprenticeship population to 20,000. That makes for a very healthy, vibrant industry.

So, let’s have just a little less frenzy and more controlled running around ... even if it is still on an apparently out-of-control treadmill!
Chartered Engineer of the Year

Eamon Collins is the Institution of Engineers of Ireland (IEI) Chartered Engineer of the Year for 2000. The final of the competition, sponsored by Parc, took place at IEI headquarters in Ballsbridge in Dublin recently. Six chartered engineers from various parts of Ireland and the US who had completed their IEI Professional Review during the past year competed in the final.

John Flood, Manager Director, Parc presented the prize which included a cheque for £2,000, a Waterford Crystal trophy, and the Chartered Engineer of the Year Certificate to Eamon Collins from Roscommon. Presentations were also made to the other finalists.

‘Customer Power’ Drives Powrmatic Range

“Powrmatic has included a key component in its new PGUH series of space-saving suspended gas unit heaters ... customer power”, says Powrmatic Ireland’s Paddy Lowry.

In a client-driven approach to product development, the design concept of the PGUH has been established in consultation with end users, installers and service engineers. The result is a heater range that is aesthetically-pleasing and energy-efficient, as well as being simple to install and maintain.

The PGUH series provides warm air heating to areas where floor space is at a premium and is suitable for the vast majority of industrial and commercial premises.

Twelve models provide heat outputs ranging from 12kW to 150kW. A wide range of optional extras is available, including stainless steel heat exchangers and modulating burners. A comprehensive range of control options and modular duct components give designers the ability to create the optimum heating package.

Contact: Paddy Lowry, Powrmatic Ireland.
Tel: 01 - 452 1533.

Grundfos Sales Manager

Liam McDermott has been appointed Sales Manager, Grundfos Ireland. Liam is widely known throughout the buildings services industry and has been a sales engineer with Grundfos since 1991, serving the Dublin area and the northern half of the country.

Wilo Pumps Korean Expansion

The Wilo-Salmson Group of pump companies — which incorporates the Limerick-based Wilo Engineering Ltd and Wilo Pumps Ltd — has expanded into Korea by way of a joint venture between Wilo Salmson AG and LG Cable Ltd.

The new company, called Wilo LG Pumps Ltd, has a turnover of US$70 million and employs 250 people both in Korea and in a small Chinese assembly subsidiary. Its activity is mostly in domestic and industrial pumps for the market areas of heating, water supply and drainage/sewage.

Wilo in Ireland can be contacted at Tel: 061 - 410963.
Our delivery methods can be a little extreme

Thermal's 20 years of experience producing heat exchangers is the solid basis for supplying Air Cooled Condensers and Dry Air-Liquid Coolers to meet any customer requirement. Where space is at a premium we offer a series of V-shaped condensers and dry coolers with a capacity up to 1650 kW.
Hevac On The Move
Hevac Ltd, Tube Company of Ireland, and Polytherm Heating Systems have now moved their head office to purpose-designed premises located at Muirfield Drive, Naas Road, Dublin 12 (opposite Brooks Thomas and between Heineken and Peugeot Cowan).

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

Maico Fans
For Small Rooms
The Maico series ECA 100K/ECA 120K fans from Irish Fans Distributors is designed for the ventilation of small and medium-sized rooms. The fan housings are made of shock-resistant plastic and coloured white RAL 9016. However, covers in other colours are available on request.

Other benefits and features include:
- Standard thermal overload protection;
- Maximum permissible airstream temperature +40°C;
- Protection Type IP34;
- Protection Class 11;
- Approval: VDE-GS.

Model ECA 100KVZ features start delay 45 seconds, overrun time of six minutes and is single-speed only, while Model ECA 120K has optional speed control.

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

Vokèra Simplifies Linea Installation
Vokèra has simplified installation of the wall-mounted versions of its Linea range of combi boilers with the introduction of a one-piece pre-fixing jig and hanging bracket.

The unit, which is supplied pre-assembled, simplifies installation and removes the possibility of error by ensuring the position of connections relative to the hanging bracket. It also doubles as a template for marking the position of the wall-fixing screws and a smaller template, which marks the position of the flue exit hole, is also supplied.

The hanging bracket and valves can also be removed from the assembly and connected directly to the boiler if required.

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On site and Laboratory testing facilities
Lucent Approves Control Aer

Lucent Technology - one of the biggest household names in PC - are continuing to expand their existing presence in Blanchardstown with hi-tech state-of-the-art ventilation and air conditioning systems.

With the project value running into millions of pounds, Lucent took a very personal involvement in the HVAC used. Consequently, after a very long and arduous inspection of sample equipment from many of the leading ventilation suppliers, they finally chose and approved Control Aer’s complete range.

The equipment — which included LPHW coils, fan coil units, diffusers, fire smoke and volume control dampers in addition to a range of custom-built mixed-flow and centrifugal fans and silencers — had to be supplied in strict compliance with a works programme undertaken by L Lynch & Co.

“IT was undoubtedly one of the most demanding schedules we have had to work to”, says Control Aer’s John Grainger, “but we comfortably worked it in to our production output, Project Team Managers Ben Kearney and Dave Kelly devising a special programme to do just that”.

RVR Appoints McConnell

David McConnell has been appointed Appliance Sales Representative for RVR Ltd, the Kenmare-based manufacturer of industrial gas appliances. David will be based in Dublin working closely with mechanical contractors, providing solutions for efficient heating of factories and warehouses.

The RVR product range includes radiant plaque heaters, the new RVR EDX/EHL radiant tube heaters, centurion warm air heaters and accorroni gas convectors.

Contact: David McConnell, RVR.
Tel: 01 - 661 4803; Mobile: 087 - 967 0957.

Killealea Joins Cross

David Killealea (pictured) has joined the Cross Refrigeration Group as Sales Director. He was previously Sales Director for the Refrigeration Sales Division in Danfoss Ireland Ltd.

A qualified refrigeration engineer, David has been involved directly or indirectly in the refrigeration industry for the last 18 years, both in Ireland and the UK. During that time he has amassed a wealth of information in system controls, “turn-key” solutions and energy optimisation.

His experience ranges through industrial and commercial installations, and specifically on the utilisation of electronic controls to improve system performance and efficiency. He has been directly involved in an advisory capacity on installations to the supermarket, chemical/pharmaceutical, food storage/process, computer and specialist markets.

David has also lectured on energy efficiency and plant optimisation in refrigeration systems to a wide range of companies, including the Irish Energy Centre, Teagasc and the ESB.

Contact: David Killealea, Cross Refrigeration.
Tel: 01 - 451 1915.

CIBSE Annual Dinner

The CIBSE Annual Dinner, which is for members, their guests and friends, will take place in the Fitzwilliam Hall, the Burlington Hotel, Dublin, on Friday, 16 February. Dress for the occasion will be informal. Members are invited to book individual tables to entertain their guests.

Tables can accommodate 10 to 12 persons and therefore it will be necessary for parties of less than 10 to share a table. The cost per person will be £45. Cheques made out to the CIBSE Social Account should accompany each request for tickets and be returned to Brian Sterling, L Lynch & Co. Ltd, 16 Fonthill Industrial Park, Fonthill Road North, Clondalkin, Dublin 22. Printed invitations are being prepared and will be forwarded on receipt of a cheque for the appropriate amount.

Contact: Brian Sterling, L Lynch & Co.
Tel: 01 - 626 1144.
RVR, the Kenmare-based
TRADE NEWS

Mark Eire Digital Controller

Mark offers a comprehensive range of heating and ventilation controls to its customers and the introduction of this latest stand-alone digital controller has proved very successful for the Irish/UK and mainland European markets. It offers a host of technical solutions, which are easily accessed by using the membrane keypad. The options appear on the screen as a prompt, and the easy-read menu allows simple navigation through the options.

The PIN number protection system makes for a tamper-proof controller while the crystal display characters are easy to read, telling at a glance the day-time-ambient temperature, and the burner status. This controller — with all of its functionality — comes at a very competitive price.

Suitable for warm air and radiant heat applications, features include digital time clock; digital thermostat; security pin access; liquid crystal display; off-wall programme; 10-year battery life; heat only; heat & frost; fan only; burner lockout indication; reset button; 10-amp rating; easy-to-use programme; and self-prompt menu.

Contact: Richard McGrath, Mark Eire. Tel: 026 - 45334.

Refrigeration Network Training Programme

For details of the forthcoming Refrigeration Network Training Programme, Enda Hogan, Project Manager, Refrigeration Technology Skillsnet, can now be contacted at Tel: 01 - 402 3044.
New Radiant Tube Heater Series from RVR

The EDX Series is single stage in operation while the EHL Series offers a unique two-stage burner. Heaters are always selected to meet the maximum heat loss of a building during the most extreme climatic conditions. Tests in the US have proved, however, that the high fire mode is typically only required for 7% to 15% of the total running hours. Consequently, the unique two-stage EHL Series can achieve a minimum fuel saving of 12% over single stage infra-red appliances. Equipment cycling is also reduced (up to 35% less) and better comfort conditions will be achieved for building occupants due to a more even temperature pattern. Radiant heating offers significant advantages over warm air systems, according to Brian Mulhare, RVR Sales Manager, such as lower capital cost; quiet operation; no dust agglomeration; lower energy usage; and total flexibility for zone heating. All contribute to cost savings and superior comfort.

Contact: Brian Mulhare, RVR. Tel: 087 - 241 6053; David McConnell, RVR. Tel: 087 - 967 0957.

‘Twinflow’ Strengthens Select Portfolio

Elta Fans has introduced the belt-driven Twinflow range of centrifugal fans into its Select portfolio, which is distributed in Ireland by Dan Chambers Ltd. The range has been developed to offer either duct mounting within the building or external roof mounting. Four different unit sizes are available, giving duties up to 2.5m³/sec as standard. Designed to be quiet in operation, all units can also be supplied with internal lining to further reduce indirect and breakout sound levels. In both the duct and roof models, two centrifugal fans are placed side by side, which allows for duty and standby to be operated automatically via an auto-changeover panel. A duty share feature can also be included if required. Recirculation of air within the unit is eliminated by the fitting of back draft shutters.

Contact: Jim Bollard, Dan Chambers Ltd. Tel: 01 - 830 3222.

Photo shows a belt driven fan from Elta’s Twinflow range. Details from Dan Chambers Ltd.

High-Performance Buildings on CD Rom

The Energy Research Group has issued a new publication about a series of high-performance buildings recently completed in Europe. The buildings demonstrate measured advances in energy efficiency and comfort in a range of non-domestic scale buildings in six countries. It is arranged in a number of formats for easy access by both professionals and students who have varying levels of familiarity with the subject. Called EC2000 CD-Rom, it can be ordered on-line at http://erg.ucd.ie/software_pub.html or by contacting ERG at Tel: 01 - 269 2750. Cost is £10, plus P&P.
Production Manager

Thermal Heat Exchangers is a leading manufacturer of specialist plants and equipment supplying heat exchangers to local and international markets. Based in Drogheda and employing approximately 150 people the company now requires a production manager to be responsible for the co-ordination of all the production activities.

Reporting to the Managing Director, the successful applicant will enjoy full responsibility for the production process to ensure that the company continues to meet volume and quality targets. The main function is to ensure that production is organised in the most cost-effective manner but with inherent flexibility to respond to the changing needs of customers.

Applicants must be able to demonstrate at least three years successful experience in a production manager's role, ideally in a technical environment industry. We are looking for an enthusiastic self-starter, who will bring a highly motivated hands-on approach, coupled with clear organisation ability and excellent people management skills. You should be a keen problem solver, IT literate and have excellent change management skills.

The position offers an outstanding opportunity to join a successful and progressive company and will reward you with a competitive remuneration package.

Please send your application, quoting reference PM/2001, to:

Paula McDonnell (Human Resource Office),
Thermal Heat Exchangers,
Newtown,
Drogheda,
Co Louth.

email: hr@mythermal.com

Completed applications must be returned by closing date of Monday, 19 February 2001.

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We are an equal opportunities employer.
Thermal Heat Exchangers Opens in Scandinavia

Thermal Heat Exchangers has opened a sales office in Denmark. The name Thermal Heat Exchangers may be new to most of the refrigeration and air-conditioning market in Scandinavia, but the company has been selling customised fin-heat exchangers for years in Scandinavia and has recently celebrated its 20th anniversary.

In 1998, Thermal decided to expand its product offering, and the natural progression was to airside products. After an extensive investment programme, including the installation of a state-of-the-art powder paint facility, Thermal successfully launched its new range of air-cooled condensers and dry-air liquid coolers. At the IKK show in Nürnberg last month, it also introduced the new "Compact 2000" (C2) Series. This product is designed for use with pre-assembled compressor packs for capacities up to 277 kW.

Thermal also offers a standard range of compressor housings, which can be ordered with any standard air-cooled condenser.

By focussing on customers' needs, Thermal has set itself three primary goals for the next 12 months: To become a known name in the Scandinavian market, to deliver a high-quality product with good lead times; and to offer customers 'excellent price value'.

The ISO9001-accredited company has strong credentials in the certification field, being among the first to become involved with Eurovent's product capacity scheme. Its AV/H5 range is Eurovent certified, and other ranges will be added in a rolling programme over the next six to eight months.

Windows-based selection software is available, enabling specifiers to pinpoint products, prices and accessories for a particular installation. Thermal also offers as standard forklift supports for ease of handling, and an option of pre-wiring the units to the customers' needs.

Thermal was founded back in 1922, in Baden, Germany, where it operated for many years from an 85,000 sq. m site in Hochenheim. However, the facility was badly damaged by fire in 1995, and Thermal Germany was closed down.

The company has been based in Ireland for over 20 years, and now employs 135 people. Heading up the operation is Kurt Sorschak whose long career has been spent in the refrigeration and air-conditioning business in Germany and Austria. Mr Sorschak relocated to Ireland in 1998.

The entire range will be on view on Thermal's stand at the forthcoming RAC 2001 in Birmingham (27 February to 1 March).

Contact: Valerie Sorschak, Thermal Heat Exchangers.
Tel: 041 - 983 1051.

Workplace Europe 2001

World Workplace Europe 2001 is the title of the forthcoming facilities management conference and exhibition which will take place from 17 to 19 June 2001 in Innsbrack, Austria.

Contact: Julia Teichert, IFMA European Bureau.
Tel: 0032 2 743 1542

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MARKET RESEARCH YIELDS RESULTS

Night & Day Comfort from Carrier

With Carrier's new Night & Day Console System, the basic wall or ceiling-mounted air distribution terminal has been completely rethought, as part of a systems solution that can be applied throughout the world in its particular target market ... a market where looks and total comfort count.

After running its biggest ever market research programme, Carrier has a system that will satisfy all the latest customer requirements for home and small shop or office applications, and maintenance is assured thanks to the well-designed, drop-down, grille which provides immediate access to the filters, fans, pump, pipe vane and control box. There is also space for the condensate pump kit, available as an option.

The slim shape has technical advantages too. At 850mm wide and only 200mm deep, the smaller of the two models has been designed for mounting below windows. The metre-wide model is lighter than most units but is equally as robust, and can be installer to manually bend refrigerant pipes, further reducing installation time.

This system has been created to comply with all applicable current environmental guidelines, and with those envisaged as forthcoming, making it "future-safe". It is optimised to operate with the non-ozone depleting/refrigerant R410A. This is an energy-efficient refrigerant and will provide running cost savings over previous systems.

A motorised louvre, a fresh air inlet available as an option, and purifying filters that can be regenerated, play a crucial part in producing excellent air distribution and continuous air purification. Air-flow can be changed to suit individual preferences. The fresh air inlet allows a constant mix of fresh air to guarantee air quality levels.

The system is available in four capacities up to 6.4kW, so it can be closely matched to demand. With the addition of the hot water coil kit it can provide heating too. Each indoor unit comes coupled with an R410A cooling only outdoor unit, or the new heat pump units, and can be matched to multisplits and to the new Carrier MultiVRF. Complete control, including louvre adjustment, is obtainable from the hand-held remote control. Additionally, the system can be web-enabled so that all functions - off, on, temperature, timing, and fault diagnosis - are available via WAP phone and the Carrier MyAppliance.com website.

Contact: Austin McDermott, Core Air Conditioning. Tel: 01 - 294 3110; Fax: 01 - 294 3115; email: info@coreac.com
As one of Ireland's leading air movement specialists with a comprehensive portfolio of market-leading brands such as Interklima, Dunham Bush, Air Diffusion and Hitachi, in addition to an extensive range of own-manufactured fire dampers, volume control dampers, grilles and ducting, it is appropriate that Season Control is equally to the forefront in filters.

"In keeping with our core philosophy of providing only high-quality, top-performing products", says John Ralph, Filtration Manager, "we manufacture a vast range of filters under license from Airguard, the biggest filter manufacturer in the United States. Optimum effectiveness is assured because we use an ultra high-loft synthetic media with 3-course filtration to maximise dust-holding capacity."

Take for example Season Control's Bag Filters which consist of a series of pockets attached to a corrosion-resistant, galvanised, steel header. Each pocket is divided into tubes by span stitch lines running the entire length of the pocket. The stitch lines are formed by a span-stitch design which allows the pockets to fully inflate yet, at the same time, prevents each pocket from touching. For added strength a thermoplastic sealant is applied over the stitch lines to lock the stitches and prevent leakage, while the pocket edges are double-lock stitched for maximum burst strength under heavy loading conditions.

The metal retainers that form the mouth of each pocket interlock with each other and are mechanically crimped under high pressure to permanently fasten the pockets together inside the header. A bead of adhesive is applied around the inner perimeter of the header for extra bonding reinforcement.

"To ensure that these beneficial characteristics are incorporated into all the products", says Ralph, "our highly-experienced production staff undergo continuous training, and have state-of-the art equipment at their disposal to carry out all functions. Strict quality-control procedures provide a further guarantee of product integrity. To ensure optimum service we carry extensive stocks of all standard models and sizes at our Nangor Road headquarters in Dublin. Moreover, we can also provide swift turnaround on non-standard items, the advantage of being manufacturers in our own right making for a very flexible and responsive service. Essentially, what we offer is high-quality filters for virtually every conceivable application where you want it, when you want it, at very competitive prices. Season Control filters out the rest ... and leaves the best! "

Contact: John Ralph, Filtration Manager, Season Control. Tel: 456 8100.

Applications
- Hospitals/operating theatres
- Clean room applications
- Computer component manufacturing
- Food manufacture/processing
- Drinks industry
- General industry
- Commercial complexes
- Retail outlets
- Public Buildings

Filter Types
- Panel
- Bag
- Heppa
- Rigid Bag
- Fibre-glass throw-away
- Carbon
- Spray booth
Actionair Aids Air Safety at Hong Kong's New Airport

S pecially developed fire and smoke management dampers from Actionair are playing a major role in the safety systems protecting passenger terminals and other facilities at the new Hong Kong Airport, says Ciaron King of Ventac, the company's Irish distributors.

The order, worth in excess of £1 million, was one of the largest ever placed for this type of product.

Travellers to Hong Kong will remember how the airliner used to bank hard right and drop sharply down between the skyscrapers of Kowloon, before touching down and screeching to a halt at the sea's edge.

That all changed in 1997 when the new Chek Lap Kok Island airport was completed. Construction engineers blasted the mountains on the island down to about three metres above sea level and the resulting rock spoil was tipped in to the sea to form enough land for two runways capable of handling the world's biggest jets. When work on the second runway is completed the new airport will have a capacity of around 85 million passengers a year.

In the face of fierce worldwide competition Actionair won orders for all of the fire, smoke and air control dampers used throughout the airport. No part of the specification was more rigorous than that for the smoke management dampers, which had to be approved by both the Hong Kong Fire Services Department and the Airport Authority before the order could be confirmed.

So successful was the design that it led directly to the development of the Hot/Shield Damper range, which is now a market leader in the building services industry.

Research shows that at least 80% of all recorded “fire” victims die as a result of inhaling smoke and other products of combustion. Smoke and toxic gases — the silent killers — have to be controlled and extracted quickly and efficiently to protect building occupants and ensure their safe evacuation.

Actionair Hot/Shield dampers are designed for installation in smoke extract systems and are suitable for use in association with smoke extract ductwork and fans.

In many situations detection of a fire in the building will automatically close dampers on the extract system. The Hot/Shield design, however, permits remote authorised override control for the extraction of dangerous smoke and toxic fumes. The damper will operate reliably with smoke temperatures up to 250°C for a period of one hour.

Hot/Shield dampers can also be installed in the supply air system to meet the make-up air requirement for smoke extraction purposes.

While having full smoke management functions, the Hot/Shield design can also be utilised as a Four Hour Fire Damper by inclusion of the optional single or dual thermal electrical releases. Action of the release closes the aerodynamic double skin, stainless steel damper blades, which interlock to form a fire resistant shield. A synthetic seal incorporated within the blade profile will also ensure minimal smoke leakage for temperatures up to 250°C.
CIF Wants PRSI Change Reversed

Speaking at the Construction Industry Federation’s (CIF) annual review and outlook in Dublin earlier this month, the President of the Federation, Frank McCaffrey, said removal of the ceiling on employers’ PRSI would add in a significant way to construction costs.

Mr McCaffrey said: “The increase will cost the construction industry £30 million in 2002 and will have a knock-on effect on all services provided by the industry”. The action, according to the CIF President, is anti-job creation and flies in the face of the Government’s stated intention of trying to keep prices and inflation down, and should be reversed. The Construction Industry Federation has written to the Minister for Finance asking him to reverse the PRSI changes introduced in the Budget.

“The CIF will be raising the matter within the PPF in advance of the Finance Bill and will be supporting the efforts by the other social partners in the Business Pillar to get it reversed. The Federation has already made the Minister for Finance aware of the seriousness of the move for the construction sector,” Mr McCaffrey said.

Giving the economic review and outlook, Liam Kelleher, Director General, CIF, said growth this year in the sector was likely to dip below 10% for the first time since 1994. “There was a slowdown in the last three months of 2000, due to the bad weather. This year will start generally strong but is likely to slow later in the year, especially as the Dublin office market fills to capacity. The overall growth for the year is likely to be about 7%, down from 10% in 2000. It is likely to be the first year in the last eight when growth in construction is in single figures”.

In addressing the issue of the National Development Plan, Mr Kelleher said: “The industry will be able to deliver the National Development Plan in full. Capacity within the industry is expanding generally, and the industry welcomes the new national and international alliances which have been forged to deliver on the larger, more complex, projects such as the Dublin Port Tunnel. These will help to deliver the plan.

“However, since the NDP was published, a host of additional projects have been piled onto the Plan. The reality is that if projects keep being piled into, some will not be deliverable. There is a need for the Government to prioritise on an ongoing basis the projects that are ‘must deliver’ ones within the next five years. Management scheduling of projects must be strengthened so there is a clear strategy for implementation. Strong project management in each major area across roads, public transport, water and sewage is essential, and a central co-ordination of the Plan and the additional announcements since, needs to be put in place to ensure delivery”.

Other points from the economic review and outlook include:-
- Civil engineering is likely to be the strongest growth in 2001;
- Housing units this year will total over 50,000 for the first time ever;
- The construction industry is the biggest single employer in the Irish economy. Employment has grown from less than 80,000 in 1994 to the current situation where there are more than 175,000 people employed directly within the industry. Adding those employed indirectly by the industry (building supply industry, etc) the figure is closer to 230,000;
- The construction industry is also the largest sector in the Irish economy, generating 20% of all economic activity in the State. The output of the construction sector in 2000 was over £14 billion, of which the Government received £4 billion through taxes and levies;
- The Health and Safety review includes details on reduction in the number of fatal accidents on construction sites, and CIF accident-prevention measures.
- Report on manpower issues in the construction industry.

Contact: Kevin Gilna, Public Affairs Executive, CIF Tel: 01 - 406 6000.
Marley Alutec’s Vortex Downpipe

Utilising the latest technology in aluminium tube manipulation processes, Marley Alutec has launched Vortex to provide a consistent internal diameter rainwater downpipe system, in sizes 63mm and 76mm, with integrally-formed pipe sockets, radius swept bends, and offsets.

Before now, traditional methods of manufacture caused a reduction in the internal bore of the pipe socket and fittings, thereby reducing the flow capacity. The Vortex system has a higher capacity ... an increase of up to 20% over the traditional cast downpipe systems. Modern in concept, Vortex retains the traditional appearance of aluminium rainwater pipes, allowing its use on both period and contemporary buildings. Mill finish and a choice of 18 polyester powder-coated colours are offered, (anodised and non-standard colours available on request).

Manufactured to BS2997 from heavy grade 1.6mm thick corrosion-resistant aluminium pipe, Vortex is designed for a long, low-maintenance life, and provides a uniform internal diameter and high capacity. It is 60% lighter than cost iron. Marley Alutec’s new rainwater pipe system combines the benefits of modern manufacturing techniques with a traditional appearance, and provides a cost-effective solution to the merchant and contractor alike.

Contact: MFP Sales. Tel: 01 - 628 0691; Fax: 01 - 628 0318; email: sales@mfp.ie

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Ensign — a Cast Iron Choice from PVF

The Ensign cast iron system from Saint-Gobain Pipelines, provides the complete solution for all above and below ground drainage applications, transporting soil and rainwater waste from buildings and retaining all the traditional advantages associated with cast iron — strength, rigidity, durability and long life.

Ensign's resistance to chemicals and its fire-retardant properties ensure there is no need for additional safety requirements such as fire collars or expensive cladding. Its excellent sound-deadening properties make it the perfect choice for hospitals, hotels, offices, airports and shopping centres.

Designed to be low maintenance and cost-effective, Ensign provides the most competitive prices within the marketplace. Unlike other materials such as plastics and vitreous clay, cast iron has no hidden or additional costs or expected maintenance requirements, and is 100% recyclable.

Its endurance and robustness means that it has the ability to resist impact damage, ground disturbance, accidental damage, and acts of vandalism. Unlike alternative plastic materials, cast iron is not subject to sunlight degradation, which means that it lasts the lifetime of the building.

In business environments or public buildings, access to such systems for repair and maintenance would inevitably lead to serious disruption to the use of the building, often with significant commercial consequences. However, cast iron's reputation for endurance means that it is sufficient to withstand the harshest of environments.

Thanks to its low coefficient expansion, there is no need to add expansion joints or sleeves through walls ... unlike UPVC/PE, it is able to resist extreme temperatures when handling hot wastes.

Quick and easy to install, Ensign jointing is easily achieved through ductile iron couplings and economical connections to waste pipes, including a multi-waste manifold which simplifies waste plumbing by grouping associated pipework from various sources such as bath, bidet and shower and connecting to one internal point, making it the perfect choice for large hotels and leisure complexes.

Externally, the pipes are given a protective coating and internally given a two-part ochre colour epoxy lining for extra protection, providing greater resistance. They perform well under greater usage and harsh conditions, making them cleaner and easier to handle.

Ensign is tested and approved by the British Board of Agrément (Certificate No:95/3125), is manufactured under a BSEN ISO9002 registered scheme of quality assurance, and has been designed in accordance with the new European standard EN877.

The Ensign system is available through Dublin based PVF (Pipes Valves & Fittings) Ltd and has been used in a wide range of prestigious buildings throughout the world, including the much publicised Celtic Manor Resort in Wales. It has also been used extensively in Ireland, including the Intel factory; the George's Dock office development; the Great Southern Hotel in Dublin; the University Hospital in Galway; the Dunlaoghaire DART Station; the Pavilion Apartments in Dunlaoghaire; Wyeth Pharmaceutical Factory; Swords Shopping Centre; and Croke Park.

Contact: PVF Ltd.
Tel: 01 - 457 3900
Fax: 01 - 457 3863;
email:sales@pvf.ie
Looking good is easy when you choose Wavin Amazon.

Match this quality look with quality performance and you're a winner.

Tough and attractive, this durable maintenance-free system comes in three high-gloss colours to enhance any house. No high-capacity system ever looked so good.

Improve your profile with Wavin Amazon Gutter and Downpipe.
Eavemaster & Classic — Perfect Combination

With years of expertise and experience in the development and manufacture of PVC-u materials, MFP can justifiably claim to be among the leading suppliers of quality fascia, soffit and guttering products to Ireland’s construction industry.

The company’s comprehensive range of systems meets all demands of modern construction, the quality and benefits offered being optimised by MFP Eavemaster and MFP Classic.

MFP Eavemaster — MFP Eavemaster is the most complete fascia and soffit system on the market and notable not only for elegance of design but also for ease of installation. Competitively priced, maintenance-free and totally weatherproof, the Eavemaster system includes easy-to-fit internal and external angles, gable boxes and finials. Its decorative ogee moulded fascia and plain board-effect soffit will enhance the appearance of any new or existing building. Systems are available in white and brown, and are designed to provide the perfect finishing touch to any building.

Hardly surprising then that in two years since its introduction, Eavemaster has gained a large share of the Irish and export markets, a share that continues to rise.

MFP Classic — Classic is an elegant, ogee style rainwater system with a choice of external fascia brackets or concealed internal brackets, and either square or circular downpipes. Anchored at outlets, angles and unions to control the effects of thermal movement, Classic is the ideal choice where appearance, performance and capacity dictate the use of rainwater systems other than half-round or square. Eavemaster and Classic have been specifically designed to complement each other, both in visual appeal and in efficient performance. Separately, the two provide excellent results. Together, Eavemaster and Classic are the perfect combination.

Contact: MFP Sales.
Tel: 01 - 628 0691;
Fax: 01 - 628 0318;
email: sales@mfp.ie

MFP Eavemaster is claimed to be the complete fascia and soffit system on the market, notable for both design elegance and ease of installation.
Developed and manufactured right here in Ireland, MFP Drainage Systems are the obvious choice for professionals. As one of the most cost effective, professional systems around, quality and value are guaranteed when you choose MFP.

The comprehensive range of products from MFP conforms to national and international standards.
Wavin: Pipework Reliability and Technical Excellence

In the area of plastic pipe manufacture and distribution, Wavin has an established reputation for reliability and technical excellence. Three examples from the company’s extensive product range are – the Wavin Osma rainwater system; the Wavin Sewer systems; and Wavin watermain.

Rainwater for all requirements — There are four Wavin Osma rainwater systems, three half-round profiles – Roundline, Superline and Roofline – and a square sectioned profile called Amazon.

All four systems are manufactured from PVC-U, the three half-round systems conforming to BS4576 Part 1 (1989). There is no British Standard for square sectioned rainwater systems. Brief details of each are as follows:

— Roundline is a nominal 112mm (4.5") system suitable for the domestic/housing market and utilises 68mm (2.5") circular downpipe;
— Superline is a nominal 125mm (5") system suitable for large roof areas or small commercial buildings and utilises the 68mm (2.5") downpipe from the Roundline range;
— Roofline is a 150mm (6") gutter system which is suitable for large industrial and commercial buildings... 110mm (4") circular downpipes are used with this system;
— Amazon is a high-capacity rainwater system for use on domestic housing and small commercial buildings. It features a 100 x 75mm (4" x 3") gutter and square 70mm (2.74") downpipe which fits flush against the wall.

Leading sewer system — WavinSewer is firmly established as the leading PVC-U house drain and sewer system in Ireland.

The system includes pipes and fittings in nine diameters, from 110mm to 450mm, plus two additional sizes of the new generation of Wavin TRITEC drain and sewer pipes in 160mm and 9" diameters.

The range offers a wide variety of components such as bends, branches, channel fittings, gullies, grease traps, access junctions and road gullies.

WavinSewer is designed for buried gravity drain and sewer applications such as foul and domestic drains and sewers, surface and storm water drains and sewers, sewage treatment, and road drainage.

Watermain system extended — WavinMain Pressure System, the completely fixed seal system, is environmentally safe for both consumer and installer alike. It has stood the test of time and has proved to pose no health hazards, either in the installation or supply of potable water.

On the expansion front, Wavin has just acquired a significant watermain business in Portadown from the Scottish manufacturer Mainetti. "This watermain business is a perfect fit for Wavin", said Des Byrne, Wavin’s managing director. "It has some unique watermain products which broadens our range of offerings to the building/construction industry and local authorities. The primary product is Aquaforce. Aquaforce has a greater pressure rating and is more ductile than traditional uPVC and therefore gives Wavin an opportunity to offer a wider range of products", he said.

Wavin at the touch of a button — www.wavin.ie is a new website... simply clicking on a map of Ireland to find key stockists by county. The site also provides contact details for Wavin’s technical representatives. Product brochures and technical literature can also be viewed or downloaded.

The company is the largest manufacturer and distributor of plastic pipe systems in the country. Its production plant is at Balbriggan and there are distribution centres in Cork and Lisburn.

Contact: Wavin Ireland.
Tel: 01 - 841 5000;
Fax: 01 - 841 5664;
email: ie-info@wavin.com
Website: www.wavin.ie
Vulcathene Chemical Waste System from BSS

The Vulcathene® Mechanical system is a complete corrosion-resistant plumbing system which embraces laboratory bench items such as wastes, drip cups and sinks; an impressive range of pipe fittings from 38mm up to 102mm; catchpots; expansion joints; and many other useful items.

The Vulcathene® mechanical plumbing system has been designed for the safe conveyance of low pressure chemical effluents, which makes it an ideal choice for school, hospital and industrial laboratory installations.

Vulcathene fittings are moulded and not fabricated, ensuring integrity and conformity to specifications. Joints can be made in 30 seconds, and can be undone and remade many times without affecting the joints efficiency, allowing system changes to be made.

Vulcathene mechanical and enfiluation pipe and fittings are compatible where both demountable and welded joints are required. Anti-siphon traps are designed to retain their seals under the most demanding conditions, while borosilicate glass base traps can be utilised where large amounts of organic solvents are to be used, and where the identification and recovery of valuable solids is required.

Non-standard fittings can be fabricated to customer specification.

The products manufactured for the Vulcathene system are covered by Agrément Certificates. Additionally, all pipes are manufactured in an environment operating a quality system which has been successfully assessed to BS EN ISO 9001.

The Vulcathene CAD Database is also available for design engineers.

Contact: John Brophy, BSS Ireland.
Tel: 01 - 416 5100; Fax: 01 - 416 5165; email: 1930.sales@bssgroup.com
Europak Customised Packaged Pumping Systems

Operating out of a purpose-built facility in Ballymount, West Dublin, Eurofluid Handling Systems offers total solutions on pumping applications to both the design engineer and the mechanical contractor.

With a combined total of over 50 years pumping experience coupled with a flexible approach to the manufacturing process, Euro fluid can assist in plant selection through to final supply and commissioning.

The advances made in pump system design incorporating frequency invertors and plc controllers are included as standard on the packaged equipment manufactured by Euro Fluid under the “Europak” name.

This range includes:

- mains water packaged booster sets;
- fire hose reel booster sets;
- oil transfer pumpsets;
- condense recovery sets;
- pressurisation equipment;
- packaged hot water transfer sets;
- packaged steam/water transfer sets.

Prestigious projects Euro Fluid has been involved with include: Citibank; Various CHP Projects; Armstrong Pressurisation — and continued investment in modern technology — Euro Fluid will consolidate its dominant position in the marketplace, and continue to supply quality equipment.

Contact: Bernard Costelloe, Euro Fluid Handling Systems. Tel: 01 - 460 0352; Fax: 01 - 450 7634; email: eurofluid@eircom.net
CHV - the new standard in vertical pressure boosting pumps

Grundfos (Ireland) Ltd, Unit 34 Stillorgan Industrial Park, Blackrock, Co Dublin.
Tel: 01 - 295 4926; Fax: 01 - 295 4739;
email: gbarry@grundfos.com Website: www.grundfos.com

Published by ARROW@DIT, 2001
Grundfos — The Safe, Reliable, Powerful Choice

Grundfos has been at the forefront in devising pumping solutions for more than 50 years. It has addressed all industry requirements, from the lifting and boosting of groundwater to water treatment, water distribution and drainage. Throughout these years the Grundfos pump range has been constantly developed to incorporate all the latest technological breakthroughs.

Today Grundfos is recognised globally as one of the pioneering market leaders, with manufacturing plants and subsidiaries in virtually every corner of the world. The Irish branch is a key element of this global network and it plays a leading role in the introduction of new products as they come on stream.

Typical recent examples are the new CHV and CHN ranges.

The CHV pump is a vertical, centrifugal pump, designed for pressure boosting in agricultural, domestic and commercial applications. Due to its vertical design, the CHV pump is a floor-space-saving solution that fits in any pressure boosting installation.

The robust and highly-efficient CHV pump is based on the well-known and reliable CH range. Since its release the CH range has set the market standard around the world for reliable and powerful multistage pumps.

CHV applications include:-
- Liquid transfer
- Pressure boosting
- Domestic water supply
- Cooling systems
- Air-conditioning systems
- Horticultural irrigation

The pump is fitted with a Grundfos motor, which is a totally enclosed, fan-cooled squirrel-cage motor. Technical details are: Rated speed: 2900 rpm; Enclosure class: IP54; Insulation class: F; Standard voltages: 1 x 220 - 240V; 3 x 220 - 240/380 - 415V.

The CHN is a horizontal, non-self-priming centrifugal pump with all stainless steel pump parts. The CHN is also based on the reliable CH range, and thus has the same dependable and outstanding hydraulic performance. Like the CH, the CHN is designed for a wide range of applications, including boosting of pressure, as well as transfer duties of slightly aggressive liquids.

CHN applications include:-
- Transfer and boosting of domestic water supply
- Irrigation and other horticultural pump duties
- Cooling systems
- Air-conditioning systems
- Washing machines as well as many light-industrial applications, where a compact solution is needed.

The pump is fitted with a Grundfos motor which is a totally-enclosed, fan-cooled squirrel-cage motor. Technical details are:
- Rated speed: 2900 rpm;
- Enclosure class: IP54;
- Insulation class: F;
- Standard voltages: 1 x 220 - 240V; 3 x 220 - 240/380 - 415V.

Single-phase motors have a built-in thermal overload protection. Three-phase motors must be connected to an external motor starter according to local regulations.

The robust and highly-effective CH pump itself, is a horizontal, non-self-priming centrifugal pump designed for a wide range of applications including the boosting in commercial and domestic water applications as well as ordinary water transfer duties.

All systems in the Grundfos CH range are available as complete water supply systems, including a pressure switch and gauge and all fittings necessary for connection to existing water systems and wells.

The CH range is available in a wide range of sizes, with flows up to 14 m³/h and heads up to 93m. The CH pumps can be installed in booster systems with flows up to 16 m³/h.

Contact: Gordon Barry, Grundfos Ireland.
Tel: 01 - 295 4926;
Fax: 01 - 295 4739;
email: gbarry@grundfos.com
Website: www.grundfos.com
Myson Pumps — for Quality & Reliability

The Myson pumps range is extensive, offering all manner of pumping solutions across the entire building services spectrum. Brief details are as follows:

The Myson “Compact” range of domestic heating circulators offers the installer assured reliability, high performance, and ease of installation for all domestic heating systems.

Special features include:
- 3-speed pump with a static head range of 2-6 metres; Manual re-start knob;
- Large terminals with clearly-marked captive screws; Automatic vent on initial start-up;
- Motor head can be replaced or repositioned without moving the pump from the system;
- All pumps guaranteed for 30 months.

The Myson “SE” pump range offers a comprehensive selection of pumps as cast iron light commercial circulators, or secondary hot water commercial circulators.

The Myson “SE” pump range has a host of special features and is available in 1 1/4", 1 1/2", or 2" as cast iron, and from 1" up to 2" in bronze;

Using disc induction motor technology, these pumps deliver a high ratio torque for effortless low speed start-up.

The use of a single static “O” ring seal eliminates the need for time-consuming, routine seal maintenance.

Myson also manufactures a range of high-performance shower pumps for boosted water pressure called Aquaboost.

With a specialist team of field and in-house technical engineers to take customer queries, Potterton Myson provides expert advice on specification and installation. Full after-sales service and spares are also available and these are complemented by the company’s unique training facility which is located at its headquarters on the Belgard Road, Dublin.

Contact: Potterton Myson (Irl) Ltd.
Tel: 01 - 459 0870;
Fax: 01 - 459 0880;
email: post@potterton-myson.ie
Website: www.myson.heating/control.com

Myson Pumps

- **Compact Range**
  - Variable speed domestic heating circulator pumps
- **SE Range**
  - Cast iron light commercial circulators
  - Bronze secondary hot water commercial circulators
- **Aquaboost Range**
  - High performance shower pumps for boosted water pressure

Potterton Myson (Irl)
Belgard Road, Tallaght, Dublin 24.
Tel: 01 - 459 0870
Fax: 01 - 459 0880
BOSS — Pumping Solutions for All Applications

Heating and chilled water systems traditionally use an open tank to accommodate expansion within the system in the event of a rise in temperature. This method has several disadvantages which include:
- water has to be stored at high level;
- air is allowed into the system causing corrosion;
- use of high-temperature systems is limited.

These limitations gave rise to the design of the "sealed system" where the expansion of water in the system is accommodated within a sealed vessel, eliminating the need for an expansion tank at high level and providing other benefits, including:
- Virtual elimination of corrosion as no air is allowed into the system under normal operating conditions;
- Higher design temperatures, allowing smaller pipework and radiators;
- Compact equipment size reduces space requirements;
- Quicker installation;
- Equipment can be sited in the boiler house for ease of maintenance;
- No problems with freezing pipe work and tanks in the roof space.

This equipment is designed for use on sealed systems with no draw-off points. If taps, showers, etc are included within the system, a pressure booster set should be used. For light commercial central heating installations a full pressurisation set would be excessive. If a pressurised system is required, BSS recommends the compact, space-saving, wall-mountable BOSS MX Mini-Pressfill. This performs the same function as larger sets, but is more suited to light commercial applications.

BOSS Pressfills are quality-engineered pressurisation units of a robust compact design. Models available include the basic Type AX, the fully-packaged cabinet-housed Type PF, the microprocessor types PEM; and Mini Pressfill compact units. Details from BSS Ireland.

Contact: John Brophy, BSS Ireland (Dublin). Tel: 01 - 416 5100; Fax: 01 - 416 5165;

Michael Quinlan, BSS Ireland (Cork). Tel: 021 - 432 1588; Fax: 021 - 432 1595; email: 1960.sales@bssgroup.com

BOSS oil transfer pumping set from BSS Ireland.

Heating and chilled water systems traditionally use an open tank to accommodate expansion within the system in the event of a rise in temperature. This method has several disadvantages which include:
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BOSS oil transfer pumping set from BSS Ireland.
BSS (Ireland) Ltd

for all your pumping requirements
Circulators, Pumps, Boosters ...

just add water!

DUBLIN
White Heather Industrial Estate, 301 South Circular Road, Dublin 8.
Tel: 01 - 416 5100; Fax: 01 - 416 5165
e-mail: 1930.sales@bssgroup.com

CORK
Unit 20, South Link Park, Ballycurreen Road, Grange, Cork.
Tel: 021 - 432 1588; Fax: 021 - 432 1595
e-mail: 1960.sales@bssgroup.com
Wilo – The Professionals Choice for Design and Reliability

Wilo Engineering Ltd has been successfully serving the Irish building services pump market since 1979. Located in Limerick, it is the Irish sales and distribution subsidiary of the German owned Wilo Salzmann AG Group. The group also has a modern production facility in Limerick, Wilo Pumps Ltd, which was established in 1979, and which employs over 150 people. Both Irish companies play an important role in the overall success of the group worldwide.

Mindful of continually having to adopt to new technology and customer’s requirements, Wilo is currently developing a new web site, www.wilo.ie, for the Irish market which will be launched this February. Since its origin in 1872, Wilo has constantly set landmarks in pump and circulator design, for both building services and general industry. This has continued into the new millennium, with many new products being developed and launched, further expanding Wilo’s comprehensive product ranges.

Cold Water & Variable Speed

For instance, the successful MHI and MVI range of stainless steel multistage pumps has been further expanded to cover a wider range of duties. The existing 200, 400, 800 series horizontal multistage MHI range now includes a new 1600 series pump that will cater for flow rates up to 6.5 litres/Sec.

The vertical multistage range, MVI 1600, now has an additional version, MVI 1600/6, which has all wetted parts in 304 stainless steel and is WRC approved.

All these pumps are suitable for water and for pressure boosting applications such as mains water supply; fire hose reel and sprinkler services; boiler feed water; industrial circulating systems; process engineering; cooling water systems; and pressure cleaning applications. They are also used on Wilo’s CCo range of booster sets assembled in Limerick and installed in numerous projects throughout Ireland.

A further development achieved last year was the launch of the new MHIE range, similar to the MHI horizontal multistage range, but incorporating automatic variable speed controlled motors. These pumps are now also incorporated into the range of COR booster sets which, with the VARIO control system, provide a complete variable speed controlled booster system. One of the first of these units used in Ireland was recently installed in a prestigious development in Blanchardstown, Dublin.

The MVISE range was also launched. This product provides a virtually silently-operating vertical multistage pump range, complete with integrated variable speed-controlled motors. This new range of pumps is ideal for applications where the low operating noise of a booster set is a critical design consideration.

Rainwater Utilisation Systems

People involved in the building services industry are familiar with Wilo’s circulating pump ranges, but Wilo also has an extended range of...
EURO
Fluid Handling Systems Ltd
MAIN DISTRIBUTOR FOR

GRUNDFOS® Pumps
ACV
Hot Water Heaters
Armstrong Pressurisation Equipment
Heat Exchangers

Manufacturers of Europak

- Mains Water Packaged Booster Sets
- Fire Hose Reel Booster Sets
- Transfer Pumpsets
- Condense Recovery Sets
- Pressurisation Equipment
- Packaged Hot Water Transfer Sets
- Packaged Steam/Water Transfer Sets

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Tel: 01 - 450 3884/460 0352/460 0353; Fax: 01 - 450 7634

One source supply capability

Exclusively representing and distributing internationally recognised brands including:

ALBANY Rotary gear, oil pumps
ENSIVAL Specialised engineered industrial pumps
FTI Drum pumps, plastic magnetic drive sealless pumps
GRUNDFOS Circulators, vertical multistage, submersible pumps
HAWKER Full range of level control systems
HMD Magnetic drive sealless pumps
HOLPAK Bespoke range of packaged pumpsets
KOLMEKS Industrial circulating pumps
LEWA Dosing, metering and process pumps
SUNFLO High pressure centrifugal pumps
VERSA-MATIC Air operated diaphragm pumps

Fluid Handling Specialists To Industry
The leading supplier of pumps for over half a century.

HOLFELD PUMPS
Fluid Handling Specialists
A Member of the H.R. Holfeld Group

2-4 Merville Road, Stillorgan
Dublin, Ireland
Telephone 01 288 7361
Facsimile 01 288 7380

Holfeld Pumps design and supply advanced pumping technology and manufacture the HOLPAK bespoke range of packaged pumpsets and pressure booster pump systems. Extensive and diverse applications, product expertise and technical support. Service, reconditioning and workshop facilities manned with trained personnel.
packaged rainwater utilisation systems, and a growing awareness of environmental issues is now generating a greater interest in these products in Ireland.

The trend to re-use run-off rainwater has been firmly established on mainland Europe, with countries like Germany, Holland and Denmark taking the lead. If you consider that approximately five to seven per cent of water usage in an average domestic environment is used specifically for drinking and cooking purposes, this country offers plenty of opportunities for the harnessing of rainwater for use in toilets, washing machines, irrigation, and sprinkler systems. The amount of mains water required is significantly reduced, with obvious benefits from both an economic and environmental viewpoint.

The Wilo Rainwater Collector II set comprises a 1500-litre multi-chamber collection tank, self-priming pump and associated controls. The unit is pre-piped and fitted with a mains water make-up connection to maintain continued operation during dry periods. The total storage volume can be extended by the addition of extension tanks, if required.

The Wilo Rainwater AF system is designed for operation in conjunction with onsite cistern or collector tanks. Available with single or twin self-priming pumps, the units are supplied with an integrated mains make-up storage and an electronic “rain control” panel, which offers water level indication, low water alarm, auto changeover and BMS link as some of its many functions. All components in contact with the fluid handled are corrosion proof.

Electronic Dual Pump Management

The DP-E glanded pump range now boasts a comprehensive range of dual pump management features. By simply connecting the two pump heads via a 2-core communication cable, the pumps can be set to function in a master / slave arrangement. This feature then dispenses with the need for auto changeover switchgear in the main control panel. This facility provides duty / standby operation with automatic fault changeover and automatic cycling of the duty pump after 24 hours running time. Alternatively, the pumps can be remotely speed-controlled via an external 0 - 10 Volt signal. Terminals for an “external off” control input are also provided. Other features provided include fault indication and a PLR interface. In addition, two volt-free contacts provide common run and common fault signals for BMS.

The only external criteria for operation of the above features is that both heads of the DP-E pump must be wired with a permanent, individual electrical supply from the main control panel. This feature then dispenses with the need for auto changeover switchgear in the main control panel, as well as thermal overload protection. Some of these facilities are also available on the TOP ED range of twin-head glandless pumps, with the addition of IF modules fitted in the motor terminal boxes.

Drainage Water Pump.

Available from January 2001, the new Wilo-Drain TM/TMW 32 range of quality submersible pumps supersedes the previous TM 30 range. The pumps are a new design from the Wilo research and development department and are suitable for applications such as cellar drainage, washing machine waste, car wash wastewater and general tank or sump emptying. The range includes three models fitted with the Wilo patented “Meister-System”. This is an integrated feature which creates a turbulating action around the pump suction and base of the sump. This prevents sludge forming in the sump and ensures the sump is kept clear of settlement build up.

The pumps operate automatically via a float switch, and can pump down to a level of just 14mm. A special version, the HD, is available for aggressive fluids such as condensate, sea water, pool water, etc. This model is constructed from AISI 316 L stainless steel. Motor thermal overload protection is standard on all models.

This year Wilo will continue to innovate and expand its product range, and incorporate the most advanced technology available, to the advantage of the building services industry.

Contact Tony Cusack, Wilo Engineering Ltd.
Tel: 061 - 410 963; Fax: 061 - 414 728; e-mail: sales@wilo.ie
Web: www.wilo.com
ECOFAN
Reduces by recirculation the temperature difference between the roof and the floor.

ECOFAN Recirculation/ventilation desiccation unit

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

INFRA LINE
Suspended flexible radiant heating system 50-100 kW

INFRA
Suspended radiant heaters 12-32.4 kW

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

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

G
Direct gas-fired duct heat exchanger module with atmospheric burner; 20.4-95.8 kW

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

E OCF AN
Reduces by recirculation the temperature difference between the roof and the floor.

ROOFTOP
Direct gas-fired air heater, with a fully modulating burner with 100% efficiency; 71.996 kW

C A L F L O
Direct gas-fired make up air heater, with a fully modulating burner; capacities are available on request

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

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

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