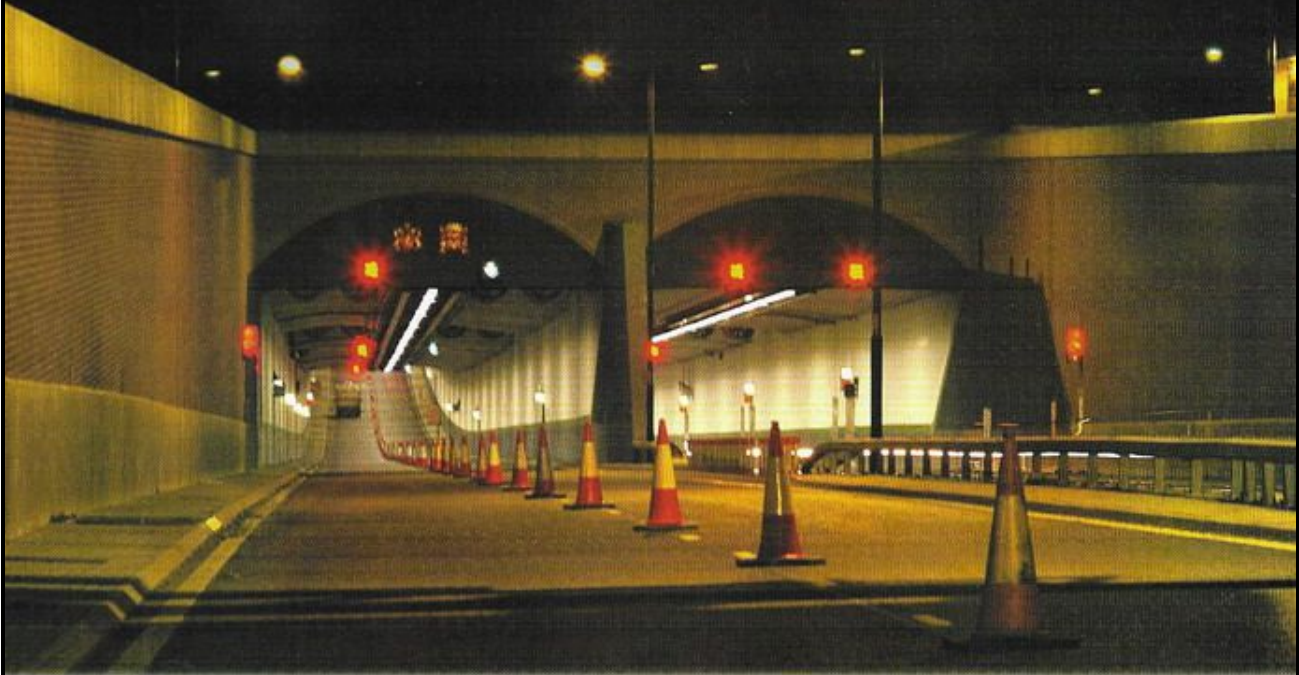


**A SELECTION OF 1997
ADVERTISEMENTS
FROM THE BUILDING SERVICES
CENTENARY SUPPLEMENT**

CIBSE Heritage Group

Keeping operations cool -24 Hours a day



edenaire is keeping the air fresh in the new Medway Tunnel main operations room. The tunnel linking Gillingham and Strood presented unique problems that **required sophisticated air handling units** for the main control room.

Edenaire designed and manufactured customised units so that control room equipment could **operate 24 hours a day**. The equipment building, the nerve centre of tunnel operations, houses a vast array of computerised equipment controlling all the tunnels

functions. The equipment is so sensitive that it has to operate in a controlled environment. **It had to be right first time!**

The five customised air handling units ensure that the **humidity and temperature levels are kept at a constant 21.7C.**

Another example of **Edenaire's** proven track record of providing customised air conditioning that is more **cost effective** than adapting standard equipment.

**FAX NOW!
FOR DETAILS** 01732 866731

edenaire

**Customised Air Conditioning
Changing Climates**

Eaton-Williams congratulates the Chartered Institution of Building Services Engineers on their 100th Birthday



Eaton-Williams

Station Road, Edenbridge, Kent TN8 6EG, TEL: 01732 86 6066

More information 80

COLT

Colt International Ltd

offer their sincere

congratulations

and best wishes to



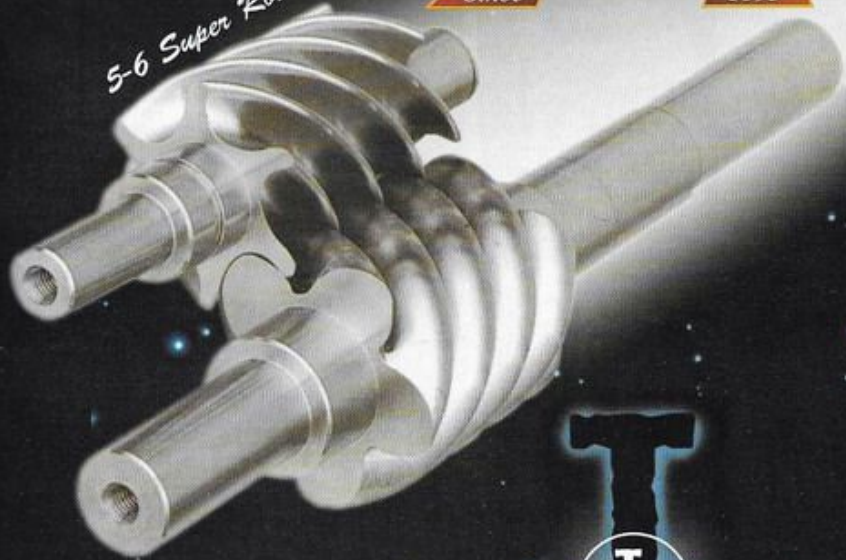
CIBSE

for 100 years of service


Packaged Aircooled Liquid Chillers (Centrifugal Fans)
Packaged Air Cooled Liquid Chillers (Axial Fans)
Packaged Aircooled Heat Pump Liquid Chillers
Remote Condenserless Liquid Chillers
Water Cooled Liquid Chillers
Screw Compressor
R407C



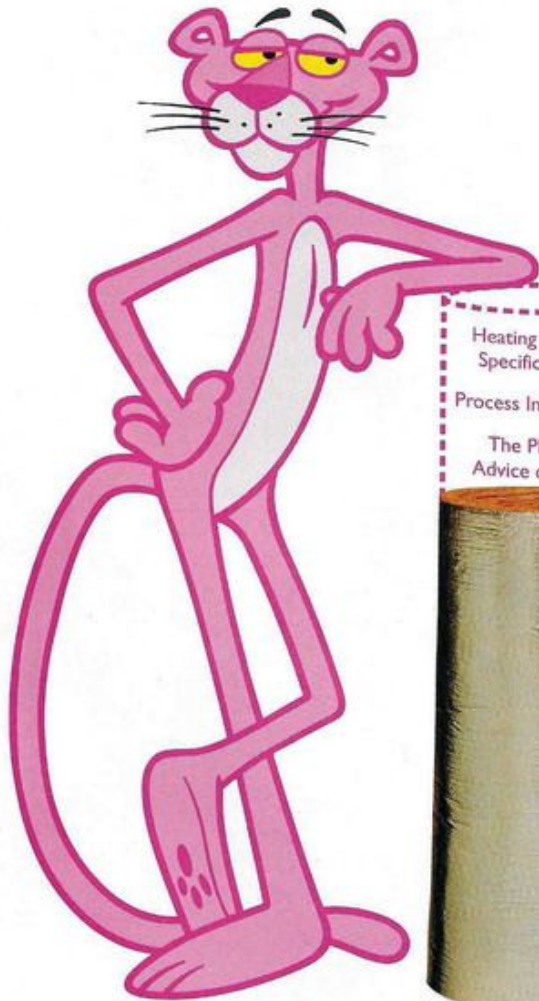
5-6 Super Rotor



THE SERVICE IS OUT THERE

 More information 83

CHOOSE OWENS CORNING AND YOU'LL GET A LOT MORE THAN JUST INSULATION.



Heating & Ventilation
Specification Guide
•
Process Insulation Guide
•
The PINK Disk -
Advice on CD-ROM

Widest
Product
Range
•
Technical
Literature

Insulation Advisory
Service Hotline on
Freefone 0800 627465

Facts by Fax Hotline on
Freefone 0800 623299

Customer Satisfaction
Hotline on **Freefone**
0800 627465

New Internet Web Site

You get a lot more for your money with Owens Corning.

As the UK's only manufacturer of glass mineral wool, rock mineral wool and extruded polystyrene, not only do we offer the most appropriate solution to your insulation requirements, but we also offer the best all-round service and support package.

We call it System Thinking™.

And now, we're giving our Crown glass mineral wool Heating and Ventilation products the pink treatment to make it easier

for you to spot the genuine Owens Corning article.

If you'd like to know more, call the Insulation Advisory Service Hotline on **Freefone 0800 627465 (0800 OCPINK)** for the full facts about Owens Corning insulation. And find out how much more we have to offer you.



TM&© 1997 LUAP



We Make The Difference®

FOR H&V INSULATION, THINK PINK.™

<http://www.owenscorning.com/owens/uk>

The colour pink is a registered trade mark of Owens Corning.

More information 84



ONE NAME...

For over 30 years the Liebert Corporation has been designing and manufacturing innovative systems to protect computers, networks and telecommunication installations against electrical disturbances and unsuitable environmental conditions. And today we are the world's largest supplier of sophisticated critical system support equipment.

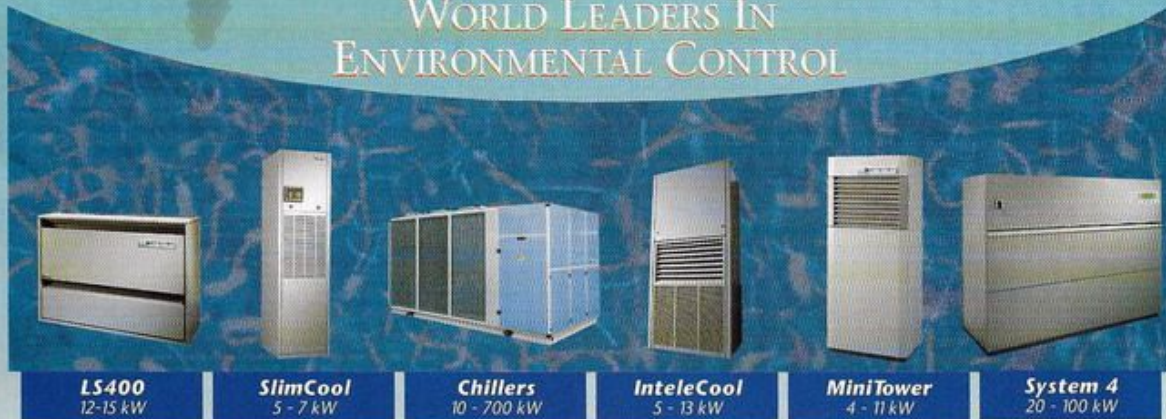
Part of Emerson Electric Co, we have 15 manufacturing bases and over 200 sales and service locations around the world, providing the very best in product technology and customer support. For effective critical system protection, Liebert is the only name you need to know.

...MANY SOLUTIONS

To maintain the correct environment for electronic equipment, precision air conditioning is essential. Conventional 'comfort' air conditioning is designed for people, but 'precision' systems need to maintain the temperature and humidity conditions required by sensitive electronics throughout the year, 24 hours a day. Liebert leads the field in delivering the best solution to ensure optimum environmental conditions in critical areas. Our family of energy efficient systems ranges from compact, small footprint stand-alone air conditioning units to large packaged systems and chillers.

When ever precision air conditioning is important, Liebert provides the best solution.

WORLD LEADERS IN ENVIRONMENTAL CONTROL



LS400
12-15 kW

SlimCool
5 - 7 kW

Chillers
10 - 700 kW

IntelCool
5 - 13 kW

MiniTower
4 - 11 kW

System 4
20 - 100 kW



LIEBERT CORPORATION

1050 DEARBORN DRIVE
P.O. BOX 29186
COLUMBUS, OHIO, USA
TEL: +1 614 888 0246
FAX: +1 614 841 6022

EUROPEAN HEADQUARTERS

GLOBE PARK, MARLOW
BUCKINGHAMSHIRE SL7 1YG
UNITED KINGDOM
TEL: +44 (0) 1628 403200
FAX: +44 (0) 1628 403294

LIEBERT WEB SITE

<http://www.liebert.com>

More information 85

NETWORK POWER PROTECTION

POWER PROTECTION

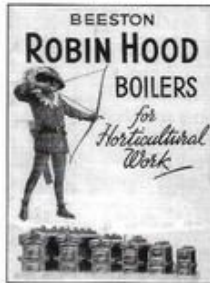
ENVIRONMENTAL CONTROL

SITE PRODUCTS

GLOBAL SERVICES

For 100 years, we have believed that excellence is the only solution

Nottingham Castle is one of Britain's enduring symbols - 1000 years of history and a symbolic link with one of our great legendary heroes.



From its first construction in 1068, the Castle has been a silent witness to mankind's progress - from the battles of Richard 1 in 1194, its demise in 1651 after the Civil War and then subsequent rebuilding during the late 1600's.

The 20th Century has been a century of change - and in this respect, Nottingham Castle is no exception.

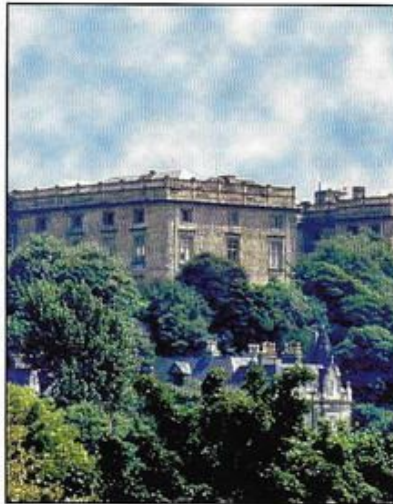
In 1875 Nottingham Castle had been a roofless shell for more than four decades. But, bought and restored by the Nottingham Corporation, it was given a new lease of life as the first municipal museum outside London for fine and applied arts.

Heating was supplied by The Beeston Foundry Company, based in Nottinghamshire, which for many years had the 'Robin Hood' boiler as its flagship product.

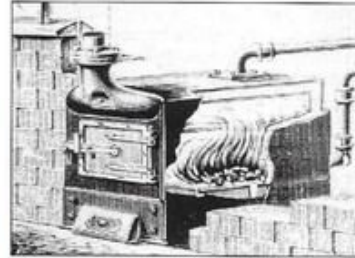
In 1841, Beeston began life manufacturing ornate horticultural buildings and conservatories. It progressed to heating systems and in 1867 a patent was granted for the first cast-iron Saddleback boiler.

In 1893, Henry Pearson formed "The Beeston Foundry Co Ltd" which manufactured heating equipment solely 'for the trade'. Many of the boilers installed in those early years are still working today - for example, the Senior, launched in 1904.

For more than 100 years, the name Beeston has been synonymous with the best in industrial and commercial heating and although technology has changed dramatically, Beeston's commitment to customer service has never wavered - whether serving the needs of an historic site such as Nottingham Castle, which is still



In the same way that CIBSE members have risen to the challenge of providing better buildings with better indoor climates, so too has Beeston worked to provide the products to match.



As we approach a new millennium, we are all aware of the need to conserve resources and develop more energy efficient products. The way we live today has altered dramatically - when, 1000 years ago, Nottingham Castle was first crafted, its builders could not have imagined the sights it has witnessed and the advances we have made.

For more than 100 years, Beeston has been part of those advances and today's Beeston Heating Group is borne from a century of change and development, emerging as an organisation committed to Total Quality and looking forward to the future

challenges and demands the next 100 years may bring.

As a Patron of CIBSE we salute our colleagues and congratulate them on their Centenary of Excellence.

heated by Beeston boilers to this day, or providing low-emission products for a new commercial development. Quality for Beeston means that

we aim to exceed our customers' expectations of both product and service all the time, every time and in every way, at a competitive price.



A product range designed to give increased choice and easy access to equipment is available and covers heating and hot water, pumps, controls, pressurisation, condensing and low NOx.



And, as always, we will endeavour to continue to bring excellence of both product and service to the industrial and commercial market place.



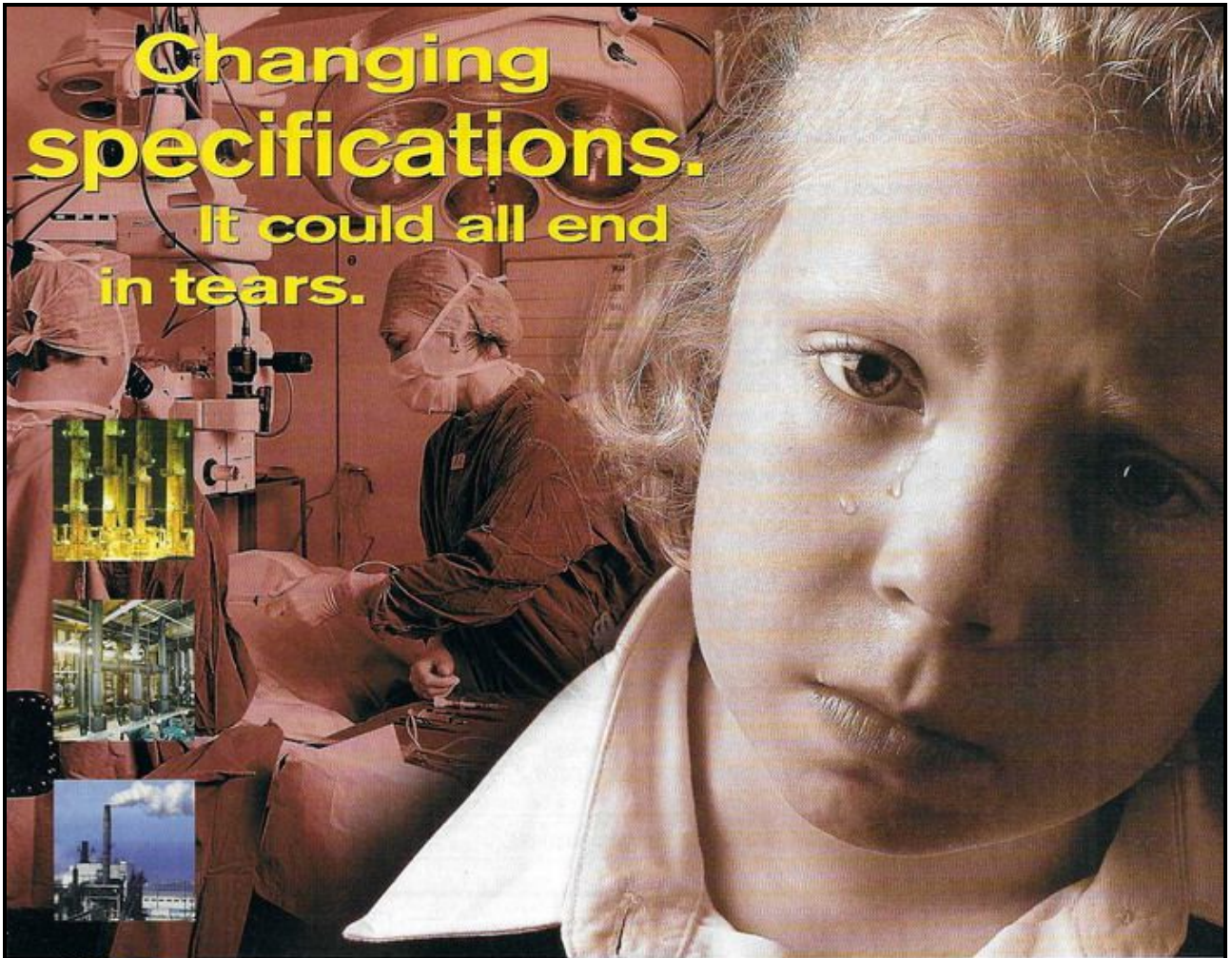
Beeston Heating Ltd.,
Derwentside Industrial Park,
Derby Road, Belper, Derbyshire DE56 1UX

Telephone: 01773 828383
Fax: 01773 829091
e-mail: info@beeston-heating.co.uk

Visit us at WWW.beeston-heating.co.uk

More information 86

Changing specifications. It could all end in tears.



...The advantage
is Armstrong



When specifications are drawn up for building or engineering works, certain materials are specified for their outstanding performance 'Armstrong Insulation Products' for example.

If you down grade or change the specifications there are consequences, you may save pennies initially which may seem attractive but in the long term those savings may well be eroded by poor product performance.

But the consequences could be more severe. A product that doesn't perform to specification could give cause to an accident resulting in...

...that's anybody's guess!

So when you specify Armstrong Insulation Products make sure you get Armstrong Insulation Products.

• **Armstrong – the market leader**

When Armstrong Insulation Products are specified you know that over 40 years practical experience and continued research and development have gone into ensuring products that perform.

• **Full technical support**

Our commitment to customers includes free, full technical support and assistance from initial specification through to installation.

• **Comprehensive training**

Armstrong provide a comprehensive training programme – on and off site – aimed at helping to reduce installation costs, it will also increase both the performance and longevity of the product.

• **Global organisation**

Throughout the world Armstrong products are at work in all types of industries and climates. And because we operate worldwide we know we have the right product available to suit your specific needs.

• **Leading by design**

At Armstrong we have a continuous research and development programme, aimed at ensuring higher product standards, optimising performance, longevity, ease of installation and safety.

**In essence Armstrong has
...The advantage.**



**Flexibility
Performance**

Armstrong
INSULATION PRODUCTS

For further information contact: Customer Services Department,

Armstrong Insulation Products, a division of Armstrong World Industries Ltd., Mars Street, Oldham, Lancashire. OL9 6LY. Tel : 0161 287 7100 Fax : 0161 633 2685

More information 87

DAWN OF A NEW ERA FOR BUSBAR SYSTEMS

From our new larger manufacturing facility with increased capacity, Barduct will continue to develop and supply cutting edge busbar systems from 25 - 7500 amperes.

An ever expanding range to meet the needs of electrical distribution worldwide and consistent excellence in customer service ensures we are the first choice in busbar systems.

BARDUCT

BUSBAR SYSTEMS

For more information on our products and technical details please contact:

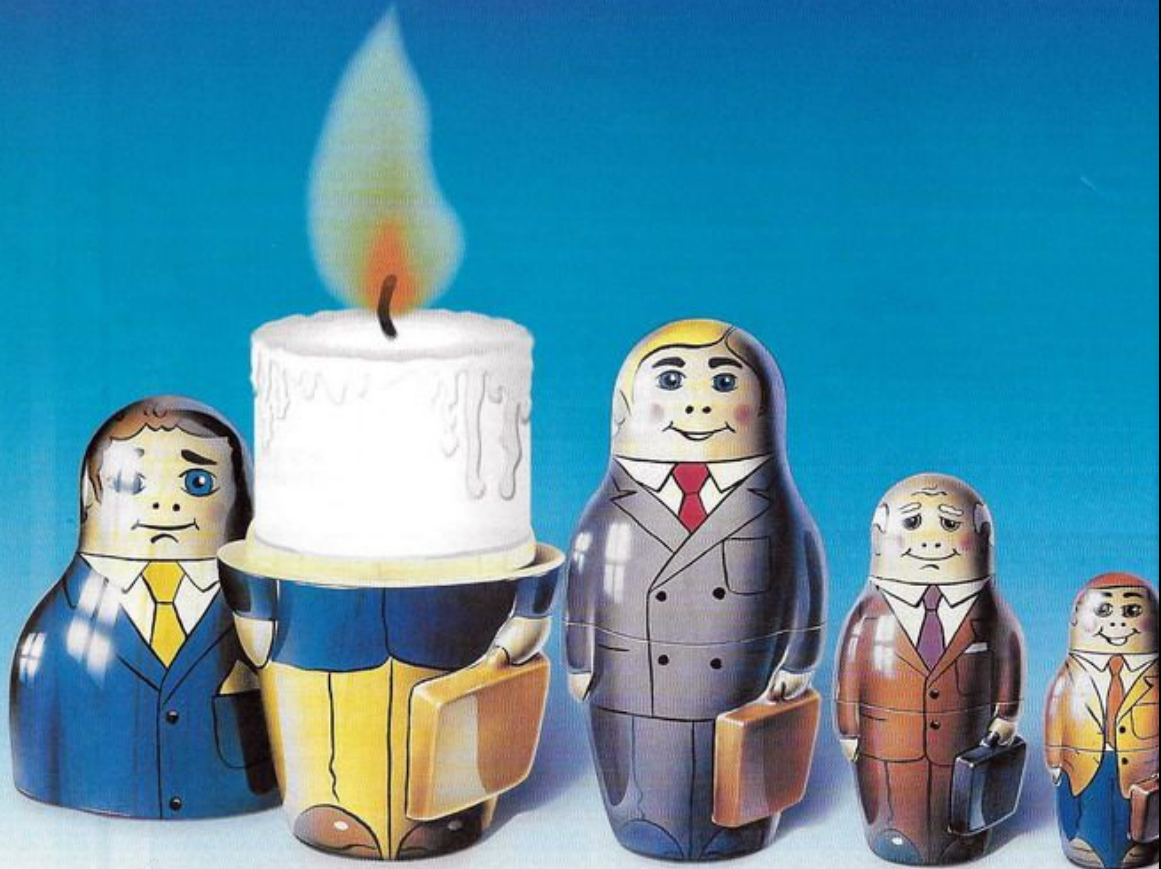
**Barduct Limited
Gatehouse Close
Aylesbury
Buckinghamshire
HP19 3DJ**

**Telephone: 00 44 (0) 1256 324751
Facsimile: 00 44 (0) 1256 479291**

A Klöckner Moeller Company



Warmest
congratulations to
CIBSE
on 100 years service
to the industry



From the Honeywell family.

Honeywell Control Systems Limited, Honeywell House,
Bracknell, Berkshire RG12 1EB.
Telephone: 01344 656000

Honeywell

Helping You Control Your World

 More information 95

VIESSMANN



High technology

Viessmann leads the way in the development of heating products which offer the maximum heat output for the minimum amount of energy.



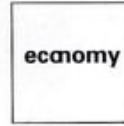
teamwork

Viessmann's reputation for quality is due to an integrated team of qualified and experienced specialist staff who combine to provide research, production planning, space consultation fitting and maintenance services.



reliability

The Viessmann name inspires total confidence in trouble free, automatically regulated heating which can be relied upon day and night.



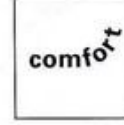
economy

Only intelligent heating systems which work reliably are cost effective in the long run. Viessmann systems are planned, fitted and serviced at little cost and save on energy which guarantees even greater savings.



environmentally friendly

Viessmann's intelligent heating systems have a low energy consumption and low emission levels of harmful substances, making it one of the most environmentally conscious manufacturers in the marketplace.



comfort

With Viessmann, the right level of heating is produced automatically making for a comfortable living environment.



A commitment to technology in pursuit of economical, reliable and environmentally friendly quality heating.

Viessmann Limited
Hortonwood 32
Telford, Shropshire
TF1 4EU, Tel. (019 52) 67 02 61
Fax (019 52) 67 01 03
E-mail: manager@viessman.demon.co.uk
Internet: <http://www.viessmann.com>

VIESSMANN

■ More information 96



AT LAST THE EMERGENCY LIGHT THAT CAN CALL FOR HELP

CENTREL - THE NEW ADDRESSABLE CENTRAL TESTING SYSTEM

Every emergency luminaire is linked by a simple pair of wires to a central control point which is programmed to run tests automatically. **If there is a fault it tells you!**

Installing Centrel will give you the opportunity to increase maintenance efficiency, so taking advantage of the huge time and cost saving potential. Centrel complies with all emergency lighting standards and offers increased safety awareness, automatically printing a record which complies with Health and Safety requirements. You will also benefit from the full technical support of Emergi-Lite.



CENTREL GIVES YOU THE CHOICE:

- Choose your schedule
- Choose your report
- Choose when to print
- Choose a PC* or a wall mounted option

Answer the call - make Centrel the automatic choice

* using Windows based software.



Emergi-Lite Safety Systems Ltd. Bruntcliffe Lane, Morley, Leeds, LS27 9LL

Tel: 0113 281 0600 Fax: 0113 281 0601

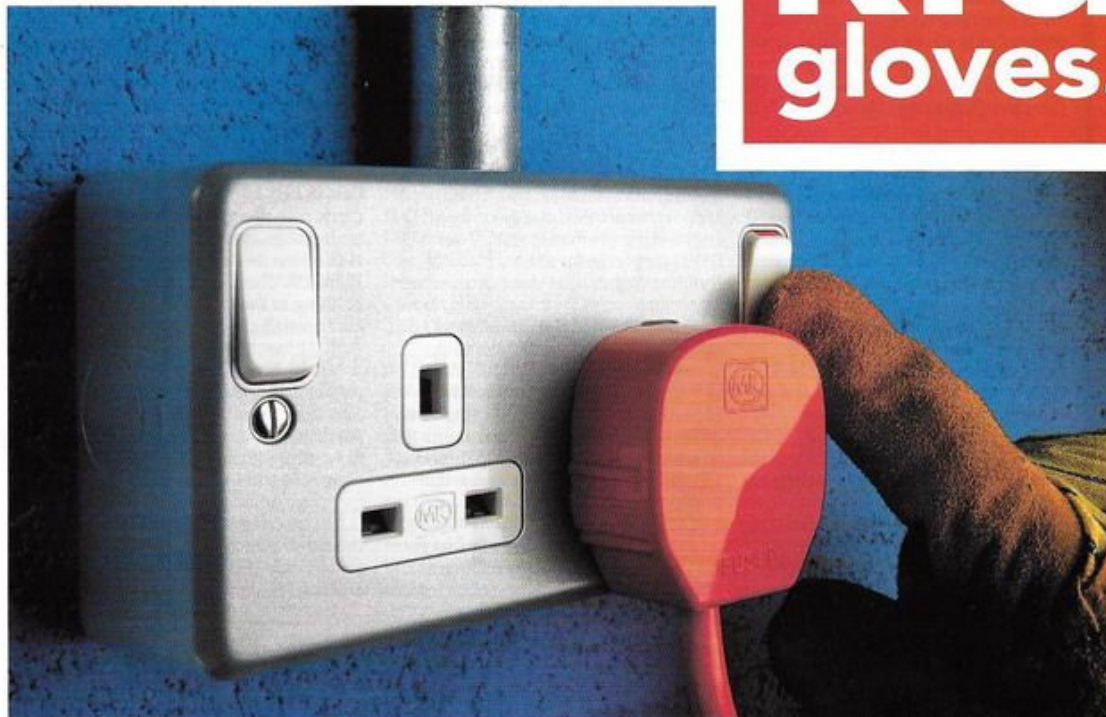


■ More information 97

Metalclad Plus.

You don't have
to treat it with

kid
gloves.



YOU'VE GOT to hand it to MK. They've taken the toughest products on the market and made them even harder to beat.

Starting with the finish, you'll find that Metalclad Plus has an entirely new metallic coating. It's even more scratch resistant and will stay looking good even after years of rough treatment.

The new-look front plate, with its smoothly chamfered edges, is engineered to mount flush with the back box. (You could say it fits like a glove.) There's more metal up front, and we've used a resilient polycarbonate/ABS blend on the socket inserts for extra impact protection.

Then our designers have really thrown down the gauntlet to the opposition, by adding new products such as a connection unit with a secret key switch, and wide rocker switches for easy everyday use. Contractors will

have an easier life, too. Metalclad Plus products can be installed with just one 4mm screwdriver.

For more information on the widest range of products for hard-working environments, contact the MK Customer Service team on 01268 563307.

We'll help you get to grips with anything the job throws at you.



It's simply safer to say MK™

Caradon MK Electric Limited,
The Arnold Centre, Paycocke Road, Basildon, Essex SS14 3EA
Telephone: 01268 563000. Facsimile: 01268 563563
Metalclad Plus is a Trade Mark of Caradon MK Electric Limited.

 More information 98

A tradition in

'Leading Edge Technology'



Oplaender has been involved in central heating systems since 1890. However the move to "popularise" heating in the 1920's met problems due to the need for large diameter pipes.

These were required to ensure that circulation on the basis of convection, hot water up and cold water down, functioned. To facilitate the move to smaller



pipework and more efficient circulation, Oplaender invented and patented (in 1929) this initial water accelerator - the first circulator.



1945 During this period Salmson started to produce pumps based on the wet rotor principle. (In 1919, SALMSON began the mass production of first, aircraft engines and then car engines. In 1870 Emile Salmson was already at the forefront of lift technology.)



1953/58 Work was being undertaken to improve the bearings of the pump. The Swiss company Ruetschi perfected this and developed and licensed the PERFECTA glandless system. Wilo and Salmson both commenced the marketing of Perfecta glandless circulators made in Dortmund and Laval.



1968/1973 Both Salmson and Wilo continue with product improvement and production as their respective outputs approach 1 million circulators yearly. The factory is extended and one of Europe's most modern manufacturing plants commences its growth.



1984/86 Oplaender acquires both Salmson and Drouard Tec and commences with integrating both development and production. Salmson obtains its kitemark approval to BS1394 for the smaller circulators.

1988 WSP introduces the improved Gold Domestic circulators which are approved to BS 1394 : 1987

1990 Wilo introduces the first range of truly electronic variable speed circulators for Building Services use. These are designed not only to save energy but to reduce central heating system noise. This is the forerunner of the microprocessor controlled series of Wilo circulators designed to communicate digitally with building management systems.



1997 Laval becomes totally responsible for manufacturing the Wilo Salmson glandless circulators. With our unique heritage WILO SALMSON PUMPS LTD are truly proud of our past achievements and we are committed to continuing our innovative approach to technology that has kept us at the 'Leading Edge' for over 65 years.

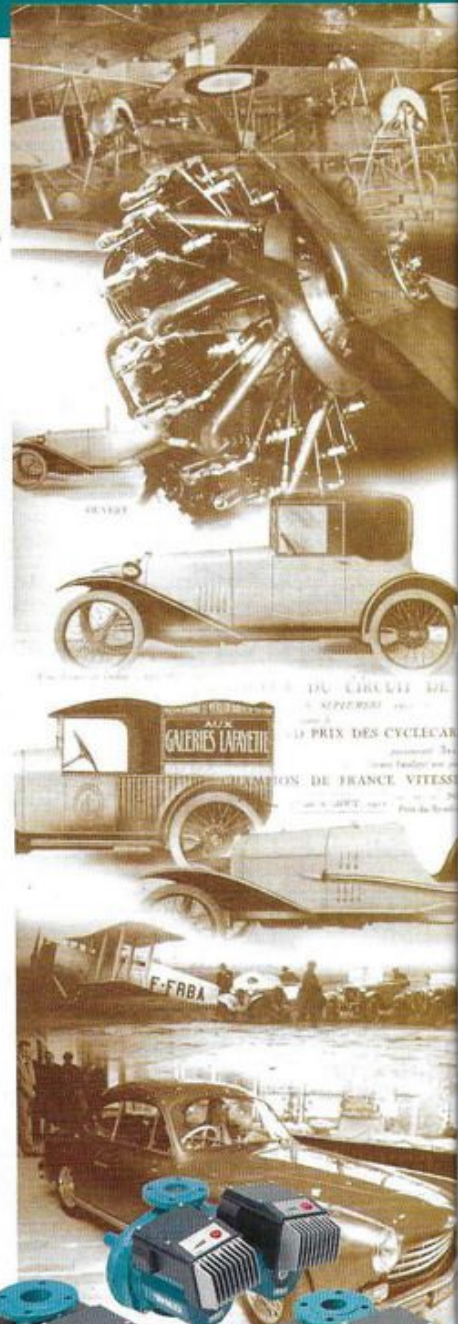
More information 99

...Perfection is timeless!

WILLO

WILLO SALMSON PUMPS LTD

Wilo Salmson Pumps Ltd, Ashlyn Road, Derby DE21 6XE
Tel: 01332 385181 Fax: 01332 344423
e-mail: sales@wilo.co.uk Web Site: www.wilo.co.uk



Leading Edge technology and innovation for over 65 years

1929 - 1997



THE ANDREWS ADVANTAGE

For the continuous production of hot water in domestic, commercial and industrial applications, Andrews Water Heaters are the perfect answer. Efficiency and economy are achieved by separating the hot water generation from the space heating requirement. The heaters can be sized to accommodate specific demands and, in many instances, located close to the point of use thereby eliminating heat losses due to long pipe runs. Choose gas or oil fired options with conventional and fan flue configurations. All gas-fired models carry the CE mark and all models are WRC listed. Standard Range units also hold BBA certification for Unvented installation.



ANDREWS HI-FLO FAVOURITES AT YORK RACECOURSE

For the provision of hot water in the new Knavesmire Grandstand and Restaurant areas at York Racecourse, Andrews had the answer. Three Hi-Flo 54/440 models, the largest in our range were installed, each providing 245 litres of stored hot water with hourly outputs of 1998 litres at a temperature rise of 44°C. In addition, a smaller unit was specified for the Tattersalls Restaurant. By separating the heating and hot water requirements,

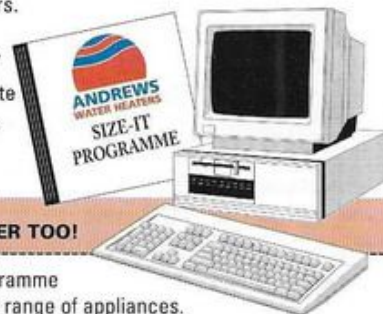
huge economies have been achieved especially in the summer months.



FREE ANDREWS "SIZE-IT" PROGRAM

To make Water Heater selection easier, we've produced a 'user friendly' computer program that is available to you at no charge. The installation disks are compatible with any PC running Windows 3.1 or above and are designed to produce quick and accurate information on all Andrews Water Heaters.

For your free copy of the Andrews "SIZE-IT" program simply complete and return the coupon.



BACK ANDREWS AND YOU'LL BE ON A WINNER TOO!

Please send me my FREE copy of the "SIZE-IT" Programme together with further information about the Andrews range of appliances.

I am particularly interested in:

Water Heating Water & Space Heating

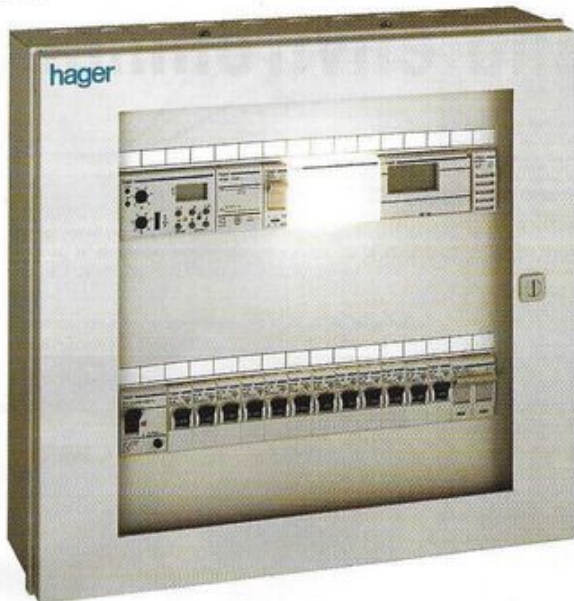
NAME _____ TEL NO _____ BS/10/97.
COMPANY _____ POSITION _____
ADDRESS _____

Return to: Andrews Water Heaters, Alston Road, Oldbury, West Midlands B69 2PP Telephone: 0121 544 9900 Facsimile: 0121 552 2818

More information 100



This Hager multi-service unit
is not only easy to install
but...



... it can switch on the lights,
ring the doorbell, take the
temperature, control the heating,
protect the family and if the
power fails it will even shed
a little light on the problem

No more than
you'd expect
from the best

The Hager range of multi-service consumer units offers high levels of protection, control and energy management.

With a choice of plain or glazed doors, they can all be fitted with a wide range of modular devices including RCDs, light sensitive switches, bells, buzzers, thermostats, heating programmers and even a clever little emergency light that stays on for 30 minutes if all the other lights go out! And, unused outgoing ways can be neatly masked with a blanking module that'll ensure an aesthetically pleasing installation.

Hager consumer units are only part of the total Hager system for domestic, commercial and industrial applications right up to 630A.

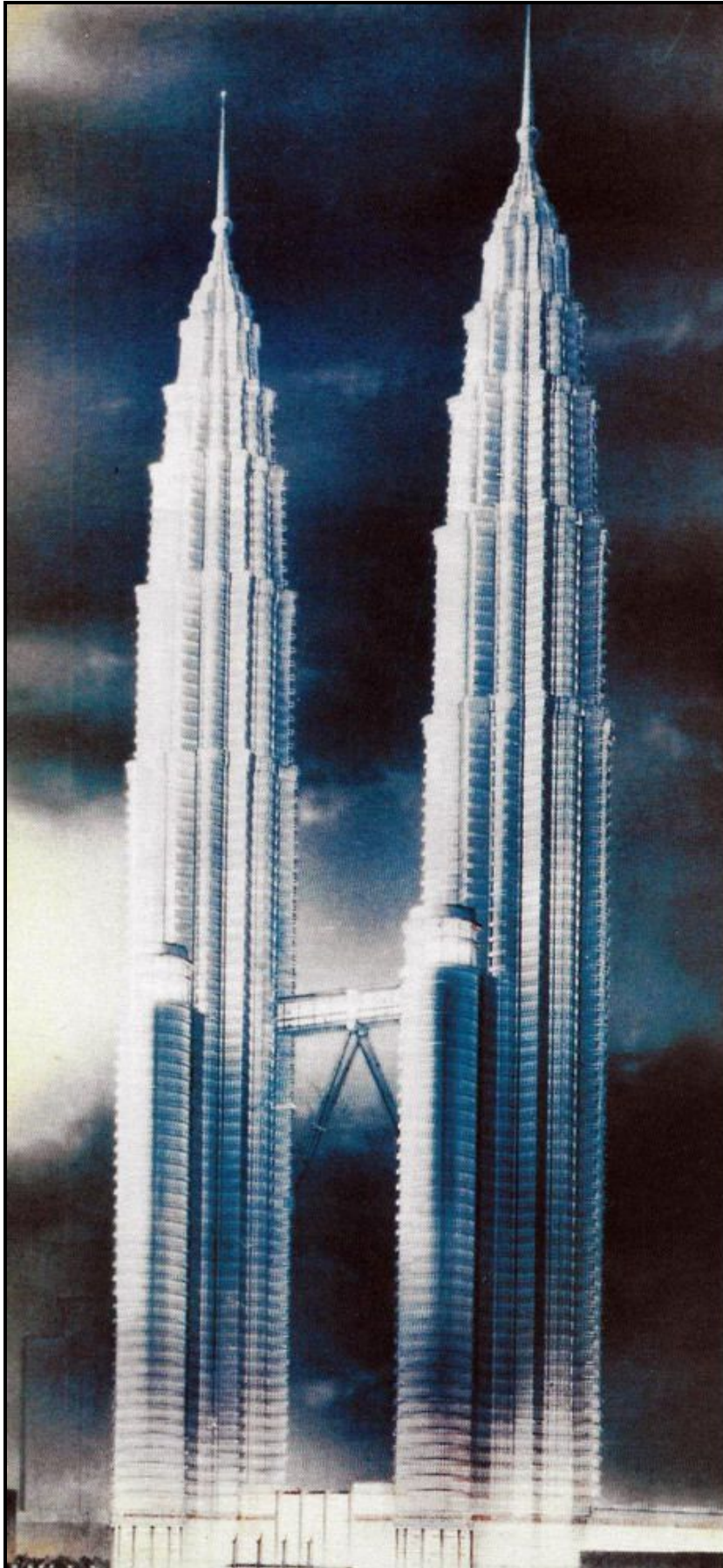
Complete the reader enquiry card, write or phone for more information on the Hager range of consumer units.

hager

the success is in the system

Hager Powertech Ltd
Hortonwood 50
Telford
Shropshire TF1 4FT
Tel: 01952 677899
Fax: 01952 675595

 More information 113



Another tall story from **Hattersley**

all 88 of them

Yes, Hattersley bronze, ductile iron and steel valves from 16 to 40 bar are installed in the world beating 88 storey Petronas Tower complex in Kuala Lumpur, Malaysia.

With its distinctive twin towers reaching up 451 metres, linked by a spectacular sky bridge it is one of the modern wonders of the age.

Why Hattersley valves?

Because only Hattersley has the experience and wide product range to satisfy the requirements of today's complex high rise structures such as London's NatWest Tower and many others around the world.

With its worldwide reputation for product quality and reliability, Hattersley is the natural valve choice for the future.



For information on the
future of valves contact

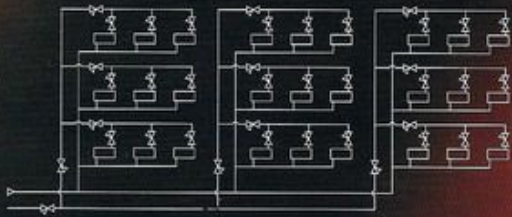
HATTERSLEY

CENTENARY 1897  1997.

Hattersley Newman Hender Limited
Burscough Road, Ormskirk, Lancs L39 2XG.
Tel: 01695 577199 Fax: 01695 578775

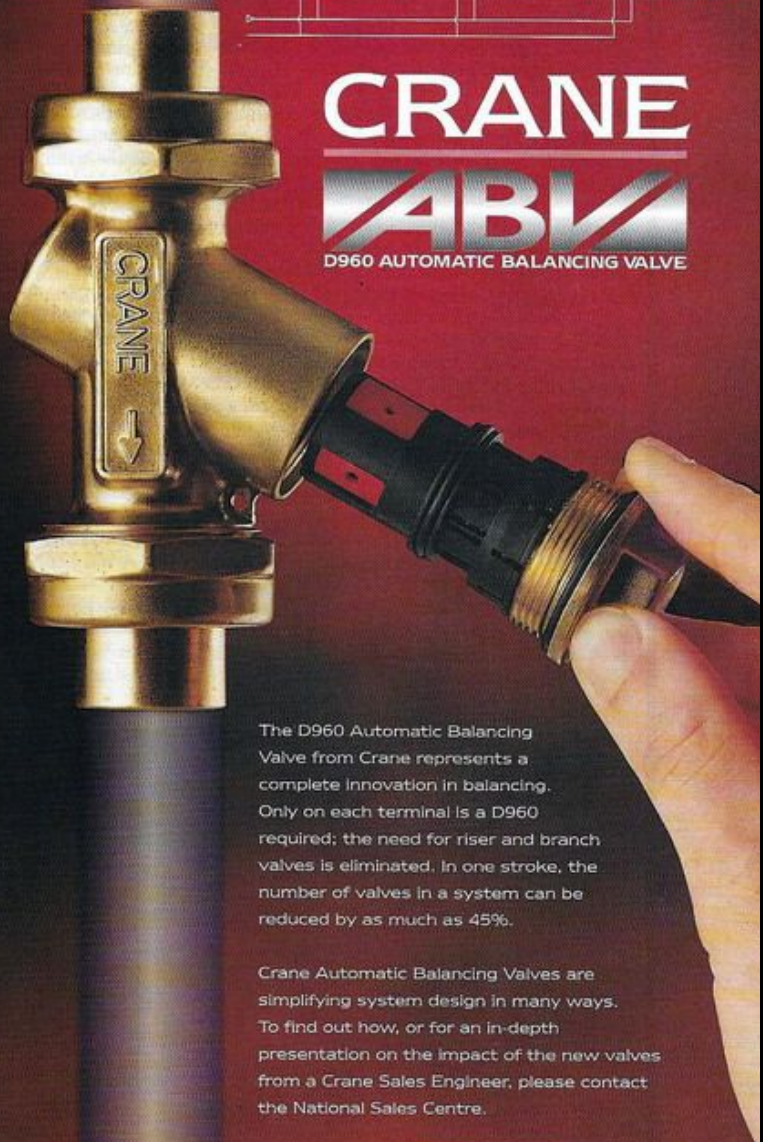
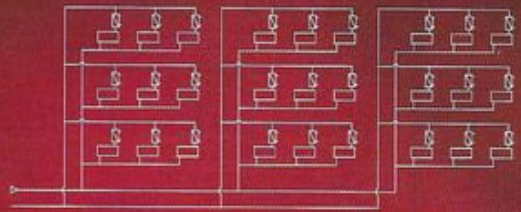
Static

40 VALVES



Automatic

27 VALVES



CRANE
ABV
D960 AUTOMATIC BALANCING VALVE

The D960 Automatic Balancing Valve from Crane represents a complete innovation in balancing. Only on each terminal is a D960 required; the need for riser and branch valves is eliminated. In one stroke, the number of valves in a system can be reduced by as much as 45%.

Crane Automatic Balancing Valves are simplifying system design in many ways. To find out how, or for an in-depth presentation on the impact of the new valves from a Crane Sales Engineer, please contact the National Sales Centre.



helping you improve performance

NATIONAL SALES CENTRE, NACTON ROAD, IPSWICH IP3 9QH
TEL: 01473 727273 FAX: 01473 727222

Vertical
take-off
for
natural
ventilation.

A fresh
approach
to
innovative
design.

Monodraught

Monodraught Ltd
Lancaster Court,
Cressex Business Park,
High Wycombe,
Bucks HP12 3TD
Tel: 01494 464858
Fax: 01494 532465

Innovation isn't just about design, but achieving effective solutions. Monodraught solutions have been at the forefront in system design and performance for over 30 years.

Today is no exception, with our Windcatcher natural ventilation systems developed from Monodraught's highly successful vertical balanced-flue chimney systems.

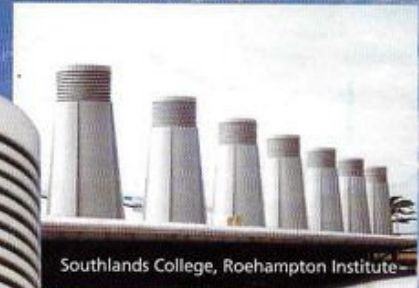
Monodraught's reputation for innovation in system design is founded upon our continual search for more effective solutions and cost efficient systems.

Even sunshine and natural daylight have been put to work in Monodraught's 'SunPipe' system - the latest innovation in low energy natural product from Monodraught.

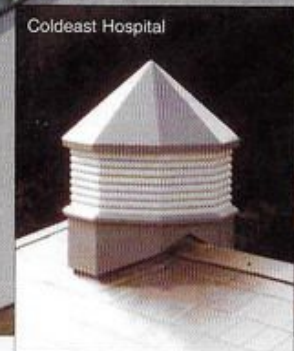
No wonder they're taking off.



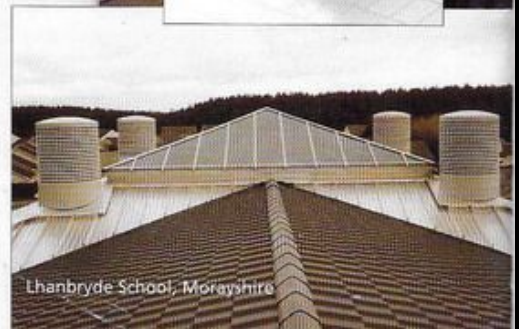
Sheffield Secure Unit



Southlands College, Roehampton Institute



Coldeast Hospital



Heathrow Airport,
Terminal 1

Lhanbryde School, Morayshire