

Water softeners to be unveiled

Environmental Water Systems (UK) will unveil its the EcoSave water softeners, and Endotherm Mini, at this year's Healthcare Estates event. Alongside reliable and economical operation, the new range of volume-controlled, counter-current EcoSave water softeners are said to be ideal for hospital boiler feed, and to offer 'significant cost savings and lower environmental impact'.

The new Endotherm Mini, providing purified water for endoscope disinfection with thermal sanitisation, is said to be especially well-suited to single/multiple automatic endoscope reprocessor feed. With a compact footprint of 550 x 600 mm, the units are programmable for thermal sanitisation outside working hours.

EWS will also show a selection of the filter cartridges supplied to healthcare end-users that complement the range of equipment it currently supplies to endoscopy, renal, sterile services, and estates departments, UK-wide.



Ahead of the curve on the energy

Specialist in the design of anti-ligature door and window fittings, **Primera**, says that, 'until now', access control has 'posed a serious challenge within the mental healthcare environment – largely because conventional access control products do not cater for the specific safety needs of the service user'.

The company's new electronic PAssport access control lockset, on which it will be giving show visitors details on its Healthcare Estates 2012 stand, is 'designed specifically for such applications'.



Wall cladding's anti-microbial silver

Advanced Hygienic Contracting will explain the benefits of 'the world's first proven antimicrobial PVC wall cladding to incorporate BioCote silver ion antimicrobial technology'.

In partnership with BioCote, it has introduced BioClad, a wall cladding system that, thanks to the technology, should reduce levels of bacteria such as MRSA, *E. coli*, *Legionella*, *Salmonella*, and mould, 'by up to 99.99%' throughout the wall panels' lifetime.

BioClad was recently installed extensively within buildings at the Royal United Hospital in Bath, including operating theatres; it needed to be quickly and easily fitted onto an existing decorative wall required to provide an anti-



microbial hygienic barrier. Each sheet was fully bonded to plastered walls, and held within a welded trim system. Corners were thermoformed on site to ensure a smooth, joint-free radius that 'provides easy cleaning, and prevents build-up of dirt'.

There is a nationwide installer network, and a number of international distribution partners, for BioClad.

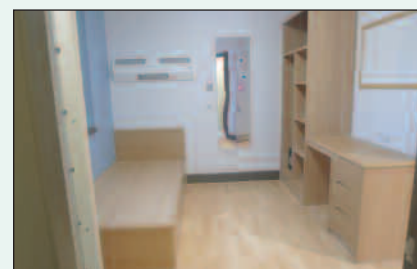
Furniture designed 'in-house'

Issues such as infection control, pressure management, and manual handling, are key considerations in the design of all the hospital and other healthcare furniture manufactured by **Taurus Contract Furniture**, with the same care and expertise applied to manufacture and fit-out, the company says.

Designed specifically for the healthcare environment by an experienced in-house design team, the furniture includes an extensive range of highly specialised fitted bedroom furniture for hospitals, secure units, and care homes, described as 'stylish, safe, practical, and practically indestructible'. The company said: "From runner-free

drawers to double-blocked, anti-ligature shelves, every eventuality and potential issue has been considered and catered for in the details of the design."

Taurus is also the approved supplier of bedroom and occasional furniture to Partnerships in Care.



Securing the benefits of locally generated energy

The 'economic, social, and environmental benefits of sustainable decentralised energy' will be showcased by **MITIE's Asset Management** division.

Healthcare estates managers will be able to 'learn more about developing or upgrading low carbon on-site energy infrastructure'. Via 'basic modelling', MITIE says it can identify the potential for 'innovative' cost and carbon savings for each site, and opportunities for distributing surplus energy to the local community.

The company said: "MITIE can provide upfront funding, so hospitals can divert their own capital resource back into patient care. Our holistic approach means we fund, develop, and operate, energy centres or new infrastructure."

MITIE recently developed the energy



centre at London's Royal Free Hospital, which is reportedly saving around £850,000 a year, and reducing the hospital's annual carbon footprint by 4,500 tonnes. Surplus heat will be used by Camden Council to provide heating and hot water to around 1,500 residents. The company is also the preferred bidder to develop an energy centre at Addenbrooke's Hospital, which should cut carbon emissions there 'by almost half'.

Emergency calls dealt with fast

Courtney-Thorne says that, while replacing an 'ageing' nurse call system with an HTM-compliant version can be 'daunting, financially and operationally', with its '08' wireless nurse call system, a typical ward can have its system replaced 'in days', often without needing to be closed.

Its 'flexible design' reportedly greatly reduces installation time, for a 'surprisingly cost-effective' solution, which, the firm claims, offers 'approximately three times better value than hard-wired systems'.



The touchscreen nurse display panels offer an 'instant on-screen call locating facility', with emergency calls afforded 'absolute priority'. The on-screen mapping system gives 'an instant visual' to the caller's location, ensuring a more efficient, effective response. The touchscreen unit can optionally be supplied with 10-year call history viewing, and the facility to create on-screen graphs. All call history information can be viewed instantly, printed, or exported.

'Changing the NHS for the better'

MITIE, the strategic outsourcing and energy services company, says it will be offering visitors to Healthcare Estates 2012 'expert advice and guidance on how sustainable practices are changing the NHS for the better, while reducing operating costs'.

The company said: "At the exhibition, we will demonstrate how the NHS is

improving productivity and efficiency by implementing programmes in best practice in healthcare waste; cost reduction and carbon savings; decentralised energy; risk management and compliance, and sustainable facilities management." The company's stand will be close to the BRE Refurbishment & Sustainability Showcases Area.

Strong, secure windows

ATB Systems will show its new 'enhanced security' Taurus Max Parallel Opening window, said to be 'ideal for hospitals, where both security and improved air circulation are essential'.

Part of the company's Secure Products portfolio, the window is claimed to be the market's first parallel opening aluminium commercial window, and is tested and certificated to Warrington Certification's WCL 2 standard, for 'the enhanced security of windows and doors'.

Also shown will be Hammerglass, a 'new generation' polycarbonate sheet, reportedly '300 times stronger than glass, and almost unbreakable'. Recognised by Secured by Design, it can be specified in any ATB window or door, but is

particularly suited to the Taurus Max, 'to provide a robust, but aesthetically pleasing window, ideal for vulnerable healthcare buildings'. With a 'unique' silicon oxide surface coating, Hammerglass sheets will resist 'most chemicals and acids,' and are scratch-resistant. The coating also provides a UV protection of 99.96%. GEM integral magnetic blind systems, installable within the Taurus Max windows with anti-bacterial coated glass, will also be exhibited. Internal fittings prevent the slats getting dirty or dusty.



Plenty to celebrate

Fendor (photo shows the company's new 50,000 ft² Spire House premises in Washington, to which it moved earlier this year) will be 'celebrating 30 years as one of the UK's most successful commercial glazing companies' by bringing an updated specialist range of healthcare systems to Healthcare Estates.

Offering 'the largest range' of specialist anti-ligature, secure, and standard windows, plus doors, curtain walling, screens, and rooflights, Fendor's range encompasses steel, aluminium, and steel/aluminium hybrid systems for high, medium, and low secure windows, including the CleanVent, SlideVent, SwingVent, and AlphaLine windows, which have been 'given a makeover' to further improve their thermal performance.

Fendor says its 'technical competence, first-class service, and secure financial footing' have seen its healthcare market share grow 'year-on-year', winning work in locations from the north of Scotland to the South of England, 'and all points in between'.

The exclusive window supplier to all four UK high secure mental health hospitals, Fendor will have, on hand in Manchester, technical experts offering practical advice on choosing the 'right' window frame, glazing, and design. The company also offers Home Office-approved systems for high risk areas susceptible to external attack, fire glazing, and door systems.



Photo courtesy of James Fortune

Something to get steamed up about

Spirax Sarco is inviting show visitors to explore ways to boost energy centre efficiency via an informal chat with its steam system experts.

It will be promoting 'easy-to-implement, relatively low cost', improvements that it says 'often bring huge savings in fuel bills, maintenance work, and carbon emissions – all with a rapid payback'.

The company said: "Most energy centres have good potential for

significant savings. For example, improving condensate recovery systems to maximise the return of condensate to the boiler feed tank is highly effective."

On display will be the new STS17.2 steam trapping station, comprising 'all the components needed for a steam trap installation, in one easy-to-fit package', and the EasiHeat 'package' – for energy-efficient heating and domestic hot water.



Details will also be available on 'Spirax Rental' – 'a new way to pay for energy-efficient systems with no upfront cost, to help operators undertake projects sooner, and immediately reap the benefits of eliminating wasted energy'.

A name to be proud of

Armitage Shanks says that, with today's healthcare market 'changing faster than ever before', it is 'paramount that healthcare professionals have equipment they can rely on'.

The company said: "Armitage Shanks is extremely proud of its heritage, trusted name, and reputation in the healthcare market. We recognise the importance of continuing to develop innovative products that support hospitals' requirements – in terms of compliance with guidelines, hygiene, safety, function, performance, water-saving features, and design.

"When choosing sanitaryware and fittings for hospital use, among the major considerations are the need to deliver water and remove waste efficiently,



to reduce cross-infection, and to cater for the physical limitations of patients. This demands a great deal from every sanitary installation. Armitage Shanks has a long history of working with the Department of Health to determine the functional requirements of hospital sanitaryware. We continue to design and refine products specifically for hospital use in line with the requirements of HTM 64 guidance."

Cradle innovation

Medical Gas Services says developing a medical gas cylinder bracket for use in healthcare that met five 'critical criteria' – a sufficiently robust construction to withstand trolley and bed strikes; an easily cleanable design (with no crevices or joints); an easy-to-fix structure; a product that is easily identifiable in clinical environments, and one interchangeable to accommodate different-sized cylinders, 'took many hours' work'.

The company's new medical gas cylinder 'cradle' is also said – due to a special manufacturing process that uses 'an innovative system of temperature control' – to address the issues sometimes experienced when anti-bacterial properties are incorporated into plastics, such as the formation of 'a brittle composite'.



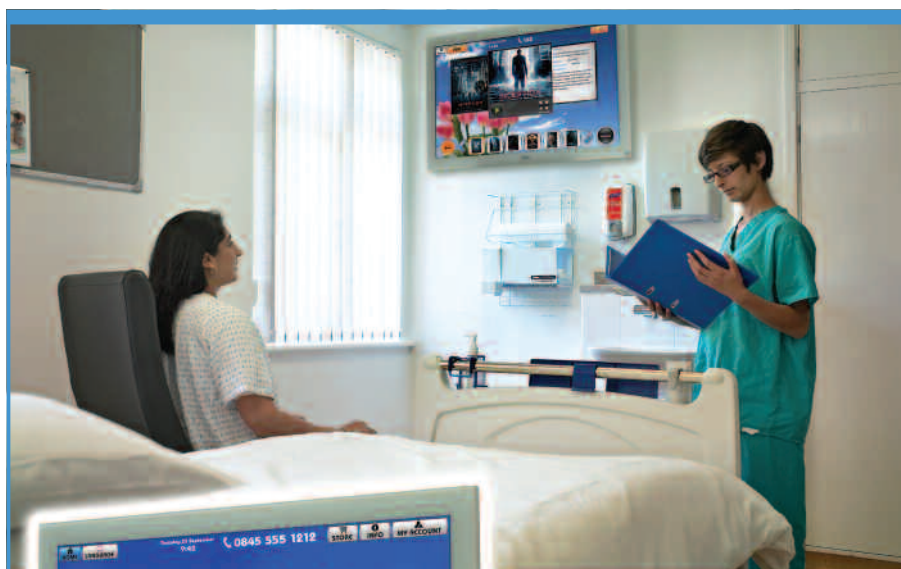
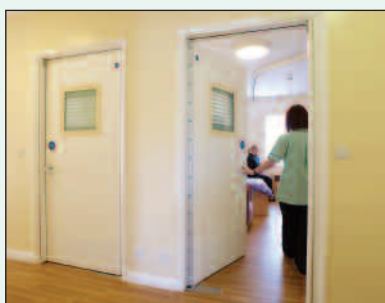
Two 'UK firsts' from Intastop

Supplier and 'innovator' of door and wall protection for healthcare establishments, **Intastop**, will be showing 'two firsts'.

"Visitors to our stand will get the chance to see first-hand how we have developed our hugely popular Double Swing Hinge product to encompass a variety of additional benefits," said Sarah Barsby, marketing director.

The patented hinge now works with a concealed anti-ligature floor mounted closer (see photo), giving end users an option of a 'ligature-free' self-closing device for bedrooms in mental health applications. There is also the option of the new Finger Protective Double Swing hinge, which allows greater than 90° opening in both directions, while retaining a clearance gap that avoids fingers being trapped.

Also shown will be a 'revolutionary', tamper-proof door top alarm, designed to prevent attempted suicide, that alerts staff, via the staff attack system, when a weight is applied to the top of the door.



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Choose a Smart Patient TV package to promote both patient well-being and improve hospital efficiency.

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Upgrade kit for medical air/vacuum systems

BeaconMedæ and Atlas Copco have combined their expertise to develop a 'state-of-the-art upgrade kit' for medical plant systems, comprising the ES central plant controller, and the Elektronikon Mk 5 local compressor/pump controller.

The ES controller 'ensures economic operation' of the air purifier, as well as control of the compressors (air) or pumps (vacuum), and can be connected to a hospital's LAN computer network, enabling live plant status monitoring from any PC.

The ES software, and an additional PDP sensor, are said to enable energy savings of up to 90% on purge air losses, with a typical payback of around two years ('depending on application, compressor/dryer size, and load capacity').

Users can also add an additional VSD compressor to their system 'for increased capacity, and additional energy-saving benefits'.



A 'complete' cleaning package

Numatic International, offering a comprehensive range of cleaning and janitorial systems specifically tailored to healthcare use, can provide 'the complete package', including wet or dry vacuums, floor care products/systems, and janitorial trolleys.

Among equipment on show will be the new Numatic PPH-320 vacuum



model – a 'small, convenient H14 HEPA unit with the many advantages of the new PPR vacuum models' – low noise, AutoSave energy savings, and a plugged rewind feature for convenient cable storage and simple cable replacement if required.

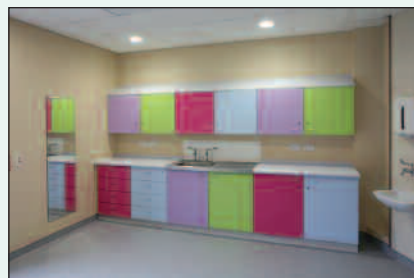
Numatic will also exhibit the 'highly compact professional cleaning system', NuClean, with its range of four 'lock-on' detachable modules. The system's 'easily detachable, and, conversely, attachable', professional, independent mopping units can be used in either mode, but with 'added manoeuvrability and usability' in detached operation, especially in congested areas.

Supplying ground-breaking NI facility

Furniture, fixtures, and fittings, for the recently completed £276 m South West Acute Hospital in Enniskillen, Northern Ireland's first NHS hospital with 100% single patient bedrooms, were manufactured and installed by Deanestor.

Recently opened by The Queen and the Duke of Edinburgh as part of the sovereign's Jubilee tour, the hospital is considered one of Europe's most modern.

Deanestor has supplied the construction industry for over 60 years, and says it uses the experience gained to deliver 'innovative healthcare furniture



solutions with high quality modern finishes that are durable and easy to clean'.

The company said: "Healthcare furniture provides solutions to very specific requirements. Every project is unique, from design and manufacture, to installation on site. Our customers include NHS Trusts, main contractors, architects, and local authorities, who require bespoke furniture for refurbishment and new build projects."

New BAFE scheme for fire protection

A new scheme, SP 205, for companies 'large and small' that provide life safety fire risk assessment (SP205), has been launched by BAFE, the independent registration body for companies that have achieved third party quality certification of their fire protection services.

BAFE says the scheme has been developed by 'a group of industry experts' to help each building's 'Responsible Person' meet the requirements for fire risk assessments under the Regulatory Reform (Fire Safety) Order 2005. SP205 stipulates that assessing companies must possess both the required technical and quality management capabilities, while risk assessment personnel must 'meet appropriate standards'. Delivered by UKAS-accredited certification bodies, SP205 is designed to give assurance to those commissioning fire risk assessments.

BAFE points out that, under UK law, Duty Holders, or Responsible Persons for a building, must make a fire risk assessment 'to clarify the fire precautions necessary to ensure the safety of staff, service users, and property'.

It adds: "Users and specifiers have the reassurance that nearly 900 BAFE-registered fire alarm, portable extinguisher, and emergency lighting suppliers, meet UK standards, and are regularly audited."



'Decision-makers' targeted

First-time exhibitor, Assa Abloy, will showcase a 'host of door opening solutions' at this year's Healthcare Estates, demonstrating how its products can 'address issues such as infection control, accessibility, and security'.

Products displayed will include Union's 'Easy + Clean facility (door) furniture' with new TouchClean technology, the Codehandle access control handle, the Optimus3 mortice range, Assa's CLIQ remote and Smartair keyless access systems, the Trimec electric strike range, and the company's door closer range.

Tina Hughan, head of marketing, Assa Abloy UK, said: "Having supplied a wide range of healthcare sites, Assa Abloy Security Solutions can provide answers to some of the most pressing questions within healthcare specification.

"Healthcare Estates is the ideal place to showcase our hygienic, convenient, and cost-effective solutions, while developing our relationships with the key decision-makers."

No energy wasted

Already providing energy services to 5,570 hospitals across 40 countries, **Dalkia** claims to be 'the market-leader for energy efficiency projects that provide savings on operational costs and reductions in CO₂'.

The company said: "With the increasing pressure to achieve carbon reductions, Dalkia's extensive resources enable Trusts to focus resources on patient care and benefit from new energy plant and technology to enhance their environmental performance. By integrating the most appropriate heating, electricity, and standby generating systems, we can provide solutions that best match a hospital's requirements utilising the latest developments, including modern CHP systems, and renewable technologies."



Bender and Steris in partnership

Earlier this year specialist manufacturer of isolated power supply (IPS) systems and theatre control panels, **Bender UK**, became sole UK distributor for **Steris** surgical products, and the newly formed partnership is 'already proving a success'.

Steris is a major supplier of healthcare and operating theatre infrastructure equipment worldwide. Since the partnership's establishment



in January, Bender has handled the sales, service, and repair, of surgical lighting, tables, pendants, and theatre integration systems in the UK. The company has already secured contracts for six turnkey theatre

packages, and incorporated the service and repair of Steris products into the functions of its established service department.

'Softening the look' of clinical areas

Loxos, which supplies a wide range of nappy changing, child bathing, and clinical assessment stations, for environments such as maternity and neo-natal units and paediatric wards, says that not only can the units be tailored to each customer's needs, but they can also be incorporate 'striking and inventive designs', and be produced in a broad range of colours, to 'soften the look' of a

clinical area, and 'fit' with ward designs.

Made from single piece moulded acrylic, the station surfaces have no 'bacteria traps', and are designed for ease of cleaning. All models incorporate integrated user hand wash facilities, and, with water safety paramount, are fitted with TMV3-approved safety valves. Formed from 'high grade MFPB', the cabinets provide 'ample storage'.



How can we help?



- Largest range of specialist healthcare windows in the UK - including high, medium and low secure and ligature free
- Commercial glazing including windows, doors, automated doors, curtain walling, atria in standard, fire, acoustic and security
- Tested to commercial security standards up to SR4. Also blast proof and Home Office approved systems
- Thirty years of technical competence working on some of the UK's most prestigious projects
- Bespoke options include multi function electric blinds, remote operation controls, glazing rebate to 56 mm
- Weather testing to CWCT TN 51 and BS6375
- National coverage
- U-Values to 2.2w/m²K or lower
- ISO 9001
- Turn Key Service



Typical Healthcare Projects:

Shelton Hospital, Bedford House - Broadmoor, Royal Bolton Hospital, Cygnet Hospital, Beckton, MMK Units, Wathwood Hospital, Dane Garth Hospital, Ashen Hill, Prestwich Hospital, Chaucer Building, The State Hospital, Carstairs, Rampton Hospital, - Learning Disabilities Unit, The Orchard, Soss Moss Hospital, St Nicholas' Hospital, Monkton Hall Hospital, Centurion Building, Arnold Lodge MSU, Guild Lodge, The Brooker Centre, Sephton Ward, Chesterton Unit, Highbury Hospital, Cefn Coed Hospital, Cygnet Hospital, Wyke, Moseley Hall MSU, Milton Park, Skelbrook Ward, Woodland View, Springfield Hospital, Hellesdon Hospital, Edenfield Secure Unit, Parklands Hospital, Queens Park Hospital, Derwent Centre, Harlow, Calderstone Hospital, Mill View Hospital, RACC, Bowmere Hospital, West Cumberland Hospital, Newby Place Health Centre, Victoria Hospital Kirkcaldy, Northgate Hospital, Morpeth, Hayworth Ward Lewisham, Centurion House, Llandugh Hospital, MMK Ward, Nutmeg House, Hopwood Hall, Garden Unit Prestwich, Skelbrooke Ward, Amber Lodge @St Catherines House, St Barts London, Boldon Lance Clinic, West Cumberland Hospital, Poston House, Parkview Clinic, Royal Victoria, Belfast, Glasgow Royal Infirmary, Great Ormond Street, Penn Hospital, Landsdowne Unit, McGuinness Unit, Southmead Hospital, Royal Marsden Hospital, St Raphael and St Gabriel, St James Hospital, Moseley Hospital.....

Wireless's 'greater flexibility'

Aid Call says wireless nurse call is 'safe, reliable and proven', with over 3,000 systems installed nationwide, and claims such systems offer 'fast and easy installation, at a fraction of the cost of a wired system'.

The company said: "Wireless technology offers greater flexibility, and significantly reduces installation costs. Because the system is radio-based, it is infinitely changeable and expandable."



The Aid Call Touchsafe system reportedly incorporates 'the most advanced two-way radio technologies', featuring automatic acceptance, and 'Listen Before Talk' anti-collision, as well as 'meeting the highest Class 1 European safety-critical accreditation'. All touchable elements are embedded with anti-microbial additives 'to ensure extra patient safety'.

'World-first' technologies

'Leading innovator' in medical device design and manufacture, **TRUMPF**, says it will show its 'world-first technologies', on display in a 'bespoke modular operating theatre' (pictured), built off-site 'in a matter of days'.

The company said: "Our ability to work with local partners allows us to offer an entire suite of products, managed and delivered through and by us, ensuring that projects are delivered on time, and within budget. Visitors to our stand will see the latest advances in LED lighting technology, laser-focused lighting systems, and unique modular pendants that provide end-users with simple customisation."



Hot water, on tap, fast and easily

Heatrae Sadia will be providing information on its new, UK-manufactured Supreme Counter Top 'instant boiling water unit' – designed specifically for premises with limited wall space.

"Supreme has become increasingly popular as an alternative to kettles, urns, and drink machines, particularly for use in busy workplaces such as hospitals, call centres, offices, and factories," the company explained. "Permanently connected to the electricity and cold water supply,



Supreme saves vast amounts of time, providing immediate and constant boiling water for tea, coffee, other hot drinks, and snacks."

The new addition is 'ideal for applications where wall space is at a premium', or where a counter top product is preferred. Features include a 'stylish', cool-to-touch stainless steel outer casing, a 'temperature ready' LED indicator, and the ability to supply up to 56 cups of boiling water at any one time.

Ensuring the correct specification for windows, doors and curtain walling is essential to the well being and safety of both patients and staff as well as the efficient thermal performance of a building. Fendor's technical competence in this area means we are the only fenestration manufacturer to supply windows to all of the UK's high security hospitals as well as countless medium, low and general facilities. Fendor's in house technical team can ensure the optimum specification for your new or refurbishment project.

For expert advice – ask Fendor

SwingVent® is the window of choice of the UK's four high secure mental health hospitals.

- Patient controlled natural ventilation
- Ligature free
- Anti Ligature hardware with adjustable gearing
- Glazing option upto SR4 rated to withstand power tool prolonged attack
- Maximised light transmission
- Thermally broken steel narrow profiles
- Anti escape and anti pass mesh
- Electric blind option



High Secure SwingVent®

SlideVent™ horizontal sliding windows are designed and tested for high and medium secure hospitals.

- Patient controlled natural ventilation
- Ligature free
- Anti vandal Slipper Clutch® hardware
- Glazing option upto SR3 rated to withstand prolonged attack
- Maximised light transmission
- Steel, aluminium or steel/aluminium
- Anti escape and anti pass mesh



Symmetrical SlideVent®



Patent pending CleanVent® is Fendor's unique solution to the difficulties of cleaning horizontal secure sliding windows.

- Unique easy clean integral opening vent
- Inward or outward opening vent option
- Anti vandal Slipper Clutch® hardware
- Enhanced medium and medium secure approved
- Maximised light transmission
- Patient controlled ventilation
- Steel, aluminium or steel/aluminium
- Anti escape and anti pass mesh



Externally opening CleanVent®

AlphaLine® is Fendor's basic window range.

- Patient controlled natural ventilation
- Anti ligature hardware
- Locking and restricted opening options
- Typically 10 mm toughened glass
- Manual blind option
- Maximised light transmission
- Aluminium- glued and crimped joints
- Anti pass mesh option



AlphaLine® shown with blinds



'Instant protection' against waterborne contaminants

A diverse range of filtration membranes for 'critical contamination control' in healthcare, specifically engineered for the filtration of hospital water, respiration, parenteral therapy, general surgical applications, and blood component therapy, is offered by **Pall Medical**.

The company explained: "We are sensitive to the intense pressures for cost-containment, and to the increased focus on preventative care. Our emphasis is thus not only on improving patient outcomes, but also on reducing the overall cost of providing that care."

The Pall-Aquasafe water filter range includes variants to protect against *Legionella* spp. or other waterborne

microorganisms in water used for drinking or showering. Waterborne organisms such as *Legionella* spp, *Pseudomonas* spp, *Aspergillus* spp, *Cryptosporidium* spp, and *Mycobacterium* spp, may, Pall points out, 'be of particular concern to immuno-compromised patients'.

Pall-Aquasafe water filters provide an instantaneous, validated, clinical barrier to the passage of a variety of waterborne contaminants', and can be quickly connected to taps or showers for 'instant protection'.



Ensuring a 'safer exit path'

The centrepiece of a range of 'premium performance' fire detection and emergency lighting systems shown by **Hochiki Europe** will be live working demonstrations of the company's latest

'breakthrough' – FIREscape+ – which integrates addressable fire detection and emergency lighting technology 'to provide an intelligent wayfinding solution'.

Hochiki says that while, in the event of fire, a 'traditional' emergency lighting system does not facilitate signs to be 'shut off', allowing people to walk 'directly into the path of danger',



FIREscape+ responds to information sent from fire detectors to put an illuminated red 'X' on appropriate emergency signs, signalling to individuals not to exit via that particular route.

The company will also show the HFP range of analogue addressable and conventional products, including panels, sensors, bases, call points, and peripherals, and its own FIREwave wireless fire detection system – designed for installations requiring minimum disturbance to the building fabric.

Show some imagination!

"It is amazing what a little imaginative thinking can do to change the aesthetics of an often hostile and institutionalised environment into a warmer, more welcoming, atmosphere," says **Vistamatic**, a specialist vision panel supplier to both the acute and mental health sectors.

The company said: "The vision panels used to discreetly observe and monitor patients are often characterised by a standard format linear design, but this need not always be the case. Vistamatic has, for some time, offered a choice of unique abstract designs that offer the same, and occasionally a better, viewing aspect."

"Our Wave design demonstrates clearly how a flowing, undulating pattern can enhance such a product's appeal,

giving it a 'softer' look, while having no impact on observational ability.

"Similarly, with its 'unique sunburst pattern', our Abstract Square gives an imaginative, interesting perspective to the monitoring and observation of care users. The addition of colour, including the ability to integrate the panel into a wider colour scheme, can add further visual interest, for example creating a more soothing overall feel."

Vistamatic products are available in a variety of glass specifications, colour coordinates, and fire ratings, are specifiable in many sizes, and all come with a lifetime warranty.



Calling all stations

Alarm Radio Monitoring (ARM)

says that, while, 'traditionally', any failure of a hard-wired nurse call system has meant 'lengthy delays and expensive closures of wards while replacement cables are run', with its new HTM 08-03 compliant wireless units, a new/replacement system can be easily installed 'with the minimum of disruption and cost'.

Call points designed to meet Department of Health standards, and for applications ranging from cardiac care units to general wards, incorporate anti-microbial additives, while the patient handset is sealed to IP67 for easy cleaning between patients. The handset has both a 'Call Reassurance' LED, and a light-sensitive backlight, which automatically illuminates in low light, ensuring that patients can locate it in the dark. Another version comes with an integral light switch, with the option for the call point to be powered from the mains.



Function and form balanced

Tough Furniture, a 'specialised manufacturer of furniture for use where challenging behaviours are encountered', says its products 'successfully achieve the difficult balance between function and form'.

The company said: "All our designs have a modern, homely, look, and can be used in any room, but embody 'designed in' strength and build quality to ensure many years' trouble-free service."

New for 2012 are 'innovative additions' to the company's ligature-resistant range of furniture, including shelving and mirrors. Tough Furniture explained: "The shelf unit features bold curves and symmetry, to enhance any décor, and maximise integral strength, while helping to minimise ligature risk. The mirror is manufactured using 3 mm mirrored polycarbonate inset into 18 mm Melamine-faced MDF, with a 'half bull-nosed' polished edge – not only providing a stylish mirror, but once again contributing to the safety of the environment."



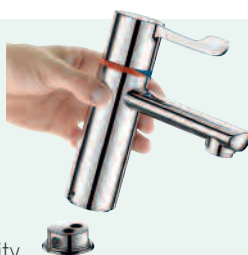
Minimising scalding risks

New for 2012, **Douglas Delabie's** single-lever Bioclip thermostatic mixer has been specifically designed 'to meet two very important needs – hygiene and safety'.

The company explained: "Mixers are in constant contact with microbes. Contamination by bacteria such as *Pseudomonas aeruginosa* occurs inside the spout, and around the outlet, where water and oxygen are readily available. Bioclip mixers can easily be removed for cleaning to combat contamination.

"Managing the risk of *Legionella* colonies developing requires hot water production and distribution at high temperatures," the company added. "However, the associated scalding risk

increases considerably, especially where patients have reduced sensitivity, or slower reflexes. Our single-lever mixer opens and closes with cold water drawn from the system, with no hot water introduced initially. Fitted with a thermostatic cartridge, the mixer ensures stable temperatures regardless of pressure or flow rate variations. A maximum temperature limiter prevents any risk of scalding, while the thermostatic mixer's design sees hot water shut off instantly if the cold water fails."



Emergency lighting par excellence

P4, which claims to be 'the UK's leading company dedicated solely to producing self-testing emergency lighting and exit signs', will showcase its new radio addressable system, its M-web + Ethernet interface and web server units, and its 'stylish' LED sign luminaires, and unveil its new 'cost-effective maintenance contract service specifically for estates managers'.

The company said: "P4's Lumasign LED emergency signs, Quatrum LED luminaires, and the innovative Stairlight emergency escape lighting



system, combine superior performance and aesthetic appeal. They join P4's established FASTEL, fully automatic self-testing emergency lighting products, to provide healthcare premises with cost-saving remote monitoring, and more effective maintenance management."

Visitors can also see P4's M-web + 'state-of-the-art' self-testing emergency lighting monitoring systems, while experts

will be on hand to discuss recent changes in emergency lighting standards, and explain 'where to maximise energy and cost savings'.

'Light-hearted challenge' set

A 'light-hearted challenge' for visitors to this year's show has been set by **Static Systems Group (SSG)**; one of its major stand themes will be: 'We bet you cannot find a box that Fusion-IP doesn't tick'.

SSG's Fusion-IP nurse call system, launched last year, now boasts almost '30 apps', which will be demonstrated. SSG sales and marketing director, Phil Wade, said: "I was discussing with colleagues how flexible and far-reaching our applications for Fusion-IP had become, and the idea of tick-boxes cropped up. Our development of Fusion-IP has been driven by our customers' many needs, and we were determined to think of everything. We are confident that our range of 'apps' does indeed 'tick all the boxes'."

The company will also unveil 'new concepts' in modular bedhead services trunking, plus 'the latest advances' in its fire alarm systems.



Helping achieve success by managing risk

Turner & Townsend is 'a global professional services organisation that provides consultancy, delivery, operations, and programme management services, to organisations that invest in, own, and operate assets'.

Working from 74 offices in 32 countries, the company works on projects across the property, infrastructure, and natural resources sectors worldwide, 'helping organisations succeed by managing risk, while maximising value and performance during the construction and operation of their assets'.

Turner & Townsend works with 'an internationally diverse range' of public and private healthcare providers, 'facilitating strategies at the forefront of healthcare delivery that set new world standards in quality and innovation of healthcare services'.

All the key issues covered

Health Estate Journal – the monthly magazine of the Institute of Healthcare Engineering and Estate Management (IHEEM) – aims to provide unrivalled coverage of the most important issues facing engineering, estates, and FM personnel.

From reducing carbon footprint to providing a clean, safe, and comfortable care environment, and from evidence-based design to the latest thinking on infection control, *HEJ* is an unrivalled source of topical information. Over the past year other subjects covered have ranged from hospital architecture, new approaches to mental healthcare facility design, and key acoustic considerations when designing new hospitals, to how to keep hospital water systems safe. Copies will be available on the IHEEM stand, where



visitors can meet the Journal team to discuss editorial or advertising opportunities. Each edition of *HEJ* is also now available to view online.

Also published by Step Communications, and sent to all IHEEM members, is the

International Federation of Hospital Engineering's (IFHE) Annual Digest, an authoritative publication showcasing the best global thinking on all aspects of running a more efficient, patient-centric healthcare estate. The Digest contains articles from estates and facilities management associations worldwide, as well as from academics, engineers, and authoritative commentators on this dynamic, exciting field.

Taps harness copper's anti-bacterial properties

A selection of what **Pegler Yorkshire** dubs 'revolutionary' antimicrobial copper hospital taps will be shown on the company's stand.

Tap product market manager, Mike Dickinson, explained: "The inherent and continuous ability of copper to kill bacteria is the driving force behind the development of our antimicrobial copper taps. We believe we are the UK's first company to launch a product of this type. The results of research conducted by specialists worldwide have shown that copper's antimicrobial benefits far outweigh those of any other available material."

The Performa range of healthcare taps, mixers, showers, thermostatic mixing valves, and associated products

(photo shows Performa antimicrobial copper tall basin taps), will also be exhibited. Claimed benefits and features include: 'protection against bacterial infection' (the range includes 'non-touch' taps to help prevent healthcare-acquired infections); TMV3-approved thermostatic mixing valves, offering 'increased protection against sudden sharp increases in hot water temperature'; self-closing flow controls, and 'easy operation'. Pegler added: "Innovations such as electronic, and knee or elbow-operated lever flow controls, and lever-action basin taps, are essential for people with restricted hand movement."



Maximising the benefits of a BEMS

Visitors to the **Trend Control** stand will 'discover how 84% of their healthcare estate's energy consumption could be controlled by using a building energy management system (BEMS)'.

With many buildings already incorporating a BEMS, Trend's experts will 'explain how saving energy and money could be within easy reach'. 'Innovations and highlights' will include a working demonstration of Trend Energy Manager – a 'powerful, easy-to-use, energy monitoring package' installable on a healthcare estate's own server. Using meter readings and other variables logged by the BEMS, it provides 'automatic reporting, and rapid diagnosis' of energy overuse.

In the *Health Estate Journal* Product Showcase area, Trend will host a case study-based presentation titled

Developments in the Control of Naturally Ventilated Healthcare Buildings, addressing 'the latest intelligent window control package that can be integrated within a BEMS to maximise natural ventilation's benefits'.



Instant hot water for drinks and snacks

Zip Heaters (UK), which claims to be 'the world leader' in instant boiling water, will show its 'energy-saving' boiling, chilled, and instantaneous hot water, products.

Having supplied the healthcare sector with energy-efficient systems for making hot and cold drinks for a number of years, the company has continued to develop the products 'to provide greater efficiencies, better functionality, more attractive design, and a wider range'.

Alongside its boiling and chilled systems, Zip will showcase the ES range of instantaneous electric water heaters for

handwashing. These use bare wire technology, without the need for blending valves or a storage tank, as the water is heated instantaneously on demand. Stand visitors will also be able to try 'the very latest in boiling water technology' in the form of the newest Hydroboil Plus and HydroTap ranges.



'Ahead of the curve' on the energy

Energy efficiency specialist, **powerPerfector**, says that, with a carbon footprint equivalent to 21 million tonnes of CO₂, and a large, 'ageing' estate, 'few sectors face an environmental challenge as great as healthcare'.

However, 'nearly 100 healthcare sites are ahead of the curve' thanks to use of the company's VPO technology.

powerPerfector offers a specialist voltage optimisation technology featuring 'uniquely embedded power conditioning benefits', which reportedly increases cost and carbon savings 'over simple transformers'.

Alexander Beckett, healthcare specialist, said: "Critical hospital sites use VPO to deliver energy savings and protect expensive, critical equipment from worsening power supply quality. Our solution, specifically for the healthcare sector, will determine

whether voltage optimisation is right for your site. Sites are individually assessed to ensure the loads are suitable. Savings come with a guaranteed ROI, and are independently verified using the IPMPV international standard. VPO has a 19-year, 100% reliability record."



Looking after environments

Honeywell Building Solutions (HBS) 'installs, maintains, and optimises, the systems that keep facilities safe, secure, comfortable, productive, and energy-efficient'.

With over 6,000 UK customer sites, the company says it has 'demonstrated the ability to deliver expert solutions and building management services in sites as diverse as hospitals, offices, and airports', adding: "Our specialist teams are able to deliver single technology systems or integrated systems that work together providing a single solution."

It added: "From an intelligent and innovative approach to project design and delivery, to technically advanced service capabilities, our aim is to reduce our customers' financial and operational risk at all stages. We are able to apply many years of experience in mission-critical environments, ensuring that our customers' facilities are designed, delivered, and managed, to present a higher return on investment."

'Significantly improving' water quality

Designer and manufacturer of specialist thermostatic mixing taps, showers, and thermostatic mixing valves for healthcare applications, **Horne Engineering**, will demonstrate its new 'Water Quality Compliance Kit', which, when used in conjunction with its Optitherm thermostatic tap, can reportedly 'significantly improve water quality issues'.

The kit includes a Flushing Kit, for periodically flushing the water supply to remove debris and excess biofilm to drain. The kit is also 'useful for water sample collection for analytical purposes'.

Completing the kit, a Thermal Disinfection Adaptor is used for sanitising the internal surfaces of the Optitherm thermostatic tap using the '60°C or above' hot water supply (thermal image shows the tap surface at



60°C during the disinfection process). In a recent hospital test, Horne says the compliance kit achieved a colony-forming unit (cfu) count reduction 'from 300+ to zero'.

A number of design improvements to Horne's range of surface-mounted shower panels, said to further enhance their suitability for secure and assisted settings, will also be shown.

Creating a quieter construction environment

For refurbishment work in noise-sensitive environments where minimal disruption is required, **Marcryst International** says there is 'no better alternative' to its Marcryst BF850 SilentMAX diamond blade.

The diamond construction tool manufacturer says it 'takes the issue of the occupational noise-induced hearing loss very seriously', and has invested 'a considerable amount of time and money' to develop the diamond blade to combat the problem. It explained: "Under current UK law, the maximum permissible noise on a construction site is 87 dB (A), and conventional 230 mm diamond blades

emit noise between 105 and 107 dB (A) during cutting. The BF850 SilentMAX generates up to 16 times less noise in all diameters."

Marcryst added: "Contractors are legally responsible for ensuring that any noise is controlled. If there is no available technical solution, and no other method of reducing the noise, they must ensure there is a noise exclusion zone. At 107 dB the required zone would be larger in surface area than the Wembley football pitch."



Disruption minimised during refurb

D+b facades UK is a design and build overcladding company that specialises in overcladding occupied high-rise buildings, 'delivering quality projects', on time, within budget, and with minimal disruption to building occupants and users'.

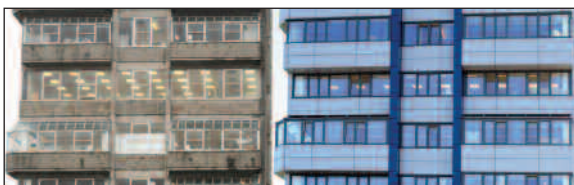
The company says it recognises that 'the single most onerous constraint' on a hospital site being refurbished or redeveloped is 'minimisation of disruption to patient services'. It said: "We take single-point responsibility for

the entire project – from survey and design, through to repair and installation. We provide new-build-equivalent warranties for the complete works, including the new envelope, the existing structure's ability to withstand the newly imposed loads, and the long-term integrity of the existing, underlying structure.

"We can unequivocally demonstrate both proven performance of our proprietary system over 20 years, and proven energy and operational

carbon savings quantified to be around 70% per annum."

A video, viewable at www.dbfacades.com/d+b_residential.html provides more information.



Do 'play games'

A range of 'commercial grade' play equipment designed to keep children occupied and content while visiting healthcare establishments, thus helping to create a stress-free environment for the children, parents, carers, and any other waiting parties, will be shown by **SL Kids**.

'Thoroughly safety tested, with a proven track record', the range includes a diverse selection of robust floor and wall-mounting manual play products, along with console-based gaming systems, and the interactive PlayTouch System, plus furniture constructed from 'hygienic' Corian.

For older children, SL Kids will unveil the Captivator-360, 'an innovative, discreet' casing solution that cleverly houses an Xbox 360 games console, and Kinect sensor, securely, 'behind any standard flat panel screen'. The patent-pending solution provides an easily installable, 'captivating and vandal-proof, controller-less', gaming console.



Pick Everard's 'half-century'

According to architect, David Nisbet (pictured), a partner at multi-disciplinary design practice, **Pick Everard**, 'the most successful estates projects require a combination of design excellence and efficient cost management'.

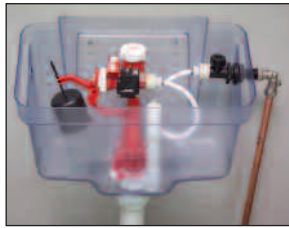


In the past three years, the company, which says it offers 'flexible construction procurement' through the NHS Shared Business Services framework, has successfully delivered over 50 health projects for NHS Trusts in acute, mental health, and primary care settings.

David Nisbet said: "Being on the NHS Shared Business Services framework and other national consultancy frameworks, including SCAPE, and the Government Procurement Service, allows us to offer Trusts on the P21 framework, and other healthcare clients, flexibility and a choice of procurement routes. With our procurement experience, we offer consistency of approach, and a fast response."

Cutting washroom water waste

Visitors to **Cistermiser's** stand can discover both 'a whole range' of existing water-saving systems and infrared controls, and 'new product introductions' from 'a market leader' in washroom control and hygiene.



0.5 litre minimum water level required, 'water use is managed, and therefore costs and environmental impact minimised'.

Easyflush valves (pictured) operate similarly – requiring the user to pass a hand over the sensor to trigger a flush. Full and part flush functions are integrated.

Utilising infrared technology, healthcare facility washrooms can benefit from Cistermiser's complete automation when it comes to a 'hands-free' approach. Using WRAS-approved technology, Cistermiser's infrared controls provide 'touch-free' flushing and filling of WCs, and direct flushing of urinals, with no need for surface contact from the washroom user. The direct flush valve ensures urinals are flushed automatically after every use. With operation at the

Cistermiser also offers infrared taps, such as the touch-free Novatap, Novaspout, and Vectaspout, 'to minimise the risk of bacterial transfer within the washroom, and help support the requirements of BREEAM HEA 12'. When a user's hand is passed over the sensor, a valve opens, and water is delivered to the washbowl. A two-second delay in shutting the valve once hands are removed reduces run-on.

£85 m in cost savings delivered

Claiming to be the UK's 'leading delivery partner for real estate and infrastructure solutions across the health sector', **Capita Symonds** offers a portfolio of services claimed to be 'unmatched' that "fuses health, estates, property, and strategic real estate expertise, with 'cutting edge design', management, planning, and engineering services".

The company added: "We have saved our clients over £85 m in property, estates, and operations costs, via innovative business models including estates and facilities operational reviews; baseline assessments and peer reviews; estates efficiency projects; rationalisation of clinical and non-clinical space, and lease and licence reviews. We have even developed a whole new series of products and services from lessons learned from other sectors, such as airport design and operation. We work closely with our parent company – Capita – which works with over 70% of NHS organisations, and has clients in every health economy in the UK and Ireland."

Medical gas specialist's comprehensive service

A fully independent company, established in 1975, **MEC Medical** supplies piped medical gas equipment and anaesthetic gas scavenging systems complying to all current British and European standards.

The company also provides 'a comprehensive supply service' in the UK and throughout the world. All its products are designed, manufactured, assembled, tested, and inspected, at its premises in Houghton Regis, Bedfordshire, by the company's own personnel.



MEC Medical says it can provide a comprehensive range of medical gas and AGSS test equipment for regular checking of pipeline equipment. A full in-house annual recalibration service is also available. (photo shows medical gas test kits).

PVC-free internal wall protection

Specialist in 'sustainable' wall and door protection, **Construction Specialties (C/S)**, will launch its first PVC-free interior wall protection product range, Acrovyn 4000, describing the new system as 'the most significant product development in Acrovyn's 41-year history'.

Re-formulated to be both PVC and PBT-free, Acrovyn 4000 offers the same 'high impact strength' as original Acrovyn, but is now 'completely recyclable' and, the company says, can also contribute to a LEED or BREEAM certified building.

Wendy Duckham, Construction Specialties' managing director, said: "This product is a major step towards removing dangerous chemicals, such as PVC and BPAs, from the environment."

The company will also show its 'chemically resistant' hygienic coating system, Wallglaze, and its 'highly durable and protective' entrance matting product, Pedisystems.



Secure cycle parking solutions

With many NHS Trusts recognising that improved cycle parking is critical, **Cycle-Works** claims to be 'at the forefront' in the field.

The company said: "In some situations, bicycle theft and crime are the biggest problems, and here our in-house designed Velo-Safe locker is proving very popular. For example, Portsmouth's Queen Alexandra Hospital has steadily added more, and now has over 50, while The Royal London in Whitechapel has 35 of the lockers, and they are proving so popular that the Trust has recently ordered more. The Velo-Safe is equally ideal for electric and 'pool' systems."

Where 'capacity is the issue',



Cycle-Works offers the 'adaptable' Josta 2-Tier rack, of which Hampstead's Royal Free Hospital has used 'over 50'.

Cycle-Works UK manufactures most of its products, but is also the exclusive UK distributor for Germany's Josta. It can also offer shelters, compounds, related storage, and a wide range of bicycle racks.

Innovation on tap

Dart Valley Systems will showcase an extensive collection of healthcare-focused products, including *en suite* sanitaryware, taps, showers, and accessories.

New product developments exhibited will include the AquariTherm tap, combining infection control features, 'simple isolation for servicing', and a stylish aesthetic. A patent pending isolation feature allows removal from the wall without taking off panels, and exchange with a spare. This ensures that tap 'stations' are always functional, and reduces servicing times. The 'easy to access' in-line filter, and thermostatic mixing valve, can be serviced 'quickly and easily' away from the ward.

Also shown will be the Hand Held Tap Programmer, capable of adjusting the run, range, and purge time, on all DVS automatic taps. The device can be used to set taps to self-purge on a regular basis, 'keeping pipes free from *Legionella* and other bacteria'.



Getting the best from your engine

IPU Group designs and manufactures high quality engine starting, engine control, fuel, and oil conditioning products, for critical diesel and gas engine applications.

The company said: "By applying our knowledge and expertise we help users to be certain of their equipment's productivity, performance, and safety."

In Manchester, IPU, which has been established for 50 years, will show its extensive range of fuel conditioning



products, which it describes as 'vital to ensuring the life of back-up systems and generators'.

The company added: "Fuel management is fundamental to ensuring the life of your critical back-up systems, but we have found that all too often it can be overlooked. To maintain fuel quality and ensure reliability, many engine and fuel companies now advise that a

comprehensive fuel management programme is implemented wherever fuel is stored for use in critical applications."

'Round-the-clock' protection

Biomaster Antimicrobial Technology says that medical products, touch surfaces, and facilities, incorporating Biomaster additives are afforded 'round-the-clock protection' against bacterial build-up from 'harmful species' such as MRSA, *E. coli*, and *Legionella*.

The company explained: "Added during the manufacturing stage, Biomaster becomes an integral part of the end

product, giving safe, effective, and permanent antimicrobial protection throughout the additive's active life."

Biomaster protection is based on 'proven silver ion technology', with independent tests on treated products

having demonstrated 'a quick reduction of bacterial load by up to 99.99%'. The antimicrobial additives are FDA, EPA, and BPD/R-registered.



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