cibse Journal

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CPD Special



Knowledge is power

The complete Directory of CIBSE CPD Course Providers

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aemmett@cibse.org
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The power of shared learning

Artificial intelligence (AI) is rarely out of the news. Depending on which headline you read, it is either the greatest threat humanity has ever faced or the solution to all our problems. As engineers, we are naturally inclined to take a more measured view. AI is neither magic nor menace; it is a tool. Like any tool, its value depends on how it is used and, importantly, on the competence of the person using it.

Used sensibly, AI can improve efficiency and support many day-to-day tasks. However, it cannot replace the professional knowledge, judgement and experience that underpin engineering practice. It cannot reflect on a CPD activity, understand the nuances of stakeholder relationships or make balanced decisions where competing priorities exist. Continuous professional development remains as important today as it has ever been.

Indeed, one of the strongest lessons from recent years has been the importance of human interaction in professional growth. As we move further away from the disruption of the pandemic, many of us are rediscovering the value of in-person engagement. Whether at a conference, a CPD event or simply through a conversation with a colleague, some of the most meaningful learning occurs through personal connections and shared experiences.

Against this backdrop, I am pleased to report that the CIBSE CPD Panel continues to grow. We received a significant number of applications to join the panel and, while we were unable to accommodate everyone, the level of interest demonstrates the profession's commitment to lifelong learning. We are also delighted to welcome a growing number of international volunteers, reflecting increased engagement from members around the world.

Looking ahead, the panel is exploring opportunities to broaden the range of learning recognised through the CIBSE CPD Directory. This includes considering whether more extensive courses and structured training programmes could be accredited alongside the shorter events traditionally associated with CPD.

We are also continuing to look at how we can improve the member experience for recording CPD, working towards a streamlined solution that connects more closely with the wider Institution and better meets members' needs over time.

As part of this work, we are piloting a new CPD portal, alongside the previous mycareerpath, which remains available to members. Further information will be provided as arrangements are finalised.

Thank you for your continued commitment to CPD and to supporting learning across our profession. ●

● Stephen Page MCIBSE, CPD Panel chair and associate director, AtkinsRéalis

CIBSE
Inspiring people. Transforming places.

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***CIBSE Journal* has more than 200 CPD modules available to complete at www.cibsejournal.com Our website makes it easier than ever to continue your professional learning online**





CIBSE CPD Directory

This directory lists all the accredited organisations providing modules on a range of areas, including electrical, fire, lighting and sustainability

All the CPD courses in this directory have been approved by CIBSE. They are reviewed and assessed to ensure that the technical content is of a high standard and offers valuable CPD to delegates.

The directory of CPD course providers has been compiled to assist members of the Institution in identifying suitable courses in respect of their CPD needs. It embraces many different areas suitable for CPD, and will continue to be updated to incorporate new entries and revisions.

CIBSE members are required by the Code of Professional Conduct to maintain professional competence, but this should also apply to any professional working in the industry.

The directory will help you find suitable CPD to assist with your ongoing career development.

For guidance on what constitutes different CPD activities and how to record CPD, visit **www.cibse.org/cpd**

Here you will find CIBSE's online portal – mycareerpath – which lets you record your CPD in one place and link your progress to set objectives.

ACV

ACV BY IDEAL HEATING

● Phone: 01383 820100
Email: uk.sales@acvuk.com
Web: acv.com/gb

ACV has been designing, developing, manufacturing and distributing hot-water and heating products for commercial and residential heating since 1922.

It specialises in stainless-steel products and is the home of the patented tank-in-tank concept, which gives a safe, clean and reliable domestic hot-water performance to match the largest of demands.

The CPDs, listed here, can be delivered in person or online.

- ***Factors driving material selection for hot-water storage products.***
- ***Decarbonisation using electric boiler technology in non-domestic properties.***
- ***What you need to know: commercial DHW systems now and for the future.***

Advanced Air

ADVANCEDAIR

● Phone: 01842 765 657
Email: sales@advancedair.co.uk
Web: advancedair.co.uk

Advanced Air has been designing, developing, manufacturing, and distributing fire safety and air distribution systems for more than 35 years.

Passionate about the industry, and sharing new insights, knowledge and ideas, it offers two CIBSE-accredited CPD seminars – available in-person or online – ideal for construction contractors, specifiers, installers and other industry professionals.

- ***Wire and smoke damper legislation***, installation and covering fire dampers under BS EN15650/EN1366-2, smoke dampers under BS EN12101-8/EN1366-10, and an in-depth look at classification codes
- ***Electronic pressure independent control*** in fan coil units. Covering motor technology, ECM vs Epic, the benefits of pressure independence in FCUs, and hints towards better FCU system design.

Airedale by Modine

● **Phone: 0113 2391000**
Email: connect@airedale.com
Web: airedale.com

Airedale is a critical cooling specialist, with the technology and expertise to meet the specific operational demands of data centres worldwide.

Our CIBSE-accredited technical seminars are designed specifically for consulting engineering practices, data centre design teams and enterprise infrastructure operators working on complex critical cooling specifications. Sessions are delivered in-house (or virtually) for engineering teams of five or more technical professionals working on active or planned critical infrastructure projects. See right for a list of approved options. Contact us to explore how we can support your goals:

- ***Data centre chillers.***
- ***Data centre advanced cooling technology.***
- ***Optimising data centre cooling system performance.***

Using:

- ***Dedicated controls platforms.***
- ***Liquid cooling – Level I: application and technology.***
- ***Liquid cooling – Level II: hybrid data centres.***
- ***F Gas Level 1 (Legislation & A2Ls).***
- ***L Gas Level 2 (Global Implications and alternative refrigerants).***
- ***CRAH vs fan wall.***
- ***Cooling coil optimisation.***

Altecnic

● **Phone: 01785 218200**
Email: marketing@altecnic.co.uk
Web: bit.ly/altecniccpd

Altecnic, part of the Caleffi Group, is a leading provider of hydronic solutions for commercial and domestic applications, setting the standard for trade merchants, OEMs, engineers and specifiers.

The Altecnic Academy is an online learning platform designed specifically for professionals in the plumbing and heating industry. It offers a range of e-learning courses focused on essential industry topics.

The Academy provides invaluable, on-demand access to relevant training, helping professionals stay informed and up to date.

It currently offers free CPD courses, including:

- ***Designing the HIU interface for heat network performance*** – Springfield Village technical case study.
- ***Drivers for change and understanding the BESA HIU test regime.***
- ***UK certification schemes.***
- ***Efficient system design using electronic heat interface units (HIUs).***

For face-to-face CPD bookings, contact Altecnic at marketing@altecnic.co.uk.

Andel

● **Phone: 01484 845 000**
Email: help@andel.co.uk
Web: andel.com

Since 1992, Andel has been protecting organisations with its leak-detection solutions that prevent costly damage, downtime and environmental risk.

The company is proud to share its expertise through CIBSE-certified CPD seminars, which offer practical, real-world guidance on leak-detection technologies.

Its seminars on liquid leak detection and gas leak detection are designed to equip professionals with the knowledge to specify and apply best-practice systems confidently across new-build and retrofit projects.

Delivered by senior members of Andel's specialist team, the seminars – which are suitable for technical and non-technical audiences – are free to attend and can be held via Microsoft Teams, at your office or at Andel HQ.

The one-hour sessions count towards the 25-hour annual CPD requirement for consulting engineers, and include a:

- ***Dynamic mix of presentations, Q&A and hands-on demonstrations.***
- ***Certificate of attendance and copy of the presentation for all delegates.***
- ***A light lunch for in-person sessions.***

Armacell

● **Phone: 0161 287 7000**
Email: technical.uk@armacell.com
Web: armacell.com

Armacell UK offers CIBSE-approved lunchtime learning seminars for mechanical service engineers. Courses are held at engineers' offices and training options include:

- ***Mechanical services insulation*** – a review of insulation for HVAC-R pipe and ductwork and equipment, looking at key considerations when specifying, including fire performance, energy saving and thermal efficiency.
- ***Building Regulations and environmental design*** – a review of the regulations and standards governing pipe and duct insulation, plus an introduction to environmental considerations and assessment methods when specifying thermal insulation materials.
- ***Protection against corrosion*** – corrosion prevention and the benefits of flexible elastomeric foam insulation.
- ***Acoustic insulation of building services*** – ways to control noise in building services, including from process pipework, waste and drainage pipes, and ductwork and their associated equipment.
- ***Passive fire protection of building services*** – products to protect wall and floor penetrations, the correct testing and certification of these products, and the best system solutions for different applications.

Armstrong Fluid Technology

● **Phone: 0161 223 2223**
Email: ukhvacsales@armstrongfluidtechnology.com
Web: armstrongfluidtechnology.com

Armstrong Fluid Technology is a leading global player in HVAC. It designs and manufactures innovative fluid flow equipment and high-efficiency energy solutions for a broad range of applications, including district energy, data centres, fire systems, gas transmissions, high-rise, and mixed commercial buildings.

The firm's solutions deliver optimum lifetime building performance with the lowest first cost and life cost. Armstrong is committed to helping building owners, consultants, specifiers and energy managers find low-cost solutions for reducing energy consumption and carbon emissions. Its expertise comes from an understanding of end-to-end fluid systems and the integration of fluid dynamics, heat transfer, variable speed, and demand-based controls, which is the focus of its CIBSE-approved CPDs:

- ***A whole-life sustainable approach to pump and equipment selection without compromising on redundancy.***
- ***Meeting the needs of the building lifecycle through innovative approaches to variable speed pumping.***
- ***Pump basics and variable speed pumping.***
- ***Why district energy? Guaranteeing performance and where it is heading.***

The company can provide free, one-hour 'lunch and learn' sessions at your offices or at any of its UK sites.

Belimo

● **Email: sales@belimo.co.uk**
Web: belimo.com/uk

Belimo is the global market leader in the development, production and sales of field devices for the energy-efficient control of heating, ventilation and air conditioning systems. The focus of our core business is on damper actuators, control valves, sensors and meters.

We offer a range of CIBSE-accredited CPDs to develop further knowledge on HVAC and fire and smoke products. All our speakers are highly experienced in their specialist fields; many having spent 20-30+ years in the HVAC controls industry.

CPD seminars can be held online or at a company's premises, or at the Belimo Customer Experience Centre at our Shepperton offices.

- ***Fire dampers in HVAC systems***
- ***Improving performance; saving energy in heating; cooling systems***
- ***Evolution of pressure independent control valves***
- ***Sensors in HVAC systems***

Condair

● **Phone: 01903 850200**
Email: uk.sales@condair.com
Web: condair.co.uk/CPD

Manufacturer of commercial and industrial humidity control systems, Condair is offering three CIBSE-approved CPD training sessions – either face to face, in a client's office, or via an online presentation.

The three CPD seminars are:

- ***Humidification and psychrometrics*** – offering an overview of humidification, an explanation of psychrometric calculations, and detailed analysis of humidifier product selection, demonstrating the pros and cons of each technology.
- ***Dehumidification and drying psychrometrics*** – covering dehumidification processes and calculations using a psychrometric chart; an explanation of dehumidifier types and technologies; product selection and sizing information; and a comparison of different technologies.
- ***Using humidifiers for evaporative cooling in AHUs*** – learn the psychrometrics of evaporative cooling, the benefits and limitations of using evaporative cooling in AHUs, and the three main AHU evaporative cooling strategies. Also analyse the energy consumption figures behind three real-life case studies, and compare the different technologies available.

Crane Fluid Systems

● **Phone: 07713781806**
Email: ngibson@cranebsu.com
Web: cranefs.com

Crane Fluid Systems provides dynamic control valves, alongside general valves, for chilled heating and domestic services. CPDs include:

- ***Proportional balancing*** – within the commissioning process. Applies to constant and variable flow heating and chilled water systems.
- ***Thermal circulation valves – protection against legionella*** – eliminating legionella pneumophila, which causes Legionnaires' disease, from domestic hot-water systems. Covers high-risk systems, growth considerations, and counteractive processes and measures that can be implemented – primarily thermal circulation valves.
- ***Variable volume system using differential pressure control valves (DPCVs)*** – covers application, selection and commissioning.
- ***Variable volume system using pressure independent control valves (PICVs)*** – covers application, selection and commissioning.
- ***Variable volume system using DPCVs and PICVs*** – a combination of the above two modules.
- ***Digitising hydronics*** – the relationship between BMS and smart buildings and hydronic control/balancing. Understanding Modbus/BACnet communication to achieve remote commissioning, delta T monitoring, and control and data analytics.

Daikin Applied

DAIKIN APPLIED (UK) LTD

● **Phone: 0345 565 2700**
Email: info@daikinapplied.uk
Web: daikinapplied.uk/cpd

Daikin Applied UK – formerly McQuay – manufactures AHUs, chillers and heat pumps for commercial and industrial HVAC applications across the UK and Ireland.

Building on more than 60 years of applied HVAC heritage, the business delivers high-performance solutions for healthcare, data centres, industrial facilities, commercial buildings and education.

Our CPDs are written by our technical experts, are relevant and up to date, and can take place at your place of work or online. They include:

- ***NEW Future refrigerants for applied HVAC:*** Understanding legislation, refrigerant selection and future-proof system design.
- ***NEW The future of HVAC maintenance***: connected services driving decarbonisation and energy efficiency.
- ***Optimising AHU design for energy efficiency and carbon footprint*** – CIBSE-approved.
- ***Heat pump and chiller market trends*** – CIBSE-approved.
- ***AHU compliance to HTM-03-01 (2021)*** – CIBSE-approved.
- ***The benefits of AHU refurbishment in healthcare facilities*** – CIBSE-approved.
- ***Virtual factory tours*** of our European chiller, inverter and AHU manufacturing facilities.

DMS

DMS METERING SOLUTIONS 25 YEARS

● **Phone: 01773 534555**
Email: meters@dmsltd.com
Web: dmsltd.com

DMS, a leading UK supplier of metering solutions, offers two CIBSE-approved CPD courses to enhance your professional knowledge and skills.

- ***Heat metering: technology selection and getting it right first time*** – this course provides a comprehensive overview of heat-metering technologies, focusing on selecting the appropriate equipment for various applications. Topics include technology selection, application and installation, power, display, and communication options.
- ***Understanding meter data collection*** – recognising the growing importance of data in energy management, this course delves into effective methods of collecting and interpreting energy data. Participants will explore manual and automated data-collection systems, Internet of Things integration, and best practices for data security and system maintenance. This training is particularly relevant in the context of the digital transformation in the energy sector.

Both courses are available online or in person. In-person sessions include lunch, providing an opportunity for networking and knowledge sharing. Upon completion, participants receive a CPD certificate.

Dutypoint

DUTYPOINT

● **Phone: 01452 300110**
Email: Marketing@dutypoint.com
Web: dutypoint.com/knowledge-point/training

Dutypoint, a leading innovator in fluid-technology solutions, offers a series of CIBSE-approved CPD seminars designed to empower building services professionals with technical expertise and practical knowledge. These include:

- ***Cold-water boosters*** – covering correct system sizing and selection, ensuring reliable water supply performance across diverse applications.
- ***Category 5 backflow prevention*** – exploring fluid categories, real-world applications, and effective prevention solutions to ensure compliance and protect public health.
- ***Fire sprinkler pump sets*** – detailing British Standards, the importance of sprinkler installations, and the range of pump-set options available to meet project requirements.
- ***Offsite packaged plantrooms*** – highlighting the advantages of offsite construction, from design control to reduced installation risks, while also addressing warranty, commissioning and integration considerations.

Delivered by Dutypoint's expert technical team, these CPDs can be delivered at the company's dedicated training rooms, in your own offices, or online.

Enwa Water Technology UK

ADVANCED WATER TECHNOLOGY enwa

● **Phone: 01530 830354**
Email: uksales@enwa.com
Web: enwa.co.uk/cibse-approved-cpd-seminar

Enwa's CPD is ***The importance of effective filtration and water treatment for heating and cooling systems***.

The seminar focuses on filtration and water-quality requirements for modern HVAC systems, with reference to BSRIA and VDI guidelines, and includes:

- Key issues that threaten new-build and refurbishment projects, and a demonstration of how to identify and reduce these risks
- The positive impacts of effective water treatment and filtration on performance, resilience and lifespan, illustrated through case studies
- The role of automation, effective control and management, and how shortcomings in design and procurement can adversely affect project commissioning, completion, warranty, and legacy stages
- The impact on life-cycle costs, energy efficiency, and the environmental implications of failing strategies.

We provide a free, one-hour lunch and learn session at your office, or online sessions.

Firesafe



● **Phone: 01706 687863**
Email: enquiries@firesafeductwork.co.uk
Web: firesafeductwork.co.uk

CIBSE Patron Firesafe Fire Rated Ductwork specialises in fire-resisting ductwork, and is the creator and IP holder of the Queen's Award-winning Caswell Firesafe brand.

Since 2024, CIBSE has designated building safety CPD activity as mandatory for all its members.

Firesafe's free, one-hour, CIBSE-approved, interactive CPD is delivered via Microsoft Teams by our expert team, including the chairs of the ASFP TG6 Committee and BSI FSH 22/9 ductwork committee.

It provides comprehensive technical content, practical guidance and follow-up support on fire-resisting ductwork. Topics include:

- ***What is fire-resisting ductwork? Explanation of construction types.***
- ***Applications, including fire resisting, smoke control and commercial kitchen extract.***
- ***Test standards criteria for A, B and C duct tests; stability, integrity and insulation.***
- ***Specification and certification to BS 476:Part 24, EN1366-1 and 8, and EN 12101-7.***
- ***Classification standards, EU/CPR regulations and Certificate of Conformity.***
- ***Function and installation of ductwork supports, fixings and penetration seals.***

GF Building Flow Solutions



● **Phone: 01923 381212**
Mobile: 07973 234258
Email: james.griffiths@georgfischer.com

With more than 100 years of engineering expertise, GF delivers innovative plumbing, heating, cooling and infrastructure systems for projects of every size and complexity.

It has expertise across residential, commercial, healthcare, life sciences, data centres, logistics, manufacturing, utilities and public sector developments, and its CPDs help MEP consultants, specifiers, contractors and asset owners achieve exceptional project outcomes.

Successful building services projects demand technical expertise, reliable delivery and ongoing support throughout the project life-cycle. The company works closely with MEP consultants, consulting engineers, contractors and developers from initial concept design through to commissioning and operation. Its dedicated technical teams provide tailored support to help reduce risk, improve efficiency and ensure long-term system performance.

It offers two CPDs:

- ***Minimise the heat loss in district heating*** – covers the structure of a heat network, benefits to you and your customers, and what is driving the growth of heat networks.
- ***The popularity and multiple benefits of MLC pipe systems*** – explores features and benefits of polymer pipework and the overall pipe market, trends, and legislation and standards.

Glamox



● **Phone: 01256 363090**
Email: alison.quinn@glamox.com
Web: glamox.com

Founded in 1947, Glamox has decades of experience across commercial, education, healthcare and industrial environments.

As lighting standards, sustainability targets and occupant wellbeing expectations continue to evolve, understanding the role of lighting in the built environment has never been more important. Glamos's CIBSE-accredited CPD modules are designed to provide practical guidance for consultants, engineers, designers and specifiers.

Current CPD topics include:

- ***An overview of dark sky lighting.***
- ***WELL Building Standard v2 and light explained.***
- ***An overview of emergency lighting.***
- ***Lighting for healthcare.***

The CPDs offer valuable, industry-relevant learning, and technical understanding, and explore how lighting can positively influence wellbeing and sustainability.

CPD presentations can be delivered in person or remotely via Teams, making it easy for multiple offices within the same organisation to attend together. Certificates of attendance are provided, contributing towards ongoing CPD requirements.

Contact Glamox to request its latest CPD brochure and arrange a session with its team.

Hamworthy



● **Adam Burrows, national sales manager**
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Web: hamworthy-heating.com

Hamworthy Heating is a UK manufacturer of commercial heating and hot-water solutions.

As part of its commitment to empowering customers with the right advice, specification and knowledge for their heating and hot-water projects, Hamworthy offers a large number of CIBSE-approved CPD seminars led by our expert team. Seminars can take place online or in person – at the company's site or yours:

- ***Considerations for commercial air source heat pumps*** – selection, specification and system application.
- ***Introduction to heat pumps*** – technology and principles.
- ***Best practice in domestic hot water (DHW)*** – design and solutions (module 1).
- ***Best practice in domestic hot water (DHW)*** – safety, water treatment and legislation (module 2).
- ***Best practice in domestic hot water (DHW)*** – sizing (module 3).
- ***Boiler controls*** – unwiring the jargon.
- ***New boilers on old heating systems*** – hydraulic designs.
- ***Safety considerations for R290 commercial air source heat pumps***.
- ***What you need to know: commercial DHW systems now and for the future***.

Humidity Matters

● **Phone: 02380 443127**
Email: info@dristeemuk.co.uk
Web:humiditymatters.co.uk

Humidity Matters is a leading suppliers of humidification and adiabatic cooling systems in the UK. It engages with every level of the supply chain from detailed design concept to after sales, including full turn-key applications.

Education in humidity control is paramount to the company's success – hence its commitment to CPD training. ***Why humidification?*** is a one-hour CPD course that covers the basics of humidification and adiabatic cooling, including: the design process; application and selection of different systems; and load calculations and dispersion through absorption distance calculations. Why? Because Humidity Matters.

Humidity Solutions

● **Phone: 01372 571200**
Email: info@humiditysolutions.co.uk
Web: humiditysolutions.co.uk

Humidity Solutions delivers bespoke humidity control solutions designed around the specific needs of every project.

With expertise across design, supply, installation, commissioning and ongoing maintenance, the company provides complete humidity management solutions supported by an experienced in-house technical team.

From free site visits and quick, accurate quotations through to system design and aftercare, Humidity Solutions makes specifying and managing humidity control simple. UK-held stock ensures reliable delivery and responsive support when it matters most.

Humidity Solutions also offers free CIBSE-accredited CPD sessions, to help building professionals understand the impact of humidity on building performance and occupant comfort, and the importance of selecting the right solution for each application.

Ideal Heating Commercial Products

● **Richard Brown, head of specification sales**
Phone: 07718 192161
Email: specification@idealheating.com
Web: Idealcommercialheating.com

Ideal Heating Commercial Products is the UK's leading commercial heating manufacturer of high-efficiency commercial heating solutions. Its CPDs can be delivered online or in person at your premises or one of its centres of excellence.

- ***NEW: Safety considerations for R290 commercial air source heat pumps.***
- ***Commercial heat pump system design and specification.***
- ***Low carbon hybrid heating system considerations.***
- ***Surveying the modern plantroom***: from boilers to heat pumps.
- ***Understanding refrigerants and how they affect the choice of commercial heat pumps.***
- ***Low carbon systems***: appliances and applications using heat pump technology.
- ***Heat Networks and Heat Interface Units.***
- ***A review of commercial boiler heat exchanger materials.***

JS Air Curtains Ltd

● **Phone: 0333 0384240**
Email: sales@jsaircurtains.com
Web: jsaircurtains.com

JS Air Curtains has been supporting consultants, architects, building services engineers and contractors to specify air curtain systems for more than 25 years.

The company combines technical expertise with project experience to help businesses improve energy efficiency, thermal comfort and entrance performance across a wide range of building types.

Its free, CIBSE-approved ***Design and Application of Air Curtain Systems*** CPD seminar provides impartial guidance for anyone involved in the design, specification or installation of air curtains. Available as a one-hour virtual or in-person seminar, it explains how air curtains work, the technologies available, and the key considerations for selecting, sizing and controlling systems for optimum performance.

The seminar also explores how correctly specified air curtains can help minimise heat loss through doorways, improve HVAC efficiency and support more sustainable building operation without compromising occupant comfort.

Designed to support more informed specification decisions, the seminar combines technical knowledge with practical, real-world guidance. Every attendee receives a certificate for claiming CIBSE CPD points.

Lochinvar

Phone: 01295 269981
Email: info@lochinvar.ltd.uk
Web: lochinvar.ltd.uk

Lochinvar manufactures and supplies heat pumps, solar thermal systems, gas-fired water heaters, boilers, and related ancillaries. With extensive sector expertise, it delivers CIBSE-accredited CPD seminars, including:

- ***NEW FOR 2026: Heat pumps for commercial domestic hot water*** – how to correctly assess DHW demand, size storage and select air source heat pumps for commercial applications. The live webinar explains why traditional boiler design methods can lead to poor heat pump performance and explores modern DHW solutions including integrated vessel systems, R290, R454B and CO_2 heat pumps.
- ***Topics include*** – Stratification, One-Pass and Multi-Pass DHW generation, packaged solutions, heat-recovery opportunities, controls, compliance and best-practice design for efficient low carbon hot-water systems.
- ***Sizing and selection of direct gas-fired water heaters*** – understanding hot-water demand patterns, applying manufacturer sizing methods and CIBSE guidance, selecting appropriate water-heater technologies, integrating renewables, and assessing system efficiency and SBEM implications.

Book here: **bit.ly/4y4q93y**

Medem UK

Stuart Mason
Phone: 0161 233 0600
Email: sales@medem.co.uk

Medem's ***Safe use of gas in education buildings*** CPD provides essential guidance for the design, installation and ongoing management of gas systems across key educational spaces, including laboratories, food technology rooms, boiler rooms and production kitchens.

It explores statutory obligations and industry best practice, equipping delegates with the knowledge to ensure safety, compliance and efficiency within education environments.

The CPD examines core standards and guidance documents, such as IGEM/UP/11, IGEM/UP/19, BS 6173, BB80, BB100 and BB101, breaking down their application in real-world scenarios.

Delegates will gain a clear understanding of responsibilities, from duty holders and staff to contractors, and how to apply effective risk assessments to mitigate hazards.

Key focus areas include the role of gas pressure proving systems, ventilation interlocking, and the integration of CO_2 and gas-detection technologies as part of a layered approach to safety. There is also guidance on the importance of planned maintenance regimes, plus current design best practice.

By the end of the CPD, participants will have practical insights to implement robust safety measures, safeguard building users and meet regulatory requirements.

Munters

Phone: 01480 432243
Email: info@munters.co.uk
Web: munters.com/en-gb

Munters' CIBSE-approved CPD seminars provide a practical introduction to humidity control, covering either dehumidification or humidification theory.

The sessions explore how moisture loads, relative humidity, dew point and seasonal variations affect materials, processes, assets, energy use and occupant comfort. Engineers will understand how to compare technologies and select efficient, application-specific climate control solutions.

Our dehumidification and humidification CPDs cover:

- ***Dehumidification and humidification principles.***
- ***Relative humidity, dew point and moisture sources.***
- ***Psychrometrics and the psychrometric chart.***
- ***Technology selection, benefits and limitations.***
- ***Industry examples, including case studies.***

Suitable for consultants, specifiers and industry professionals, these seminars can be delivered in person at your office or via Teams. Munters can provide a free lunch for face-to-face sessions (subject to conditions).

Book your CPD now – **bit.ly/3TQ8COS**

Paroc

Phone: +447903 318288
Contact: Maleha Khokher
Email: Maleha.Khokher@owenscorning.com

Verified by The CPD Certification Service and CIBSE, Paroc's online or in-person 45-minute CPD goes through how to specify insulation to meet stakeholders needs, provide the tools and knowledge for calculating thickness, and help ensure project requirements are met for pipe and ductwork insulation. The CPD covers:

- ***Why choose stone-wool insulation and product standard examples/requirements (for manufacture and design/installation).***
- ***Fire safety and Euro classes.***
- ***Installing insulation for pipe and duct work information.***
- ***Calculating thicknesses.***
- ***Project-specification tools.***

About the presenter:
With almost a decade of experience in the energy and heating industries, and now focused on HVAC, Maleha Khokher is technical marketing lead at Paroc HVAC UK & Ireland. Her expertise spans industry regulations, technical documentation and helping specifiers navigate complex technical requirements, ensuring informed decision-making throughout the design process.

Polypipe

Polypipe

Building Services

● Phone: 01622 795200
Email: buildingservices.technical@polypipe.com
Web: polypipebuildingservices.com

Polypipe Building Services develops and delivers engineered solutions in drainage and water supply. Its specialist technical team helps customers to complete safe and sustainable installations within high-rise residential, office, education, healthcare and leisure properties.

For more than 60 years, Polypipe's Terrain brand has been the benchmark for drainage systems. Now, its award-winning MecFlow Supply Systems range is delivering new advances in water supply, offering a complete plantroom-to-apartment solution.

MecFlow Fusion is a WRAS-approved PP-RCT system, with a B-s1, d0 fire rating, for boosted cold-water, low-temperature hot water, chilled water and heating applications. MecFlow Press is engineered for potable, hot and cold plumbing and heating installations, based on a multilayer composite pipe material with innovative, flow-optimised fittings.

Polypipe's Advantage Service creates complete drainage and water supply systems – fully customised and prefabricated off site – that are quality assured, pre-tested and delivered direct to site ready for installation.

Whether you need a single component or a complete customised system, Polypipe has the design, fabrication and testing capabilities, plus specialist advice and customer support, to ensure your project is a success.

Powrmatic

POWRMATIC

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Powrmatic is a leading manufacturer and HVAC design partner, supplying warm air, radiant, electric and water-based systems, natural and smoke ventilation, and air conditioning. It collaborates with architects, consultants and building specialists to deliver sustainable systems that support decarbonisation.

As a CIBSE-accredited CPD provider, it delivers training that promotes sustainable and optimised HVAC design in commercial and industrial buildings, including:

- ***Decarbonising large-scale buildings with HVAC*** – this explores emissions-reduction HVAC strategies and solutions, retrofit and new-build challenges, the transition to electric and hybrid systems, and compliance with EPC, MEES and ESG standards.
- ***Smoke and natural ventilation systems – concept, compliance, and practical application*** – highlights ventilation's role in safety and performance, with guidance on SHEVS, product selection and application, natural ventilation strategies, design choices, and Part L.
- ***Optimising climate control in warehousing and logistics with air rotation*** – the principles, design and installation of air-rotation systems, and how they prevent stratification, protect stock, reduce energy use, ensure compliance, and future-proof operations.

Recotherm

Recotherm

BREATHE THE DIFFERENCE

● Phone: 01527 894533
Email: enquiries@recotherm.co.uk
Web: recotherm.co.uk

Recotherm designs and manufactures air handling units exclusively for swimming pool halls. For more than 40 years, that singular focus has driven the development of energy-efficient AHUs specifically to handle the unique demands of a pool environment.

Designing swimming pool ventilation systems is aimed at mechanical engineers, consultants and architects working with sustainability in mind. The CPD covers the challenges and best practices in swimming pool ventilation, focusing on:

- **Energy-efficiency and heat recovery in humid environments.**
- **Whole-life and sustainable operator costs.**
- **Controlling humidity in the pool hall and avoiding aggressive condensation.**
- **Evaporation calculations and the psychrometric chart.**

By the end of the session, attendees will have gained a deeper understanding of key ventilation principles specific to swimming pools with the opportunity to ask questions about the presentation or any current projects.

Recotherm experts deliver the CPD in a free lunch-and-learn session at your offices, on site in its dedicated training rooms at its factory in Redditch, or online.

Rehlko

rehlko

● Phone: 01256 386700
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Rehlko believes that professional development should be practical, relevant and accessible. It offers a range of free seminars, training courses and webinars designed to help consultants, electrical engineers and industry professionals stay informed about the latest developments in power protection technology and best practice.

Its CPD programmes combine expert technical knowledge with real-world application, providing valuable insights into UPS specification, selection, installation and ongoing maintenance.

Independently certified in line with CPD guidelines, courses support professionals in maintaining and enhancing their skills while contributing towards their ongoing learning needs.

Each session can be attended either in-person, through a live webinar or at the UPS Academy. From emerging technologies and compliance considerations to system design and operational resilience, Rehlko training is designed to deliver knowledge that can be applied immediately.

With free access to high-quality technical education and commitment to sharing industry expertise, Rehlko helps professionals stay ahead of changing requirements and make informed decisions when specifying and managing power protection solutions.

Saniflo

Saniflo UK – part of the SFA Group and a leading designer and manufacturer of pumps, macerators and lifting stations – offers a CIBSE-approved CPD module for public health engineers, mechanical consultants, architects, mechanical installers and specialist resellers.

The hour-long talk – which can be supplemented with a two-hour session of pump-curve training if required – will discuss and offer technical training on macerators and lifting stations for commercial and domestic buildings. It is part of wastewater and drainage in the public health sector/mechanical engineering.

By the end of the presentation, attendees will:

- Understand the challenges of gravity-fed drainage systems.
- Be able to identify where and when to use a macerator or lifting station.
- Be able to navigate critical installation requirements and considerations.
- Understand some of the key differences between the lifting station technologies.
- Be able to use pump curves to help specify the correct pump.

Phone: 020 8842 0033
Email: marketing@saniflo.co.uk

Sav Systems

The rapid evolution of building services is creating new challenges for designers, consultants and engineers. Heat networks are becoming lower temperature, heat pumps are replacing traditional plant, ventilation strategies are increasingly linked to heating performance and new regulations are reshaping the way systems are specified, monitored and operated.

Success now depends on understanding how these technologies work together as a complete system. Designing for low return temperatures, integrating renewable energy, selecting the right control strategies and using performance data effectively are no longer specialist topics – they are becoming fundamental engineering skills.

Drawing on decades of practical experience delivering heat network, heat pump, metering and ventilation solutions across the UK, SAV Systems has developed a portfolio of CIBSE-accredited CPD seminars focused on the technologies and design principles shaping the future of the industry.

Each explores the engineering decisions that influence efficiency, compliance, occupant comfort and long-term operational performance, supported by real-world project experience and field data.

Phone: +44 1483 227 512
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Web: sav-systems.com/cpd

S&P Ventilation Systems

Developed by Ian Davis, an industry expert in ventilation, each session of S&P Ventilation Systems' CPDs is designed to equip professionals with practical, standards-based insights across air quality, sustainability and system design – supporting safer, more efficient and future-ready buildings.

Indoor Air Quality (IAQ)
Explore the causes and effects of poor indoor air quality, and gain an understanding of the recommended filtration standards and practical knowledge to enhance health, compliance and system performance.

Embodied Carbon (TM65)
Understand embodied carbon in MEP design using CIBSE TM65. Learn data requirements, calculation methods and sustainable product selection. Ideal for professionals aiming to reduce carbon impact in buildings.

Kitchen Ventilation (DW/172)
Master kitchen ventilation design in line with HSE and DW/172. Covers airflow calculation, canopy design, filtration and compliance. Essential for safe, efficient, and hygienic commercial kitchens.

Phone: 01473 276890
Email: cpdbookings.uk@solerpalau.com

SPC

SPC is a specialist in heating and cooling solutions. Its extensive range of products – including heating and cooling coils, radiant heating and cooling panels, fan convectors, trench heating and cooling, air curtains and unit heaters – are manufactured in-house, ensuring consistent quality and reliability.

A trusted CPD provider since 1997, SPC delivers CIBSE-approved training that supports engineers, consultants and contractors across the building services industry.

The company continually invests in its presenters, to ensure each CPD session combines technical expertise with practical, real-world application.

Its CPDs include:

- ***An introduction to coil heat exchangers*** – coil design, heat transfer, performance considerations and electric heater batteries.
- ***Decarbonisation of industrial and commercial heating systems*** – renewable energy, heat pumps, low-temperature design, embodied carbon, and funding.
- ***Radiant heating and cooling panels*** – heat transfer, panel design, system benefits, applications, and controls.
- ***Design considerations for trench heating*** – system types, applications, sizing, energy-efficient controls and grille options.

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SWEP International

Phone: 01235 854098
Email: swepuk@swepgroup.com
Web: swepgroup.com

SWEP ensures efficient heat transfer where less means more. Since 1983, millions of SWEP International's brazed plate heat exchangers (BPHEs) have been integrated into HVACR and industrial applications worldwide.

IBPHEs are compact and customisable, requiring minimal space. They deliver maximum savings in energy and maintenance and exceptional thermal performance, making them ideal for use as condensers, evaporators or economisers within HVAC or refrigeration, or as single-phase units in data-centre cooling, district energy or residential heating.

SWEP's CIBSE-accredited CPD courses for industry professionals cover:

- ***Basic working principles and construction of a BPHE.***
- ***Key design considerations.***
- ***Comparison of BPHE with other technologies.***
- ***Case stories from real life.***
- ***Live demonstration of our sizing and selection software SWEP SSPTM.***

Our experts conducting CPD courses are highly skilled within their field, with solid knowledge and experience from HVACR industries. Courses are free of charge, on demand, and can be delivered in person or online and tailored to specific needs.

Systemair

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Systemair has led the world in energy efficient ventilation products for more than 50 years. It offers a range of accredited CPD technical training courses, in person at your offices, in its expo centre in Birmingham or online – at times and days to suit you. It can also tailor specific sessions with in-person training.

- ***Energy-efficient ventilation*** – ventilation running costs and carbon footprint savings using demand-control EC motor technology and energy-recovery components.
- ***Low energy air conditioning with indirect adiabatic cooling*** – alternative methods of air conditioning that can reduce or eliminate the use of refrigeration-based cooling.
- ***Residential ventilation and MVHR*** – an introduction to different types of residential ventilation systems, and how they are designed and integrated into a building.
- ***Swimming pool ventilation and heat recovery*** – technical seminar suitable for mechanical and electrical services engineers designing swimming pool hall ventilation systems or carrying out energy surveys on pools.
- ***Passivhaus ventilation systems*** – design and comparison of ventilation systems for Passivhaus buildings.
- ***Smoke control systems*** – the principles of design and control of smoke systems.

Vexo

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VEXO International provides water-quality and smart-control solutions for commercial heating and cooling systems. Its established CPD covers closed-system water treatment, including corrosion, scale, biofilm, debris, chemical and non-chemical treatment, sampling, and side-stream filtration, and explains how system condition can affect heat transfer, energy performance and asset life.

VEXO is also developing a CPD on affordable smart controls for smaller and medium-sized commercial buildings. It will examine how conventional BMS control can integrate with Internet of Things (IoT)-enabled sensors and actuators to extend zoning, occupancy-responsive control and demand feedback without extensive new cabling.

The technical content draws on monitored projects, including the Portsmouth S-BMS project, which won at the Energy Awards 2023, and the IoT controls retrofit at Somerset House.

The seminars are intended for consultants, mechanical engineers, facilities managers, contractors, and others responsible for building performance and maintenance. They can be delivered at customers' offices, through Microsoft Teams or at VEXO's premises in Biggleswade. Lunch-and-learn sessions are also available for groups of six or more.

Vexve

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We develop and manufacture dynamic valves and energy-efficient solutions for hydronic systems, optimising energy consumption and improving system performance. After more than 80 years of ownership by the Frese family, we are now proud to be part of the Vexve Group.

- ***Hydronic balancing and control*** – Understand a hydronic circuit and the functions of the components. Why circulate water, and how is the energy transferred into the room? How can flow and pressure loss be calculated, and how are valves and pumps selected?
- ***PICV design and functionality*** – Understand how a PICV is designed, as well as component functionality, and compare different manufacturers. Learn how to design and commission a PICV system, and how to select the correct actuators.
- ***PICV with flow measurement and digital actuators*** – Learn features of PICV with flow measurement and how to commission the valve. Learn features of digital actuators, and how to set up the actuator and valve. Discover how to optimise the hydronic system using valves and actuators in combination.



The expert view

We spoke to 10 of the industry's leading suppliers to find out how their products are maximising energy efficiency and supporting sustainable projects in the built environment



Barry Whyler, regional sales manager, Aermec
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"Refrigerants are increasingly dictating the system – and not the other way around"

Q: As the industry transitions away from high-GWP refrigerants, how are low-GWP and natural refrigerant chiller and heat pump solutions altering plant design and safety considerations?

A: Refrigerants are core for any cooling and heat pump system. Selecting the most environmentally sensitive, compliant refrigerant is essential to maximise system efficiency. Phase-outs led by legislation are driving the HVAC industry towards refrigerants with lower global warming potential (GWP).

Refrigerant choice is overturning long-established cooling paradigms. Chiller manufacturers are focusing on compressor development supporting newer technologies that can operate safely and efficiently with natural refrigerants, which means the fundamental design of chillers and heat pumps is being re-engineered.

Regulations such as F-gas and global climate commitments have galvanised end users towards more environmentally friendly refrigerants. Specification is tightening where organisations seek GWP natural refrigerant options that align with their long-term sustainability goals.

Ozone depletion potential and GWP are significant influences as businesses lock in their focus on decarbonising targets



to minimise their environmental impact.

The three most used types of refrigerants are natural refrigerants, A2L refrigerants and HFCs, which are highly regulated because of their high GWP rating. The focus is very much on 'ultra-low GWP' gasses, along with 'natural refrigerants' – propane, carbon dioxide and ammonia, which present a unique set of challenges. A2L refrigerants offer low toxicity and are mildly flammable, as defined by ASHRAE.

Selecting refrigerants is complex. There's a fine line between GWP, toxicity and flammability, with application and operating conditions dictating priority. There's no one-size-fits-all refrigerant. Refrigerants are increasingly dictating the system – and not the other way around. HVAC manufacturers will need to adapt to a refrigerant-led future.



Tony Ward, product development director, Andel
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"Mitigating liability is not simply about installing sensors, but about creating a demonstrable risk-management regime"

Q: What role does continuous monitoring technology play in mitigating operational risk and insurance liabilities for modern commercial developments?

A: Continuous monitoring technology shifts risk management from periodic inspection and reactive response to early intervention guided by data.

In a modern commercial development, connected sensors can continuously watch for water escape, abnormal flow, oil or gas leaks, temperature and humidity changes, rising floodwater, blocked drainage, and conditions within bunded fuel or transformer installations.

When thresholds are breached, alarms, remote notifications and links to the building management system can trigger investigation, isolation, shutdown or pumping before a minor fault becomes a major loss.

This matters operationally because water escape, flooding and pollution can damage finishes, plant, electrical systems, stock and critical IT, while disrupting tenants, services and access. A robust system reduces the likelihood and severity of an incident, supports planned maintenance by identifying deteriorating performance, and helps



facilities teams prioritise interventions across complex or lightly staffed estates.

For insurers and asset owners, mitigating liability is not simply about installing sensors, but about creating a demonstrable risk-management regime.

Andel's integrated approach, covering leak detection, water sustainability, oil-storage compliance, drainage and interceptor maintenance, flood warning and flood defence, shows why monitoring should form part of a wider resilience strategy.

Technology must be correctly specified, commissioned, tested and maintained, with clear escalation responsibilities. It does not replace inspection or emergency planning; it makes both faster, better targeted and more defensible.



Lee Davies, head of offsite, Dutypoint
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"DfMA can reduce the plantroom footprint by 20-30% compared with a site-built equivalent"

Q: In what ways are packaged, modular plantrooms helping specifiers address urban space constraints while ensuring compliance and ease of maintenance?

A: Packaged, modular plantrooms allow specifiers to resolve layout, compliance and maintenance before equipment reaches site. This is particularly valuable on urban schemes, where structural and architectural requirements often restrict plant space.

Using Design for Manufacture and Assembly (DfMA), the plantroom is modelled and coordinated with the structural and architectural designs prior to manufacture, enabling early clash resolution. Components are then designed to use restricted space efficiently, avoiding the additional space often created when separate components are designed and installed independently.

Based on Dutypoint's project experience, DfMA can reduce the plantroom footprint by 20–30% compared with a site-built equivalent, without compromising on safe access for operation and maintenance.

Through DfMA, maintenance is designed into the layout using CIBSE Guide M principles. Serviceable items, such as strainers, valve handles and commissioning sets, are placed on



accessible faces. Replacement routes and isolation points allow components to be removed without draining the system, making maintenance safer and less disruptive.

Compliance and performance can also be checked earlier. Factory acceptance testing can verify module-level hydraulic performance, controls and safety interlocks before delivery. It does not replace final site commissioning, but provides specifiers with documented results.

Modular construction does require earlier decisions. The best results are achieved when the packaged plantroom is specified as a complete engineered system, with the manufacturer involved at RIBA Stage 3.



James Griffiths, head of projects, GF Building Flow Solutions
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"Intelligent, fully programmable flushing control and thermal-balancing valves provide the solution"

Q: How do automated thermal balancing and smart flushing systems mitigate the heightened legionella risk in domestic hot-water (DHW) systems operating at lower flow temperatures?

A: Delivering safe, hygienic water is of the utmost importance for system designers and operators. However, once the system is installed, constant monitoring of the system across the whole network is virtually impossible without the use of modern technologies. The growing focus on lowering network temperatures to increase efficiency, and to make them suitable for use with renewable low-temperature heat sources, drives the need for new measures of control to prevent legionella.

When considered at the early stages of design, the use of BMS systems can help monitor, report and control systems when partnered with the appropriate valves – but not every system benefits from this level of automation.

Mechanical thermal-balancing valves offer a part of the solution, but are limited to simply maintaining DHW temperatures, and manual flushing of the cold-water system that requires onsite resources, which can mean discharging wholesome drinking water unnecessarily. Ideally, a whole-system solution should be



employed to maintain both hot and cold drinking-water systems.

Intelligent, fully programmable flushing control and thermal-balancing valves provide the solution. Specialist valves with intelligent control and reporting of the water's health can be used to monitor the whole system, while ensuring the water is not stagnating and is maintained at the correct temperature.

Connectivity of the valves can be via a wired Modbus RTU or wireless Bluetooth to a connected app. System health can be maintained with warning alerts, should an area of the network fall into an unhealthy condition. Real-time reporting of the network health can also help maintenance teams to identify issues and pinpoint where corrective actions should be made.



Jason Allen, commercial product manager – heat pumps, Ideal Commercial Heating
idealcommercialboilers.com

"Retrofit heat pump specification should never be based on temperature capability alone"

Q: What must specifiers keep in mind when applying commercial R290 heat pumps in retrofit projects?

A: When specifying an R290 heat pump for a retrofit project, it's important to consider the existing heating system and the different safety requirements that come with using a flammable refrigerant.

One advantage of R290 is its ability to deliver higher flow temperatures – up to around 75°C with some commercial heat pumps, including our own ECOMOD 290HT range – which can make it particularly relevant to retrofit projects where retaining existing emitters is desirable.

However, just because a heat pump can operate at a higher temperature doesn't mean it should do so continuously. Higher operating temperatures can affect efficiency and running costs, so we always recommend establishing the building's actual temperature requirements and looking for opportunities to reduce them where practical.

Location is another key consideration. R290 is an A3 refrigerant, meaning it has low toxicity but high flammability, giving it a different risk profile from many refrigerants traditionally used in commercial heating. It is also denser than air, so leaked refrigerant can accumulate in low-lying areas. A suitable risk assessment should be



undertaken from the outset, considering factors such as refrigerant charge, ventilation, drains, manholes, building openings and potential ignition sources.

This is particularly important in retrofit projects, where the available plant space and existing site layout may impose constraints. Required exclusion and safety zones, manufacturer clearances, access for maintenance and electrical supply all need to be considered before equipment is selected. Ultimately, retrofit heat pump specification should never be based on temperature capability alone.

We encourage specifiers to involve manufacturers early, so that existing system temperatures, available space, safety requirements and system efficiency can all be considered together to identify the most appropriate solution.



Gavin Robinson, business development director, Polypipe Building Services
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"Prefabricated HDPE systems require one-third of the man days taken to install loose cast-iron systems"

Q: What technological advancements in prefabricated or offsite piping assemblies are driving speed, safety and embodied carbon reductions on site?

A: Recent advances in the development of materials and methods are delivering massive benefits in terms of speed, safety and embodied carbon when it comes to water-management systems.

The materials (PVC, HDPE, PPRCT and MLCP) are considerably lighter than the conventional alternatives, such as copper, cast iron and steel – making them easier and safer to handle. The jointing methods involved with modern materials (solvent and electrofusion welding) require no soldering, so there's no open flames or hot-works licences. They also require less mechanical handling equipment.

Modern materials also deliver safety benefits beyond the installation stage. Plastic and composite pipes have smooth bores and the materials can have anti-microbial properties. They resist corrosion and limescale buildup. Therefore, not only do they deliver improved flow and pump efficiency, but they also create healthier systems by resisting pathogens.

Our recent white paper, *Prefabrication, the key to the transformation of construction*, clearly demonstrates the time and labour savings provided by the



prefabrication of drainage systems using modern materials (HDPE). Prefabricated HDPE systems require one-third of the man days taken to install loose cast-iron systems. Prefabricated HDPE systems reduce the need for logistics planning and handling by more than half compared with loose and conventional materials.

These time and handling benefits have a huge impact on cost, with the total install cost with conventional materials being 150% more than with modern equivalents. Modern materials also have a huge impact on embodied carbon levels, with direct comparisons of Environmental Product Declarations showing that HDPE drainage systems have 36% less carbon than conventional systems.



Maleha Khokher, technical marketing lead – UK & Ireland, Paroc part of Owens Corning
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"The long-term effectiveness of any insulation depends on maintaining the integrity of the vapour barrier"

Q: How do advanced insulation solutions prevent corrosion under insulation (CUI) while maintaining high thermal performance over the operational life of HVAC systems?

A: Advanced insulation solutions play a critical role in CUI prevention while maintaining long-term thermal performance in HVAC systems. In cold water and chilled air systems, condensation forms when surface temperatures fall below the ambient dew point. Over time, this moisture can lead to corrosion, damaging pipework, equipment and surrounding assets.

Effective insulation helps prevent this by keeping the external surface temperature above the dew point throughout seasonal temperature variations, eliminating the conditions needed for condensation to occur.

Achieving this requires the correct insulation to be specified and installed. Insulation thickness must be calculated to meet system requirements and provide a close-fitting, continuous layer around the pipework or ductwork.

The long-term effectiveness of any insulation system also depends on maintaining the integrity of the vapour barrier. Even minor damage during installation or operation can create weak points where moisture can penetrate and accumulate. Regular inspection and prompt repair of damaged vapour barriers are therefore essential to protecting the system throughout its operational life.



For example, stone-wool insulation has low thermal conductivity, delivering reliable energy efficiency alongside exceptional fire resilience, with a melting point of approximately 1,000°C, offering an additional layer of protection for HVAC systems.

By combining correct design, installation and maintenance with high-performance insulation materials, building owners can reduce the risk of CUI significantly, while ensuring durable thermal performance and energy efficiency over the lifetime of the HVAC system.



Martin Killen, CEO, Recotherm
Recotherm.co.uk

"Our preferred solution is a small CO_2 heat pump dedicated to DHW, combined with a propane heat pump serving the pool and space heating"

Q: What changes in UK Building Regulations or refrigerant transitions (F-gas) are impacting the design of specialised HVAC units for high-humidity environments most significantly?

A: The most significant driver here is the UK's tightening carbon regulations for building. Part L was an interim step, alongside revisions to Part F covering ventilation and indoor air quality. The bigger shift is the Future Homes and Buildings Standard, coming into force from March 2027 for non-domestic buildings, which requires heating and hot water to be powered by electricity, effectively mandating heat pumps over fossil fuel boilers. For swimming pool halls, this pushes the entire sector towards heat pump systems. Traditional heat pumps use HFC refrigerants such as R410A and R32; their global warming potential (GWP) is 2,088 and 675 respectively. By comparison, R290 propane has a GWP of approximately 3, while R744 CO_2 has a GWP of 1. This makes propane and CO_2 attractive alternatives.

CO_2 heat pumps can produce water temperatures of around 90°C, making them particularly suitable for domestic hot water (DHW). Propane heat pumps are more versatile, producing water temperatures of approximately 70°C, but operate with a higher coefficient of performance (COP) when producing lower temperatures, such as 50°C. They also work effectively with a lower water-side temperature differential, making them better suited to swimming pool and space heating. Our preferred solution is a small CO_2 heat pump dedicated to DHW, combined with a propane heat pump serving the pool and space heating. If the pool heat exchanger is selected to operate effectively with low-temperature water – for example, 35°C – the propane heat pump can be weather compensated.



Where two heat pumps are not practical, DHW could be preheated in one cylinder and then brought up to the required temperature using an inline or immersion heater in a second cylinder.



Samuel Jones, technical adviser,
Soler & Palau
sjones@solerpalau.com

"Its innovative geometry delivers high pressure, reduces noise and maximises efficiency"

Q: How are you responding to the growing demand for low-energy ventilation?

A: High-efficiency electronically commutated (EC) motors and integrated controls are essential technologies for helping ventilation specifiers meet increasingly stringent energy targets in modern buildings. Ventilation systems must deliver high levels of indoor air quality while consuming as little energy as possible.

EC motors provide a significant advantage over traditional AC motors because of their higher operating efficiency, particularly at part-load conditions, where ventilation systems spend much of their operating life. Rather than running continuously at a fixed speed, EC motors can be precisely adjusted to match the actual ventilation demand within a building, reducing wasted energy and lowering operating costs. This results in improved specific fan power (SFP), a key performance metric considered during the specification process.

Integrated controls further enhance these benefits by enabling demand-controlled ventilation. Through connections to CO_2 sensors, occupancy sensors, temperature controls and building management systems (BMS), fan speeds



can automatically respond to changing building conditions.

Another important advantage is the flexibility these systems provide. EC motors and intelligent controls allow airflow rates to adapt in real time, improving overall system efficiency while maintaining the required ventilation performance.

Unlike conventional arrangements, many EC motors incorporate their own control electronics, reducing installation complexity and improving reliability.

The combination of high-efficiency EC motors and intelligent controls allows ventilation systems to operate only when needed and only at the required output. The result is lower energy consumption, reduced operating costs, improved environmental performance and greater compliance with modern building energy standards.



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"The long-term objective is to keep heat-transfer surfaces clean and maintain the intended flow"

Q: What impact do smart monitoring and automated chemical/non-chemical dosing technologies have on long-term system efficiency and heat exchanger performance?

A: Smart monitoring helps an operator identify deterioration before it becomes a loss of performance or a plant failure. In a closed heating or cooling network, useful information can include differential pressure across filtration equipment, system pressure, flow and temperature, make-up water use and the chemical parameters selected for that system. Trends can reveal a blocked filter, uncontrolled water loss, falling inhibitor concentration or conditions that increase the risk of corrosion.

Where automatic chemical dosing is suitable, it can maintain a defined treatment level or respond to dilution caused by water loss. Non-chemical treatment, including side-stream filtration, magnetic separation, and effective air and dirt removal, can continuously remove or limit contaminants.

The treatment strategy must match the system materials, operating temperatures and water chemistry. Automation without measurement and verification can lead to under-treatment or over-treatment. A saturated or poorly



maintained filter can also add resistance rather than improve performance.

The long-term objective is to keep heat-transfer surfaces clean and maintain the intended flow. Scale, biofilm and corrosion products add thermal resistance, while accumulated debris can restrict waterways and increase pumping demand. Plant may then require longer operating hours, higher temperatures or more electrical input to provide the same output.

Connecting monitoring and alarms to the BMS supports maintenance based on condition. It does not replace commissioning, representative sampling or the planned monitoring and maintenance required by the applicable water-treatment strategy – and competent interpretation of the resulting information.

CIBSE CPD directory

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www.299lighting.co.uk

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www.2-g.com

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www.a1flues.co.uk

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www.ariston.com/en-uk/

Armacell UK Ltd
www.armacell.com/en-GB

Armstrong Fluid Technology
www.armstrongfluidtechnology.com

Arrow Valves Ltd
www.arrowvalves.co.uk

Ascom UK Ltd
www.ascom.com/uk

Aurora Lighting
www.auroralighting.com

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www.baxiheating.co.uk

Belimo Automation UK Limited
www.belimo.co.uk

Biddle Air Systems Ltd
www.biddle-air.co.uk

Bosch Thermotechnology Ltd
www.worcester-bosch.co.uk

BPC Energy Ltd
www.bpc-ups.com

Bray Controls Europe
www.bray.com

Brightwater Environmental Ltd
www.brightwaterenvironmental.co.uk

Bronz-Glow UK Ltd
www.bronz-glow.co.uk

Brooke Air Diffusion
www.brookeair.co.uk

BSB Engineering
www.bsb-dampers.co.uk

Building Controls Industry Association (BCIA)
bcia.co.uk/training

Business Sprinkler Alliance
www.business-sprinkler-alliance.org

Buteline UK
www.buteline.com/uk/uk/home

Caice Acoustic Air Movement Limited
www.caice.co.uk

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www.camfil.com

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www.carrier.com/commercial/en/uk

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www.cranefs.com

Cross Refrigeration (NI) Ltd
https://cross-group.org

Curv 360 Ltd T/A Project Curv-(Project EV)
www.projectcurv.co.uk

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www.daikin.co.uk

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www.daikinapplied.uk

Deif A/S
www.deif.com

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www.delmatic.com

Designplan Lighting Ltd
www.designplan.co.uk

Destratair
www.destratair.co.uk

Dextra Group PLC
www.dextragroup.co.uk

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www.dmsltd.com

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www.dosafil.co.uk

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www.dutypoint.com

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www.eceuk.com

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www.edincare.com

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www.elexion.uk

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www. eltauk.com

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www.enersys.com

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www.edsl.net

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www.enwa.co.uk

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www.euroklimat.it

European Vacuum Drainage Systems
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www.firesafeductwork.co.uk

Flakt Woods t/a Woods Air Movement
www.woodsairmovement.com

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www.flaktgroup.com/uk

Flamefast Controls
www.flamefastcontrols.co.uk

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www.flexej.co.uk

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www.flocontrol.ltd.uk

Fracarro
fracarro.com/en

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www.frenger.co.uk

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www.futuredesigns.co.uk

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www.geberit.co.uk

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www.generalww.com/uk

Geoclima HVAC UK LTD – Munters DCT
go.munters.com/CPD

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www.gfps.com/uk

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www.gewiss.com

GF Building Flow Solutions (Formally Uponor Ltd)
www.uponor.com

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www.glamox.com/en-gb/pbs

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www.global-associates.co.uk

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www.goodlightgroup.org

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www.goodwater.co.uk

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Groupe Atlantic / ACV UK Limited
www.acv.com

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www.guntner.co.uk

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www.hasl.co.uk

Heating Products Limited, T/A Hamworthy Heating
www.hamworthy-heating.com/Training/CPD/CPD-seminars-overview

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www.heliosfans.co.uk

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www.helvar.com

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www.hevasure.com

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www.hoppecke.com

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digitalpower.huawei.com/en

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www.hysopt.com

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www.idealcommercialboilers.com

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www.climatecontrol.imiplc.com

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klima-therm.co.uk

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www.knxuk.org

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www.komfovent.com

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www.ldl.lighting

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www.legrand.co.uk

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www.lg.com/uk

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www.oeelectrics.co.uk/powerconnect-underfloor-power/

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www.aircon.panasonic.eu/GB_en

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www.ups.rehlko.co.uk

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www.safegard.ie

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www.sav-systems.com

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www.schako.uk.com

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www.scolmore.com

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www.securemeters.com

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www.securiton.com

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www.sensing-precision.com

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www.shentongroup.co.uk

Siemens Smart Infrastructure Solutions and Services
www.siemens.co.uk/smart-sustainable-secure

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www.smardt.com

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www.smay.pl/en

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www.sunswitch.com

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www.swegon.com/uk/cpd

SWEP International AB
www.swep.net

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Tamlite Lighting
www.tamlite.co.uk

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www.terasaki.co.uk

Tev Limited
www.tevlimited.com

Thorlux Lighting
www.thorlux.com

Titon Ventilation Systems
www.titon.com

Towelrads (Part of Brickability Group)
www.towelrads.com

Trane UK
https://trane.eu/uk/

Trilux Middle East FZCO
www.trilux.com/gcc

TRT Lighting Ltd
www.trtlighting.co.uk

Turnbull & Scott Ltd
www.turnbull-scott.co.uk

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www.uk-metering.net

Unitherm Heating Systems Ltd.
www.unithermhs.ie

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www.urbis-schreder.com

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www.vaillant.co.uk

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www.vector-airandwater.co.uk

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www.vector-compliance.co.uk

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www.vertiv.com

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www.vexoint.com

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www.frese.eu/en-GB

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www.victaulic.com

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www.weatheritegroup.com/

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www.wilo.co.uk

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https://wint.ai/

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www.wasol.co.uk

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www.xylem.com/en-uk/brands/lowara/

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www.zehnder.co.uk

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www.zemper.com/uk

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www.zencontrol.co.uk/

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www.zetaservices.co.uk

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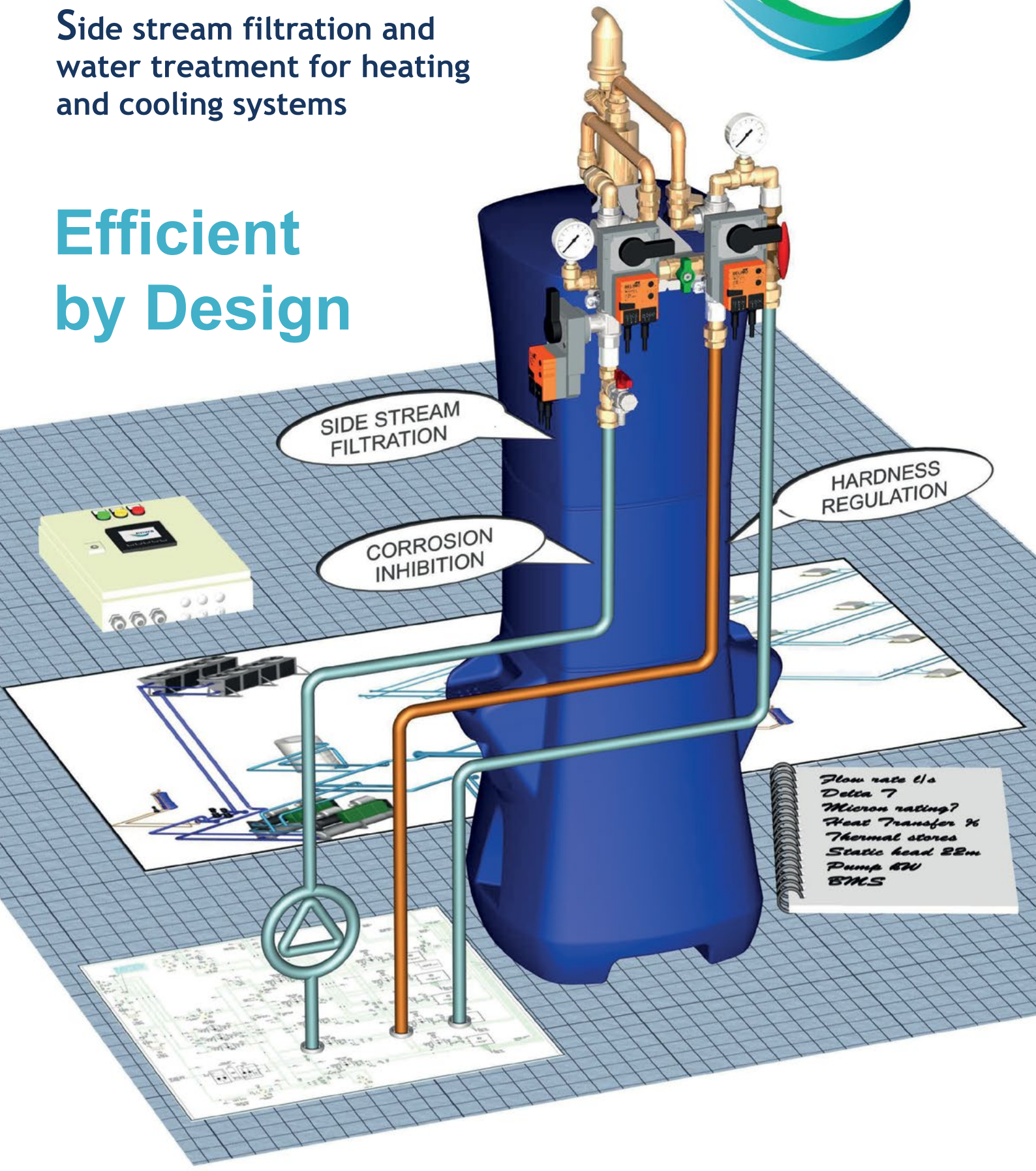
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