Jaga UK

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CPD Overview

ABOUT US

Jaga Climate Designers are pioneers in designing innovative, ecologically sustainable heating, cooling and ventilation systems using less energy and fewer raw materials.

Providing higher outputs with heat pumps and low flow temperature systems, Jaga's energy-efficient compact convector radiators are a key enabler for low-carbon heating in the UK as they can be sized much smaller than traditional steel panel radiators.

They are lighter and smaller than other emitters, using less water and, fewer raw materials and cleaner production methods.

Furthermore, Jaga products last longer, have a 30-year guarantee, and are fully recyclable at the end of their life. Compared to other systems, Jaga radiators score remarkably better in life cycle analysis (LCA) which measures the environmental impact of products.

OUR PROJECTS

In the UK, Jaga works alongside some of the country's best architects, specifiers and designers. Our products can be found everywhere from ground-breaking commercial buildings such as the PWC headquarters in London, to schools, universities, public buildings, retirement villages, and healthcare premises, as well as eco-minded, high-end, residential developments.

OUR PRODUCTS

Strada Hybrid
The revolutionary Strada Hybrid is the emitter of choice for domestic heat pump installations. With innovative Dynamic Boost Hybrid (DBH) technology, this small and sleek radiator not only provides powerful heating at low flow temperatures, but automatically switches between heating and eco-friendly light cooling. A world first for radiators.

Dynamic Boost Hybrid
DBH is a fan set which sits on top of the heat exchanger inside the radiator to increase airflow and can boost heat output by up to 300 per cent. Adding DBH inside your radiator means the physical size of the unit can be smaller than natural convectors and much smaller than steel panel radiators, saving valuable wall and room space.

As well as the Strada, DBH can be fitted inside almost all Jaga Low-H2O radiators to allow them to be even smaller at lower flower temperatures, including our Low Surface Temperature (LST) rads; Tempo, Guardian and Maxi 2020 for schools, care homes and healthcare applications, our freestanding rads such as Mini Freestanding for spaces with large windows where wall-mounting isn't possible, and even our Mini Canal trench heating, also great for spaces with large windows, multi-storey buildings and offices.

DBH can even be retrofitted. So if you want to replace radiators now but you're still working on a higher flow temperature, you can install Jaga's Low-H2O radiators, then when you switch to a heat pump or lower flow temperature system, simply add the DBH inside your radiators to boost the output to where it needs to be to compensate for the change in flow temperature.

Trench Climate Convectors
With high outputs, even at low flow temperatures, Jaga's trench convectors offer a complete climate solution, with the ability to provide heating, light cooling (non-condensing), deep cooling (condensing) and ventilation all from one unit. They can also be used to effectively screen cold air and avoid condensation on large windows, or supply supplementary heat.

Our trench range of climate convectors for heating, heating + cooling, or heating + cooling + ventilation includes:

Fan Convectors & Fan Coil Units
Our Briza fan connector is the market's slimmest hybrid heating and cooling unit, combining sleek design with a near silent dynamic system. This dynamic fan convector is suitable for a range of applications and offers flexible installation; either wall-mounted, in an a recess, built-in or ceiling-mounted.

Briza uses electric commutation (EC) motors for high performing, energy savings and seamless integration with the latest automated building management systems. With a dynamic low water content heat exchanger, the performance is not sacrificed by restricted dimensions.

When paired with a chilled water system (i.e. a heat pump that can supply cooling water), Briza can provide refreshingly light cooling (non-condensing) or powerful
deep cooling (condensing) and has an integrated condensate tray to allow for the water drainage. The heat exchanger is coated in hydrophilic protection to optimise cooling capacity.

Our Briza range for heating + cooling, or heating + cooling + ventilation includes:

Low Surface Temperature (LST) Radiators
Jaga offers the UK's widest range of LST sizes, styles and finishes, with wall-mounted, freestanding and continuous options available to suit your application.
Designed to conform to NHS Estates Health Guidance Notes on surface temperature and casing design, Jaga's LSTs feature a number of safety features: an enclosed heat emitter; bottom grilles; concealed valves and pipework; chamfered corners; and simple locking devices to discourage tampering.

Our LST range of convector radiators for heating, heating + light cooling, or heating + light cooling + ventilation includes:

Available CPD Material (3)

Design and Specification of Trench Climate Convectors

This CPD gives delegates a great introduction to the different types of trench convectors available covering heating, cooling and ventilation for various applications. You will be guided through how they work, how to select the right unit for your space, and how to add value in terms of aesthetics and engineering.

Material type: Online Learning, Seminar

RIBA Core Curriculum: Design, construction and technology

Knowledge level: General Awareness

Ventilation in Schools

This seminar discusses that ventilation systems must:

- Respond to variation in occupancy and ambient temperature
- Be immune to the effects of wind speed and direction
- Be energy efficient
- Comply with regulations
- CO2 is the most practical measure of IAQ to use as a control parameter
- All systems have advantages and disadvantages

Material type: Online Learning, Seminar

RIBA Core Curriculum: Design, construction and technology
Sustainable architecture

Knowledge level: General Awareness

Emitters: Considerations for Low Flow Temperature Heating

New building regulations recommend that when installing heat pumps, the heating system should be designed on a water flow temperature of 45°C to achieve maximum coefficient of performance (COP). In this CPD we will be examining how a heat pump works, what coefficient of performance is, and how water flow temperature effects efficiency. We'll explore the evolution of central heating and what is now common practice today. The issues around retrofitting heat pumps in existing buildings will be explored, as will the associated questions on insulation, air leakage and emitter performance at lower temperature. Emitter types will be covered, detailing how they work and how best they are applied. Cooling will be presented, the difference between air conditioning and thermal comfort, and how some heat emitters can cool too. An overview of controls options will be presented. The final topics will be sustainability, compliance and safety.
By the end of the CPD you should have a greater understanding of:
- The different types of heat emitters available and how they perform at low flow temperature
- The effect a lower Delta T (?T) has on emitter performance
- The issues around switching to low flow temperature heat sources in existing buildings
- How heat pumps work and how low flow temperature impacts on system efficiency
- Government incentives around its net-zero target and the relevant changes to building regulations

Material type:	Online Learning
RIBA Core Curriculum:	Design, construction and technology
Knowledge level:	General Awareness

Classifications

Subject/Product Areas (CI/SfB)

Services
Space heating > Wall, underfloor and ceiling heating

Engineering
Mechanical heating, cooling and refrigeration > Heat emitters
General engineering services > Pipeline ancillaries
Mechanical heating, cooling and refrigeration > Underfloor, ceiling, wall heating

RIBA Core Curriculum areas

Design, construction and technology
Knowledge level: *General Awareness*

Sustainable architecture
Knowledge level: *General Awareness*