

Case Study

The Project:

Police Station, Richard Oakes Road, Aylsham, nr. Norwich, Norfolk

Architects:

Chaplin Farrant

The Heating Solution:

Jaga Strada DBE Radiators

The Detail:

In line with Part L of the Building Regulations, The Norfolk Police Authority has recently initiated a programme of modernisation and refurbishment of over 40 police buildings across the county including Aylsham Police Station. The new £755,000 "green" station, which replaces deteriorating old premises, now serves as an operational deployment base for local officers and will be used as the template for future similar police buildings across the Norfolk Constabulary estate.

At Aylsham, Ecowarm Solar Heating Solutions installed 16 Jaga Strada DBE radiators powered by an air source (wind turbine) heat pump to provide a cost-effective yet environmentally sound heating system. The building is also fitted with solar panels to supply hot water, sun pipes, and a 'living' sedum roof.

It has been widely understood by many in the construction and H&V industries that standard radiator units are incompatible with heat pumps preferring to use underfloor heating instead that can be costly to install (especially in existing buildings) and is always slow in responding to temperature changes. Jaga's Low-H₂O and Dynamic Boost Effect (DBE) technologies have changed this perception by offering normal sized radiators that operate efficiently and offer excellent output even with the comparatively low flow temperatures generated by heat pumps.

Jaga's Low-H₂O technology provides a low mass, low water content solution that achieves superior heating performance over standard radiators. The powerful Low-H₂O element combined with the intelligent DBE control offers powerful, regulated heating with a reaction time that is nine times faster than a standard radiator. More precise control reduces overheating, and Low H₂O has been proven to reduce energy consumption by 10% compared with standard steel panel radiators.

About Jaga:

Part of one of Europe's leading manufacturers of heating systems, Jaga's UK operations were originally established in 1991. Traditionally the company has been best known in the UK for its Low Surface Temperature (LST) radiators, which have proved particularly popular in hospital & healthcare locations and in sheltered housing or other situations where the vulnerable are present.

Jaga is also now actively targeting the social housing, local authority, and private housing sectors with its innovative Low-H₂O range. Jaga's Low-H₂O radiators offer a constant and perfectly controlled output, a reaction speed three times faster than traditional radiators, and an extra energy saving of 10% compared to steel panel radiators.



Strada DBE: Technical Sheet

The Strada DBE radiator is a small, slim-line high-efficiency unit that uses significantly less water than conventional radiators with its Low-H₂O specifications, equating to a 10-15% energy bill saving.

As demonstrated at Aylsham Police Station, the Strada DBE generates high output, even at low flow temperatures such as those generated by heat pumps. Jaga's Dynamic Boost Effect (DBE) technology enables the radiator to rapidly increase heat output through its intelligent automatic control unit. The boost unit uses a minimal amount of electricity and is self-modulating, which means that it only provides the power that is needed to achieve the desired room temperature.

Features include:

- Low-H₂O heat exchanger of pure copper and aluminium totally non-corrosive and comes with a 30 year guarantee
- Rapidly reaches target temperatures due to low mass and low water content
- High heat output achieved with normal and lower flow temperatures
- Surface temperature of the casing stays safe-to-touch even at high flow temperatures
- Casing can be removed for decorating, comes with a 10 year guarantee and can be ordered with optional locks for extra security

Dimensions:

Height: 20cm, 35cm, 50cm
Length: 60cm up to 240cm



Colour Choices:

White RAL 9016 (133) or Sandblast Grey Metallic (001) are available without surcharge.
Other colours are available. Please refer to the Jaga website for a colour chart: www.jaga.co.uk

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