

Modern Building Services: Modular boilers deliver 1 MW from 1 m2 of floor

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Hamworthy Heating's Upton range of floor-standing modular boilers comprises 18 models with outputs from 100 to 1050 kW. They are rated at 6 bar and have a modulation ratio of 5:1 per module. An output of 1 MW can be provided from less than 1 m2 of floor space.

The sectional aluminium-alloy heat exchanger has a low water content; it has exceptional heat-transfer properties and even heat distribution. Modules stack vertically

Pre-mix burners have NOx emissions of less than 40 mg/kWh. Noise levels are less than 60 dB(A).

The Siemens LMS controller provides close control of individual modules and consequently an additional 15 boilers in a cascade or unison formation.

Upton boilers are delivered fully assembled and have an air-inlet filter to maintain particle-free air for clean combustion.

Condensate traps connect from each boiler to simplify pipework and servicing.

The combustion analyser is at the front of the boiler for ease of access during maintenance.

Optional pipework kits are designed with the complete solution in mind. They can be installed before boilers are put into place and come with features such as a connection for pressurisation units and flushing points. All dirt is collected in one spot and can be easily flushed from the pipe kit.

Along with an integrated non-return valve to prevent combustion gases entering non-firing boilers, these kits facilitate cascade arrangements for installations up to 4.2 kW.

There is also a low-loss header with integrated air and dirt separator specifically designed for the Upton boiler.

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