

Mandeville Primary School, London

Products

- Wessex ModuMax boilers
- Dorchester DR-FC water heaters
- Pressurisation unit & expansion vessel
- Cascade controller

Sector

- Education

Building

- Primary school
- Refurbishment

Application

- Space heating 660kW
- Modular boilers
- Hot water 1872 litres/hour
- Direct fired DHW



Mandeville Primary School in the London Borough of Hackney



Hamworthy Wessex ModuMax modular boilers

When boilers and water heaters in the plant room at Mandeville Primary School were in need of updating, the Learning Trust, which manages the school for the London Borough of Hackney, engaged consultants Ingleton Wood to come up with a design. They called on Hamworthy Heating to greatly improve the heating and hot water system by installing two Dorchester DR-FC condensing water heaters and a new Wessex ModuMax 220/660 gas fired, high efficiency modular boiler; all installed by Regency Building Services.

Our Solution

Ron Warrington from the consultants specified the Hamworthy products for the plant room:

“It was a replacement application and Hamworthy’s Wessex ModuMax fitted the space restrictions for the boilers whilst giving the performance and output the school required,” he said.

“The Dorchester water heaters provided the right supply and storage, plus we could fit two in - a real bonus - and

the flue arrangement for the system was advantageous as well.”

The two Dorchester DR-FC 45 condensing water heaters supply a continuous output of 1,872 litres per hour and have a combined storage capacity of 772 litres, which is sufficient to meet the domestic hot water needs of the school’s classroom, kitchen, staff rooms, changing rooms, showers and bathrooms. Heating for the school is supplied via a low pressure system through existing radiators and fan coil units.

Wessex ModuMax boilers have an impressively small footprint and can provide almost 1MW of output per square metre, creating enough space for two Dorchester water heaters to be installed.

The Dorchester condensing water heater range consists of 7 models with continuous outputs from 596 to 2333 litres per hour, based on a 44°C temperature rise and storage capacities range from 227 - 504 litres. The DR-FC Evo range offers up to 107% seasonal efficiency, low noise, low NOx and high outputs.



Saving space with Hamworthy boilers allowed two water heaters to be installed