

## Nebula Court, London

### Products

- ModuSol solar package
- Powerstock calorifiers
- Purewell VariHeat boilers
- Boiler sequencing cascade controller
- Chesil pressurisation unit & expansion vessel

### Sector

- Affordable housing
- Community heating

### Building

- Dwellings
- New build

### Application

- Space heating and hot water 540kW



57 housing association and shared ownership dwellings



Hamworthy solar collectors at work

A new development in Plaistow, East London, is setting the trend for renewable energy in community housing, with the installation of 63 ModuSol solar collectors from Hamworthy Heating.

Ecogale Services Ltd, the M&E contractors for the project, chose Hamworthy Heating's products because they provide a space saving solution whilst significantly reducing the building's carbon footprint.

## Our Solution

Through Hamworthy's Technology Partner Programme, the solar collectors were installed by one of its approved installers, Natural Power Wales: "I'm confident that Plaistow has made the right choice for its heating and hot water system," says Lloyd Reed, technical director, Natural Power Wales. "Being environmentally green is a big issue for councils now, and the choice of Hamworthy's ModuSol solar hot water system for this site will certainly back that up."

Solar energy is absorbed using the high efficiency solar collectors and solar arrays are used to provide pre-heated feed water via six Hamworthy Powerstock PS 1000 twin coil calorifiers. The solar collectors are complemented by three Purewell VariHeat 180kW gas fired condensing boilers, including a boiler sequencing cascade controller, to supply heating and top up for the hot water to meet peak demand.

Purewell VariHeat condensing boilers achieve European Class 5 performance for low NOx and exceed Building Regulations requirements, with efficiencies up to 108% nett.

Operating as a fully pumped system, risers from the basement plant room supply heat via branches at each level, each connecting a number of apartments via an hydraulic interface unit in each dwelling. This acts in a similar way to a combination boiler but without the gas, managing hot water and heat as required, reducing significantly the energy input, contributing to the carbon reduction commitment with the added benefit of providing individual billing for residents. The complete system exemplifies Hamworthy's ability to optimise design, based on the requirements of an individual project. It will ensure that Nebula Court's heating and hot water requirements are as up-to-date and environmentally friendly as possible.



*Purewell VariHeat boilers achieve excellent efficiencies and performance*