

**ANDREWS CONDENSING UNITS ACCOMMODATE ENERGY SAVINGS  
AT THE UNIVERSITY OF EXETER**



Six Andrews new Maxxflo condensing storage water heaters have been installed in various locations on the Streatham Campus of the University of Exeter. They join numerous other Andrews water heating and boiler installations already operational on-site, selected from this leading specialist's comprehensive range. These include R300 Supa-Heat boilers, R300 Supa-Flo instantaneous high efficiency water heaters, CSC storage water heaters with fan assisted balanced flue and the WSC compact wall-mounted continuous flow water heater.



### **University of Exeter – Plant Room**

The University of Exeter is the largest centre for extra-mural studies in the South-West of England, comprising three campuses. There are some 4,000 catered and self-catered student accommodation places provided in purpose-built flats and houses either on-campus or close by. Well in excess of £100 million is being invested in new facilities, a proportion being allocated to refurbishment of existing accommodation and amenities. This includes replacement of heating and hot water services for which the Andrews units have been specified.

This institution places great importance on environmental considerations when allocating these investment resources. Hence, when the first services

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plant was replaced under this programme approximately 5 years ago, well ahead of the last revisions to Part L2 of the Building Regulations, the University Estates Department adopted the energy saving principles of separating and decentralising the heating and hot water loads.

Andrews R300 Series boilers and direct gas-fired instantaneous water heaters or storage water heaters can fully exploit the savings potential of a decentralised system. Using condensing technology, the R300 and MaxxFlo units recoup the energy from combustion gases, which conventional systems release into the atmosphere.

R300 Supa-Heat boilers were specified in the sports hall and five accommodation blocks, together with Supa-Flo instantaneous water heaters in the largest building, replacing traditional space heating boilers linked to large hot water calorifiers. In three of the other four residential buildings and the sports hall, the new Maxxflo condensing storage water heaters were used. The one-off non-condensing CSC balanced flue storage water heater was a straight replacement for a malfunctioning unit of another make. In the laundry, the compact WSC44 is mounted on an internal wall, saving floor space and minimising running costs by supplying a constant flow of hot water only as needed.

The R300 units fire only on demand, saving on fuel consumption and energy losses are further minimised by a rapid response premix modulating burner.

This achieves a nett efficiency of 104%, in addition to effectively reducing emissions of No<sub>x</sub>, CO and CO<sub>2</sub> The R300 system becomes even more efficient under part load, noise levels of individual units is a very low 50-dB(A) and the range offers nominal outputs from 70kW to 275kW.

The Maxxflo range of condensing storage water heaters has tank options of 200 and 300 litres capacity and is available in eight sizes from 30 to 120kW. The high efficiency stainless steel heat exchangers, premix modulating gas burners and stainless steel tank design allow the heater to generate hot water in the condensing mode up to 80% of the tank volume, producing a nett efficiency of 109%. Maxxflo units have a small footprint and offer multiple flue options for ease of siting.

All recently installed Andrews appliances have been interfaced with the Satchwell BAS system. ..../ENDS

