

Danielle Brown Sports Centre, University of Leicester



Client Brief

The clients design and specification called for the refurbishment of the plantroom by replacing the existing gas fired boilers with two new LTHW Broag Eco 310 Condensing Boilers each providing 717kW.

Additionally, a Broag R-Gen CHP unit was also specified providing 25/20 kWe (electrical output) and 38kWth (heat output).

As part of the installation the pipework, plate heat exchanger, circulation pumps, pressurisation unit and BMS controls were also upgraded/replaced to provide a complete refurbishment.

Process

Acting as principle contractor, the project was managed and installed by our specialist team who have many years' experience working in the education sector and on refurbishment projects enabling us to advise the client on the best approach to install the project.

Taking the design intent, our in-house design department quickly turned around detailed and accurate working drawings using Autodesk Revit which allowed us to order materials accurately and eliminate any installation errors.

Challenges

Maintaining the heating and domestic hot water system for the building was a requirement during the refurbishment works. To achieve this we installed a temporary containerised boiler, gas and heating pipework.

The Installation of any CHP unit requires planning and the necessary G59 application to the local DNO (district network operator) for approval, testing and certification before connection to network and export of surplus electricity back to the grid. The application was fully co-ordinated by our Project Engineers on the client's behalf making it a seamless transition from installation to commissioning.

Handover

The clients plant room was completely refurbished to a high standard with new plant and without any down time to the services. Installing energy efficient boilers, pumps and CHP unit the client can expect to see utility bills greatly reduced for the building in the future.

'Acorn have done a fantastic installation job'
Mike Hefford, Remeha Product Application Manager



Client

University of Leicester

Project

Danielle Brown Sport Centre,
Plant Room Refurbishment

Value

£231K

Services

Supply, installation, testing
and commissioning of Gas
Fired Boilers, CHP, Pipework,
Flue, Plate Heat Exchangers,
Pressurisation Unit, Ventilation
and BMS Controls.