

CASE STUDY 28

Client: Bosch
End User: East Riding County Council
Project: CHP System Installation
Products: CHP, Thermal Store, Pumps & Ancillaries
Date: August 2015

Project Description

Arbe won a contract for designing and installing a gas fired CHP (combined heat and power) system. The install had to take into account that the CHP was replacing an existing system that had not worked correctly, so we were tasked to carry out a design that would ensure the system would operate fully and at it's most efficient. The CHP was rated at 70 kW_e electrical output and 105 kW_{th} thermal output.

As part of our remit, Arbe supplied an AF2500 thermal store, which was piped into the CHP unit. From the thermal store, we then integrated the CHP into the existing heating system in the boiler return line, ensuring maximum thermal benefit from the CHP unit. The CHP and thermal store were at a minimum so the design had to encompass all of the equipment and connect to the existing CHP & system pipework in the most efficient way possible, ensuring access and maintenance were easily achieved.

We also supplied an control panel to ensure that the system only provided heat when it was viable to do so, operating the main system pump on a duty/standby basis. The CHP unit was also connected to the Leisure Centre main electrical sub-station ready for the G59 connection and testing

The CHP was fitted with the air ducting and a bespoke flue was installed as part of our remit

