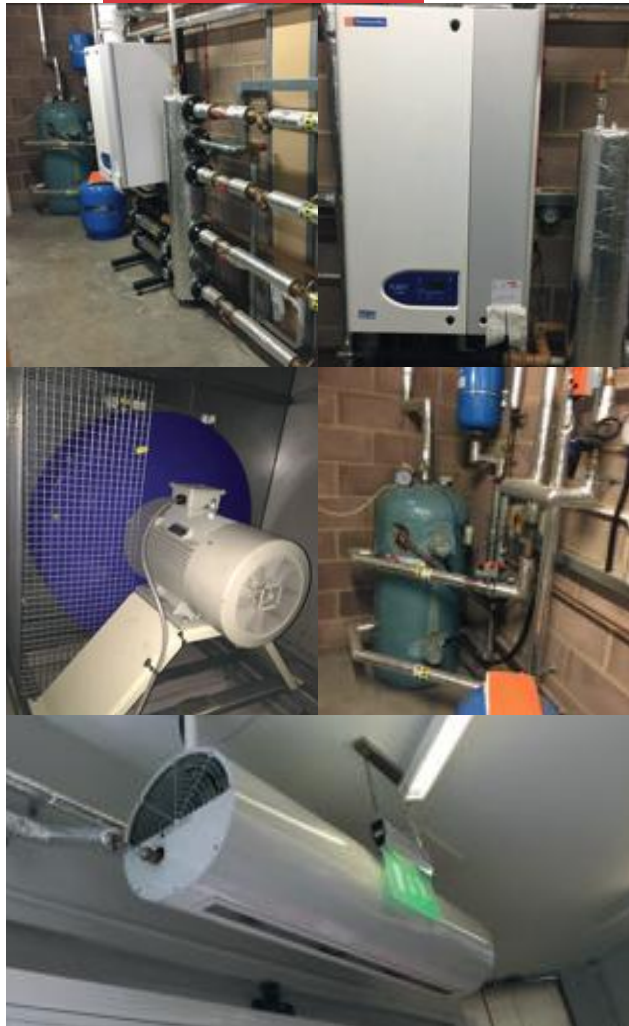Queen Street, Cardiff: Boiler Installation

Cardiff retailer looks to reduce energy consumption

mercury

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1 CLIENT BRIEF

Following a thorough energy assessment of a large store in Queen Street, Cardiff, ETS recommended and specified the deployment of an efficient HVAC system. The client brief that stated they wanted to achieve a 10% reduction in their annual energy usage and aim for return on investment in four years. ETS appointed Mercury to install and commission the proposed system.

2 OUR SOLUTION

Mercury attended the site to completed an intrusive survey. After finding various electrical heaters, in use we were able to offer the following proposal to meet the client brief.

New Hamworthy 100kW gas fired boiler system to feed the following:

1 x Bakery Calorifier with indirect coil
(existing tank was heated direct of immersion heaters)

1 x Domestic Calorifier with indirect coil
(existing tank was heated direct of immersion heaters)

2 x Door curtains
(Remove electric heaters banks & retrofit LPHW coils)

During the inspection, the main AHU supply fan and 18.5kW motor was found to be in a state of disrepair. It was suggested to the client to install a 15kW direct drive AC 'plug' fan that performs the same air volume and pressure duties as the previous unit but reducing energy consumption by 10-15%

3 PROJECT RESULT

ETS acted as clerk of works on behalf of the end user to sign off the work and verify the performance of the system. An increased awareness of commercial energy consumption in the retail industry will result in more projects of its type in the future. The installation proved to be more reliable, and maintenance friendly than first thought, saving costs in maintenance and call outs which meant we were left with a satisfied store manager.

For enquiries or more information get in touch today

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