HEATBANK® PANDORA — Thermal Store

Case Study: Queensland Road, Islington

The Queensland Road development, alongside the Emirates Stadium, required 350 thermal stores to run from a centralised boiler plant. The HEATBANK PANDORA was the obvious solution.

Hot water storage was a requirement from the outset. Simply to ensure that systems have electric backup and occupants can never be left without hot water. Furthermore, systems were required with no discharge pipes and low return temperatures to the central boiler plant - neither were achievable with normal storage technologies.

The HEABANK PANDORA DISTRICT uses a plate heat exchanger input to obtain low return temperatures and a patented feed and venting system to overcome the need for any discharges. The enire system was WRAS approved for this contract and the development has been running for almost four years.

Case Study: Oxford Brookes University

Oxford Brookes University made use of our HEATBANK PANDORA to provide distributed storage from a central CHP plant, with each store delivering domestic hot water to eight accommodation units.

The Pandora was selected as it provided a perfect solution with no discharge pipes and instantaneous mains hot water to overcome Legionella issues.

The CHP plant required return temperatures of 60C or below, while the client required DHW secondary return circuits fed from each store to remain at 60C. The design uses very close approach heat exchangers so that the return to the boiler can be kept at or below 60C. The DHW temperatures stay above 55C at all times, rising to 60C every few minutes.