

HEATWEB

CASE STUDY · HEAT NETWORKS & COMMERCIAL

Queensland Road, Highbury

354 Heat Banks for affordable homes

AT A GLANCE

DEVELOPER
Newton Housing, in partnership with Arsenal FC and Islington Council

CONTRACTOR
Kier

LOCATION
Queensland Road, Emirates Stadium, Highbury

HOMES
354, affordable rent and shared ownership

SYSTEM
Customised Pandora Heat Bank thermal stores on a central CHP boiler system

HEATWEB SERVICES
Product development, test rig demonstration, WRAS approval, supply

Queensland Road is the biggest single development project in the Arsenal Regeneration Area. We developed a customised, slimline Pandora Heat Bank thermal store with twin heat exchangers, and supplied 354 fully approved, pre-fabricated systems connected to a central CHP boiler system.

The challenge

Queensland Road is the final housing phase of the Arsenal Regeneration Area, where Newton Housing is building more than 1,400 affordable homes, with 1,100 already completed and occupied. Under the Queensland Road contract Kier constructed 354 homes.

Each home needed hot water and central heating from a central CHP boiler system, with energy consumption metered and reported by a third-party billing system, using a unit built to the client's requirements.

What we did

- Developed a customised version of the Pandora Heat Bank thermal store, fitted with twin heat exchangers for efficient heat transfer.
- Provided 150 litres of stored primary water with electric backup to both hot water and central heating.
- Demonstrated the system to the client on a monitored test rig to ensure compliance with all requirements, then applied for WRAS approval.
- Supplied every unit fully pre-fabricated with all the system controls.

What we found

- A slimline version of the Pandora suited the homes, with twin heat exchangers for efficient heat transfer.
- Supplying the Heat Banks pre-fabricated with all system controls allowed rapid installation to pipework.
- The Heat Banks are unique in that they overcome the need for any discharge pipes in the properties.



The slimline Pandora Heat Bank supplied for Queensland Road.

354
fully approved Heat Bank systems supplied

150 L
stored primary water in each unit, with electric backup

1,400+
affordable homes in the Arsenal Regeneration Area

The outcome

- 354 fully approved systems supplied, installed and operating as expected.
- The Heat Banks connect to the central CHP boiler system, with energy consumption metered and reported by a third-party billing system.
- An Operation and Maintenance Manual for the slimline Pandora is available from the full case study.

About Heatweb. Heatweb Solutions is a UK provider of engineering support for heat networks and commercial HVAC: monitoring, fault diagnostics, technical compliance, optimisation, commissioning and maintenance.

Talk to an engineer

The full case study: www.heatweb.co.uk/blog/case-study/queensland-road-emirates-stadium-highbury/

0345 241 1441
enquiries@heatweb.co.uk
www.heatweb.co.uk