

DISTRICT HEATING SERVING BRANDON ESTATE

Properties on the Brandon Estate served by the Brandon Estate boiler house on Otto Street SE5:

- Cooks Road 103-107
- Maddock Way 9-15
- Maddock Way 16-34
- Molesworth House 1-58
- Brandon Library
- Morton House 1-39
- Napier House 1-36
- Bateman House 1-68
- Brawne House 1-68
- Cornish House 1-68
- Cruden House 1-68
- Prescott House 1-68
- Walters House 1-68

The boiler house on Otto Street supplies LTHW (Low Temperature Hot Water) via a two pipe primary flow and return system to nine plantrooms across the estate. The plantrooms (known as Napier, Prescott, Cruden, Brawne, Morton, Cornish, Bateman, Walters and Maddock Way) in turn supply both heating and hot water to the blocks. The primary LTHW two pipe distribution pipework emanates from the boiler house and runs underground to the various plantrooms. Each plantroom (with the exception of Napier) has a plate heat exchanger to provide hydraulic separation between the primary network, and the secondary network downstream of the plantroom supplying the blocks. At the plantroom the system splits into two circuits; one CT (constant Temperature) primary circuit to supply the hot water storage cylinders in each property, and one VT (variable temperature) secondary heating circuit to supply the radiators. All nine plantrooms were completely refurbished in 2019.

Properties on the Brandon Estate served from the Wyndham Estate district heating system:

The boiler house on Wyndham Road supplies primary LTHW (Low Temperature Hot Water) via a two pipe flow and return system directly to each block. The system is split into three zones; East, South and West, with the West Zone supplying some of the properties on Wyndham and the properties on Brandon listed below:

- Andrews Walk 1-31
- Chalmers Walk 1-20
- Copley Close 1-5

- John Ruskin Street 110-124
- Hillingdon Street 143-151
- Grimsel Path 2-19
- Grimsel Path 20-29
- Grimsel Path 30-45
- Hanworth House 1-140
- Kirwyn Way 1-8
- Kirwyn Way 9-38
- Trevelyan House 1-12, 20-33 & 42-56
- Trevelyan House 13-19, 34-41 & 56-63
- Dale road 1-6

The three zones emanate separately from the boiler house and each have a dedicated pumping arrangement. The west zone (which supplies Brandon) is the largest of the three zones. The pipework leaves the boiler house, runs underground and is connected directly to all the blocks it serves (listed above plus some of Wyndham). There are no plantrooms on this system, all blocks are connected directly (via the three separate zones) to the boiler house. The primary two pipe flow and return splits inside each property to serve both the hot water cylinder (or thermal store where fitted), and radiators. This is a CT (constant temperature) circuit and as such the heating cannot be compensated to outside air temperature and has to remain on all year round in order to provide hot water.