

Low NOx Product Specification and Dry NOx Emissions Details

Condition 54 | HGY/2017/3117

The original outline planning consent HGY/2017/3117 permitted the construction of an energy centre to serve a site-wide heat network.

The energy centre is located in Block A4 (Phase 2) and is complete and fully operational. The location of the energy centre was positioned to where the density of the development is greatest and where geography is preferable. The site-wide heat network is supplied by a Combined Heat and Power (CHP) engine providing consistent heat whilst generating low carbon electricity. High efficient gas boilers provide for seasonal changes in space heating.

The CHP and all boilers are located within the energy centre within the completed Block A4. There are no other boilers anywhere else on the development. There are no boilers or heating plant proposed within Blocks D1-D4 or E1-E3. Please refer to the below boiler schedule, *Hoval UltraGas Boiler Datasheet* and drawing *W250-HME-AB-00-DR-M-50-1502 - Energy Centre* for the energy centre layout within A4.

REF	MANUFACTURER		MODEL	BOILER OUTPUT		DIMENSIONS (HxWxD)	FUEL FLOW RATE	DESIGN WATER FLOW RATE
[kW]	[mm]			[m ³ /hr]			[l/s]	
B/01	Hoval 2300D	UltrGas	2300D	2248		2139x3120x1703	201.04	18.34
B/02	Hoval 2300D	UltrGas	2300D	2248		2139x3120x1703	201.04	18.34
B/03	Hoval 2300D	UltrGas	2300D	2248		2139x3120x1703	201.04	18.34
B/04	Hoval 2300D	UltrGas	2300D	2248		2139x3120x1703	201.04	18.34

An indicative route for the LTHW pipework is indicated on drawing *W250-CHA-SW-B1-DR-MEP-58-6701*. The LTHW connection extends from Block A4 to Phase 3 basement and into each building core. The flow and return connection to the heat network for all of phase 3, including blocks E1, E2 and E3 occurs in Mary Neuner Road and extends from the western side of the energy centre as indicated on drawing *W250-HME-AB-00-DR-M-50-1502 - Energy Centre*. The Phase 3 LTHW schematic has been provided to indicate the LTHW connection, please refer to drawing *W258-FRC-EE-XX-SM-M-56-0001[C1]*.

