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HEATING

COMMERCIAL



POD HIUS & EVOMAX 2 BOILERS

ASH VIEW EXTRA CARE HOUSING,
HUDDERSFIELD

CASE STUDY



POD HIU easily fits into a kitchen cupboard or utility space.



TAKING **EXTRA CARE** WITH HEAT NETWORKS

Ash View Extra Care facility is a new development for Kirklees Council of 50 one and two bedroom flats located in Huddersfield.

Extra Care housing is a type of specialist housing designed to maintain the independence of older people who have care and/or support needs. The housing consists of self-contained flats with adapted design features, and care and onsite support services – including 24 hour access to emergency support if needed – to enable independent living.

Heating of the flats and communal areas, along with hot water, has been provided through a communal heat network. As with

all heat networks, it consists of three main elements: the energy centre which generates the heat for the primary water that is distributed around the system; the pipework that distributes the primary water to end users; and Heat Interface Units (HIU) that transfer heat from the primary distribution network to the end-user's heating system or generates instantaneous hot water.

TRIED, TESTED & EFFICIENT

Ideal Heating Commercial has supplied four Evomax 2 100kW wall-mounted boilers operating in cascade on a standard height frame and header kit as the energy centre at Ash View Extra Care, and



400kW output delivered in a cascade.

CASE STUDY FACTS: LOCATION: HUDDERSFIELD | **BUILDING TYPE:** SPECIALIST CARE HOUSING

EQUIPMENT: 50 POD INDIRECT I305 HEAT INTERFACE UNITS WITH FIRST FIX KITS &

4 EVOMAX 2 100KW CONDENSING BOILERS IN CASCADE ON A STANDARD HEIGHT STANDARD FRAME AND HEADER KIT

50 POD HIUs with first fix kits and factory fitted hard wired Mbus heat meters.

Evomax 2 is the UK's number 1 selling wall hung commercial boiler, proven in thousands of applications across the UK. Highly efficient, it has up to 99.6% full load efficiency and up to 110% part load efficiency, can operate at up to 30° Δ T, and boasts a high turndown of 5:1. The four Evomax 2 boilers at Ash View Extra Care are running in cascade for an energy efficient solution as the cascade can turn down to accurately match any load from 400 - 20kW (20:1). This method also increases the proportion of time where the boilers are modulating at part load, instead of cycling on and off, to satisfy the changing demands of the network over a day.

The PODs installed in each of the self-contained flats at Ash View Extra Care are indirect i305 HIUs, meaning they contain two highly efficient stainless steel brazed plate heat exchangers to provide complete separation between the heat network for both heating and hot water. For users, the POD HIU is reassuring in its familiarity, looking just like a domestic combi boiler from the outside and with similar controls, but instead of burning gas it uses heat exchangers to transfer thermal energy from the distribution network. Its small footprint and compact overall envelope mean it can readily fit in a kitchen or airing cupboard or existing utility area. As well as being energy efficient, a key benefit of employing a

heat network at a facility such as Ash View Extra Care is safety as there are no flue routes or gas connections to accommodate within the premises.

TAKING A FIRST STEP

Heat networks aren't new – many apartment blocks were fitted with them in the 1970s – but only in recent years has the installation of them taken off thanks, in part, to the government setting a target to supply heat to 20% of homes through heat networks by 2050.

V&T (Plumbing & Heating Services) Ltd. were contracted to install the heating system at Ash View Extra Care via Equans the Principal Contractor. Based in Barnsley, South Yorkshire, and serving customers across the region, V&T applied their many years of experience in heating services to research heat networks and provide Kirklees Council with a design and specification for an efficient heat network that comprehensively met their needs using Ideal Heating Commercial products.

V&T install hundreds of Ideal Heating domestic boilers each year and had no hesitation in choosing its commercial products for this project based on past performance and back up support received.

“Our past experience of working with Ideal boilers had an impact on selection, especially with the aftercare service provided” comments Tom Crawford, Design Engineer at V&T. *“When we were looking at which HIUs / boilers to propose for the scheme, we looked at the commercial range offered by Ideal and decided to go with both the POD and Evomax 2 as they both met our criteria. It also made sense to stick with one manufacturer.”*



The POD HIUs have been fitted with first fix kits and factory fitted hard wired Mbus heat meters.

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Made in the UK



Free commissioning



BIM

EASY TO INSTALL

Tom has been pleased with the outcome: *"Our engineers on site had no issues installing the POD HIUs and found them very similar to the Ideal domestic combi boilers."* POD HIUs have been specifically designed for hassle-free installation, with a first fix kit available which can be delivered and installed ahead of the POD unit so all services can be piped up, filled, flushed, and tested in advance. *"The engineers also found installing the Evomax 2s, mounting frames and header arrangement easy; these were fitted in a matter of hours."*

IMPRESSIVE PERFORMANCE

"From a personal point of view designing a system always leads to some apprehension at the commissioning stage but once operational tests commenced we were suitably impressed with the PODs heating and hot water performance to each apartment. The Evomax 2 boilers get the system to temperature relatively quickly and I was surprised as to how quiet they were in operation, even when all four boilers were running in full load conditions during their commission." states Tom.

V&T benefited from Ideal Heating Commercial's free commissioning service on the Evomax 2. Using this service, there are not only time and cost savings to be had but commissioning carried out by an Ideal Heating engineer ensures that the boiler is operating correctly before it is put into service. Furthermore, when commissioned by Ideal Heating Commercial within three months of the installation date, a five year warranty is automatically applied to the appliance at no extra cost.

"The engineer who attended was very helpful and accommodating" comments Tom on the commissioning process.

PROVIDING SUPPORT

Good quality product has to come with equally good support and Tom has plenty of praise for both: *"From our initial enquiry to Ideal for the PODs and Evomax 2s, Charlie Mowbray [Ideal Heating Commercial Senior Product Manager] got in touch and provided really useful guidance and information on the Ideal products and heat networks in general to assist with system design for the building. He invited us to come into the training centre at Leeds to demonstrate the POD which was really useful at that time as works had commenced on site."*

"The engineers found installing the Evomax 2 boilers on the frame and header arrangement easy; these were fitted in a matter of hours."

We also attended the POD and Evomax 2 training courses provided by the Expert Academy training team which were really informative."

At Ideal Heating Commercial, we see hundreds of installations and Charlie Mowbray is full of praise for the work done by V&T at Ash View Extra Care: *"We have been supporting Tom and V&T from their initial enquiry, right up to commissioning on the appliances. V&T have done an excellent job. The plant room is well laid out and spacious, with boilers piped up to a buffer that has connections laid out in line with CIBSE CPI guidance, insulation across the network was fitted to a high standard and the install of the POD HIUs in the flats looks very professional."*

SUPPORT AND CONTACTS

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IDEAL HEATING COMMERCIAL PRODUCTS

Sales, orders, availability, literature and pricing

T: 03330 040 393

E: commercial@idealheating.com

Calls cost no more than calls to geographic numbers (01 or 02) and will be included in any inclusive minutes you have with your telephone service provider.