

CITUClimate Innovation District
LEEDS

Enhancing Sustainable Living in Leeds with Heat Pump Technology

Ariston U.K. has supplied CITU with the first of many air source heat pump water heaters for a range of new build properties designed and built in line with key passivhaus principles.

Project overview

The Climate Innovation District in Leeds is a transformational project as part of a new neighbourhood in the Hunslet Riverside area of South Bank. It creates 955 family homes and apartments, alongside a multigenerational building incorporating a primary school, a care home and a nursery, offices, cafes, restaurants, and outdoor sports facilities. Being designed and built to key passivhaus principles means these properties are very well insulated and airtight. All the properties are also linked up to a site-wide photovoltaic (PV) installation, so all properties share in the generation of electricity on site.

KEY DATA

Client:	CITU
Sector:	Housing
Project:	955 houses and apartments
Year:	2024
Technology:	Heat pump water heaters
Product:	NUOS Plus Wi-Fi

Comment

“The cylinder in the NUOS Plus Wif-Fi air source heat pump is large enough to support a family home, and the ventilation needs for it can coordinate with those needed for the mechanical ventilation heat recovery system.

We have installed these in several homes now and they are fit for purpose so we will continue to install them in the Climate Innovation District. ”

Rachel Luffman,
Head of Design



Installation

The innovative NUOS Plus Wi-Fi water heaters will be installed in all of the larger residential properties. CITU uses a Mechanical Ventilation Heat Recovery (MVHR) unit to keep the internal air fresh, but warm. The air source heat pump (ASHP) in the NUOS Plus Wi-Fi is used to heat the integrated hot water cylinder for the property, so hot water for baths and showers is heated using the air outside, and boosted by electricity as required.

What are the benefits?

One of the key benefits in using Ariston's NUOS Plus Wi-Fi is the substantial reduction in carbon emissions associated with heat pump water heating technology. With the ASHP water heater operating on renewable energy, it aligns with the commitment from Leeds to combat climate change and create sustainable living environments and showcases the viability of this technology in a real-world, sustainable living context.



Featured product:

NUOS PLUS WI-FI

The Nuos Plus Wi-Fi air source heat pump water heater is the ideal solution for energy efficient hot water requirements with renewable technology. It ensures up to 80% energy saving compared to traditional electric storage water heaters and allows for temperatures of up to 62°C with the most efficient COP in the market of up to 3.14.

- / A+ energy rating
- / Optional smartphone control via Ariston NET app
- / Anti-legionella & anti-freezing functions
- / 'Plug & Play' - No F-Gas qualification needed
- / Super silent at 51dB in silent mode
- / Fully compliant with KIWA regulations



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Customer Service: customer.service.uk@ariston.com | 0333 240 8777

Sales: salesoffice@ariston.com | 0333 240 6666