



Experience Better Living.



Edel Hot Water Heat Pump

Comfort without compromise



www.dimplex.co.uk

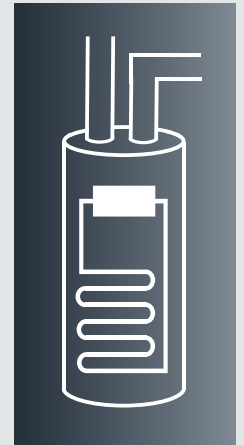
Edel Hot Water Heat Pump

Edel is a high-performance hot water heat pump from Dimplex which puts heat pump technology, and the associated energy and carbon savings, within reach of all new build and refurbishment projects. Manufactured in the UK, the Edel hot water heat pump has industry-leading efficiency and acoustic performance to deliver comfort without compromise for building developers, owners and occupiers.

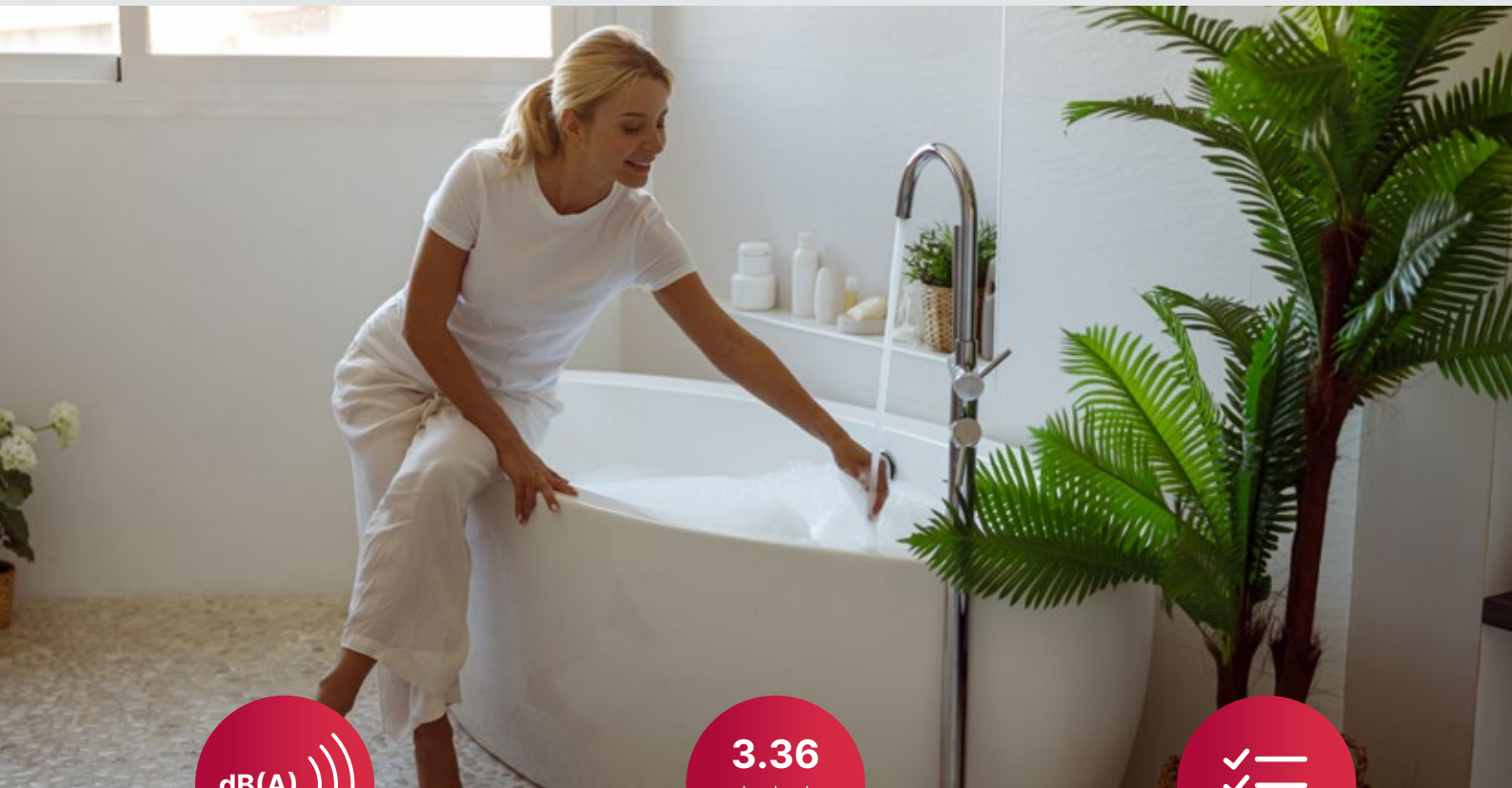
Edel consists of an energy-efficient air-to-water heat pump mounted above a stainless-steel water tank to provide hot water in the most energy efficient way possible. Edel hot water heat pumps are installed inside the property with air ducted to the outside meaning no external equipment is required to take advantage of heat pump technology. Edel has a coefficient of performance (CoP) of up to 3.36, meaning for every 1kW of electricity consumed up to 3.36kW of heat are produced. This means Edel's efficiency is 346% greater than even the most energy efficient gas boiler and is the most efficient hot water heat pump on the market

A wide flexibility of ducting and siting options make Edel an easy-to-install and cost-effective solution for reducing carbon emissions in buildings. It can be used to reduce the load on fossil fuel boilers or to eliminate fossil fuel use completely, when integrated as a hybrid solution with electric space heating.

With a choice of three tank sizes 170, 200 and 270 litres, Edel hot water heat pumps can provide ample hot water with intuitive user controls and full integration with the Dimplex Control App.



Scan the QR code to find out more
or contact us on **0344 879 3586**
pre-sales@glendimplex.com



The quietest hot water heat pump on the market, Edel delivers hot water comfort with the minimum noise impact for occupiers.



With a coefficient of performance of up to 3.36, Edel has unmatched efficiency for low-cost, low-carbon hot water production.



Edel is listed in SAP Appendix Q and can be used to achieve compliance with Part L of the Building Regulations, as modelled in SAP 10.2

CASE STUDY

Dimplex Edel helps **Project 80** become the first social housing development built to the Future Homes Standard



Social housing provider, Midland Heart Ltd, took advantage of the highly efficient Edel hot water heat pump in their Project 80 development, built to the Future Homes Standard. The pioneering multiphase development is a 100% affordable rent project and incorporates a host of innovative building products and technologies.

Dimplex were tasked with a space and water heating solution for two-bedroom, two-storey homes which were required to be fully electric whilst meeting the stringent criteria of the Future Homes Standard. The specification featured Edel hot water heat pumps alongside direct-acting panel heaters.

The high-performance building fabric saw the external wall U-values improved and superior double-glazed units employed to minimise heat losses. This means that the highest energy demand service domestic hot water. The high coefficient of performance (COP) of over 3.36 ensured the 200 litre Edel hot water heat pumps could meet that demand and were easily installed into the standard service cupboard. The Dimplex panel heaters were then installed to provide space heating with relatively low energy demand in such highly insulated properties.

Tony Hopkins, Head of Construction and Quality at Midland Heart, explains the rationale behind the Dimplex Edel-based solution specification:

“We were looking at the most user-friendly way to deliver to regulations. This fully electric heat and hot water solution by Dimplex can deliver 80% CO2 reductions. We are keen to learn how residents get on with these technologies.”

Dimplex®



Edel has an easy-to-use user interface and can be programmed and managed remotely through the Dimplex Control App.



Edel is perfectly suited to a hybrid electric heating solution and can be paired with panel heaters in a range of styles to suit any project.



Edel is the only hot water heat pump with a variable speed fan, giving market-leading efficiency and acoustic performance.

Technical details



- Aids in achieving compliance with regional regulations as well as being listed in SAP Appendix Q
- CoP up to 3.36 consuming up to 5 times less than a standard electric water heater.
- Flexible placement within the dwelling often within service cupboards, garages and utility rooms.
- Low operational noise due to compressor design and anti-vibration pads.
- Built in defrost mode making it suitable for use in temperatures between -7 and 35°C.

Heat pump performance		Edel 170 UK RF	Edel 200 UK RF	Edel 270 UK RF
Model code		EDL170-520RF	EDL200UK-630RF	EDL270UK-630RF
Nominal volume	L	170	200	270
Air operating range	°C	-7 to +35		
Achievable hot water temperature via heat pump	°C	55	60	
Max electrical power input (heat pump & immersion)	W	350 + 1200 = 1550	700 + 1200 = 1900	
Max thermal power output (heat pump only) at 45°C	W	1170	1300	
Max power output (heat pump & immersion) at 45°C	W	1170 + 1200 = 2370	1300 + 1200 = 2500	
Air flow	m³/h	90 to 140	320 to 400	
Sound pressure level at 2m	dB(A)	36	37 (speed 1) / 40 (speed 2)	
Refrigerant	/kg	R290/0.1	R290/0.15	
Standing heat loss	kWh/24h	1.92	1.61	1.77
Air ducting method		Concentric Duct	Separate inlet & outlet to exterior	
Heat up from cold (10°C)		10hr 24mins	7hr 15mins	9hr 48mins
Coefficient of performance		2.85	3.36	3.3
Dimensions & connections				
Dimensions	mm	520 x H 1760	630 x H 1460	630 x H 1780
Weight with packaging	kg	64	70	79
Weight without packaging	kg	58	56.5	63
Air duct diameter	mm	80/125	160	
Max ducting pressure drop		90Pa at 90m³/hr	220Pa at min air flow rate 320m³/hr	
Water connections	inch	M 3/4"		
Condensate tube	mm	18/24		
Electrical supply		230V 50Hz - 8A		
IP rating		IPX4		
MCB type C	Amp	16		
Hot water cylinder				
Material		Stainless steel		
Insulation		50mm PU foam with PVC outer		
Refrigeration heat exchanger		Double walled separation from potable water		
Max operating pressure	bar	6		
Max condensate production	L/h	0.3		
Integrated electric immersion heater	W	1200		
Max temperature with immersion heater	°C	65		
Approvals				
Water regulations		G3 KIWA approval to EN12897		
T&P valve		Factory fitted		
Accessories		Inlet group, tundish, expansion vessel		
Guarantee (UK)		5 years tank (2 years other parts)		