



Simply smarter.

Maximum performance.
Minimal impact.

Open up the new **Navien PEM750**.



Welcome to Navien.

Leading the way for heating technologies.

Since 2014, Navien has advanced heating innovation through a range of class-leading models designed and developed for the UK. From our launch of the NCB-CE gas condensing boiler to the LCB Blue Flame condensing oil boiler, we cover the needs of homes and businesses nationwide for reliable and efficient heating and hot water.

In 2022, we launched the NCB **ON** range – led by our flagship NCB700 **ON** model: the first combi boiler capable of delivering hot water to three showers at the same time, delivering consistent comfort without temperature fluctuation. And now, we've launched our PEM750 heat pump: our future-proof, low-carbon system that combines high performance with low environmental impact – for the best of both worlds for eco-conscious homeowners.

Whether it's water heaters, boilers or smart controls like our latest Smart Plus **ON AI** controller, we're consistently leading the way for fully integrated, energy-efficient heating technologies that work seamlessly, give you and your customers complete, precision control, and deliver comfort you can count on across every part of your indoor climate.

The Navien **PEM750** heat pump.

Meet the future of renewable comfort.

Discover the first Navien UK air source heat pump: a cutting-edge, renewable heating solution that offers reliable, year-round performance, even in extreme cold. Devised to future-proof the UK's homes as we build towards a net-zero world, it helps your customers cut both their energy and carbon costs – without compromising on comfort.



The PEM750 at a glance.

Eco-friendly R290 refrigerant

With a low Global Warming Potential (GWP) rating of just 0.02, the PEM750 uses one of the most sustainable refrigerants available today.

-25°C operation

Capable of delivering high-temperature hot water even in extremely low temperatures, the PEM750 keeps homes warm in all seasons.

Whisper-quiet

The PEM750 is equipped with advanced noise-reduction technology to minimise acoustic disruption to the wider household, as well as neighbours.

Seamless integration

The PEM750 can effortlessly form the core of a whole-home heating solution, integrating with underfloor heating, radiators and hot water cylinders.



Meet the future.

Next-generation **R290** heat pump technology.

Designed for premium performance, built for everyday efficiency, the PEM750 doesn't just look smart – it's packed full of benefits that make it simply smarter. Simple to install through the Navien NAW300-NSI Wiring Centre and a comprehensive range of customisable parameters, and backed by up to seven years' warranty for parts and labour, it's never been a better time to bring advanced, eco-friendly engineering into your customers' homes.

High ratings

With an A+++ ErP rating and a SCOP range of up to 4.86, the PEM750 is designed to drive down carbon, and with integrated shock absorption and robust build quality for a long lifetime of reliable operation.

Low noise

The PEM750 has an operating noise level of about the same as a refrigerator. So, it gives you a bigger performance than you'd imagine, from a system that's quieter than you'd expect.

Complete control

Able to be remotely controlled via smart tech and a dedicated app, the PEM750 makes it easy to achieve perfect comfort levels, while cutting energy usage and costs with pinpoint precision.

Smart support

As well as UK Government grants and long-term savings, the PEM750 is served by our UK team. From training and tech support to Navien Choice Plus loyalty rewards, we help you install with confidence and grow your business.

There's more inside.

Explore the technical features of the PEM750.

Available in 4, 6, 8, 10 and 17kW capacities, the single-phase PEM750 delivers reliably consistent, impressively high performance levels, while remaining flexible and straightforward to install and commission. Let's look at the full technical details...

Technical Data			PEM750V004PGKC	PEM750V006PGKC	PEM750V008PGKC	PEM750V010PGKC	PEM750V017PGKC
Capacity	Heating (A7/W35)	kW	4	6	8	10	17
Performance							
Heat Pump Space Heating [35°C]	ErP Rating		A+++				
	SCOP (EN14825)		4.86	4.79	4.71	4.77	4.79
Heating [A 7°C / W 35°C]	Capacity	kW	4	6	8	10	17
	COP		4.70	4.65	4.60	4.66	4.45
Sound Pressure (1m)		dB(A)	42	45	46	46	48
Sound Power Level (EN12102-1)		dB(A)	55	56	60	61	63
Operating Temp. range	Ambient Air	°C	-25 to 43				
	Heating	°C	15 to 70				
	Hot Water	°C	15 to 75				
Electrical Data							
Power Supply		V/Hz	220-240V/50Hz				
Refrigerant							
Refrigerant Type / Amount		Kg	R290 / 0.75		R290 / 0.80	R290 / 0.98	R290 / 1.4
Dimensions & Weight							
Unit Dimensions (W x D x H)		mm	1166 x 445 x 800			1287 x 500 x 932	1247 x 540 x 1332
Net weight		kg	105		120	145	205
Other							
Water Flow Volume		m3/h	0.68	1.03	1.38	1.70	2.90
Water Connection		inch	G1"	G1"	G1"	G1"	G1"
Pump			UPM3K 25-75	UPM3K 25-75	UPM3K 25-75	UPM3K 25-75	UPMXL 25-125

Smart, simple, seamless.

The Navien NAW300-NSI **Wiring Centre**.



Bring the PEM750's advanced capabilities into your customers' homes with the NAW300-NSI: a professional, centralised wiring hub that integrates and centralises all connections within one sleek enclosure – eliminating wiring clutter and preserving the home's aesthetic. Designed to work seamlessly with the PEM750, it brings smart functionality and simple installation into one seamless package.

Simplified multizone management

The PEM750's inherent dual-zone logic can manage radiators and underfloor heating simultaneously, and can be easily implemented using the NAW300-NSI's dedicated internal terminals for faster, cleaner installation.

Intuitive access to smart energy

The PEM750's inbuilt SG Ready (Smart Grid) features are made even easier to access via the NAW300-NSI, seamlessly and tidily connecting to solar PV systems to further reduce running costs and energy bills.

Robust system protection

Smart and simple, the NAW300-NSI provides a secure indoor mounting for the PEM750's hardware safety features, including integrated over-heat protection (OHP) for immersion heaters.

Precision hydronic coordination

The NAW300-NSI provides a central indoor interface for directly managing DHW pumps, 3-port valves and buffer sensors – with no complex, unsightly wiring on show in the outdoor unit.

Universal control compatibility

The NAW300-NSI gives you and your customers total freedom of choice – enhancing the PEM750's hardware versatility and supporting virtually all standard third-party passive switch thermostats.

Precision control, anywhere.

Get to know the Navien heat pump app.

The performance of the PEM750, now even more accessible, with our smartphone app making complete control over your heating system easier and more intuitive than ever before. Explore its cutting-edge functionality in the app today.



Remote control and scheduling

From manually switching the heat pump on and off to setting target water temperatures, through to setting and adjusting timers, users can enjoy complete functionality control over the PEM750, anytime, anywhere.



Weather-adapting forecasts

Connecting to online weather forecasts to gauge local outlooks and conditions, the app can be used to intuitively adjust heating to ensure optimal comfort and minimal energy waste, whatever the weather.



Geofencing

Syncing with smartphone location tracking, the app uses geofencing technology to automatically lower or turn off heating when the user leaves their home, and can pre-warm it before they return.



Energy monitoring

A detailed reporting dashboard enables users to view real-time running modes and temperature curve graphs, to help users see, understand and adjust their energy usage in the best way for their home and our planet. water cylinders.



Smart diagnostics

The app incorporates monitoring of the health of the PEM750, instantly flagging any performance drops or equipment failures, with exact data shared with engineers – so, you can help customers get back up and running faster.



Proactive servicing

The app keeps maintenance engineers firmly in the loop, with notifications of technical issues and potential ways to resolve them shared in the background – heading off the risk of system breakdowns before they can happen.

Download the heat pump app **today.**



To download on an **Apple** device.



To download on an **Android** device.

Smarter starts today.

Get started with the **Navien PEM750**.

Install

Want to get stuck in and start installing our new heat pump today? Get in touch at sales@navienuk.com

Grow

There are more benefits to belonging to Navien's installer network. Be part of it and grow your business.

Navien Choice Plus



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