

Hot Topics



QUARTERLY NEWS ABOUT EVERYTHING NAVIEN

A triumphant return to InstallerSHOW

Navien returned to the exhibition trail in June, where the company successfully showcased its product range at InstallerSHOW, which was held at Birmingham NEC. Navien's stand was one the largest at the three-day event, where the star attraction was the new family of NCB range of gas boilers, displayed alongside an exhibition of company's impressive condensing history.



Attendees were able to discover how Navien is the first manufacturer in the world to incorporate its ground-breaking water heating technology into a condensing gas boiler. Taking inspiration from the number 1 selling NPE water heater, the new NCB700, NCB500 and NCB300 boilers prioritise incredible levels of hot water performance.

Visitors to the Navien stand also had the chance to learn about the benefits of the LCB700 Blue Flame oil boiler, as well as the internationally renowned premium NPE water heater and Smart Plus controls.

Navien's - and Asia's - very first condensing boiler from 1988 was also on display, further demonstrating the company's impressive heritage in the heating industry.

In addition, heating engineers were able to speak with key Navien personnel, as well as sign up to the Navien Choice loyalty scheme to receive triple reward points and some exclusive free gifts. Plus, with the allure of a comfortable lounge area, where visitors were able to enjoy a soft drink or beer, it was no surprise everybody was impressed with their Navien experience at the show.



Jason Davies, National Business Manager at Navien, said: "It was fantastic to be back at InstallerSHOW and meet installers from all over the country face-to-face in a new venue. We enjoyed showcasing our exciting new products, especially our new gas boiler range, which has a wealth of amazing features never seen in the UK before. The show was a great success and we're looking forward to building on its momentum during the rest of the year!"

The evolution of condensing bo

Replacing a gas boiler needn't be a complicated or expensive process. Thanks to Navien's vast knowledge in heat exchanger technology, the company has been able to develop a range of boilers that can deliver rapid heating to up to three bathrooms at once!

In the beginning...

Navien has been developing and manufacturing condensing gas boilers for over 34 years, having created its first-generation heat exchanger back in 1988. This was an aluminium component, developed with the Nefit Buderus Alliance for Research and Technology – and is a design still widely used throughout Europe today.

The move to stainless steel

In 1995, Navien developed the world's first stainless steel fin-tube condensing (secondary) heat exchanger. In 1998, this received CE mark certification, making Navien the first Asian manufacturer to receive this standard. This also revealed Navien to be ahead of its time, as the company had begun extensive work on this highly efficient technology a whole 17 years before the UK government had even implemented its condensing boiler regulations!

But Navien didn't rest on its laurels and continued to work on improving its condensing technology even more. This led to the development of a full stainless steel condensing heat exchanger (including plate heat exchanger) in 2005. The third generation of this high-quality component maximised the condensing effect by increasing the total

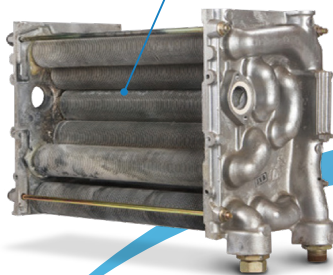
heat surface available, resulting in Navien achieving the world's highest level of heating efficiency – not to mention excellent long-term durability. This saw the heat exchanger achieve certification from the American Society of Mechanical Engineers (ASME).

The next generation

Today, Navien has further advanced its heat exchanger design, creating a more compact component that still has energy efficiency at its core. This latest incarnation of Navien's condensing technology has been utilised in the company's new NCB range of high efficiency gas boilers, with both the compact NCB500 and NCB300 models benefitting from the fourth-generation, which features high levels of performance and durability, ensuring excellent DHW outputs.

Such a high quality and durable heat exchanger ensures a long lifespan, alongside exceptional levels of reliability while preventing corrosion. This key component has been designed and developed to maximise heat transfer efficiently, as well as cope with a range of high temperatures and pressures – without compromising hot water delivery.

1988
1st Generation



1998
2nd Generation



2006
3rd Generation



Boiler technology

Edge and experience of condensing heat
and hot water with constant DHW temperatures

Building upon the excellence of the company's NCB700 combi boiler (which can deliver hot water to up to three showers at once), the NCB500 and NCB300 complete the range with the high levels of quality and hot water delivery associated with Navien. The entire range also offers high levels of efficiency and durability – and is 20% hydrogen-ready. In addition, the NCB500 and NCB300 units are both capable of fitting inside a cupboard with ease and, when used in conjunction with Navien's Smart Plus control pack, achieve an industry-leading A+ ErP energy rating.

Exciting times ahead

Not only has 34 years of developing and improving condensing boilers seen Navien rise to number one in the American market, the company has used the same technology to make significant inroads in the UK. Now, with these third and fourth-generation heat exchangers being employed alongside hydrogen-ready technology, Navien is strongly positioned to take the heating and hot water sectors by storm.

2020
4th Generation

ation



Putting hot water and efficiency first – introducing the NCB gas boiler family



Navien has launched the game-changing NCB700 combi gas boiler, the first product of its type capable of delivering hot water up to three bathrooms simultaneously. Shattering all preconceptions of a combi boiler's suitability for large properties, the NCB700 cleverly maximises recirculation of domestic hot water (DHW) in applications to significantly reduce water wastage and offer flow rates up to an industry-leading 22 litres per minute (at 35°C temperature rise).

The powerful new combi crossover boiler features an outstanding turndown ratio of 15:1, is hydrogen-ready and can also achieve ErP A+ when used with Navien's Smart Plus controller. It is available in two models capable of delivering up to 41kW and 54kW of hot water respectively.

The NCB family is completed by the new high efficiency **NCB500 and NCB300** models, which can supply 16.8 litres per minute (at 35°C temperature rise).. Able to fit inside a cupboard with ease due to a compact 280mm depth, both of these energy-saving boilers offer the same high-quality construction as the NCB700. Each boiler is available as a combi, while there are also system and regular versions of the NCB500. All units can achieve hot water outputs of up to 41kW while achieving an industry-leading ErP efficiency of 93%.



Navien's Blue Flame boilers are **HVO ready and futureproofed**

HVO is a sustainably produced, renewable paraffin that comes from used cooking oil and vegetable oil processing waste. It makes an excellent replacement for heating oil (such as kerosene) and can cut emissions by 88%.



Navien's industry-leading LCB700 Blue Flame boilers can be easily modified to burn HVO simply by installing different nozzles. This will have no impact on the performance of the units, which boast efficiencies up to 104%, as well as ultra-low NOx emissions of only 57mg/kWh – making them the only domestic oil boilers capable of achieving an ErP A+ energy rating.

Assessing the benefits of HVO, Sean Keleher, National Technical Manager at Navien, said: "With a lot of people – especially those in rural areas – still reliant on oil-fired boilers, it's vital for manufacturers and industry groups to join together and embrace HVO as a more environmentally-fuel. HVO is safer to handle due to its higher flashpoint, plus it's biodegradable."

“Converting properties from using heating oil to HVO is a simple process – and considerably cheaper in comparison to how much it costs to install a brand new, low carbon heating system.”

He continued: "Converting properties from using heating oil to HVO is a simple process – and considerably cheaper in comparison to how much it costs to install a brand new, low carbon heating system. Given these benefits, HVO should be an attractive, futureproof proposition for the industry (and government) to get on board with."

Comprehensive **NEW** website launched

Navien has launched its brand-new website,

showcasing the company's full range of high efficiency heating and hot water products. The site can be viewed at www.navien.co.uk

and features dedicated areas for heating industry professionals and end users, as well as essential product literature, news, downloads and technical support.

Visitors to the site can view essential details of every product Navien has to offer in the UK, from its LCB700 Blue Flame oil units to the recently introduced NCB range of high efficiency gas boilers. There is also information on the company's Smart Plus controls and internationally-renowned NPE gas water heater.



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