



## LCB700 Blue Flame Oil boiler

# Helping 13th century property reduce running costs



When the owner of a Grade II listed home in Wadhurst, Kent, needed a replacement oil boiler for an ageing and inefficient system, he turned to Navien and the new, highly efficient LCB700 range.

Completed in October 2019, the installation highlights the extreme flexibility and adaptability of the LCB700 range. The new blue flame A+ rated oil boiler with Smart Plus technology, was able to overcome a number of on-site challenges, while delivering significant savings on running costs.

perfect choice, thanks to its compact power to size ratio. Furthermore, its lightweight construction (weighing just 67kg), ensured the new boiler could be manoeuvred quickly and simply into position. Plus, with extremely low NOx emissions, the LCB700's blue flame burner meets the more stringent NOx levels expected in 2022.

The greatest challenge centred around the flue length, which needed to run from the property's cellar, up through the ground floor and exit the house into the garden. However, thanks to the flexibility of the LCB700 boiler – which is the only boiler in the market that can flue up to 21 metres vertically and horizontally – this was easily achieved.

The property, which dates back to 1293 and Saxon times, was previously heated by a non-condensing boiler that had been in operation since 2003. The ageing unit had since failed, as the homeowner, Mr Fatah, explained:

Also, due to the underground location of the plant room, the replacement boiler was required to fit into a tight space. This made the Navien unit a

**“The old boiler had lasted well, but the casing had split due to it being made from mild steel, which was always going to be prone to corrosion. However, the new Navien is fully stainless steel, so I expect it to last for decades to come.”**



LCB700



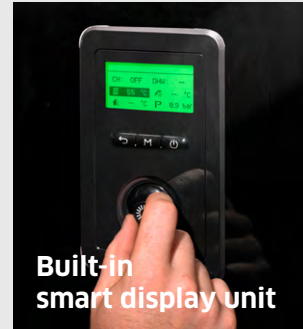
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Extensive flue lengths



Built-in smart display unit

The LCB700 is manufactured from the highest quality materials to ensure supreme longevity and durability. It also benefits from Navien's latest heat exchanger technology, which maximises heat transfer for superb efficiencies. Plus, by utilising high quality stainless steel, the heat exchanger is resistant to surface corrosion, maintaining its performance for the lifetime of the boiler.

Commenting on the running costs of the new Navien LCB700 boiler, Mr Fatah continued: **“The new boiler is significantly more economical and we have definitely noticed a difference since it was fitted; it uses a lot less fuel than the old one.”**

The LCB700, which is connected to an unvented cylinder, now supplies efficient heating and hot water throughout the property, catering for 40 radiators and eight bathrooms. Commenting on the

project, Jason Davies, National Business Manager at Navien said: **“This installation perfectly reflects the market leading credentials of our LCB700 oil boiler range. We know there are a huge number of UK households relying on oil boilers, and the situation is not going to change in the foreseeable future. Therefore, we've developed the LCB700 to be the perfect upgrade for any ageing oil boiler. Not only is it able to deliver exceptional levels of performance, but it is also future proof thanks to its blue flame burner technology, which keeps efficiencies high and emissions extremely low.**

**“Indeed, with NOx emissions as low as 57mg/kWh, the LCB700 is a UK market leader for blue flame oil boilers. And when you add in the combination of an ErP A+ rating and smart eco features, we've made it as simple as possible for property owners to reduce their energy**

**usage and save money whilst heating their home. The built-in smart display even allows end users to monitor fuel consumption, eliminating the need to check the oil tank or install another device to read the oil level.”**

The Wadhurst property is steeped in history with every corner of the building reflecting a different century. Even the property name, Wenbans, can be traced to the Saxon times. (The first part of the name relates to the name of the Saxon chief who occupied the land – Wenner – and, down the hill from the house is a stream, which Saxons called a ban. So, people used to refer to the property as Weners' Ban, shortened to Wenbans over the centuries.) The property is also said to have been a hunting lodge for King John and, in more recent years, hosted King Edward VIII and Wallis Simpson.