

AMAZON HXIN

Unvented Hot Water Cylinders

The Amazon range of Unvented Cylinders has been extended to make full use of plate heat exchanger technology, enabling heat input to be directed where it is needed the most - at the top of the cylinder.

Unlike coils, which heat a fixed volume of hot water from the bottom upwards, the Amazon HXIN heats from the top down, heating only the desired quantity of hot water.

In a sense it is part hot water cylinder and part combination boiler, giving you the benefits of both.

The plate heat exchanger provides the additional benefit of keeping boiler return temperatures as low as possible, typically below 30C. This high temperature drop across the primaries, enables five times the quantity of heat to be fed from the boiler, using a given pipe and pump sizing, than a coil allows.

The ability to control the volumes of water heated enables standing heat losses to be almost eradicated, with storage pulled into use just prior to known periods of high demand and with small quantities stored for normal use.

This is especially useful when combining with solar panels for example. The boiler will only be used to heat water to demand, with the bulk storage left cold for the solar to work on efficiently.

The most common reason why customers choose the Amazon HXIN however, is because it is nearly impossible to run out of hot water. The use of large inlet connections allows incredibly high peak loads to be met, while the immediate full load contribution from the boiler keeps water generation ongoing. Commercial outputs at domestic prices.



Amazon HXIN with two coils and Plate Heat Exchanger input, suitable for three heat sources.



The Twin Amazon Unvented HXIN provides 600 to 1000 litres of domestic storage with a primary input from 50kW to 100kW, delivering upto 2700 litres of hot water in an hour.