

# UK BOILER - HEAT PUMP RETROFIT

23 million homes in the UK have a gas boiler to supply their central heating and hot water. Just 2019 alone saw a record number of gas boilers being sold in the UK with 1.67 million units, an increase of 1.8% on 2018 figures. According to UK boiler market statistics from the Heating and Hot water Industry Council (HHIC), sales of UK domestic boilers hit **almost 675,000 for the first four months of 2021**—a 41% increase from the same time in 2020, when more than 476,000 units were sold in the UK.

The new legislation on boilers that has attracted some big news headlines is that there will be no new gas boilers after 2025 - in newly built homes. So, all new homes built after 2025 will have an alternative heating system, such as **heat pumps**.



## Herein lies the problem...

Currently, conventional heat pumps available on the market can only produce a hot water supply of 55-60°C, which is far too low for your existing radiators, which are served from your conventional gas boiler at 70-90°C.

Therefore, your existing radiators would need to be replaced with radiators either twice the size to provide the same output, or convert the system to underfloor heating options, which makes heat pump installations costly and highly disruptive as a retrofit application.

## The Solution...

In order to overcome these issues, EPS limited have developed a two-stage high temperature heat pump as a direct replacement of an existing oil boiler for an average 3~4 beds house in the UK, without any modifications and by simply connecting a HT- heat pump via the oil boiler flow and return pipes.

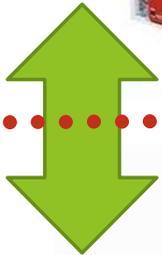
Your existing room thermostat will control the HT heat pump and the Heating, by utilizing the existing pump and hot water tanks, without any changes to these components necessary and with minimal disruption.



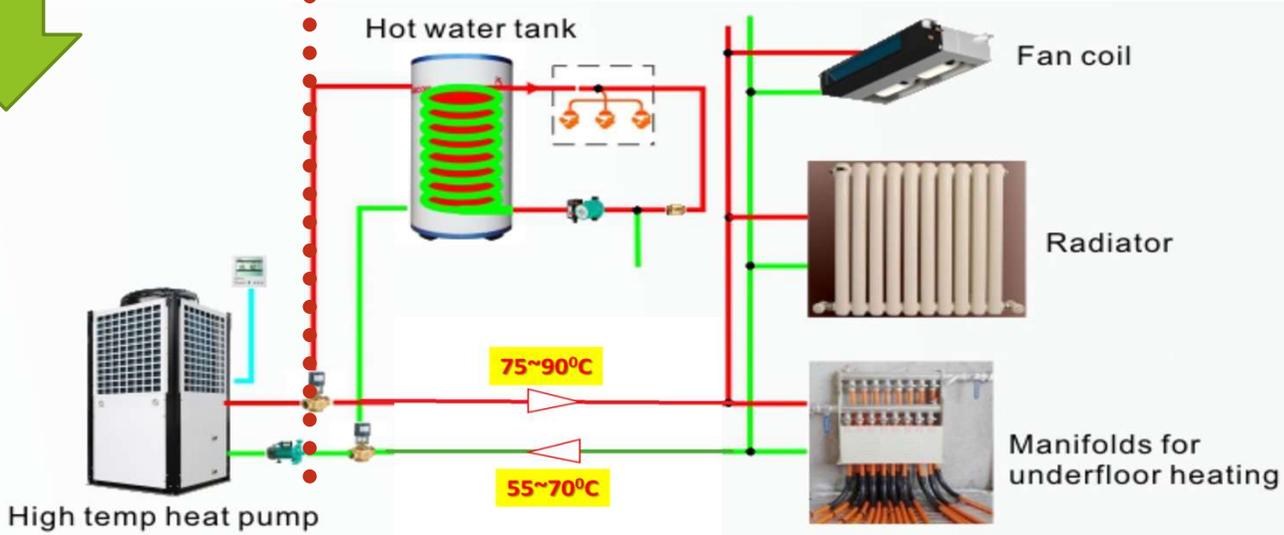
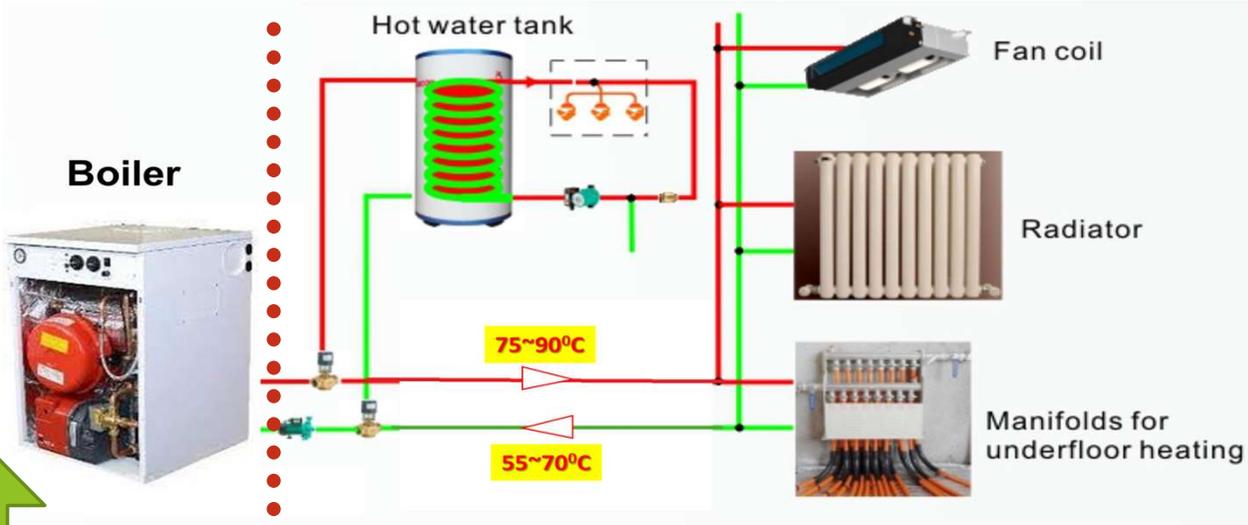
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CONVENTIONAL LPHW SYSTEM



HT HEAT PUMP RETROFIT SYSTEM



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# 85°C HEAT PUMP INSTALLATION



**Boiler**



**HEAT PUMP**

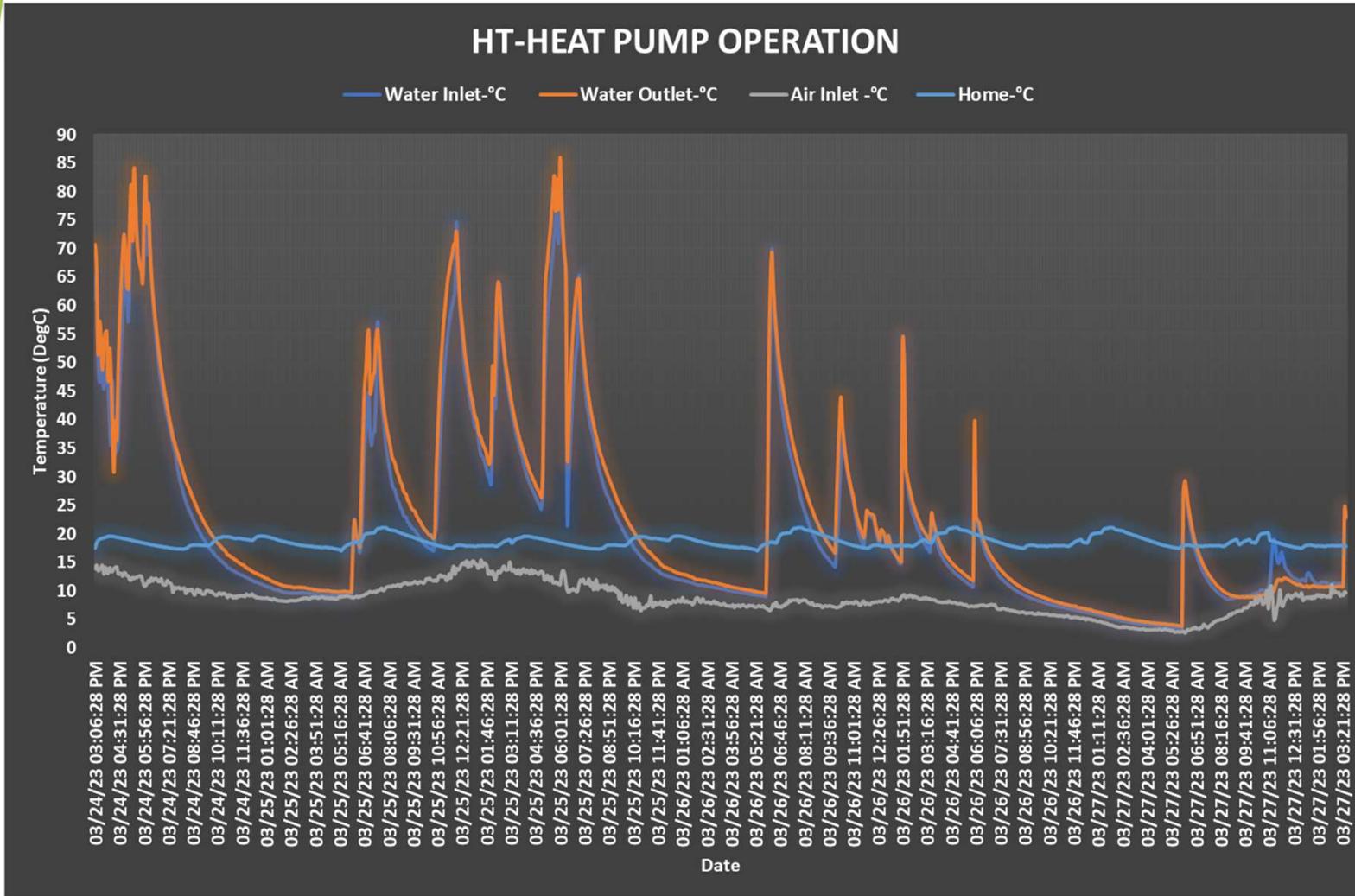


**HEAT PUMP**



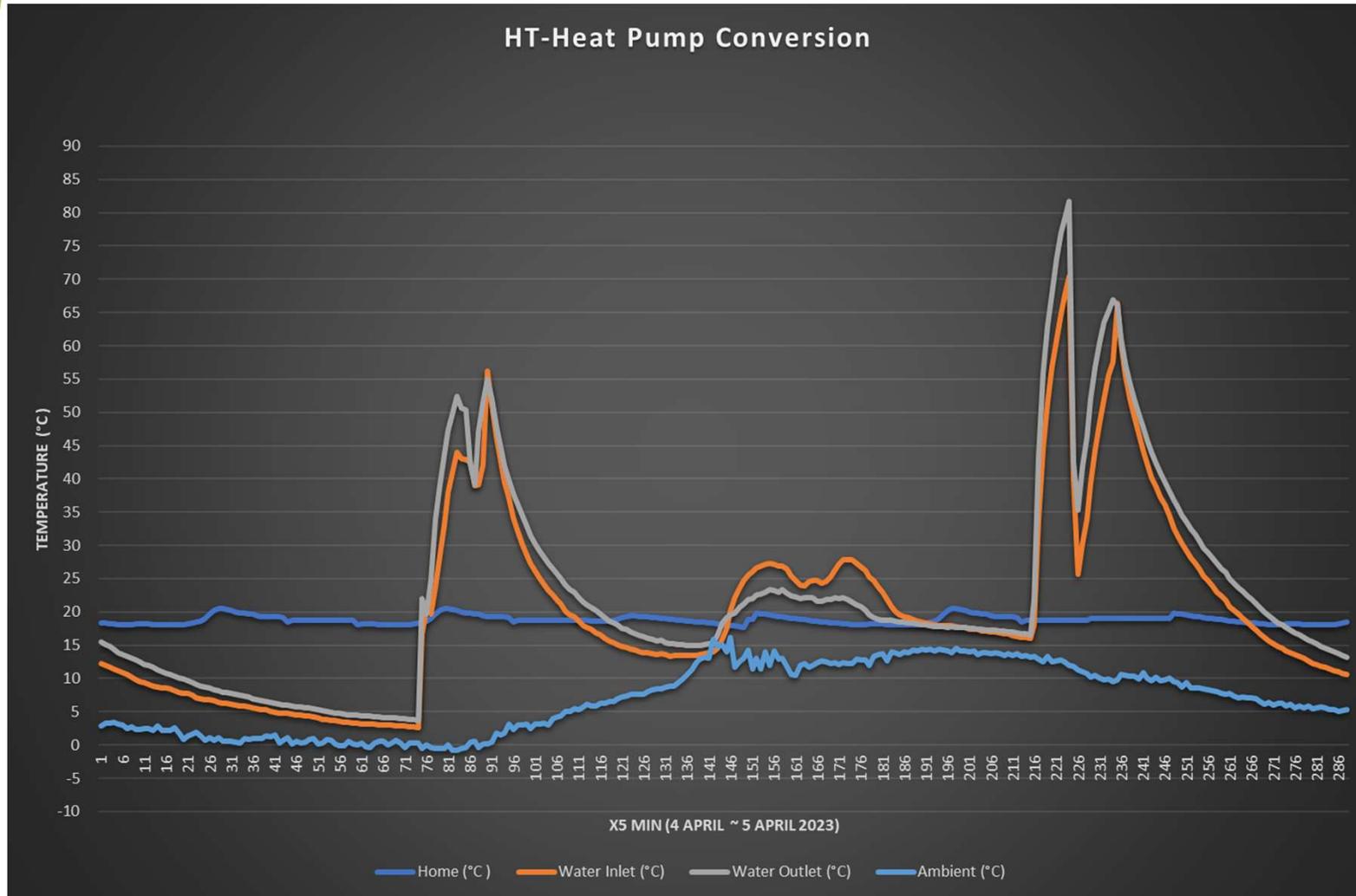
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