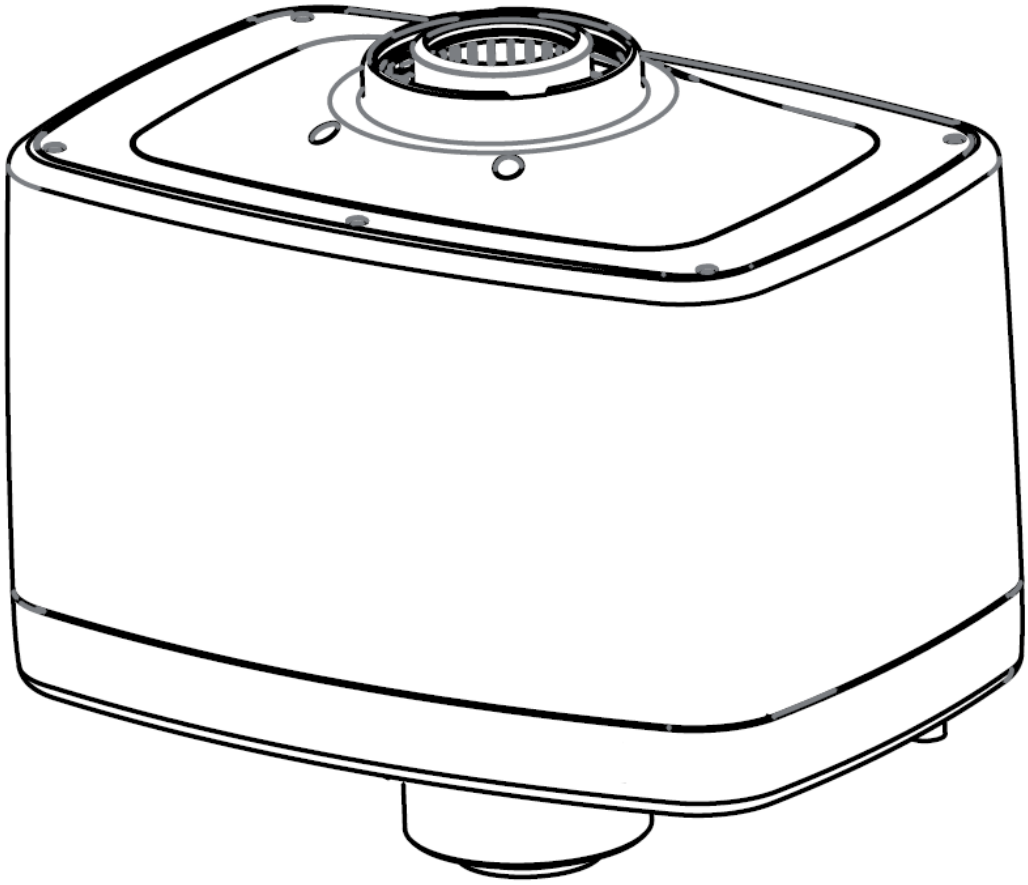
Vokèra

FUELSAVER

ADVANCED CONDENSING TECHNOLOGY



INSTALLATION MANUAL

Vokèra is a licensed member of the Benchmark scheme which aims to improve the standards of installation and commissioning of domestic hot water systems in the UK.

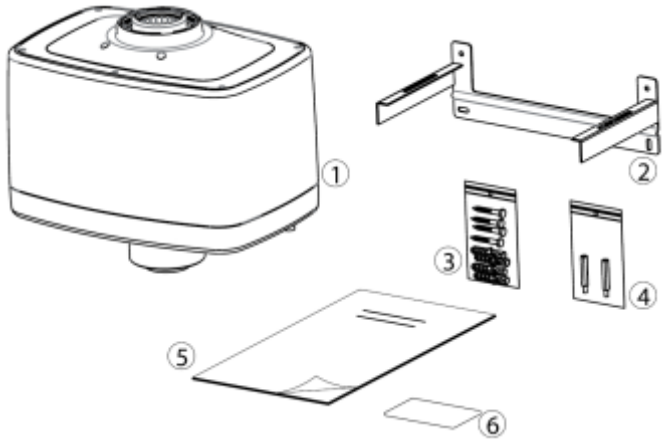
Product description:

The Vokèra Fuelsaver is a PFGHRD (Passive Flue Gas Heat Recovery Device) designed as a complimentary energy saving system that can be connected to specific Vokèra condensing boilers. This appliance recovers latent energy from flue gas produced by the boiler in central heating and hot water mode. The energy from the flue gases is used to pre-heat domestic cold water. The Fuelsaver increases domestic hot water efficiency. It therefore reduces gas consumption, emissions and waste water.

The Vokèra Fuelsaver is included in SAP Appendix Q, Passive Flue Gas Heat Recovery Device.

Contents of package:

1. Fuelsaver unit.
2. Support bracket.
3. Wall fixings.
4. Unit fixing screws.
5. Installation manual.
6. SAP label.
7. Flue clamp. *(Not shown)*
8. Flue bracket. *(Not shown)*



Technical information:

DHW system	
Max. water pressure	10bar
Min. operating pressure	0.2bar
Connections	
Inlet	15mm
Outlet	15mm
Dimensions	
Height	276mm
Width	376mm
Depth	262mm
Weights	
Weight (empty)	6.6kg
Weight (full)	9.4kg
Flue connections	
Top	60/100mm
Bottom	60/100mm
Boiler applications*	
Condensing combi boilers only.*	

General	
Exchanger coil	Stainless steel
Inner casing	PP According to EN14471-1
Outer casing	ABS
Water content	2.8 litres
Water quality	
Chloride	<220 mg/l
Calcium/magnesium	<150 mg/l
Flue length reduction**	
Resistance equivalent	3.85m

*Contact the Vokèra technical team for boiler compatibility.

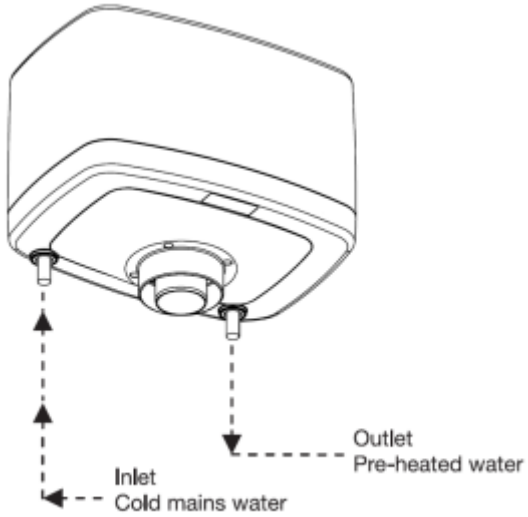
**The maximum permitted flue length of the boiler must be reduced by 3.85m. (Example: the Vision 25C has a maximum flue length of 5.85m (horizontal), with the Fuelsaver installed, the maximum flue length would be reduced to 2m).

General installation conditions:

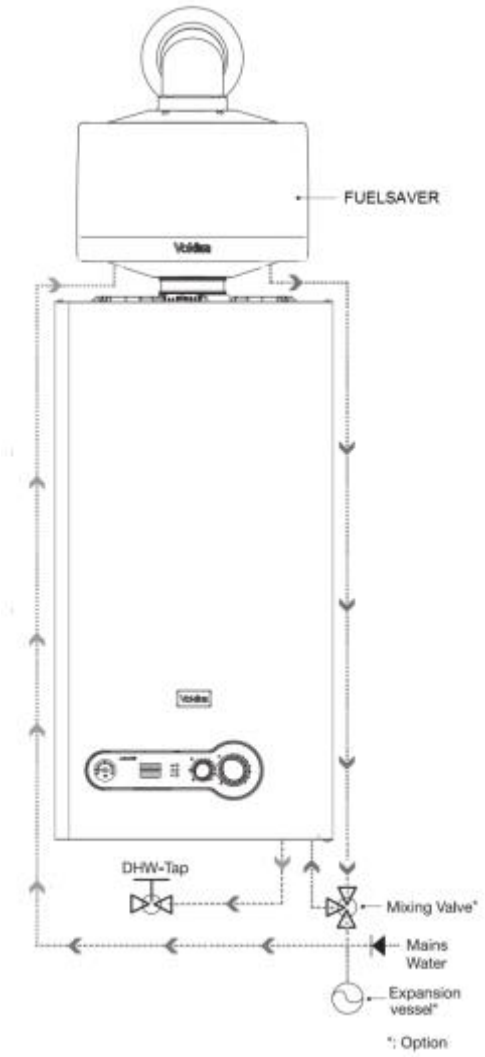
Assess the overall height of the installation including boiler, Fuelsaver and flue system arrangement.
In situations where the water pressure exceeds 10bar, it should be reduced to below the lowest maximum permitted pressure of the boiler or Fuelsaver.
For areas with hard water (>150mg/l calcium/magnesium) and a high concentration of chloride (>220 mg/l) we recommend installing a water treatment device. The fitting of a water treatment device will ensure the system operation and efficiency of the Fuelsaver is maintained and stays within the scope of the product guarantee.

Installation diagram
FUELSAVER

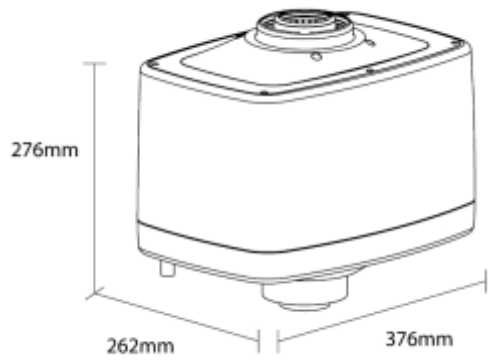
1. The hot and cold water pipes are marked at the bottom of the Fuelsaver near the water connections.

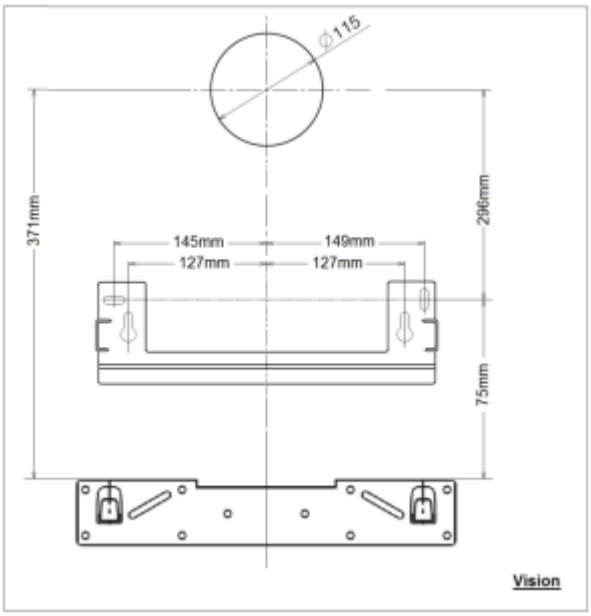


2. Installation diagram.

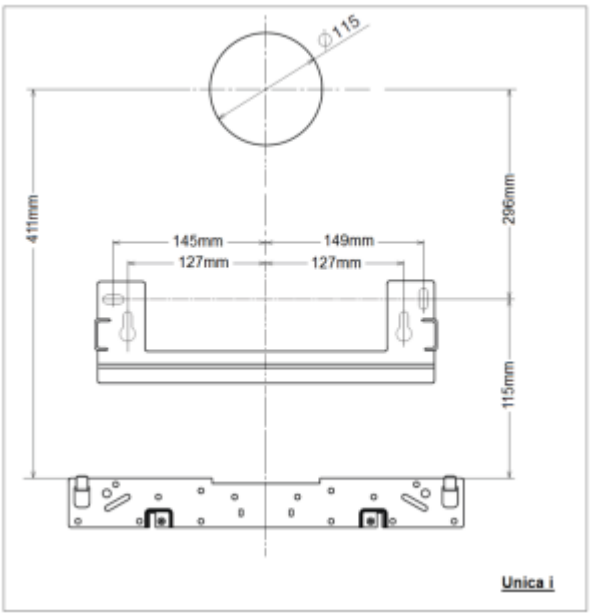


3. Dimensions.





Vision



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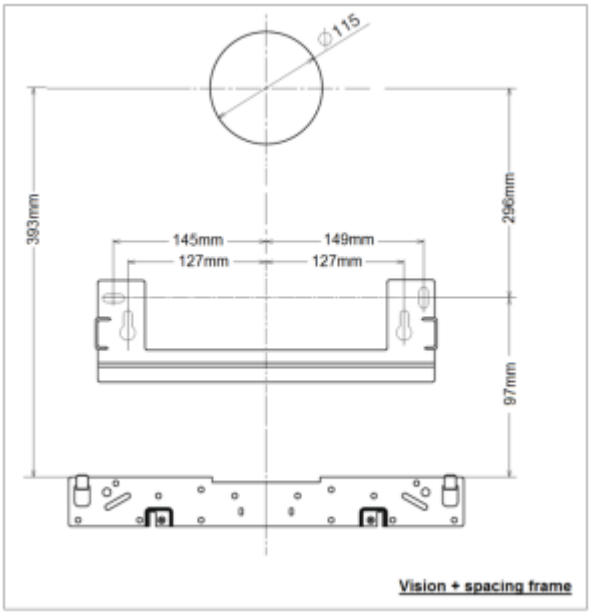
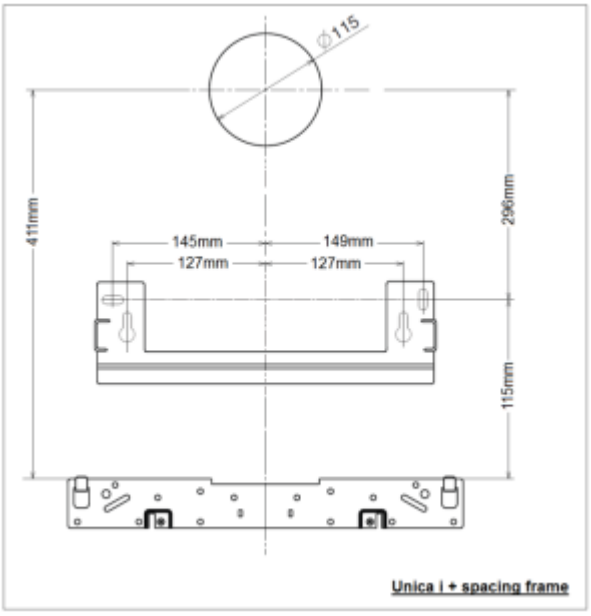


Vision + spacing frame



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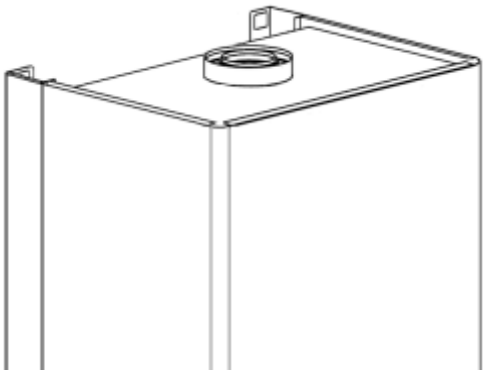
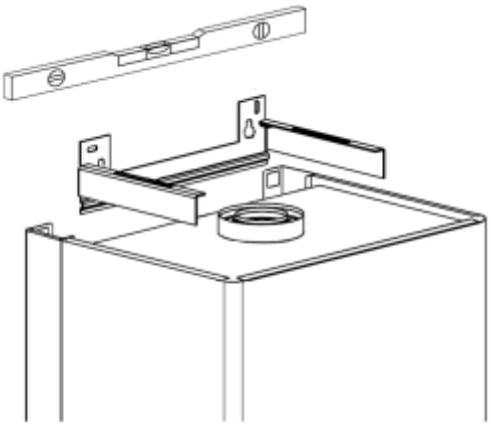
Installation sequence

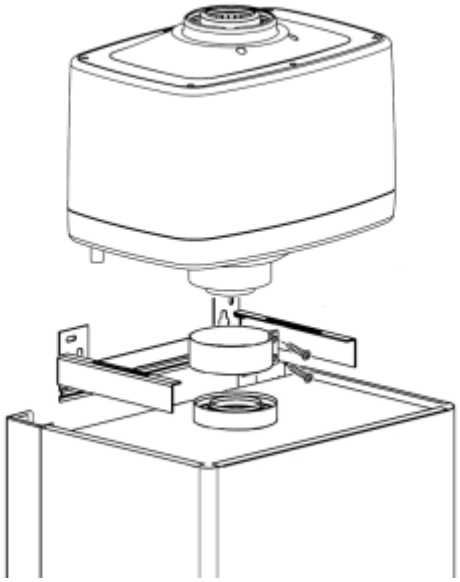
1. Install the boiler in accordance with the appliance installation instructions.



2. Hold the support bracket against the wall (level) and mark the hole locations as indicated. Drill the holes at the marked locations and insert the anchors into the wall. Attach the support bracket to the wall using the included wall fixing screws. Check if the support bracket is level and the wall fixings are secure.

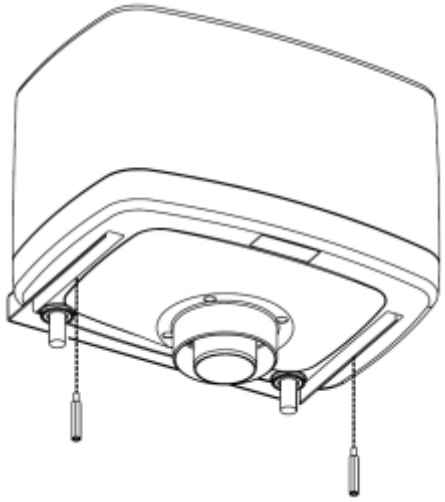


3. Mount the Fuelsaver on the support bracket and insert into the boiler flue spigot. Using the clamp, gasket, and screws supplied, secure the Fuelsaver to the boiler.



Always take into account the installation of the flue system. We recommend making the hole in the wall first but if the boiler is already installed, efforts must be made to cover the boiler during drilling to prevent debris falling into the appliance.

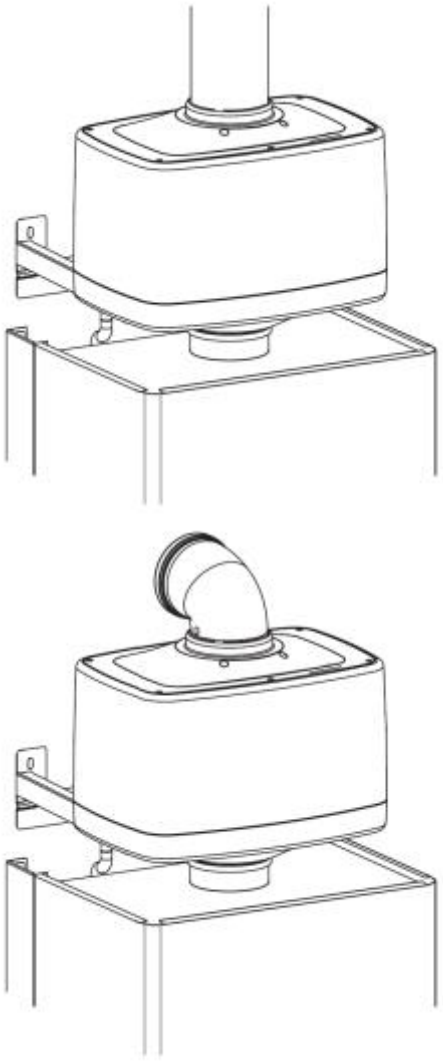
4. Attach the Fuelsaver to the support bracket using the included unit fixing screws.



5. Connect the water pipes. Cold (left, blue) and hot (right, red). Use the correct materials that can be combined with stainless steel. If a backflow prevention device is installed up stream of the unit, we would advise fitting an expansion vessel to accommodate any water expansion within the unit.

An option is the use of a mixing valve in front of the connecting pipe from the FUELSAVER hot water supply to the boiler's cold water connection, setting the mixing valve to 30°C maximum.

6. Connect the flue system to the Fuelsaver in accordance with current installation instructions. Secure the flue to the anchor bracket with the screw provided. Only use the approved concentric HE flue system as supplied by Vokèra Limited.



7. The Fuelsaver is ready for commissioning.

Commissioning:

1. Open the cold water supply and check all connections for leaks.
2. Open the hot water outlet and flush the Fuelsaver through until it is completely filled with water and no noise is audible.
3. The Fuelsaver is ready to use.

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