Electric - Electricity Only

A MODERN HOT WATER SYSTEM DESIGNED FOR FLATS, APARTMENTS & ELECTRICALLY HEATED PROPERTIES



HOT WATER SYSTEM

Harlequin HeatStream

HEATSTREAM ELECTRIC

ERP 'B' Rated thermal store giving Market Leading Energy Efficiency

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Harlequín[®]



Model Shown: HS150E



HeatStream 150 Electric [External Discharge to Waste Pipe]



Model Shown: HS150E-IOF

HeatStream 150 **Electric with** Internal Overfill Kit **[No External Discharge Required**]

Harlequín HeatStream

HOT WATER SYSTEM

210 Electric 150 Electric

ERP'B'RATED

The HeatStream Electric has been specifically designed to meet the modern need to provide mains pressurised hot water in flats, apartments and electrically heated properties utilising electricity efficiently.

It uses the simple tried and tested thermal store process but with a modern twist, it is open vented and therefore are not subject to Part G of Building Regulations in the UK and the discharge requirements associated with traditional unvented cylinders.

The HeatStream Electric can simply run the overfill to an external pipe or to a low temperature waste pipe internally within the property. Alternatively, the HeatStream Electric with Internal Overfill Kit models require no external overfill connection at all.

Internal Overfill Kit



Quick & Simple install with all connections on top



mins

No Mandatory **Annual Service** Required

Mains pressure hot water with **NO EXTERNAL DISCHARGE***

*All HeatStream models have an overfill warning connection. In the Internal Overfill (IOF) models, a kit is provided to handle this requirement internally to the unit. In the standard models, the overfill should be connected to waste or soil pipe internally within the property or to an external overflow passing through the fabric of the building. HeatStream units are open vented and therefore not subject to Part G of the Building Regulations in UK and the discharge requirements associated with traditional unvented cylinders. Please refer to the installation manual for full instructions.

*Warranty: 5 years against manufacturing defects on the plastic body; 2 years on all other parts.

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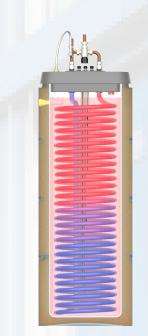
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HOW IT WORKS?

After the HeatStream is installed, it is filled with water using the filling loop provided. This static body of water is then heated using the built in immersion heaters.

When a hot water tap is opened the cold mains is passed through a 22mm corrugated stainless steel coil inside the HeatStream.

Heat is transferred from the static hot water to the incoming cold water inside the coil and exits through the provided mixer valve as temperature-controlled mains pressurised hot water. So simple...



KEY FEATURES

- No discharge required on models with internal overfill overcoming Part G of the Building Regulations in UK*.
- ERP 'B' rating for energy efficiency with a heat loss of only of 1.12kWh per day on the HeatStream 150 Electric (HS150E) and HeatStream 150 Electric with Internal Overfill Kit (HS150E-IOF).
- Maximise the benefit of available off-peak electricity tariffs or solar PV.
- Secondary Fast Heat Up boost immersion giving 50ltrs within 20 mins.
- Mains pressurised hot water with no G3 qualification requirement for installation, and no requirement for expansion vessel or T&P relief valve.
- Smaller 520 x 520 mm square footprint, making it perfect for today's smaller airing cupboards in new build homes, and an ideal replacement for many thermal stores installed in older properties.
- Stainless steel corrugated coil with large surface area provide very fast heat transfer.
- Outer shell made from tough durable Polyethylene, reducing the chances of damage.
- Inner tank made from non-corrosive Polypropylene, making it ideal for poor quality water areas.
- Extremely low maintenance & reliable with minimal spare parts (just a 6 monthly top up), delivering very low lifetime costs.
- Risk of Legionella is reduced.

MODEL SELECTION

ENERGY SOURCE	1 -2 Bedrooms	2 – 4 Bedrooms
ELECTRIC ONLY	HS150E / HS150E-IOF	HS210E / HS210E-IOF

When using Economy 7, we would recommend fitting the larger HS210E /HS210E-IOF option for a 2-bedroom property, if space allows. For Economy 10, as it has a heat up period during the day this gives a greater total daily volume of hot water over Economy 7 so either the HS150E / HS150E-IOF or HS210E / HS210E-IOF could be chosen comfortably for the same 2-bedroom property.

*Optional Overfill Kit will need to be purchased seperately.

TECHNICAL SPECIFICATIONS

Description	HeatStream Electric	
	HS150E / HS150E-IOF	HS210E / HS210E-IOF
Draw off volume @60°c to 70°c store temperature range*	113ltrs to 18oltrs	188 ltrs to 281ltrs
ERP Rating	В	В
Heat loss per day	1.12kWh	1.24kWh
Height including fittings	1315mm	1650mm
Width	520mm / 595mm	520mm / 595mm
Depth	520mm	520mm
Maximum Domestic Hot Water (DHW) Operating pressure	3 Bar	3 Bar
Bottom off-peak immersion heater	3kW	зkW
Re-heat time using only bottom off-peak 3kW Immersion to 60°c	80 mins	107 mins
Top boost immersion heater (on peak)	3kW	зkW
Draw off volume heated (on peak)	50ltrs	50ltrs
On-peak heat up time	20 mins	20 mins
Primary coil for additional or primary heat source	No	No
Maximum operation pressure for primary coil	N/A	N/A
Primary coil top connections	N/A	N/A
DHW coil top connections	22mm Copper Tube	22mm Copper Tube
Mixing valve and strainer included	Yes	Yes
3/4 " F Overfill can be fit into a low temperature waste pipe	Yes	Yes
Overfill to internal waste, external pipework, or optional overfill kit	Yes	Yes
Internal Overfill Kit	Yes (only if required)	Yes (only if required)
internal Overnii kit	Optional Extra	Optional Extra
Energy Source	Electricity Only	Electricity Only

*Draw off test at 15ltrs per minute flow rate

ABOUT HARLEQUIN

We are Harlequin! We are a leading manufacturer of innovative polyethylene storage tanks and systems with manufacturing facilities in England and Northern Ireland. We have a 40-year heritage supplying quality products within a trusted and professional service. We have internationally recognised management system certifications including ISO 9001, 14001 and 18001.

www.harlequinplastics.co.uk sales@harlequin-mfg.com

Harlequín[®] HydroClear

Harlequín[®] HeatStream[®] HOT WATER SYSTEM



CE

RAINWATER HARVESTING

Harlequín[®] StorageTanks Reliable containers

HEATSTREAM ELECTRIC RANGE

<u>}</u>+

HeatStream Electric

HeatStream Electric PLUS

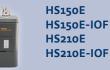
HS150EPLUS

HS210EPLUS

HS = HeatStream; EPLUS= Electric

HS150EPLUS-IOF

HS210EPLUS-IOF



HS = HeatStream; E = Electric IOF = Internal Overfill Kit



*actual product colours may vary from colours shown. All information contained herein is understood to be correct at time of publication. Harlequin MFG Ltd reserve the right to amend product specifications without notice. Please check our website for the most up to date product information.