

Electric Plus - Gas, Oil, LPG, District Heating


A MODERN HOT WATER SYSTEM
DESIGNED SPECIFICALLY FOR
A MODERN LIFESTYLE TO
COMPLEMENT YOUR BOILER
OR HEAT SOURCE

Harlequin
HeatStream®
HOT WATER SYSTEM

HEATSTREAM ELECTRIC PLUS

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



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Harlequin®
MANUFACTURING FOR TOMORROW



Model Shown:
HS210EPLUS



**HeatStream 150
Electric PLUS**
[External Discharge
to Waste Pipe]

Harlequin®
HeatStream®
HOT WATER SYSTEM

150 Electric PLUS 210 Electric PLUS

ERP 'B' RATED

The HeatStream Electric Plus has been specifically designed to meet the modern demands of providing mains pressurised hot water to all properties where electricity and a traditional primary heat source, such as a boiler or district heating, is available.

It uses the simple tried and tested thermal store process but with a modern twist, they are 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 PLUS can simply run the overflow to an external pipe or to a low temperature waste pipe internally within the property. Alternatively, the HeatStream Electric PLUS with Internal Overfill Kit models require no external overflow connection at all.

Model Shown:
HS150EPLUS-IOF

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



Internal Overfill Kit

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



**Quick & Simple
install with all
connections
on top**



**Super fast heat up
times when used
in conjunction
with a boiler**



**No Mandatory
Annual Service
Required**

*All HeatStream models have an overflow 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 overflow 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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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 (and or coil on the Electric PLUS).

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

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 Plus (HS150EPLUS) and HeatStream 150 Electric Plus with Internal Overfill Kit (HS150EPLUS-IOF).
- Maximise the benefit of available off-peak electricity tariffs or solar PV.
- Pre heat in 10 mins from boiler.
- 14-bar rated primary coil ideal for district heating.
- 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 coils 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.
- Electric PLUS includes a primary coil for primary heat source.
- 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
ELECTRICITY AND ALTERNATIVE HEAT SOURCE	HS150EPLUS / HS150EPLUS-IOF	HS150EPLUS / HS150EPLUS-IOF
		HS210EPLUS / HS210EPLUS-IOF

1) 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.

2) The Electric PLUS unit with a primary heat source such as boiler connected has an extremely quick recovery time, so the smaller HS150EPLUS / HS150E PLUS-IOF option can be selected comfortably in larger properties if airing cupboard space is at a premium.

*Internal Overfill Kit will need to be purchased separately.

TECHNICAL SPECIFICATIONS

Description	HeatStream Electric PLUS	
	HS150EPLUS / HS150E PLUS-IOF	HS210EPLUS / HS210E PLUS-IOF
Draw off volume @60°C to 70°C store temperature range*	113ltrs to 180ltrs	188 ltrs to 281ltrs
ERP Rating	B	B
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	3kW
Re-heat time using only bottom off-peak 3kW Immersion to 60°C	80 mins	107 mins
Top boost immersion heater (on peak)	3kW	3kW
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	Yes	Yes
Maximum operation pressure for primary coil	14 Bar	14 Bar
Primary coil top connections	22mm Compression	22mm Compression
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	Yes
	Optional / Standard	Optional / Standard
Energy Source	Electricity & Additional Heat Source	Electricity & Additional Heat Source

*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.

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Harlequin®
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HeatStream®
HOT WATER SYSTEM

Harlequin®
StorageTanks
RELIABLE CONTAINERS

HEATSTREAM ELECTRIC RANGE

HeatStream Electric



HS150E
HS150E-IOF
HS210E
HS210E-IOF

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

HeatStream Electric PLUS



HS150EPLUS
HS150EPLUS-IOF
HS210EPLUS
HS210EPLUS-IOF

HS = HeatStream; EPLUS = Electric PLUS; 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.