

Electric | Electric Plus - Gas, Oil, LPG, District Heating

A MODERN HOT WATER SYSTEM
DESIGNED SPECIFICALLY
FOR FLATS & APARTMENTS

Harlequin
HeatStream[®]
HOT WATER SYSTEM

HEATSTREAM

ELECTRIC & ELECTRIC PLUS

ERP 'B' RATED
Mains pressure hot
water with
**NO EXTERNAL
DISCHARGE***



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Harlequin[®]
MANUFACTURING FOR TOMORROW

Harlequin® HeatStream®

HOT WATER SYSTEM

150 Litres 210 Litres

ERP B RATED



150 HeatStream Electric
with internal overflow

Internal Overflow



Quick & Simple
install with all
connections
on top



Fast Heat up
Boost Immersion
giving 50ltrs
within 20 mins



No Mandatory
Annual Service
Required

The HeatStream Electric has been specifically designed to meet the modern need to provide mains pressurised hot water in flats and apartments utilising off-peak electricity efficiently, with its partner, the HeatStream Electric PLUS meeting the demands of larger properties where off-peak electricity and an additional or alternative more traditional primary heat source such as a boiler or district heating is available.

Both the HeatStream Electric and Electric PLUS use 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 Building Regulations in the U.K. and the discharge requirements associated with traditional unvented cylinders.

The HeatStream Electric and 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 and Electric Plus Internal Overflow models require no external overflow connection at all.

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

*All HeatStream models have an overflow warning connection. In the Internal Overflow (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 Building regulations in the U.K. 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 body 2 years on all other parts.

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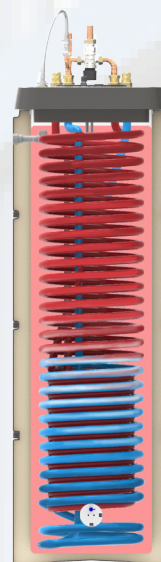
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HOW IT WORKS?

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 (and or coil on the Electric PLUS).

When a hot water tap is opened the cold mains is passed through a 22-mm 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 overcoming Part G of Building Regulations.
- ERP B rating for energy efficiency with a heat loss of only of 1.12kWh per day on the HS150E and HS150E-IOF.
- Maximise the benefit of available off-peak electricity tariffs or solar PV.
- Fast heat up boost immersion giving 50ltrs within 20 mins.
- 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.
- Small 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 an alternate heat source.
- Extremely low maintenance with very few working parts, delivering very low total life costs.
- Risk of Legionella is reduced.

MODEL SELECTION

ENERGY SOURCE	1 -2 Bedrooms	2 – 3 Bedrooms	2- 4 Bedrooms
ELECTRIC ONLY	HS150E / HS150E-IOF	HS210E / HS210E-IOF	HS210E / HS210E-IOF
ELECTRICITY AND ALTERNATE HEAT SOURCE	HS150EPLUS / HS150EPLUS-IOF	HS150EPLUS / HS150EPLUS-IOF	HS210EPLUS / HS210EPLUS-IOF
		HS210EPLUS / HS210EPLUS-IOF	HS210EPLUS / HS210EPLUS-IOF

*When using economy 7 we would recommend fitting the larger HS210E / HS210E-IOF option for 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.

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

TECHNICAL SPECIFICATIONS

Description	HeatStream Electric		HeatStream Electric PLUS	
	HS150E / HS150E-IOF	HS210E / HS210E-IOF	HS150EPLUS / HS150E PLUS-IOF	HS210EPLUS / HS210E PLUS-IOF
Draw off volume @60°C to 70°C store temperature range (off peak) *	113ltrs to 180ltrs	188 ltrs to 281ltrs	113ltrs to 180ltrs	188 ltrs to 281ltrs
ERP Rating	B	B	B	B
Heat loss per day	1.12kWh	1.24kWh	1.12kWh	1.24kWh
Height including fittings	1315mm	1650mm	1315mm	1650mm
Width	520mm	520mm	520mm	520mm
Depth	520mm	520mm	520mm	520mm
Maximum Domestic Hot Water (DHW) Operating pressure	3 Bar	3 Bar	3 Bar	3 Bar
Bottom off-peak immersion heater	3kW	3kW	3kW	3kW
Re-heat time using only bottom off-peak 3kW Immersion to 60°C	80 mins	107 mins	80 mins	107 mins
Top boost immersion heater (on peak)	3kW	3kW	3kW	3kW
Draw off volume heated (on peak)	50ltrs	50ltrs	50ltrs	50ltrs
On-peak heat up time	20 mins	20 mins	20 mins	20 mins
Primary coil for additional or primary heat source	No	No	Yes	Yes
Maximum operation pressure for primary coil	N/A	N/A	14 Bar	14 Bar
Primary coil top connections	N/A	N/A	22mm Compression	22mm Compression
DHW coil top connections	22mm Copper Tube	22mm Copper Tube	22mm Copper Tube	22mm Copper Tube
Mixing valve and strainer included	Yes	Yes	Yes	Yes
¾" F Overfill can be fit into a low temperature waste pipe	Yes	Yes	Yes	Yes
Overfill to internal waste or external pipework	Yes	Yes	Yes	Yes
Internal Overfill Kit	Yes	Yes	Yes	Yes
	Optional / Standard	Optional / Standard	Optional / Standard	Optional / Standard
Energy Source	Electricity Only	Electricity Only	Electricity & Additional Heat Source	Electricity & Additional Heat Source

*Draw off test at 15ltrs a minute flow rate

ABOUT HARLEQUIN MFG

Harlequin have been at the forefront of manufacturing development in the rotationally moulded plastic storage products industry for over 35 years. From its base in N. Ireland, Harlequin now sell to over 25 countries worldwide with an unrivalled reputation for quality, backed up with its 9001, 14001 and 18001 Management System Certifications.

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Harlequin
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SEWAGE TREATMENT PLANT

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HydroStore
RAINWATER HARVESTING

Harlequin
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; 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. ©Harlequin. Issue: UKHS-1/2019