

Electric - Electricity Only


Harlequin  
**HeatStream**<sup>®</sup>  
HOT WATER SYSTEM

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

# HEATSTREAM ELECTRIC

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



 @harlequinMFG

[www.harlequinplastics.co.uk](http://www.harlequinplastics.co.uk)

**Harlequin**<sup>®</sup>  
MANUFACTURING FOR TOMORROW



# Harlequin® HeatStream®

HOT WATER SYSTEM

Model Shown:  
HS150E



HeatStream 150  
Electric  
[External Discharge  
to Waste Pipe]

150 Electric 210 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 overflow 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 overflow connection at all.



Model Shown:  
HS150E-IOF

HeatStream 150  
Electric 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



Secondary Fast  
Heat Up Boost  
Immersion giving  
50ltrs within 20  
mins



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.

## 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 separately.

# TECHNICAL SPECIFICATIONS

| Description   | HeatStream Electric    |                        |
|---|------------------------|------------------------|
|   | HS150E / HS150E-IOF    | HS210E / HS210E-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                      | 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                    |
| ¾" 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) |
|   | 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.

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## 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.