

# Hydraulic Interface Unit (HIU)

**HARTON**  
heatboard single



# HARTON single heatboard

Heat transfer with control

## Honeywell heat meter (optional)

- Energy consumption recorded
- Digital display
- mBus interface for remote monitoring

## Differential pressure regulator

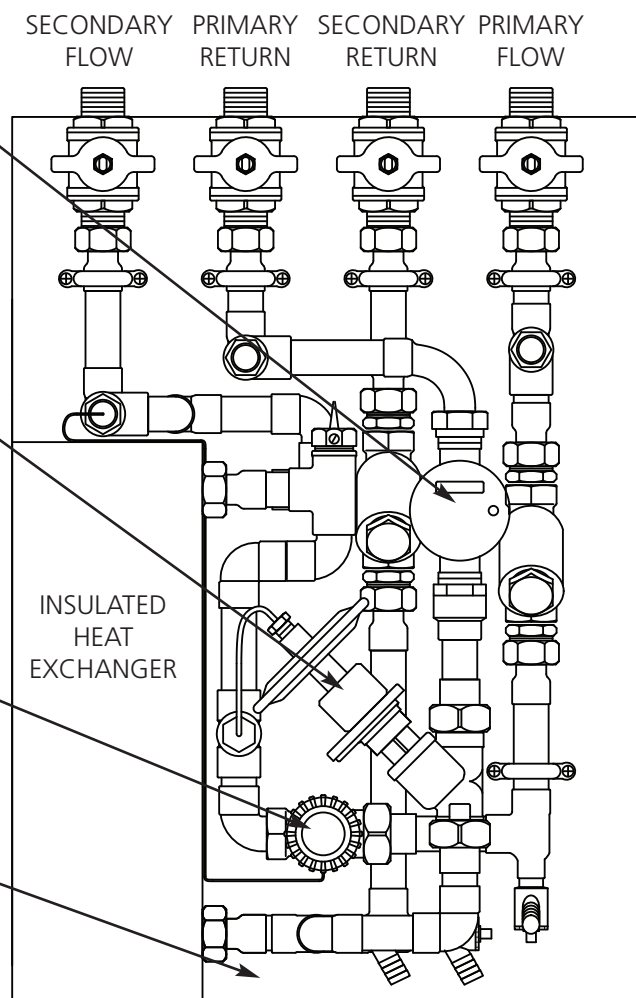
- Accurate differential pressure control
- Factory pre-commissioning
- Reduced noise from excessive flow
- Factory pre-set option
- System balancing

## Temperature control

- Secondary flow temperature control valve
- Simple manual adjustment

## Insulation

- Fully insulated casing and backplate
- Minimum heat loss to building fabric
- Improved efficiency



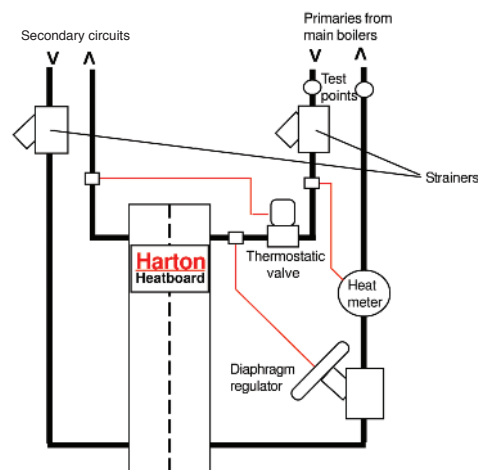
## Method of operation

Primary hot water from the main boiler plant transfers heat via the exchanger to the secondary water.

Flow temperature to the secondary circuit is controlled by a thermostatic valve regulating the flow of primary hot water to the heat exchanger.

The differential pressure regulator on the primary circuit controls the flow rate of the primary supply to the heat exchanger.

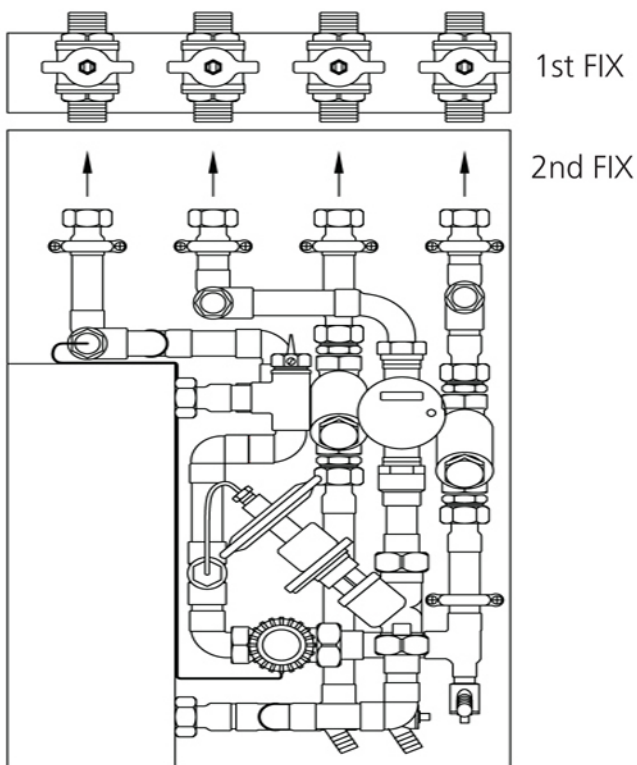
Inlets from primary and secondary circuits are protected by strainers. Heat meter is optional.



Heat transfer with ease

# HARTON heatboard single

The **Harton Heatboard SINGLE** is a UK manufactured, cost effective Hydraulic Interface Unit (HIU) with single heat exchanger enabling controlled heat transfer between a central boiler plant and a low pressure heating and hot water system in an individual dwelling.



## System protection

- High quality strainers on primary and secondary inlets

## Maintenance

- Swivel union connections for all major components
- System isolating valves enabling quick removal and replacement of entire board

## Simple first fix

- Wall plate, with pre-mounted system isolation valves, enables the first fix to be carried out prior to the installation of the main board, reducing the risk of damage or theft

## "Plug and play" second fix

The main Harton Heatboard slots into the wall plate and is secured to the wall by a single keyhole location fixing. Union connections couple the board to the isolating valves on the wall plate and the unit is ready for operation. The white enamelled casing then hooks over the whole assembly.

## Specification

**Casing:** 600mm High X 420mm Wide X 270mm Deep

**Weight (empty):** 19 Kg

**Connections:** 4 X 3/4" MBSP, valved

**Typical heating performance** (without hot water load):

Primary and secondary flow rate: 0.28 litres/sec

Primary flow and return temperatures: 90 / 70 °C

Secondary flow / return temperatures: 80 / 60 °C

(Equivalent to 23.4 kW)

**Typical storage heat up rate** (without heating load):

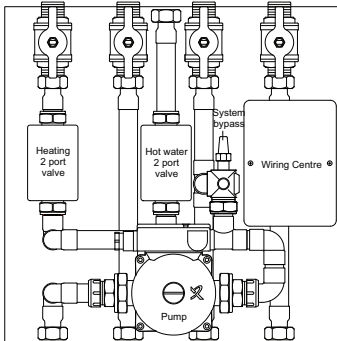
Primary flow rate: 0.28 litres/sec

Primary flow temperature: 90°C

Water heated 10°C to 65° in 15 minutes: 180 litres

**Standing heat loss to atmosphere:** < 25 Watts

## Add ons for the **HARTON** single heatboard

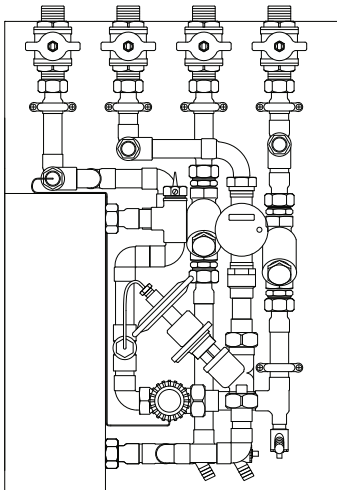


### Module with pump, two motorized valves, automatic bypass and wiring centre

For connection to radiator and hot water cylinder circuits. Connects directly to the Heatboard and is 400mm high x 420mm x 260mm.

### Underfloor heating module with manifolds, pump and mixer valve

Module is 400mm high and can be close coupled with Heatboard or be used in conjunction with twin motorized valve module above.



### OTHER OPTIONS

**Heatboard TWIN** has two heat exchangers to supply separate space heating and hot water for taps (*see separate leaflet*).

### Complete packages

Harton can also supply complete plumbing assemblies to customers requirements. Shown right is an integrated package with **Heatboard SINGLE** plus a close-coupled hot water cylinder with pump and controls for space heating and high performance hot water.

See [www.hartons.co.uk](http://www.hartons.co.uk) for other Harton products.

*Harton reserve the right to amend specifications without notice.*



## Monitoring and control equipment

Control and monitoring solutions can be very flexible and may include maximisation of plant efficiency, pre-payment metering, heat consumption analysis and control of intermediate heat stores.

For example the optional integral heat meter within the Harton Heatboard is fitted with an mBus connection which is linked via a common network to central monitoring units which can then be programmed to suit customer requirements.

Building Management Systems have the capability to control and monitor the key aspects of a complete community heating scheme from the Energy Centre to the individual living accommodation.

Harton welcome the opportunity to work with the specifiers, contractors and systems integrators to ensure that the Heatboards can be fully matched to the preferred Building Management Systems.