



BOSCH

Heat Interface Units Specifier guide

Next-level heat networks



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Optimise your project with our range of Heat Interface Units. From property to plant room, with our dedicated project teams, we've got you covered.

Why choose from our HIU range?



Reliable heating

Enjoy peace of mind with Bosch quality and BESA accredited products.



Low temperature integration

Maximum performance and minimum temperature loss.



Tried and tested

We've been providing heat network solutions for over a decade.



Our HIU range

With a full range of Direct and Indirect HIUs, we can support you from concept right through to delivery. Whatever the project, we'll help you determine the right solution for your needs by assessing various factors:

- Required performance and efficiency
- System pressures and temperatures
- Cost and energy consumption
- Installation and maintenance

Direct HIU



One plate heat exchanger providing instant domestic hot water (DHW) at a regulated temperature. The primary heat supply is hydraulically separated for DHW production and space heating is a controlled direct supply to radiators.

Plate heat exchanger	1 x DHW
Pump	No
Expansion vessel	No

Why Direct?

Direct HIUs are streamlined and potentially more efficient, making them an attractive option when conditions allow.



Cost saving
The simplified design could help lower unit and installation costs.



Efficiency gains
Lower potential approach temperature across the plate heat exchanger.



Easy installation
Fewer components make for fast-fitting installation.



Smaller networks
Suitable for smaller networks with a lower likelihood of leakage.

Indirect HIU



Two heat exchangers – one for providing instant domestic hot water (DHW) at a regulated temperature and another for space heating (CH) within the property. The primary heating circuit is hydraulically separated from the property by both plate heat exchangers, providing higher security from district leaks.

Plate heat exchanger	1 x DHW 1 x CH
Pump	Yes
Expansion vessel	Yes

Why Indirect?

In the UK, Indirect HIUs are the most popular option, offering greater safety and reliability.



Hydraulic separation
Dual heat exchangers isolate residential DHW and heating, preventing disruptions from leaks.



System reliability
Separated water systems make Indirect HIUs inherently reliable.



Safety & resilience
Residential leaks are contained, preventing network drainage and maintaining water quality.



Large networks
Suitable for larger heat networks and higher system pressures.

Why specify the Flow 8500 Indirect HIU?



BESA registered
BESA 2023 regime test registered, designed for the most energy efficient heat networks.



Reduced return temp.
Our precision temperature sensors ensure high performance, accurate control and overall network efficiency.



On demand DHW
Improved domestic hot water response time whilst maintaining HIU efficiency.



Improved VWART
More energy efficient due to reduced VWART performance.



Reliable design and performance
Built to withstand the demands of future heat networks.



DHW peak performance
Perfect for multiple use, without disturbance to the flow rate, even at peak times.

Product data

HIU Model	Part Number
Flow 8500 40	7 735 600 739
Flow 8500 40 H	7 735 600 740
Flow 8500 50	7 735 600 741
Flow 8500 50 H	7 735 600 742
Flow 8500 60	7 735 600 743
Flow 8500 60 H	7 735 600 744

H indicates heat meter included.

Flow temperatures

	Flow 40, 50, 60
Maximum flow temperature of primary circuit	90°C
Maximum flow temperature of heating circuit	70°C
Maximum DHW temperature	60°C
Maximum operating pressure	10 bar
Maximum primary differential pressure	4.5 bar

Accessories

Product	Part Number
Flow 8500 Pre Fix Kit (Flat Faced)	7 735 600 837
Flow 8500 Pre Fix Kit (Compression)	7 735 600 836
Vertical Plumb Kit HIU (Compression)	7 733 600 127
HIU Keyless Filling Link (Compression Fix Pack Only)	7 716 192 610
Bypass Valve (Summer Bypass)	7 733 600 132
Flushing Valve (Compression)	7 733 600 133
Flushing Valve (Flat Face)	7 733 601 142
Accessory HIU Anti-Theft Fixings	7 733 600 281

Product	Part Number
Greenstar System Filter Mini 22mm	7 733 600 266
Greenstar System Filter 22mm	7 733 600 236
CR400	7 738 114 081
CR11	7 738 112 963
Water Hammer Arrestor	7 735 600 804
Over Temp Shut Off Valve	7 735 600 808



Scan here to find out more about the Flow 8500

Why specify the Flow 8000 Direct HIU?



Low temp. integration
Maximum performance, minimum temperature loss.



Central water pressure
Top up pressure in plant rooms, reducing maintenance, call outs, and interventions.



Smaller radiators
Preserve space in smaller properties and keep replacement costs down.



Central water treatment
Maintained in plant rooms, reducing disruption to individual homes.



Zero approach temp.
For more efficient low temperature heating systems.



Central network pump
Costs for individual homes lowered, as system flow is maintained from plant rooms.

Product data

HIU Model	Part Number
Flow 8000 40 D	7 735 600 733
Flow 8000 40 DH	7 735 600 734
Flow 8000 50 D	7 735 600 735
Flow 8000 50 DH	7 735 600 736
Flow 8000 60 D	7 735 600 737
Flow 8000 60 DH	7 735 600 738

H indicates heat meter included.

Flow temperatures

	Flow 40, 50, 60 D
Maximum flow temperature of primary circuit	90°C
Maximum flow temperature of heating circuit	70°C
Maximum DHW temperature	60°C
Maximum operating pressure	10 bar
Maximum primary differential pressure	4.5 bar

Accessories

Product	Part Number
Flow 8000 Pre Fix Kit (Flat Faced)	7 735 600 758
Flow 8000 Pre Fix Kit (Compression)	7 735 600 759
Vertical Plumb Kit HIU (Compression)	7 733 600 127
HIU Keyless Filling Link (Compression Fix Pack Only)	7 716 192 610
Bypass Valve (Summer Bypass)	7 733 600 132
Flushing Valve (Compression)	7 733 600 133
Flushing Valve (Flat Face)	7 733 601 142
Accessory HIU Anti-Theft Fixings	7 733 600 281

Product	Part Number
Greenstar System Filter Mini 22mm	7 733 600 266
Greenstar System Filter 22mm	7 733 600 236
CR400	7 738 114 081
CR11	7 738 112 963
Water Hammer Arrestor	7 735 600 804
Flow 8000 D Cold Water Outlet	7 735 600 806
Over Temp Shut Off Valve	7 735 600 808



Scan here to find out more about the Flow 8000

Why specify the Greenstar Indirect HIU?

Our heat interface unit provides domestic hot water and space heating for properties that use district heating or centralised boiler plants (supplied with a heat meter).

- ▶ Domestic hot water and central heating on demand with hydraulic system separation and two heat exchangers
- ▶ Domestic hot water and space heating temperature control
- ▶ Domestic hot water heat exchanger to operate on demand only.



Product data

HIU model	Part Number
Greenstar HIU E with HM	7 735 600 724
Greenstar HIU KE with HM	7 735 600 725

Accessories

Product	Part Number
Pre-fix Kit (Flat Faced)	7 733 601 188
Pre-fix Kit (Compression)	7 733 601 272
Heat Meter Adaptor kit	7 733 600 119
Security Fixings	7 733 600 281
Rear Vertical Piping Kit	7 733 600 127
Flushing Valve	7 733 600 133
Summer Bypass	7 733 600 132
Keyless Filling Link	7 716 192 610
CR400	7 738 114 081



Scan here to find out more about the Greenstar Indirect HIU

Dedicated support and expertise

Whether designing a new build, retrofit, or deep renovation heat network – our project team will support you on early-stage designs to configure energy centres, HIU selections and everything in between.

Using an in-house simulated heat network, our training academy can test specific design parameters against each HIU to guarantee that design matches in-use characteristics.

- ▶ Supporting your design stages through HNTAS
- ▶ Helping to ensure minimum heat losses
- ▶ Supporting your product configurations
- ▶ BIM level 2 covering entire product range
- ▶ Design and schematic reviews
- ▶ Dedicated Bosch consultant assigned to you



Scan here to find out more and get in touch with our project team



Training

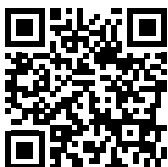
Install with confidence

Learn everything you need to know about our Heat Interface Units (HIUs), with our product training courses specifically tailored to your needs. Our hands-on courses are perfect for those who want to specify and/or install HIUs as part of a heat network/district heating system.

Supporting you

Our courses are here to support you throughout the whole design and installation process, covering:

- ▶ The fundamentals of a heat network
- ▶ Connections to the district heating, cold water, hot water and the space heating
- ▶ Operation, servicing and maintenance
- ▶ Fault finding including potential network issues
- ▶ We also provide CIBSE approved CPDs, helping you keep up to date with industry knowledge and trends



Scan to start your training:
worcesterbosch-academy.co.uk

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