



BOSCH

Heat Interface Units Specifier guide

Next-level heat networks



BESA

BUILDING ENGINEERING
SERVICES ASSOCIATION



Next-level heat networks

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 CE certified 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?

Indirect HIUs are the more 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.



Improved VWART
More energy efficient due to reduced VWART performance.



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



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



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



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

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.

- ▶ 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

Get in touch

Sales

Tel: 03330 608 456

Email: commercial.industrial@uk.bosch.com

Technical Helpline

Tel: 0330 123 0165

Email: technical-advice@uk.bosch.com

Controls Helpline

Tel: 0330 123 3641

Training

Tel: 0330 123 0166

Email: training@uk.bosch.com

Bosch Commercial and Industrial

Cotswold Way

Warndon

Worcester

WR4 9SW

bosch-industrial.co.uk

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