



Commercial Plate Heat Exchangers

The new GB commercial plate heat exchangers are a ready-made solution for separating the boiler from heating systems with old, dirty and poor quality system water and allow our range of GB boilers to be fitted on an open-vented system.

Enhanced reliability and efficiency

The GB Plate Heat Exchanger ensures boiler water and system water never meet. The heat exchanger protects the boiler and therefore minimises potential downtime, as well as improving long-term efficiency.

Open-vented system

The GB Plate Heat Exchanger allows all GB commercial boilers to be installed on an open vented system. The Plate Heat Exchanger separates the primary (boiler) and secondary (heating system), therefore protecting the boiler's heat exchanger from system water by effectively creating its own sealed system. Plate Heat Exchangers can also be used to provide boiler protection when installing within an old, sealed secondary system.

Please note that system flushing and treating must still occur as best practice. The Plate Heat Exchanger is sized on the basis of a boiler ΔT of 20°C and a system ΔT of 11°C.

Sized to match all boiler outputs

Each GB Plate Heat Exchanger has been sized to match all possible combinations of GB boiler single and cascade installations – and this is clear in the product name. This means that the pump flow rates are suitable and allow heat to efficiently transfer in the plate heat exchanger, while also ensuring that existing pumps can be used in cases of retrofit.

Compatible with existing GB boiler controls

As the GB Plate Heat Exchanger can simply be treated as a Low Loss Header our RC35, MCM10 and 4000 controls can still be used to ensure the boiler is operating at the right level of modulation, via flow temperature sensors.

NEW Plate Heat Exchanger



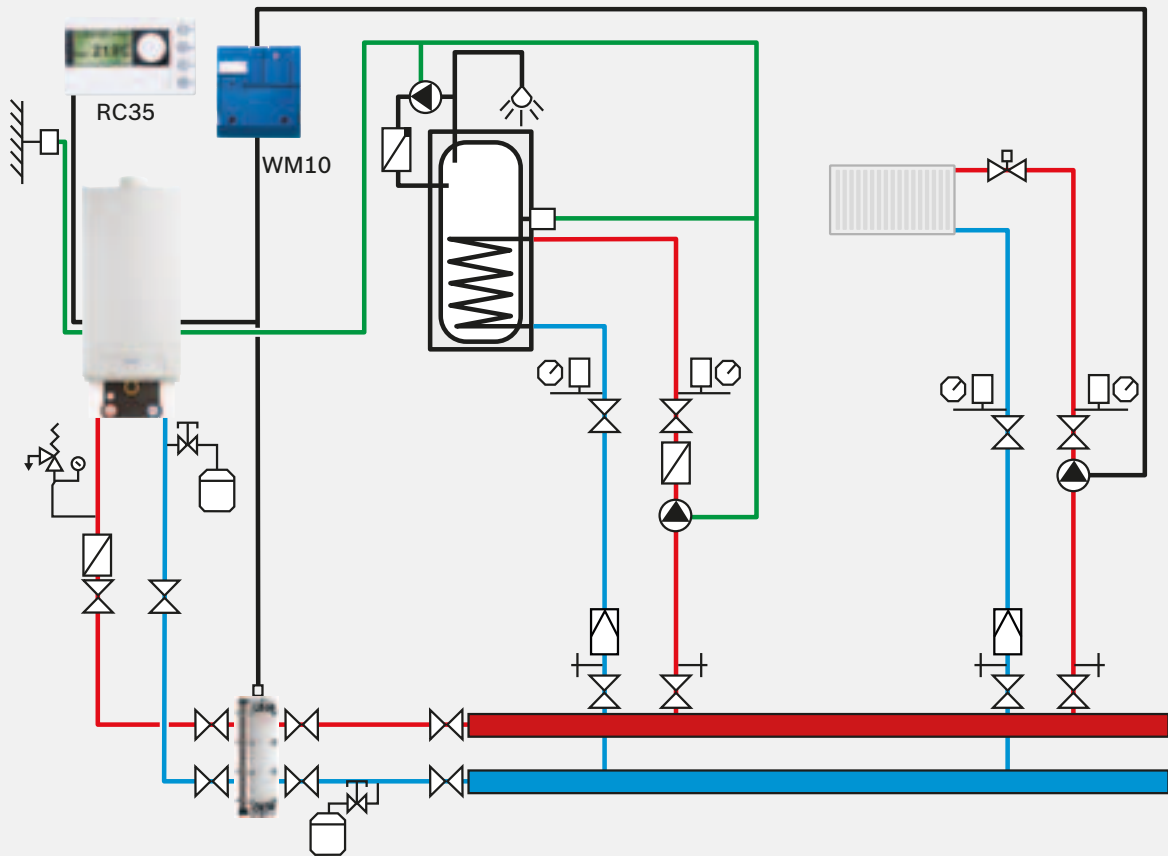
Features and benefits of GB Commercial Plate Heat Exchangers at a glance:

- ▶ Enhanced reliability and efficiency
- ▶ Maximises running hours, overall efficiency and availability of heating and hot water
- ▶ Allows all GB boilers to be installed on an open vented system
- ▶ Improved installation flexibility and options
- ▶ Sized and matched for all GB boiler outputs
- ▶ Time saving when designing the heating system and easy to specify and order
- ▶ Compatible with our range of GB boiler controls
- ▶ Precise energy management.



BOSCH
Invented for life

Typical Plate Heat Exchanger application



GB162

65kW	80-100kW	101-140kW	141-180kW	181-230kW	231-280kW	281-400kW	401-520kW	521-640kW	641-800kW
7-733-600-014	7-733-600-016	7-733-600-017	7-733-600-018	7-733-600-020	7-733-600-021	7-733-600-023	7-733-600-024	7-733-600-026	7-733-600-027

GB312

90kW	120-180kW	181-300kW	301-400kW	401-500kW	501-560kW
7-733-600-015	7-733-600-019	7-733-600-021	7-733-600-022	7-733-600-024	7-733-600-026

GB402

320-400kW	401-500kW	501-600kW	601-880kW	881-1080kW	1081-1240kW
7-733-600-022	7-733-600-024	7-733-600-026	7-733-600-028	7-733-600-029	7-733-600-030

Note when specifying a PHE:

Opt for Cascade Kit without Low Loss Header option;
e.g. TL2 Boiler Cascade Kit without LLH (7747201426)
instead of TL2 Boiler Cascade Kit with LLH (7114064).

The Plate Heat Exchanger is also supplied with tailor-made insulation in order to ensure minimal heat losses. Standard factory fittings are pre-fitted external (male) threads on all 4 connections (1¼", 2" or 2½" depending on the model). Stud bolts are supplied for when mounting on a skid.

Flow Temperature Sensor must be installed.

- ▶ With RC35 controls, a WM10 must be installed (provides FK terminal for wiring of sensor) – sensor included
- ▶ For cascades controlled with the MCM10 sequencer, use the sensor supplied (connection point E in Installation Manual) – FV/FZ sensors required (5991376)
- ▶ With 4000 controls – FK connection to be used – additional sensor not required (4000 controls supplied with sensor)
- ▶ FK sensor to be strapped on secondary flow pipe.