

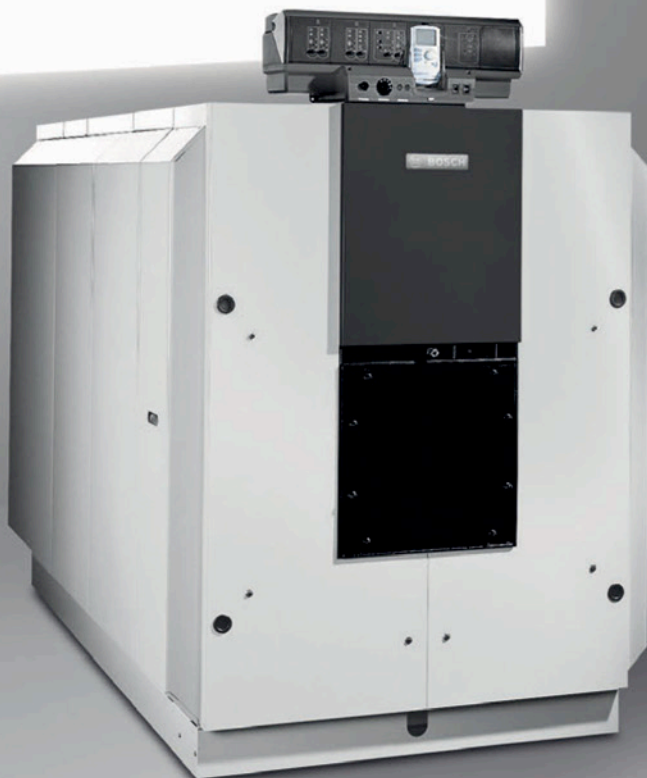


Powerful technology for high demands
Bosch Uni 7000 F oil/gas boilers



BOSCH

Invented for life



Flawless quality

For heat output ranging from 511 to 1,200 kW the compact and robust Uni 7000 F low-temperature boilers are an ideal solution for housing complexes, office buildings, industrial and manufacturing companies, and public buildings. Depending on your requirements, the Uni 7000 F can be fitted with burners suitable for gas, oil or dual fuel operation.

High efficiency, low emissions: the three-pass principle

Optimal combustion, low exhaust gas temperatures and very effective 100 mm thick all-round insulation ensure that the Uni 7000 F operates at a high level of efficiency, making economical use of resources. The boiler works using the three-pass principle. The products of combustion are channelled through the boiler in a manner that maximises the duration of travel. This allows the boiler surfaces to absorb almost all of the heat that is generated. The energy yield is optimised and emissions are reduced. The Uni 7000 F thus achieves standard efficiency of up to 94% net efficiency or 88% gross efficiency for gas operation. It is matched perfectly with Weishaupt Monarch burners to achieve outstanding performance and efficiency.

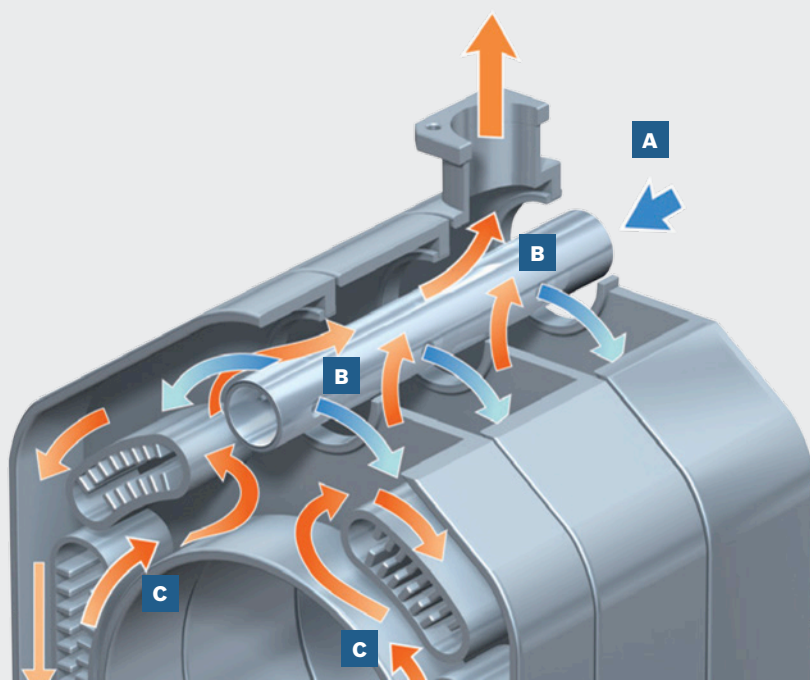
Thermostream technology: reliable protection from condensation

With traditional low-temperature boilers, damage to the surfaces can result from the formation of condensation when the unit is in continuous operation. The Uni 7000 F is protected from this by Thermostream technology. Before the cooler return water comes into contact with the boiler surface, it is mixed with warm feed water and heated. This means that the temperature of the boiler surfaces always remain above the dew point and condensation cannot form.



Everything under perfect control: CFB930

With the CFB930 Controller you can manage single- and multiple-boiler systems to meet your precise needs. The control unit provides a selection of different operating modes that can be activated automatically depending on the time, date or temperature. Clearly structured menus and function buttons with self-explanatory symbols facilitate effortless operation. Manual switching between operating modes is also possible at any time. The CFB930 Controller unit can be flexibly extended with function modules that are simply inserted into the control panel.



Thermostream technology in detail

Thermostream technology is a unique feature of Bosch cast iron boilers. Return water **A** is preheated and mixed within the boiler **B** before it comes into contact with the heated surface of the combustion chamber **C**. Thermostream technology, not only prevents condensation, but ensures there is an even temperature distribution in the boiler. This reduces thermal stress, the main cause of failure for normal cast iron boilers.

Special cast iron: Resilient and durable

Low temperature boiler operation places high demands on materials. That is why Bosch produces the Uni 7000 F using special cast iron with a high density of graphite and silicone. This material makes boilers particularly resistant to corrosion, giving them a long service lifetime. Furthermore, this specifically developed cast iron is extremely elastic, allowing for the optimal design of the combustion chamber and secondary chambers.

All-round convenience: easy to install and simple to maintain

The Uni 7000 F, is supplied in sections that can be easily assembled in plant room situations with limited access. Maintenance is straight forward too: large front doors and combustion gas channels can be cleaned easily from the front making work easy for technicians.

Technical specifications Uni 7000 F								
Boiler Size kW	570	660	740	820	920	1,020	1,020	1,200
Number of boiler sections	9	10	11	12	13	14	16	16
Nominal output in kW	511–570	511–570	661–740	741–820	821–920	991–1,020	991–1,020	1,111–1,200
Water Capacity in l	561	621	681	741	801	861	921	981
Permissible flow temperature in °C ¹	120	120	120	120	120	120	120	120
Pressure drop on hot gas side in mbar	2,4	3,4	4,2	4,2	4,1	4,5	5,4	5,8
Permissible operating pressure in bar	6	6	6	6	6	6	6	6
Net weight in kg ²	2,505	2,747	2,990	3,232	3,475	3,710	3,710	4,147
Piping connections								
Boiler Flow / Return	Connection flange DN 150							
Unit dimensions:								
Height ³ in mm	1,826	1,826	1,826	1,826	1,826	1,826	1,826	1,826
Width (mm)	1,281	1,281	1,281	1,281	1,281	1,281	1,281	1,281
Depth (mm)	3,116	3,116	3,116	3,116	3,116	3,116	3,116	3,116

1) Safety limit (high limit safety cut-out); maximum flow temperature 18 K lower than safety limit (STB)

2) Weight incl. packaging is approx. 6 % to 8 % higher

3) Including control unit

Advantages at a glance:

- ▶ Eight versions with heat output ranging from 511 to 1,200 kW
- ▶ A choice of oil, gas or dual-fuel operation
- ▶ High performance thanks to low-temperature technology based on the three-pass principle, achieving standard efficiency of up to 94% Nett and 88% Gross.
- ▶ Protection against condensation in constant operation with Thermostream technology
- ▶ Special cast iron provides a long service life and resistance to corrosion
- ▶ Compact space efficient design
- ▶ Easy to operate and maintain



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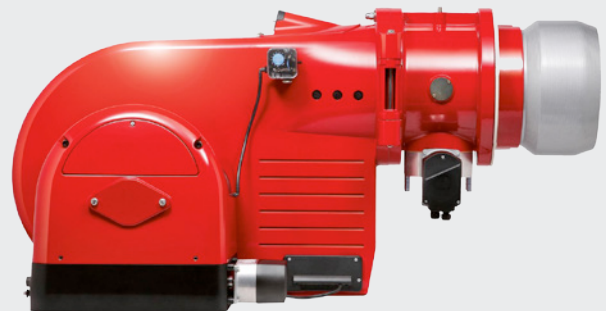
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Weishaupt Burners and Combustion Management

The boilers are offered with exceptional quality burners from Weishaupt Germany. These fully modulating burners offer the highest levels of performance and lowest emissions for standard packaged equipment. The burner has an integrated digital Burner Management System (BMS) that eliminates cams and linkages, even on multi-fuels. This W-FM digital combustion manager was co-developed with Siemens, with many advantages including fault self-diagnosis, elimination of mechanical linkages for air/fuel ratio control and infra-red or UV self checking flame sensor.

The benefits include:

- ▶ Exceptional high quality for enhanced reliability
- ▶ High efficiency combined with the lowest emissions (CO and NOx)
- ▶ High turndown capability
- ▶ Digital Burner Management System (BMS) with clear fault messaging
- ▶ Servo motors for air & fuel for precise repeatable combustion
- ▶ Low noise operation
- ▶ Optional Dual Fuel configuration (Diesel / Heavy Oils / Biogas)
- ▶ Energy Saving options of VSD and O2 trim



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