

**High-output calorifier**  
Modul-plus

**Hoval**

Responsibility for energy and environment

**Efficient, reliable and economical.  
The Modul-plus meets the highest standards in terms of  
continuous hot water production and water hygiene.**

# Modul-plus.

## Advantages at a glance.

Thanks to its unique design Modul-plus provides rapid temperature recovery and constant high efficiency heat transfer whilst offering reliable protection from legionella making it a popular choice for hotels, leisure centres, sports halls and large commercial properties.

The Modul-plus can handle even the highest temperatures required by operations such as large farms or abattoirs with ease. In addition, it can easily be integrated with other Hoval equipment as well as other makes of boilers.

### Economical



#### Cost efficient

- **Low power consumption**  
as the sophisticated design enables low pressure drop to be achieved and allows for operation with just a single loading pump
- **Demand-led, efficient solution**  
due to 7 installation sizes and cascading option

### Ecological



#### Technologically advanced design protects against legionella

- **Legionella resistant**  
due to Hoval heat transfer system and special cylinder design
- **Long service life**  
due to use of stainless steel

### Easy to use



#### Minimal space required, easy to transport

- **Easy installation**  
due to compact, robust design, light weight and less pipe work and fittings
- **Minimal floor space required**  
due to narrow, compact design
- **Low maintenance**  
due to reduced calcification and stainless steel modular cells that can be accessed individually from the front

### Sophisticated



#### Optimised energy savings

- **High unit efficiency**  
due to counterflow principle and patented rippled heat transfer surface
- **Constant heat transfer**  
due to special calcification-resistant heat transfer system
- **Can be precisely adapted to meet demand**  
due to flexible cell principle
- **Able to handle chloride content up to 300 mg/l**  
with optional correx anode

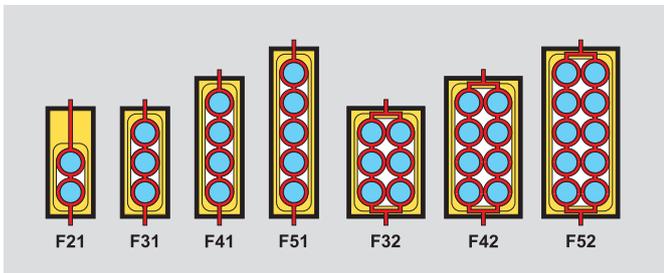
# Modul-plus.

## Unique solution for high hot water output with optimum protection against legionella.



### The unique cell principle: high peak capacity and huge continuous output.

Central to Hoval Modul-plus are the integrated high grade steel heating cylinders. The water content of each modular unit is 115l and 1.42m<sup>2</sup> of heating surface ensures an efficient heat transfer for each cylinder. The large water capacity guarantees an extra-ordinary high 10-minute output and the generous heating surface provides a high constant output.

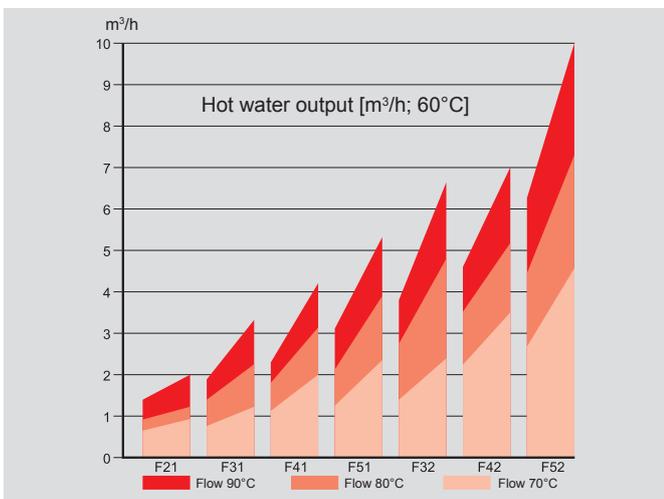


The cell principle with 7 installation sizes enables optimum configuration.



### Precisely adapted to meet demand.

Seven installation sizes and the wide range of primary and secondary water temperatures and flow rates allow for optimum configuration. Whether for a hotel, a hospital, an industrial building, a sports centre, a block of flats or a 300-unit housing development – the Hoval Modul-plus always offers an economical solution that is precisely tailored to the building's needs.



Output at a glance: the right Modul-plus for every hot water demand.



### Constant heat transfer and easy to clean

The heat transfer system for the Modul-plus is much more resistant to calcification than conventional calorifiers. This results in constant heat transfer and significantly reduces the amount of maintenance required. The stainless steel modular cells and robust design help to ensure a long service life. Particular attention has also been paid to making sure that the Modul-plus is easy and convenient to clean and that the individual modular cells are easy to access. Each cell can be accessed from the front and is therefore simple to clean.



### Cost efficient

The Hoval Modul-plus is distinguished by a high efficiency due to its contrary flow system. The low flow resistance allows operation with a single, small dimensioned loading pump. This reduces energy consumption as well as investment costs.



### Minimal space required, easy to transport

Thanks to its high continuous output, the Modul-plus requires significantly less floor space than conventional calorifiers that store the water needed to last a whole day. The calorifier can be placed directly next to the boiler with closely coupled pipe work. This reduces the installation costs. In particularly confined spaces, there is also the option of transporting the system disassembled and installing it on-site. The Modul-plus is supplied in smaller units and can be transported disassembled to the boiler installation room. Hoval specialists then carry out the final installation work on-site.

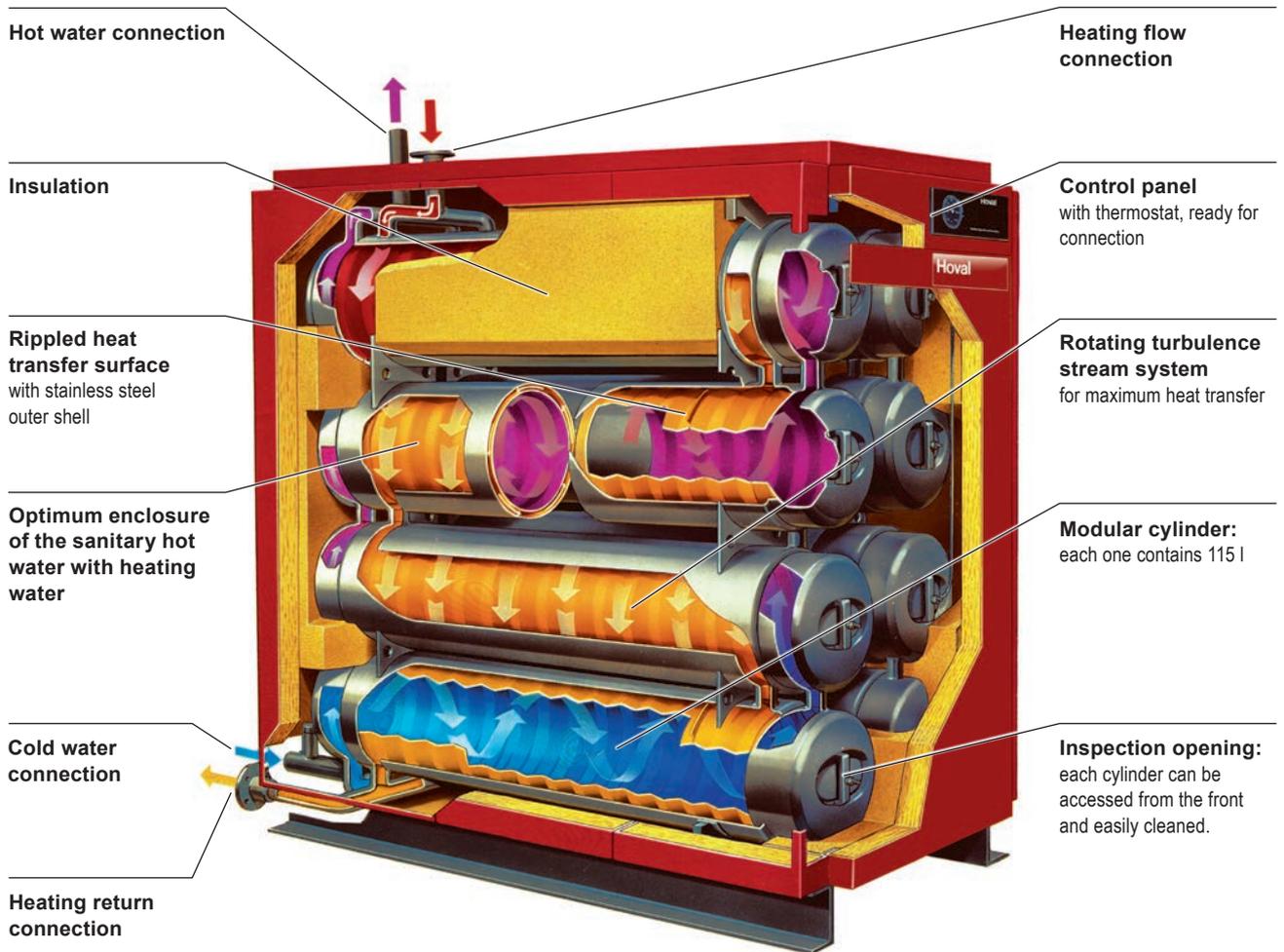


### Hygienic and safe water convenience

No chance for bacteria or legionella. Due to the double shell principle, the sanitary inner wall temperatures are only marginally lower than the heating flow temperature. The cultivation of a bio-film in which legionella or other bacteria growth can occur is significantly reduced. What's more, the small hydraulic diameter guarantees that water reliably flows through the entire cylinder and dead zones are prevented. With these characteristics, the Modul-plus becomes a guarantee for a safe and perfectly hygienic water supply.

# Modul-plus.

Modular cells offer maximum output of up to 17 500 l/h\*



Technical data								
Modul-plus		F (21)	F (31)	F (41)	F (51)	F (32)	F (42)	F (52)
Continuous output at 45°C **	l/h	2840	4600	6150	7900	9200	10500	15600
Continuous output at 60°C **	l/h	1300	2400	3200	3950	4800	5400	7400
Peak output at 45°C **	l/10 min	542	778	1113	1477	1556	2113	2877
Width	mm	630	630	630	630	985	985	985
Height	mm	1755	1755	1940	2300	1755	1940	2300
Depth	mm	2087	2087	2087	2087	2087	2087	2087
Water content	l	249	367	485	603	721	957	1193
Heating surface	m <sup>2</sup>	2.84	4.26	5.68	7.1	8.52	11.36	14.2
Weight**	kg	165	215	265	315	370	470	570
number of flats approx. (e.g. multi dwelling)		up to 12	up to 25	up to 45	up to 80	up to 90	over 100	

\* at 45°C, based on 10° C cold water in and 90° C boiler flow temperature

subject to change

\*\* based on 10° C cold water in and 80° C boiler flow temperature

\*\*\* without casing

Note: Above data should be checked with Hoval for suitability before purchase

The Modul-plus calorifier offers hot water outputs ranging from 640 to 17500 l/h and reliable protection against legionella and other bacteria. Its compact design, efficient heat transfer and flexibility when used in large-scale projects makes it the ideal choice for every investor.



**Modul-plus**  
Space-saving with the  
highest output levels.

# Solutions you can rely on.

# Hoval

## Responsibility for energy and environment.

The Hoval brand is internationally recognised as one of the leading suppliers of indoor climate control solutions. Around 70 years of experience have given us the necessary capabilities and motivation to continuously develop exceptional solutions and technically superior equipment.

Maximising energy efficiency and thus protecting the environment are both our conviction and our incentive. Hoval has established itself as an expert provider of intelligent heating and climate control systems that are exported to over 50 countries worldwide.



## Hoval indoor climate systems

Indoor climate systems ensure top air quality and economical usability. Hoval has been installing decentralised systems for many years. The key to its work is using combinations of multiple air conditioning units (even those of different types) that can be controlled individually, but also together as a single system. This enables Hoval to respond flexibly to a wide range of requirements for heating, cooling and ventilation.



## Design support from experts.

Take advantage of the expertise of our experienced specialists. We will be happy to support you throughout all project phases when designing your system.

Working in close cooperation with you and taking into account all the specifications of the energy supplier, we develop the most efficient and cost-effective solution for you.



## Hoval service expertise.

Hoval systems are professionally commissioned by specially trained and experienced Hoval service technicians, ensuring that the systems will operate perfectly from day one.

Maintenance and troubleshooting are performed on-site by an expert customer service team.

Hoval Group

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