

High-output calorifier
Modul-plus

Hoval

Favourite choice für refined domestic hot water convenience.

Modul-plus. Advantages at a glance

It is the favourite choice for refined hot water convenience in renowned hotels around the world. It easily covers peak outputs in sports facilities when all showers are working simultaneously. It guarantees secure protection against infections in homes for the aged, hospitals and health resorts – basically wherever the highest standards are required concerning water hygiene - because its unique hygiene performance doesn't give legionella and other bacteria even the slightest chance.

economical



High economic viability – low costs.

- **Guaranteed enormous hot water production at peak times**
- **Boiler-Modul-plus cascade systems** due to the control TopTronic® T
- **Each individual Modul-plus can be temperature controlled**

ecological



No chance for legionella or other bacteria.

- **No possibility for breeding of legionnaires disease**, due to the temperature and limited hot water storage
- **99% efficiency** due to compact design and maximum insulation thickness

easy to use



Simple handling

- **No calcification problem**
- **Internal inspection of every calorifier bottle easily possible** through the inspection opening
- **We supply sizing charts and guide lines** through our specialized project division
- **Any hot water demand can be adapted** due to individual sized units
- **Well proven**, more than 500.000 calorifier bottles are in operation all over the world

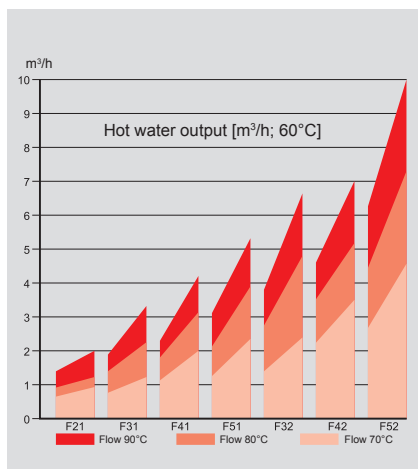
clever



Compact and complete

- **Very small dimensions** allow to make the boiler room smaller, less pipe work and fittings
- **Very little weight** per square meter footprint
- **Easily to install an additional Modul-plus unit** for enlargement of the hot water production
- **All Modul-plus types are able to handle chloride contents up to 300mg / liter**

Modul-plus. Clever installation concept.



Measured to demand to the fraction

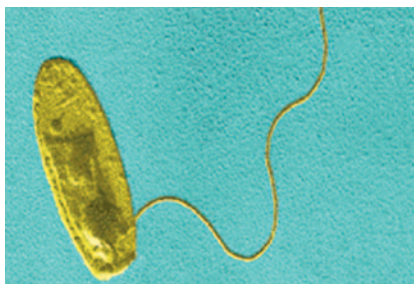
You can cover practically any hot water output with the Hoval Modul-plus. Seven different sizes and the various variations of the primary and secondary water temperature and flow volumes make possible an optimum implementation.

No matter whether it supplies a hotel, a hospital, a manufacturing building, a sports centre, an apartment house with 12 flats or a 300-unit housing development.



High economic viability – low costs

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.



No chance for legionella or other bacteria

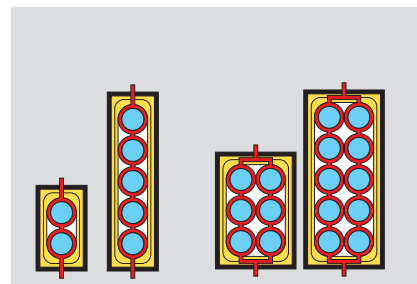
The inner wall temperatures on the secondary side are only marginally lower than the heating flow temperature due to the turbulent nature of the heat transfer. Thus the cultivation of a bio-film in which legionella or other bacteria growth can occur is significantly reduced.

Moreover, safe flowing of the whole contents and the prevention of dead zones is guaranteed thanks to the low hydraulics. With these characteristics the Hoval Modul-plus becomes a guarantee for a safe and perfectly hygienic water supply.



Its versatility is systematic

The Hoval Modul-plus covers a huge range of applications. It is recommended for utilisation in commercial trade and industry, in hospitals, homes for the aged, for housing developments, for district heating systems and especially for hotels, where peaks as well as a high constant hot water demand have to be covered. Even in places where very high temperatures are requested, e.g. on large agricultural farms or in Abbatoirs, the Hoval Modul-plus is the ideal solution and can naturally be operated in combination with Hoval boilers or other makes of boilers.



The cell principle:

Central to Hoval Modul-plus are the integrated high grade steel heating cylinders. The water content of each modular unit is 115 l and 1.42 m² of heating surface ensures an efficient heat transfer for each cylinder. The large storage capacity guarantees an extra-ordinary high 10-minute output and the generous heating surface provides an enormous constant output.



Maximal output on minimal space

The Hoval Modul-plus amazes not only with its enormous output capability but also with its modest space requirements. It requires distinctly less space than conventional calorifiers due to its high flow output. Since the calorifier can be placed directly next to the boiler with closely coupled pipe work. This reduces the installation and maintenance costs.



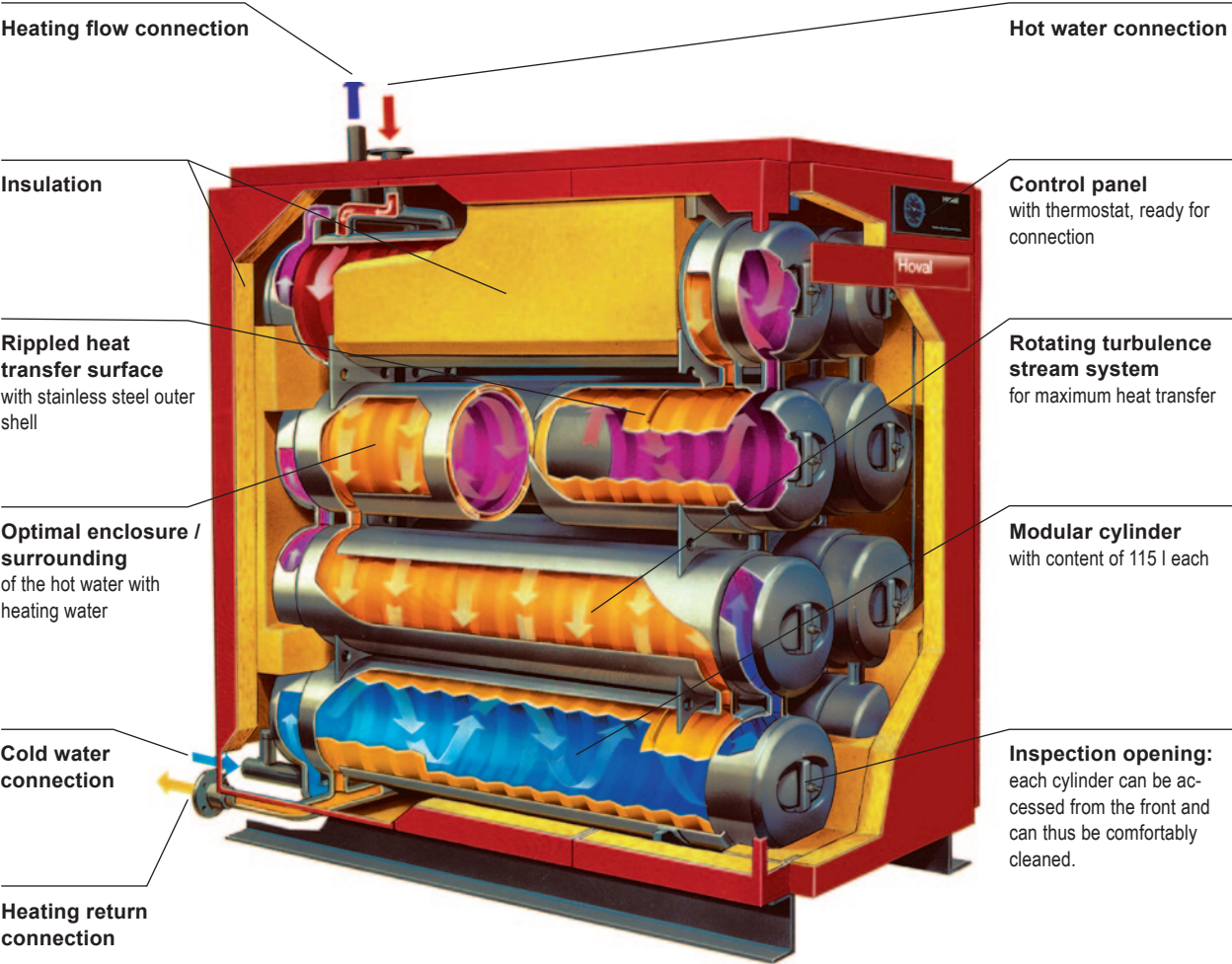
High chloride content approved

All Modul-plus types are approved up to a chloride content for domestic hot water with a maximum of 300 mg/litre.

Modul-plus Type	Maximum chloride content of drinking water (mg/liter)
(F21), (F31), (F41), (F51), (F32), (F42), (F52)	30
	100
	200
	300

Modul-plus.

Flexible application possibilities.



Technical data							
Hoval Modul-plus Type	(F21)	(F31)	(F41)	(F51)	(F32)	(F42)	(F52)
continous output at 45°C l/h*	2850	4600	6150	7900	9200	10500	15600
peak output at 45°C l/10 min min*	530	530	530	530	885	885	885
width mm	530	530	530	530	885	885	885
height mm	1615	1615	1800	2160	1615	1800	2160
depth mm	1872	1872	1872	1872	1872	1872	1872
storage content l	230	345	460	575	690	920	1150
heating surface m²	2.84	4.26	5.68	7.1	8.52	11.36	14.2
weight**kg	165	215	265	315	370	470	570

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

** without casing

subject to alterations

Typical choice of the suitable Hoval Modul-plus with the appropriate output (apartment house)											
number of flats	12	14	16	18	20	26	30	35	40	50	70
Type of Hoval Modul-plus	(F21)	(F31)	(F31)	(F31)	(F41)	(F41)	(F51)/(F32)	(F51)/(F32)	(F32)	(F32)/(F42)	(F42)/(F52)

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

For superior hot water supply and secure protection against legionella in any commercial or large building. No matter what the requirements are, the Hoval Modul-plus high-output calorifier guarantees a perfect solution and best protection against legionella covering any hot-water output from 640 up to 17500 l/h.



What you can count on.

Hoval



Clever and complete solutions from a single source

Consistent Hoval system technology simplifies the links between different technologies and establishes a reliable platform for efficient and dependable solutions. With us, you can easily incorporate solar or biomass energy solutions into your heating system. Hoval – everything you need from one source.



Planning support from experts

Hoval are happy to assist you and your planning partners in developing progressive systems, allowing you to take advantage of our expertise, and to count on the experience of our specialists.

Ask about Hoval system solutions and learn more about the many ways to combine highly efficient condensing boilers with our range of renewable products.



Hoval Service.

For specialist commissioning and maintenance of your Hoval appliances contact our service and spare parts department or your local Hoval partner.

This is your guarantee for economical operation, reliability and added value.

Responsibility for energy and environment.

The Hoval brand is internationally known as one of the leading suppliers of indoor climate control solutions. More than 65 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 commitment and our incentive. Hoval has established itself as an expert provider of intelligent heating and ventilation systems that are exported to over 50 countries worldwide.

Your heating planner/installation engineer

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