Hoval

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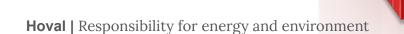
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Hoval CompactGas E

High-efficiency boiler for peak performance.

Low operating costs Robust and reliable Saves space and installatior



Hoval CompactGas E High efficiency boiler.

A proven bestseller, the CompactGas E has been developed in the Swiss Alps. Together with our Chinese engineers, we have customised it for the requirements of the Asian market. It is manufactured in our own factory in China according to Swiss standards and combines the know-how and experience of both worlds. **The right choice for your heating or hot water system!**

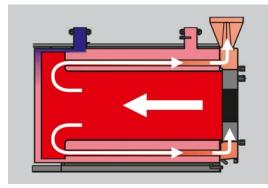
Your benefits:

- Low operating costs
- Robust and reliable
- Saves space and installation

Hoval -7 D CompactGas E High efficiency boiler for heating and hot water systems 700-7000 kW 60 0 \mathbf{H} 2

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The main reason for the very low gas consumption is the unique, highly efficient aluFer® heat exchanger. Its aluminium fins have an extremely large and effective surface area for heat transfer, which lowers the flue gas temperature and increases efficiency. CompactGas E's large water content reduces the burner's start/stop cycles and thus increases system efficiency. It also reduces flow resistance and allows the use of smaller, more energy-saving pumps. Additionally, the large, wide-opening front door saves working time and offers quick and easy access for all service activities.

Robust and reliable

For over 75 years, Hoval boilers have been known for their robust construction, durability, and reliability. With the CompactGas E, an indestructible steel shell on the waterside ensures a lifetime of high performance. Behind every CompactGas E, however, is also the reliability of the Hoval organisation: all products, systems, control technology as well as the competent, worldwide customer support come from a single source!



Saves space and installation

It doesn't get any more compact than this. Thanks to the aluFer® heat exchanger's high efficiency, the CompactGas E requires approx. 25% less floor space than other boilers of comparable output. All important access points are located on the front and top. This means that the CompactGas E can be installed with only a minimum of clearance.

This compact installation reduces investment costs for the building and also saves expensive pipe material and installation costs.

For a consultation or quote contact us at: engineering@hoval.com

Hoval CompactGas E Easy Engineering.

Hot water: The better system with CompactGas E and Modul-plus

One of the best hot water systems is the combination of CompactGas E and Modul-plus: The slimline Hoval fresh water system offers the highest efficiency in a small space:

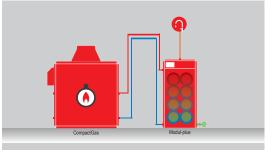
maximum efficiency

without any problems.

- very high hot water output
- effective protection against legionella

A booster for conventional hot water systems: The high efficiency and versatility are also ideal for conventional hot water systems. This means that the CompactGas E can also be combined

easily with calorifiers or plate heat exchangers

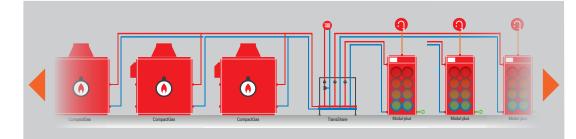


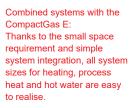
Hot water and heating: CompactGas E for small to large systems

The wide range of outputs makes the CompactGas E perfect for combined systems of all sizes.

Not only can cascades of up to eight boilers be operated with a single control unit, but thanks to the system's small space requirement it can also be expanded later at will. Through a heating distributor – e.g. the Hoval TransShare – energy can be provided for hot water preparation as well as for heating or process heat appliances.

This guarantees both maximum system efficiency and hygienically clean drinking water in small spaces.





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Hoval CompactGas E ... for different buildings.



Automotive Technology & Research Center; Tianjin

The CATRC is China's key technological project, focusing on the state's management of automobile product safety, environmental protection, energy conservation and anti-theft.

The main laboratories that have been built successively include: automobile emission laboratory, automobile collision laboratory, automobile safety laboratory, automobile lighting and visual field laboratory, engine laboratory etc.

- Boiler: 6 CompactGas (2200)
- Total output: 13200 kW
- System: Heating and hot water for labs and apartments
- Building space: 150 000 m²





City Mall; Lanzhou

The City Mall is Lanzhou's first commercial, residential and service complex.

- Boiler: 7 CompactGas (2800)
- Total output: 19600 kW
- System: Heating and hot water
- Building space: 300 000 m2





Production of Automotive Components; Shanghai

The company's business scope includes the production, technology research and development of electronic components related to automotive chassis systems.

- Boiler: 2 CompactGas (1400)
- Total output: 2800 kW
- System:

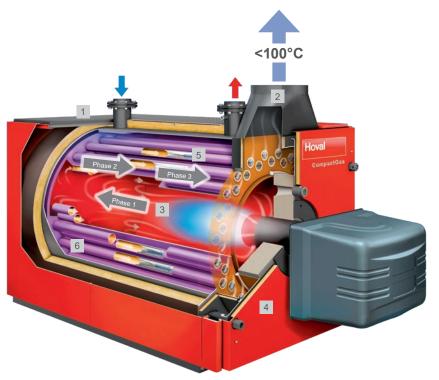
Process water for production line and heating for staff apartments



For a consultation or quote contact us at: engineering@hoval.com

Hoval CompactGas E (700-2100)

Technology and specifications.



- 3 phase heat transfer with aluFer® Phase 1 Phase 2 Phase 3
- 1. Heat transfer inside the combustion chamber: Large dimensioned combustion chamber for **Iow NOx operation**
- Heat transfer inside the first part of the flue gas pipes reduces the flue gas temperature from flame temperature to an intermediate level.
- 3. Heat transfer inside the second part of the flue gas pipe (aluFer[®] tube): The aluminum fins of the aluFer[®] heat exchanger have an especially enlarged heating surface. Reduction of the flue gas temperature down to 100°C or lower.

1 Walkable boiler top

All maintenance work on the CompactGas E is carried out from the front and from above. The practical work platform for access from above is standard.

2 Flue outlet

The flue gas/chimney connection is located at the top front of the boiler and thus does not block any additional floor space. This also saves piping and installation effort.

3 Amply dimensioned combustion chamber

Due to the large combustion chamber, the exhaust gases are quickly discharged from the burner. This ensures clean combustion. In addition, it enables heat transfer in 3 phases with only one deflection.

4 Pivoting front door

Thanks to the large, wide-opening front door, all cleaning work can be done very quickly and directly from the front. No clearances are necessary at the sides and rear, and valuable space is saved.

5 aluFer[®] heat exchanger

The high-performance heat exchanger ensures low exhaust gas temperatures and high efficiency. The aluminium fins with their huge surface area transfer the heat highly efficiently and ensure low flue gas temperatures.

On the water side, the robust steel jacket ensures a long service life.

6 Large water content

The large water content ensures low hydraulic resistance and saves electricity for the circulation pump.

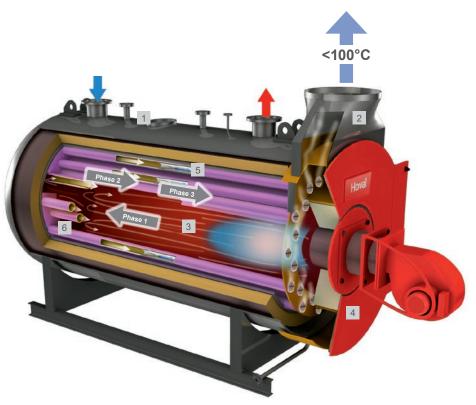
It compensates for short consumption changes and thus reduces the number of burner start-ups.

CompactGas E		(700)	(1050)	(1400)	(2100)
Standard output at 80/60 °C	kW	700	1000	1400	2100
Nominal output range at 80/60 °C	kW	250 – 700	315 – 1050	420 – 1400	630 – 2100
Boiler efficiency at full load 80/60 $^{\circ}\text{C}$ (H)	kW	95.8	95.6	95.9	96.3
Flue gas temperature at full load 80/60 °C	°C	< 100	< 100	< 100	< 100
Max. operating pressure	bar	7	7	10	10
Weight inclusive casing	kg	2200	2600	3750	5890
Length Width Height	mm	2520 1306 1606	2600 1529 1778	2856 1730 1936	2754 1800 2085

(Hu) ... lower calorific value

Hoval CompactGas E (2800-7000)

Technology and specifications.



3 phase heat transfer with aluFer® Phase 1 Phase 2 Phase 3 1. Heat transfer inside the combustion chamber:

Large dimensioned combustion chamber for **low NOx operation**

2. Heat transfer inside the first part of the flue gas pipes reduces the flue gas temperature from flame temperature to an intermediate level.

3. Heat transfer inside the second part of the flue gas pipe (aluFer[®] tube): The aluminum fins of the aluFer[®] heat exchanger have an especially enlarged heating surface. Reduction of the flue gas temperature down to 100°C or lower.

1 Walkable service platform

All maintenance work on the CompactGas E is carried out from the front and top. For easy access from above, a work platform with railing and ladder is included as standard...

2 Flue outlet

The flue gas/chimney connection is located at the top front of the boiler and thus does not block any additional floor space. This also saves piping and installation effort.

3 Amply dimensioned combustion chamber

Due to the large combustion chamber, the exhaust gases are quickly discharged from the burner. This ensures clean combustion. In addition, it enables heat transfer in 3 phases with only one deflection.

4 Pivoting front door

Thanks to the large, wide-opening front door, all cleaning work can be done very quickly and directly from the front. No clearances are necessary at the sides and rear, and valuable space is saved.

⁵ aluFer[®] heat exchanger

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On the water side, the robust steel jacket ensures a long service life.

6 Large water content

The large water content ensures low hydraulic resistance and saves electricity for the circulation pump. It compensates for short consumption changes and thus reduc-

es the number of burner start-ups.

CompactGas E		(2800)	(3500)	(4200)	(5600)	(7000)
Standard output at 80/60 °C	kW	2800	3500	4200	5600	7000
Nominal output range at 80/60 °C	kW	840 – 2800	1050 – 3500	1260 – 4200	1680 – 5600	2100 – 7000
Boiler efficiency at full load 80/60 $^{\circ}\text{C}~(\text{H}_{_{\!\!u}})$	kW	96.3	96.3	95.9	96.3	95.7
Flue gas temperature at full load 80/60 °C	°C	< 100	< 100	< 100	< 100	< 100
Max. operating pressure	bar	10	10	10	10	10
Weight inclusive casing	kg	6300	8400	8900	13000	15300
Length Width Height	mm	3867 1960 2370	3917 2144 2560	4200 2144 2560	4764 2450 2892	5070 2580 3006

(Hu) ... lower calorific value

Subject to modifications

Hoval quality. You can count on us.

Hoval

As a specialist in heating and climate technology, Hoval is your experienced partner for system solutions. For example, you can heat water with the sun's energy and your rooms with oil, gas, wood or a heat pump. Hoval ties together the various technologies and also integrates room ventilation into the system. So you can save energy while looking after the environment and your costs – and still enjoy the same level of comfort.

Hoval is one of the leading international companies for indoor climate solutions. More than 75 years of experience continuously motivate us to design innovative system solutions. We manufacture complete systems for heating, cooling and ventilation to more than 50 countries.

We take our responsibility for the environment seriously. Energy efficiency is at the heart of the heating and ventilation systems we design and develop.

Responsibility for energy and environment

China

Hoval Oriental Beijing Heating Tech Co., Ltd Rm.1608 Guangming Hotel Liangmaqiao Road Chaoyang District 100125 Beijing P.R. China www.hoval.com.cn

Switzerland

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