



CompactGas
Steel Shell Boiler

Hoval

Responsibility for energy and environment

Output range 1000 to 2800 kW



Why choose CompactGas?

The CompactGas high-efficiency boiler featuring our patented aluFer® heat exchanger delivers market-leading efficiency and cost effective heating performance.

Our wide range of boilers will suit almost any customer's space heating requirements.

Economical



Super high efficiency

- **Low heating costs**
due to 97.5% efficiency rating
- **Efficient fuel usage**
due to modulating burner technology and integral aluFer® technology
- **Power saving** due to large water capacity

Ecological



Low emissions due to clean combustion

- **Clean combustion**
offering low NOx outputs less than 80mg/kWh
- **Lower CO₂ emissions**
due to minimal gas consumption
- **Outstanding emissions values**
due to optimised modulation of the burner

Easy to use



Simple maintenance

- **Less cleaning required**
due to clean combustion
- **Easy to use**
due to intelligent design details
- **User friendly controls**
with TopTronic®T system
- **Convenient remote maintenance**
using TopTronic® online

Sophisticated



Versatile operation

- **Space saving** due to compact design
- **Time saving installation**
due to flexible connection options
- **Large range of applications**
due to flexible combination options
- **High output achievable**
using double or multiple boilers with central controller

The complete CompactGas range extends from 1000 kW to 2800 kW boilers. At Hoval we have the perfect system for almost any requirement.



CompactGas

Highly efficient, low carbon heating for commercial applications

CompactGas (1000 - 2800)

Innovative high efficiency boiler for medium sized commercial applications

Chequer plate top significantly eases installation in a boiler room

Large furnace chamber for optimal and clean combustion

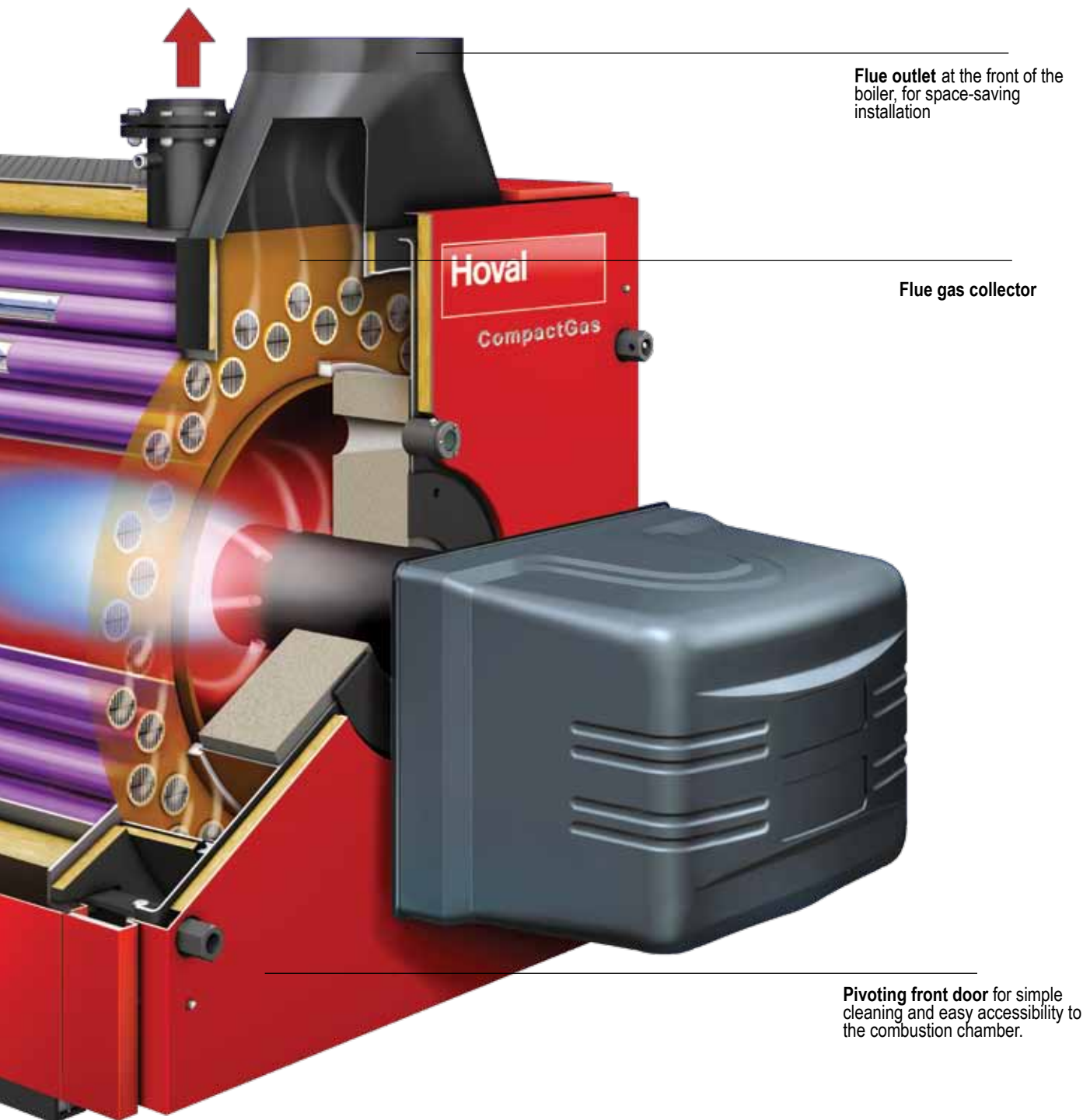
aluFer® heat exchanger ensures an excellent, uniform heat transmission and low flue gas temperatures



Technical data		1000	1400	1800	2200	2800
CompactGas						
Nominal output at 80/60 °C	kW	1000	1400	1800	2200	2800
Heat output range at 80/60 °C	kW	300 - 1000	420 - 1400	540 - 1800	660 - 2200	840 - 2800
Boiler efficiency at full load*	%	96.4	96.0	96.5		
Boiler efficiency at partial load 30%*	%	97.4	97.3	97.4	97.5	
Max. operating pressure	bar				6	
Boiler water content	litres	1130	1580	2020	2534	2844
Boiler weight	kg	2100	2794	3500	4455	5567

* relative to net calorific value
For detailed technical information please refer to separate brochure

subject to modification



Flue outlet at the front of the boiler, for space-saving installation

Flue gas collector

Pivoting front door for simple cleaning and easy accessibility to the combustion chamber.

Closing the gap between low-temperature and condensing technology

Development of the high-efficiency CompactGas is based on a low temperature boiler which had reached its efficiency limits. The aluFer® heat exchanger, used as the secondary heating surface, ensures a high heat transfer rate with effectively lower flue gas temperatures than is typical with conventional high efficiency boilers.

This increases the efficiency factor and qualifies the Hoval CompactGas as a high-efficiency boiler.

Due to the combustion chamber design and the exhaust gases flowing out of the end of the combustion chamber directly into the secondary heating surface, optimum combustion is attained. The

complete incineration principle of the Hoval CompactGas results in a low dwell time in the high-temperature zone of the flame, thus reducing the formation of thermal NO_x. Together with a low NO_x burner, this enables the CompactGas to fulfil the very restrictive emission limit values for a steel shell boiler, less than 80 mg NO_x/kWh.

CompactGas

Featuring our patented aluFer® heat exchanger



Hoval aluFer® technology

The internationally patented aluFer® tube is a Hoval innovation in advanced heat transfer technology. It is constructed from an inner aluminium surface, heat shrunk within an outer carbon steel tube. The exceptional efficiency of the heat transfer is attributed to the following factors:

- The surface area for heat transfer is increased by a factor of five.
- High heat conductivity of aluminium being ten times greater than that of steel
- Optimised turbulence and heat exchange efficiency created by the multiple flow channels on the inner surface of the tube



User-friendly operation

The completely pivoting front door and the accessibility from the front significantly ease maintenance work and boiler and chimney cleaning.



Large water capacity – energy efficiency

The large water capacity of the boiler allows for continuous operation of the burner and fewer starts. This significantly reduces gas consumption.



Sophisticated management for your heating system

The TopTronic® control is the brain of every Hoval system. Innovative microprocessor technology ensures smooth and continuously monitored operation.

The LCD display provides information on operating data, while a single rotary pushbutton and seven keys are used to activate heating programs and settings. If manual intervention is necessary, the required program can be found in seconds in the self-explanatory user guide.





CompactGas and Solar combinations

With the move towards renewable energy, an ever-evolving range of technologies is being integrated into building heating systems.

CompactGas and Solar are a perfect combination to cover additional heating and hot water demands.

By expanding the collector surface area, enough solar power can be generated to provide the required heat.



Flexibility to suit any need

TopTronic® can control systems with up to five heat generators and ten mixing circuits.

Therefore, a wide range of energy sources, including biomass, can be utilised together, delivering a well-coordinated system to meet your heating demands.



System technologies

Hoval system technologies not only make this combination possible but have real economical and ecological benefits.

Fuel savings can be between 20 and 35%, depending on the insulation. In low energy buildings, savings can even reach 50%.

An expert partner



One-stop shopping

With us you can easily incorporate gas, oil, heat pump, solar, CHP, or biomass energy solutions into your heating system.



Technical advice

We are happy to assist you and your planning partners in developing intelligent systems, allowing you to take advantage of our expertise and the experience of our specialists.



After sales

For specialist commissioning and maintenance of your Hoval equipment, contact our service and spares department.

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Hoval follows a policy of continued improvement and reserves the right to change specifications without notice.

Hoval