



Industrial heating boiler

Titan-3 LT

Hoval

Responsibility for energy and environment

High output, high efficiency and fast return on investment.
For industrial applications, hospitals and district heating networks.

Titan-3 LT.

Advantages at a glance.

Our products represent the technological state-of-the-art and our innovative solutions offer extremely low energy consumption in keeping with our motto “Responsibility for energy and environment”.

economical



Cost effectiveness

- **Cost-efficient solution**
due to low investment costs
- **Best effectiveness**
due to water cooled flame tube rear wall
- **High efficiency and energy saving**
due to smooth heating surfaces

Ecological



Lowest emissions

- **Environment friendly** due to lowest noxious emission
- **Low CO₂ emissions** due to minimal consumption
- **Outstanding emissions values**
due to power adjustment (modulation)
of LowNOx burners
- **Low fuel consumption** due to special calculated heat transfer areas resulting in high boiler efficiency

Easy to use



Simple maintenance

- **Easy to use** due to intelligent design details
- **Convenient and accessible remote maintenance**
by using TopTronic® online.
- **Large boiler front doors** which guarantee easy access for cleaning of boiler and burner service
- **Boiler doors hinged** – no special lifting or support tools necessary
- **No fire proof concrete** at back wall of boiler (except inspection opening)

Sophisticated



Perfect solution

- **Large range of applications**
due to flexible combination options
- **Space-saving**
due to compact design
- **Simple installation**
due to high flexibility in positioning
- **Boiler design calculated according to actual rules**

Titan-3 LT.

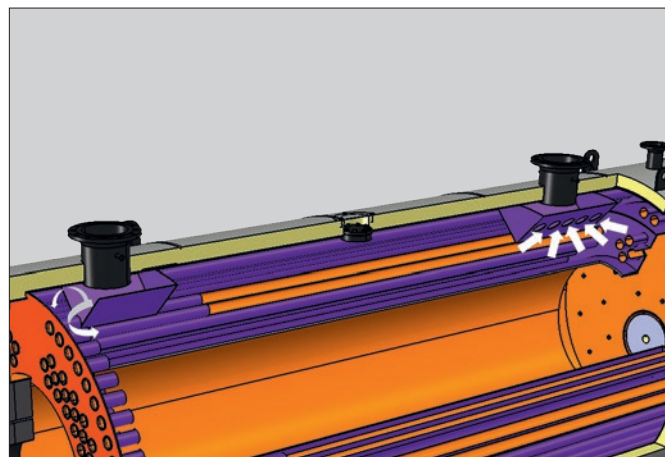
Economical, efficient and low emissions.



Durability

Return water distribution: The return water from the heating system is led directly into the warm area of the boiler by a special water distribution box. Because of the special return inlet the cold water is guided through the complete water content of the boiler – this ensures a very good mixture inside the boiler water and protects the boiler against cold or hot water zones.

The water collection box below the hot water outlet nozzle of the boiler is designed with inlet openings on one side only – this results in an additional increase of the water mixture inside the boiler due to “spiral” water flow inside the boiler shell.



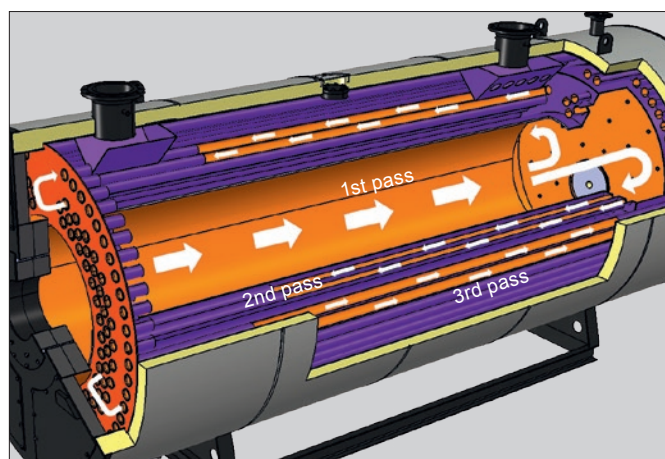
Water distribution box (left) and water collection box (right).



Minimal emissions during all operating conditions

This is achieved by an optimum heating surface geometry and flame tube dimensions which comply with the latest directives. A 3-pass firing sequence guarantees extremely low emission of pollutants and optimum burn-out.

The special design of the boilers minimize the impact of thermal stress inside the boiler and ensure a long service life.



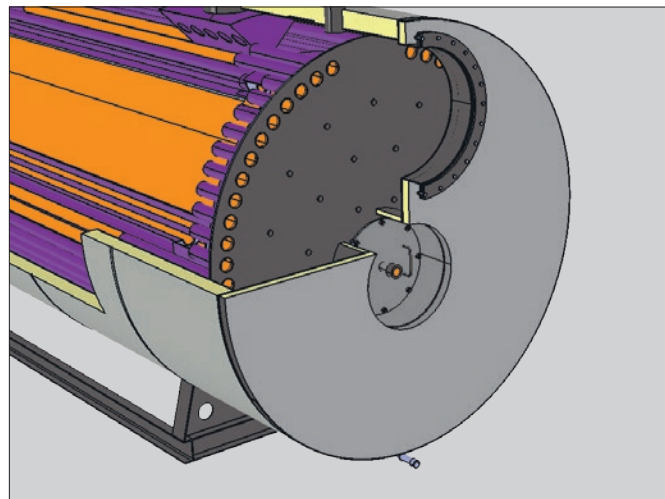
3-pass LowNOx firing



Water cooled back wall for highest efficiency

A water-cooled flame tube rear wall increases the heat utilisation and reduces radiation losses in the boiler. As no additional brickwork (fireclay) is required in the flame tube, maintenance and servicing costs are kept to a minimum. The secondary heating surfaces are smooth and thus very easy to clean.

All Hoval industrial boilers are designed as “natural circulation boilers,” allowing for optimum desludging and draining without the need for external circulating pumps.



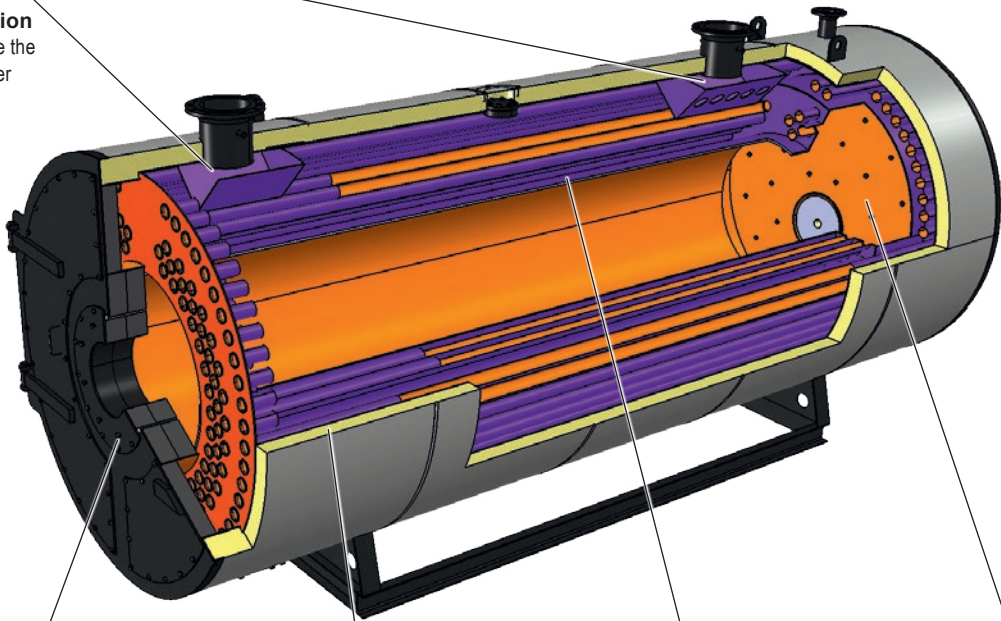
Water cooled turning chamber.

Titan-3 LT.

Simple maintenance for a long service life.

Flow with water collection box

and return water distribution ensure a very good mixture inside the boiler water and protects the boiler against cold or hot water zones.



Large boiler doors

provides easy access for cleaning of the second and third pass. The boiler doors can be easily opened by the special hinge construction to the left and right. The boiler doors with a thermal insulation help to reduce the calorific losses of the boiler to a minimum.

Highly effective thermal insulation

with aluminium cladding reduces the standby losses to a minimum and contributes to highest economy.

Heating surface

The smooth flue gas tubes without any turbulators reduce the exhaust gas losses and make an easy and fast cleaning possible for an economical operation.

Water cooled back wall

The completely water cooled turning chamber of the first to the second pass secure a maximum utilisation of the combustion energy.

Technical data Titan-3 LT Type	Boiler output kW*	Water content litres	Transport weight bar/kg	Net efficiency %**	L/W/H mm
(3000)	3000	5200	10 / 6200	91.6–92.7	4910/1925/2330
(4000)	4000	6325	10 / 7500	91.6–92.7	5152/2020/2420
(4500)	4500	6665	10 / 7900	91.6–92.7	5310/2050/2450
(5000)	5000	6760	10 / 8600	91.6–92.7	5425/2100/2500
(6000)	6000	10535	10 / 11500	91.6–92.7	6132/2350/2750
(7000)	7000	11000	10 / 12500	91.6–92.7	6332/2400/2750
(8000)	8000	11880	10 / 14400	91.6–92.7	6432/2480/2950
(9000)	9000	12500	10 / 16000	91.6–92.7	6432/2580/3050
(10000)	10000	15500	10 / 18600	91.6–92.7	6452/2800/3350

Boiler pressure: standard 6 and 10 bar

* kW Burner setting full load, air coefficient $\lambda = 1.1$

** % With a clean boiler, boiler water (average temperature) = 70 °C, values for 100–80% load

Flue gas temperature at nominal output approx. 180 °C

Dimensions and weight: incl. insulation, without burner and other fitted parts

Subject to modifications

Titan-3 LT.
Industrial heating boiler for oil and gas firing.



Figure: Titan-3 LT

Hoval system solutions with the Titan-3 LT

Following Hoval boilers and the Modul-plus carofier can be easily combined with the Titan-3 LT to form a highly efficient Hoval system solution.



UltraGas®.
Gas condensing boilers.
125–2000 kW.



CompactGas.
High efficiency gas boiler.
700–2800 kW.



Max-3.
3-pass oil/gas boilers.
420–3000 kW.



Modul-plus.
High-capacity calorifier.
Up to 17500 l/h.

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.



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.

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.

The entire Hoval world at a click:



Hoval.com



Hoval.tv



[Hoval 360° App](#)



[Facebook.com/
Hoval](https://Facebook.com/Hoval)



[YouTube.com/
HovalTV](https://YouTube.com/HovalTV)

Your heating planner / installation engineer

Hoval Aktiengesellschaft
Austrasse 70, FL-9490 Vaduz
Principality of Liechtenstein
(Swiss customs territory)
Phone +423 3992 400
Fax +423 3992 618
E-mail: info@hoval.com
www.hoval.com