

Full *steam* ahead... ...for lower **COSTS**

Manufacturing range

STEAM BOILERS



LOOS
INTERNATIONAL
The Boiler Company

Editorial



The confidence of important planners, plant contractors and industrial and power supply organizations from all over the world - which we have enjoyed since 1865.



With products, know-how and service from LOOS INTERNATIONAL, every business associate and customer can expect to achieve the safest, most efficient and environmentally sound use of primary energy.



Innovation and responsibility, creativity and commitment to quality are the yardsticks for our product range as well as for our after-sales services. Quick reactions are guaranteed through the full use of today's electronic communication media like Internet, LOOS-Intranet, LOOS-Extranet, CustomerLogin and Teleservice ensures.



Your contact with LOOS INTERNATIONAL will open up a world of vast experience based on almost 100,000 boiler systems supplied to customers in over 140 countries throughout the world. In our group of companies - active throughout the world - you will find specialists for every application.

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UNIVERSAL

Steam boiler

Certificates by all important inspection authorities worldwide.



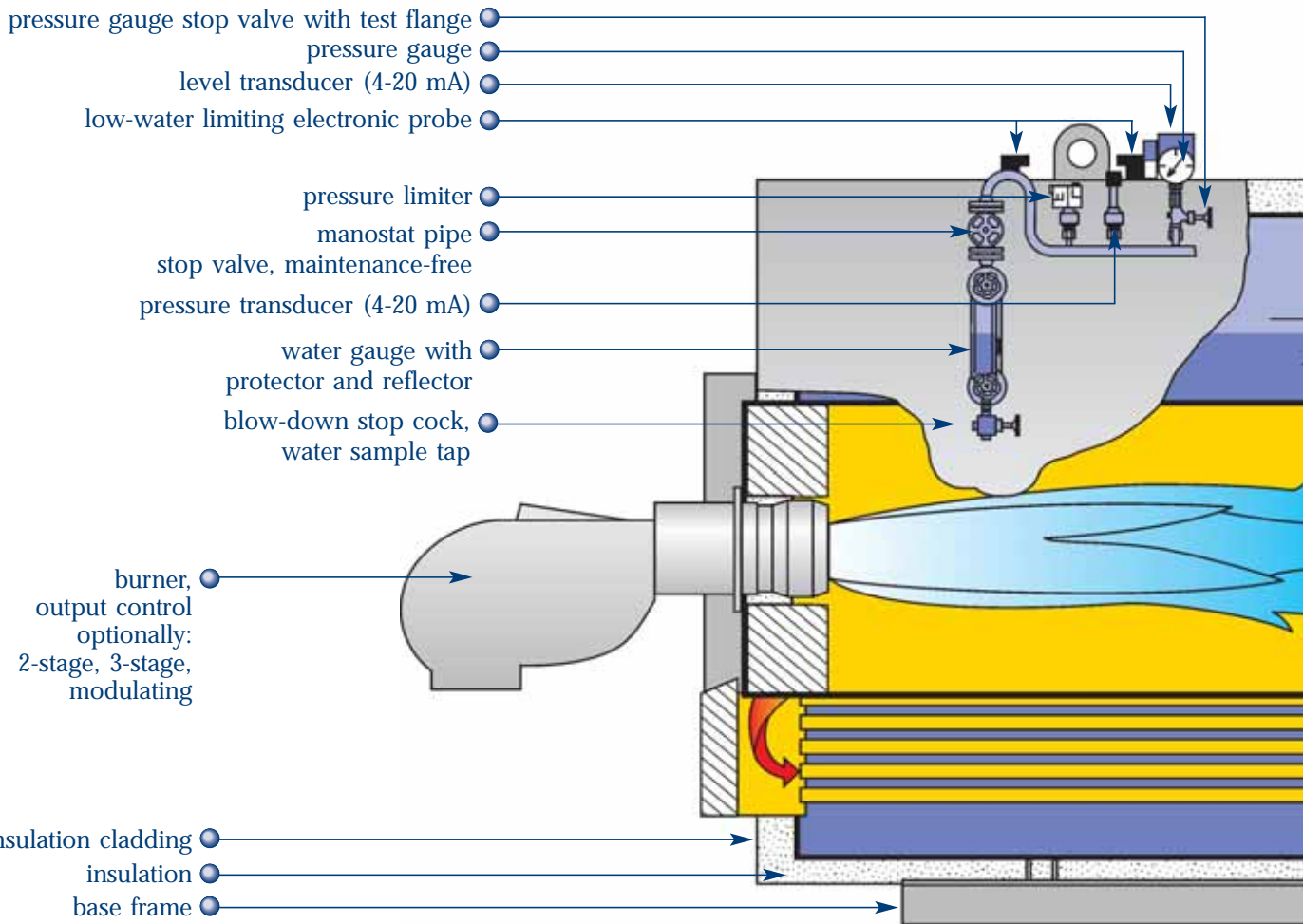
The concept

Shell boilers are flame and smoke tube boilers, whose tubes carry flue gases and are surrounded by the boiler water. Today's shell boilers are based on flame tube/smoke tube boilers either with rear flue gas reversing chamber or with flue gas reversal in the furnace. Shell boilers always have sufficient steam reserve, even during sudden consumption peaks.

● UNIVERSAL Steam Boilers

- Type U-ND/U-HD as flame tube boiler with 2-pass technology up to an output of 175-3,200 kg/h (low pressure) and 175-1,250 kg/h (high pressure) for steam generation
- U-MB type series as a flame and smoke tube boiler with 3-pass technology and steam generation output of 200-2,000 kg/h
- Type UL-S as single flame tube/smoke tube boiler with 3-pass technology up to an output of 1,250-28,000 kg/h for steam generation
- Type ZFR as double flame tube/smoke tube boiler with 3-pass technology up to an output of 18,000-55,000 kg/h for steam generation

The equipment



● **New economy**

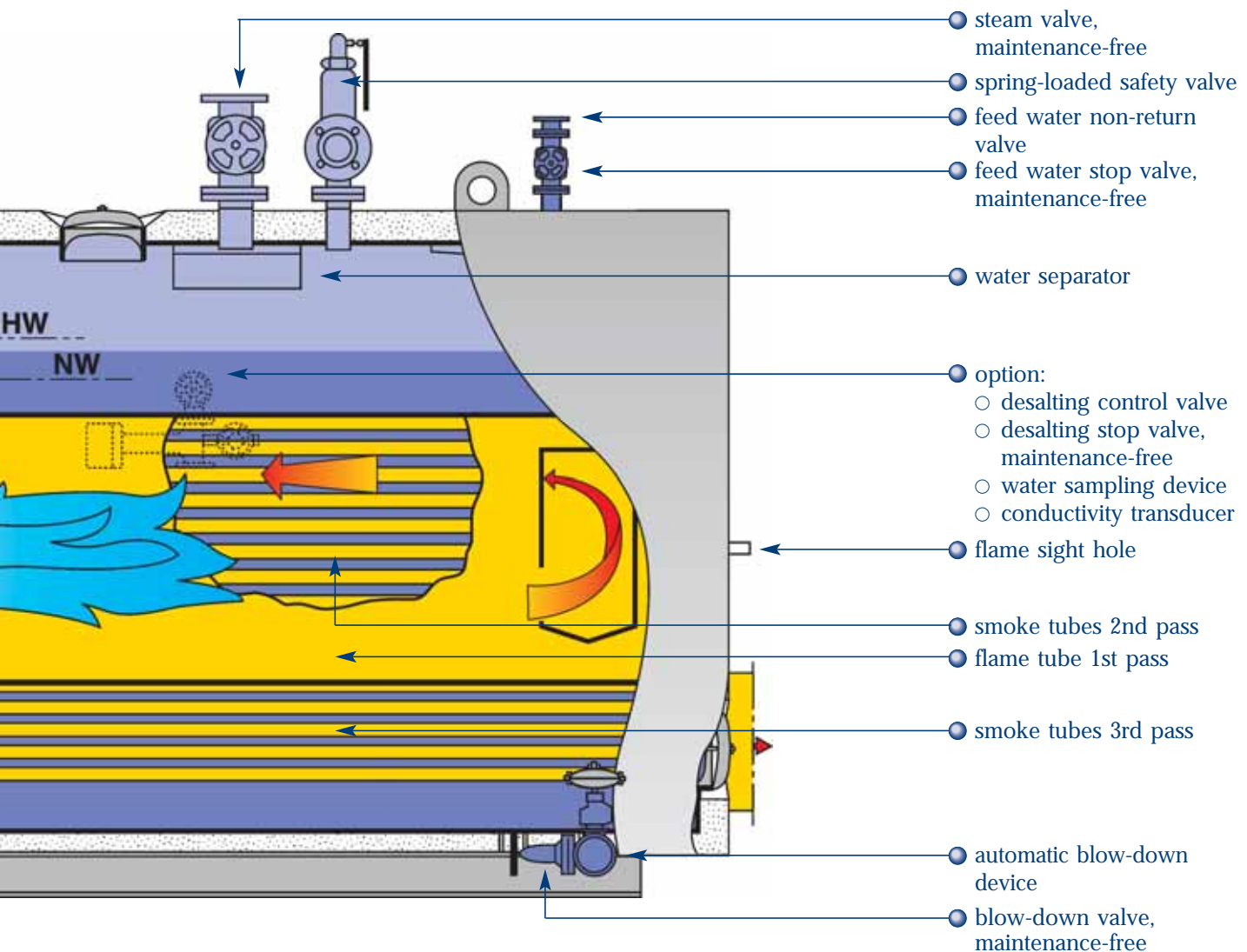
- Minimum flue gas losses: the use of flue gas heat recovery modules leads to optimal fuel efficiency
- Radiation heat losses are kept to an insignificant minimum by high-quality insulating mats and special insulating materials
- Various special features for reduced fuel consumption
- Superior design and careful matching of all components according to the European Pressure Vessels Directive

● **New ecology**

The use of sophisticated firing systems and careful tuning of the optimum boiler/burner combination produces a marked improvement over legal emission limits. In addition, the latest research results and techniques for extremely low emission are constantly incorporated. Our firing system specialists are experts in environmentally responsible burner technology and apply cutting-edge emission reduction technology. For LOOS INTERNATIONAL, the use of environmentally compatible materials is obligatory.

● **User benefit**

- Pollutant-reduced combustion
- Low-noise operation
- Environmentally sound operation
- Official acceptance certificates and check measurements (CE tested)
- Easily passes ecological audit
- Lower fuel consumption
- Lower power consumption
- Lower heat losses
- Less wear
- In total, clearly reduced operating costs



Control and safety technology

for all shell boilers

The concept

For decades now, LOOS boiler operating and safety technology has been ensuring convenient boiler operation, the highest standards of safety and a high level of availability for all steam and hot water generators. The in-house development and manufacture of regulating and safety systems

guarantees solutions that are extremely practical and ensures maximum spare part availability. With conventional controls or as SPC-based boiler management systems – with LOOS boiler operating technology, everything's under control.

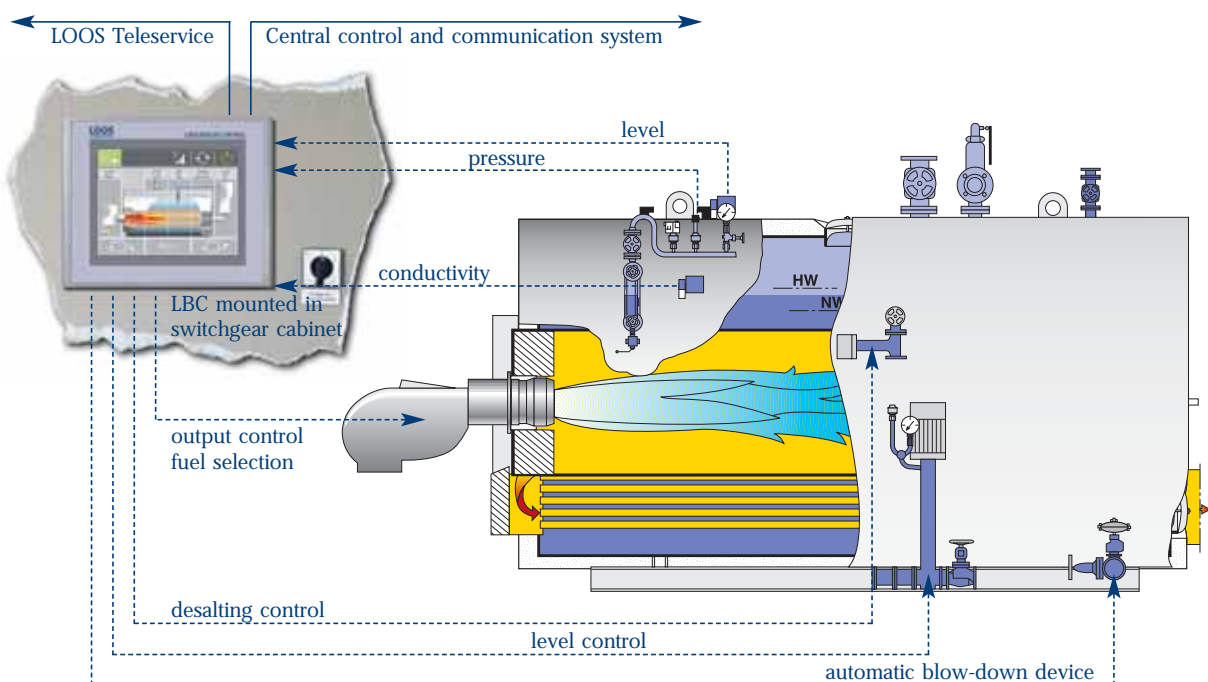
The result

LOOS BOILER CONTROL LBC – the convenient PLC-based boiler control

A convenient boiler control for LOOS hot water boilers was developed on the basis of an SPC automation device which has proved successful in industry. All the regulating and control functions are integrated in an efficient, programmable control. These include the controls for boiler output, water level, desalting and blow-down, plus the controls for the Economiser or superheaters. No matter whether the boiler is operated with a gas, oil or dual burner, stepped or modulating, with mechanical or electric network, LOOS BOILER CONTROL LBC can be used for all systems.

Display and operation are conveniently supported by TFT colour displays with a touch-sensitive interface. These are available in 8" or, as an option, 10"

versions. The symbols, graphics and user guidance are designed in accordance with the latest developments in ergonomics and usability. All available control and regulating functions can be accessed intuitively, and actual and setpoint values can be shown in the colour display or changed. The integrated operating signal management system captures and logs operating states before shut-down on faults occurs. Important process data are stored at defined intervals and can be presented on the displays in the form of clear graphs. Analysing data is simply child's play. The connection of higher-level technical management systems via PROFIBUS DP or the provision of routers so that the Loos Teleservice can be used are just two of the many options offered by this system.



LBC replaces traditional technology

User benefit

- LBC allows the simple optimisation of all measurement and control functions. Energy consumption, pollutant emissions and wear and tear are minimised.
 - LBC ensures maximum supply and operating reliability. An extensive operating message memory with integrated prewarning systems means that incorrectly set regulating parameters can be detected and corrected before any safety shut-down occurs.
 - LBC ensures maximum operating data transparency. Many different operating states, operating data and measured values can be shown in the graphic touch-screen display.
 - LBC meets all the special requirements of modern boiler control and is suitable for later expansion, modification and modernisation.
- LBC can be operated intuitively, since it uses graphic symbols and presents them on modern touch-screen displays.
 - LBC has integrated protective functions to prevent incorrect operations.
 - LBC is prepared for data exchange with higher-level technology management systems and Teleservice.
 - The Teleservice option allows the user interface to be mirrored, so that rapid assistance can be provided in the event of operating problems and to search for faults.

The concept

All information is gathered in the comprehensive plant management system LOOS SYSTEM CONTROL LSC. Efficient bus systems guarantee intelligent networking of individual boilers and boiler

house components. The plant management system is already prepared for connection to higher-level management systems and the cost-effective LOOS Teleservice.



Multiple boiler systems, water analyses, water treatment systems, deaeration systems, condensate systems, fuel supply – LSC has everything under control

UNIVERSAL compact boiler

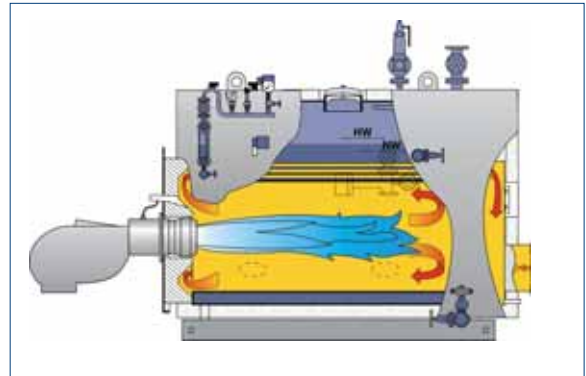
U-ND Low-pressure saturated steam
U-HD High-pressure saturated steam

The concept

Capacity and dimension are particularly designed for low and medium steam demand as well as for top-quality manufacture.

The UNIVERSAL steam boiler for 175-1,250 kg/h (high-pressure steam) and 175-3,200 kg/h (low-pressure steam) combines the advantages of a shell boiler with the efficiency of a flame-tube smoke-tube system.

EC type testing according to the Pressure Vessels Directive provided for all capacities and pressure levels (CE).



Sectional drawing of boiler type U-HD

The result

- Flexible performance for fluctuating steam demand
- Sturdy, reliable and with an unparalleled service life
- Economical and low emission
- High pressure stability
- High steam quality for demanding users
- Stable under peak- and low loads, copes easily with fluctuating loads
- For all burner systems, also NO_x-reduced
- Stable water circulation and rapid heat transfer
- Easy operation and maintenance
- Maximum service availability and safety



Assembled and function tested in the workshop ready for connection

The application profile

Trade-, service- and industrial establishments in all sectors with heat and steam requirement for

appliances, processes and production, with direct or indirect heating.



Two U-ND UNIVERSAL low-pressure steam boilers with modulating natural gas firing



Two UNIVERSAL high-pressure steam boilers U-HD for saturated steam generation

The design

Designed and dimensioned according to clearly defined priorities: furnace size, radiant and convection heating surface, steam space and water space volume are ideally matched and dimensioned down to the smallest detail. Radiant and convection heating surfaces act in unison to achieve very rapid water circulation and accelerate the movement of the steam bubbles to the steam space.

Smooth heat transfer ensures that the heat generated by the fuel is converted into steam quickly and without stress on the material of the boiler. The flexible ends are rigidly anchored by the full-length flame tube. All high-pressure boilers are equipped with additional gusset stays for uniform load distribution. The front door, hinged right or left, provides easy access for boiler and burner inspection. High-quality mineral wool mat insulation covering the entire boiler body and special insulating materials in the front door cut radiation losses to an insignificant minimum. The rigid base frame reduces the specific ground pressure. All in all a convincingly good result.



- LOOS BOILER CONTROL LBC - the convenient SPC-based boiler control system
- LOOS SYSTEM CONTROL LSC plant management system
- Economiser to save energy
- Fuel supply modules
- WTM water treatment module

The special equipment

- Water service module with partial and full deaeration
- LWA water analysis module
- CSM condensate service module for open or closed systems

For more detailed information, see the "Boiler House Components" brochure

UNIVERSAL Boilers	Performance range		Design pressure	Temperature	Fuel
	kg/h	kW	bar g	°C	
U-ND	175 to 3,200	113 to 2,068	up to 0.5	up to 110	LFO, Gas
U-HD	175 to 1,250	117 to 834	up to 16	up to 204	LFO, Gas

Data sheets and detailed technical advice are provided for every boiler series

UNIVERSAL modular boiler

U-MB High-pressure saturated steam

The concept

The product designation “U-MB” stands for “UNIVERSAL Modular Boiler”. The boiler consists of several modules that can be selected in a customer-specific way. The relevant elements can be configured to meet the necessary requirements in respect of emissions, steam quality and energy efficiency. Thanks to the modular design and consistent use of structural elements and common parts from other type series, it has been possible to achieve an unbeatable price/performance ratio.

This 3-pass steam boiler is a universal boiler for all applications. Of course, it can be modularly combined with all **LOOS system components** for fuel and water supply, wastewater disposal, water analysis and heat recovery. The **programmable**

touch screen control, remote serviceability and further equipping of the steam boiler are also identical to the large industrial boiler series.

This type series has some important innovations in respect of control and regulation. Besides the intuitive touchscreen operation, the steam boiler also includes an automated start-up function, allowing the steam generator to be booted automatically from a cold state at the press of a button or via an external start signal. It is equipped with an overload protection ensuring premium pressure stability and steam quality at all times, regardless of consumer behaviour. The customer can then devote his attention to what counts: his production.

The result

- The setup can be exactly aligned with the customer's requirements in respect of emissions, steam quality and efficiency.
- Cost-efficient in spite of proven shell and 3-pass technology
- Highest degree of efficiency thanks to the integrated economiser
- Extensive standard equipment
- Integrated boiler protection function prevents overloading of the boiler
- Integrated automated start-up for a gentle start from a cold state
- Intuitive touchscreen operation and SPC control
- Less space needed because of the compact base area



LOOS UNIVERSAL U-MB modular boiler – unique in design and all other features

The application profile

Everywhere where small to medium steam quantities are required. Classic application areas include

the food and drinks industry, laundries, cleaning firms and smaller industrial operations.



LOOS UNIVERSAL U-MB 3-pass shell boiler

The design

The boiler is designed as a flame and smoke tube boiler in accordance with the Pressure Equipment Directive. The setup of the basic boiler is based on the UT boiler design which has already been

in successful use for many years. Of course, as a true 3-pass boiler, there is no need for built-in flow components in the smoke tubes.

- LOOS BOILER CONTROL LBC - the convenient SPC-based boiler control system
- LOOS SYSTEM CONTROL LSC plant management system
- Fuel supply modules
- WTM water treatment module

The special equipment

- Water service module with partial and full deaeration
- LWA water analysis module
- CSM condensate service module for open or closed systems

For more detailed information, see the "Boiler House Components" brochure

UNIVERSAL boiler Series	Performance range		Design pressure	Temperature	Fuel
	kg/h	kW	bar g	°C	
U-MB	200 to 2,000	129 to 1,296	up to 16	up to 204	LFO, Gas

Data sheets and detailed technical advice are provided for every boiler series

UNIVERSAL Single flame tube boiler

- UL-S High-pressure saturated steam
- UL-SX High-pressure superheated steam

The concept

In the higher performance range, the tried and tested three-pass principle dominates. The ideal possibilities for developing high-performance steam generators with outstanding characteristics were recognized and rigorously put into practice by LOOS INTERNATIONAL already in the early 50ies. The UNIVERSAL boiler was designed to perfection for generating saturated and superheated steam in the 1,250 - 28,000 kg/h performance range. EC type testing according to the Pressure Vessels Directive provided for all capacities and pressure levels (CE).

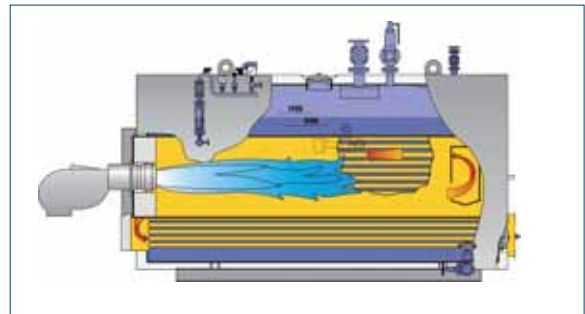
The dimensions of flame tube, smoke tube bank, water space and steam space have been thermodynamically optimized for flexible performance. Radiant and convection heating surfaces act in unison to achieve very fast water circulation and accelerate the movement of the steam bubbles to the steam space. Smooth heat transfer ensures that the heat generated by the fuel is converted into steam quickly and without stress on the material of the boiler.

The result

- Flexible output for fluctuating steam demand
- Sturdy, reliable and unparalleled service life
- Economical operation and low emissions
- High pressure stability
- High steam quality for demanding users
- Stable under peak- and low loads, copes easily with fluctuating loads
- For all burner systems, also NO_x -reduced
- Stable water circulation and rapid heat transfer
- Easy operation and maintenance
- Superheated steam from superheater module, suitable for dry start
- Superheater as water separator with unregulated superheated steam temperature
- Superheater with constant controlled superheated steam temperature over a wide load range
- Maximum service availability and safety

The application profile

Industrial and service establishments in the food, beverages, textile, building materials, chemicals, ceramics and paper sectors, ... with heat and



Sectional drawing of boiler type UL-S with rear flue gas reversing chamber

This type series offers with increasing steam output options for optimising the excellent 'dynamic properties' and for exploiting further 'potential energy savings':

- Modulating output control
- Continuous feed water regulation
- Speed-controlled burner fans
- O_2 -control
- Electronic fuel-/air combination control



The three-pass principle of the UNIVERSAL UL-S

steam demand, for processing, production and heating.



UL-S UNIVERSAL High-pressure steam boiler for saturated steam generation



UL-SX UNIVERSAL High-pressure steam boiler with superheater module for superheated steam generation

The design

The LOOS three-pass patent granted in 1952 forms the basis of the outstanding, still today unsurpassed success of this series. The flame tube (1st pass) and two smoke tube banks (2nd and 3rd pass) as well as the wet-back rear reversing chamber are integrated in the boiler body in an ideal arrangement. The laterally positioned flame tube and the horizontal rear- and vertical front heating gas reversal result in the largest possible radiant and convection heat transfer surface with the largest steam space and the smallest external measurements. The flexible ends are firmly anchored by the big, full-length flame tube and joined to the boiler casing by a large, LOOS-specific number of gusset stays for even load distribution.

- LOOS BOILER CONTROL LBC - the convenient SPC-based boiler control system
- LOOS SYSTEM CONTROL LSC plant management system
- Economiser to save energy
- Fuel supply modules
- WTM water treatment module

Superheated steam is generated by a superheater module. Dimensioned for the required superheating temperature and simply placed on the front reversing chamber. By means of a bypass damper the superheated steam temperature can be kept constant over a wide load range. The smoke tube sections remain freely and easily accessible through the swivelling reversing chamber door.

The high-quality mineral wool mat insulation of the entire boiler body and of the superheater module ensure that radiation losses are negligible. The sturdy base frame reduces the specific ground pressure.

The special equipment

- Water service module with partial and full deaeration
- LWA water analysis module
- CSM condensate service module for open or closed systems

For more detailed information, see the "Boiler House Components" brochure

UNIVERSAL Boilers	Performance range*		Design pressure	Temperature	Fuel	
	Series	kg/h	kW	bar g		°C
UL-S		1,250 to 28,000	1,304 to 18,265	up to 30	up to 235	LFO, HFO, Gas
UL-SX		2,600 to 28,000	1,820 to 18,265	up to 30	up to 300	LFO, HFO, Gas

Data sheets and detailed technical advice are provided for every boiler series
 * In some countries national restrictions of the max. permissible output apply

UNIVERSAL Double flame tube boiler

ZFR High-pressure saturated steam
ZFR-X High-pressure superheated steam

The concept

The UNIVERSAL double flame tube/smoke tube boiler is available for output values from 18,000 to 55,000 kg/h with dimensions which allow transport as a ready-to-connect unit. This double flame tube/smoke tube boiler was developed by LOOS INTERNATIONAL already in the 50ies and built with separate furnace gas passages for operation also with one firing system. The three-pass principle with rear furnace gas reversing chamber accommodated in the water space was patented in 1952. The economizer and superheater can be easily upgraded by the addition of modules. EC type testing according to the Pressure Vessels Directive provided for all capacities and pressure levels (CE).

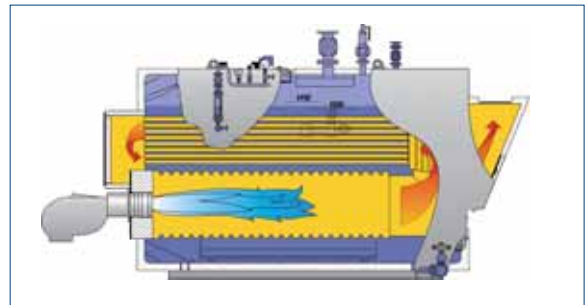
The dimensions of flame tubes, smoke tube bank, water space and steam space are thermodynamically optimized. Radiant and convection heating surfaces, combined with the possibility of single flame tube operation, provide special flexibility. Rapid water circulation and smooth heat transfer ensure that the heat generated by the fuel is converted into steam quickly and without stress on the material of the boiler.

The result

- Flexible output for fluctuating steam demand
- Sturdy, reliable and unparalleled service life
- Economical and low emissions
- High pressure stability
- High steam quality for demanding users
- Stable under peak- and low loads
- Individual burner operation/control, TÜV-approved for decades
- Double control range with efficiency gain
- For all burner systems, also NO_x-reduced
- Stable water circulation and rapid heat transfer
- Easy operation and maintenance
- Maximum service availability and safety
- Superheated steam from superheater module, suitable for dry start
- Superheater as water separator with uncontrolled superheated steam temperature

The application profile

Industrial establishments with a large heat requirement and distribution network in the food, beverages, textile, building materials, chemicals,



Sectional drawing of boiler type ZFR with rear flue gas reversing chamber and attached flue gas hood

For the UNIVERSAL double flame-/smoke tube boiler, modulating output control for 'unrestricted' single- or double flame tube operation and continuous feed water control are obligatory. This type series offers with increasing steam output options for optimising the excellent 'dynamic characteristics' and for exploiting further 'energy saving potentials':

- speed-controlled burner fan
- O₂-control
- electronic fuel-/air ratio control



Four ZFR UNIVERSAL double flame tube boilers for producing saturated steam for parallel or single flame tube operation

- Superheater with constant controlled superheated steam temperature over a wide load range

ceramics and paper sectors; service establishments, municipalities, ...

The design

The LOOS Three-Pass patent from the year 1952 forms the basis for the outstanding and so far unsurpassed success of this series. The special design measures which neutralize the tensile forces in single flame-tube operation are decisive for long-term stability. The flame tubes are inserted through the complete thickness of the front and rear ends and firmly welded all round their circumference. The wet-back rear furnace gas reversing chamber is separated by a water-carrying, stabilizing furnace wall and also inserted through the rear end. The large pressure relief surfaces with all-round ligaments, together with the reversing chamber ceiling-to-floor bracing, neutralize the stresses. Water circulation and heat transfer are effectively assisted by guide sections on the boiler floor and are further accelerated by flow passages between the flame tubes and the side-by-side smoke tube sections.

Superheated steam is generated with superheater modules which are attached to the front reversing chamber. Using bypass dampers, the superheated steam temperature can be kept constant over a wide load range.

An economizer is simply placed on top of the flue gas collecting chamber and does not require an additional foundation.

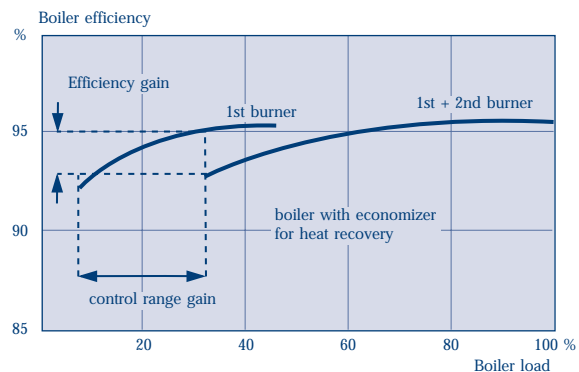
The swivelling reversing chamber doors keep the smoke tube sections freely and easily accessible.

The high-quality mineral wool mat insulation of the entire boiler body and the superheater module ensure that radiation heat losses are insignificant. The sturdy base frame reduces the specific ground pressure.

The single flame tube operation permitted by the TÜV (German technical inspection association) allows unrestricted fully automatic operation with one or both burners.

The control range is doubled and each low-load phase is run with one burner with a gain in efficiency.

With dual burners, a fuel changeover without boiler shut-down and parallel operation with different fuels are possible.



- LOOS BOILER CONTROL LBC - the convenient SPC-based boiler control system
- LOOS SYSTEM CONTROL LSC plant management system
- Economiser to save energy
- Fuel supply modules
- WTM water treatment module

The special equipment

- Water service module with partial and full deaeration
- LWA water analysis module
- CSM condensate service module for open or closed systems

For more detailed information, see the "Boiler House Components" brochure

UNIVERSAL Boilers	Performance range*		Design pressure	Temperature	Fuel
Series	kg/h	kW	bar g	°C	
ZFR	18,000 to 55,000	11,160 to 35,800	up to 30	up to 235	LFO, HFO, Gas
ZFR-X	18,000 to 55,000	12,600 to 35,800	up to 30	up to 300	LFO, HFO, Gas

Data sheets and detailed technical advice are provided for every boiler series
 * In some countries national restrictions of the max. permissible output apply

Flue gas heat recovery

The concept

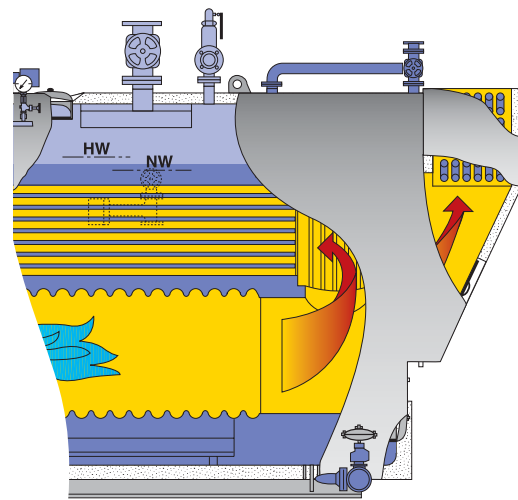
The flue gas stream from steam boilers contains a significant heating potential at a high temperature level. The LOOS economiser, with highly efficient top heating surfaces for dry flue gas heat recovery, uses this heating potential to preheat feed water and improve boiler efficiency.

To further increase efficiency, stainless steel downstream calorific value heat exchangers can be added. By doing so, the flue gas can be brought below the flue gas dew point to condensation through cooling.

The result

LOOS steam boiler with integrated economisers for dry flue gas heat recovery

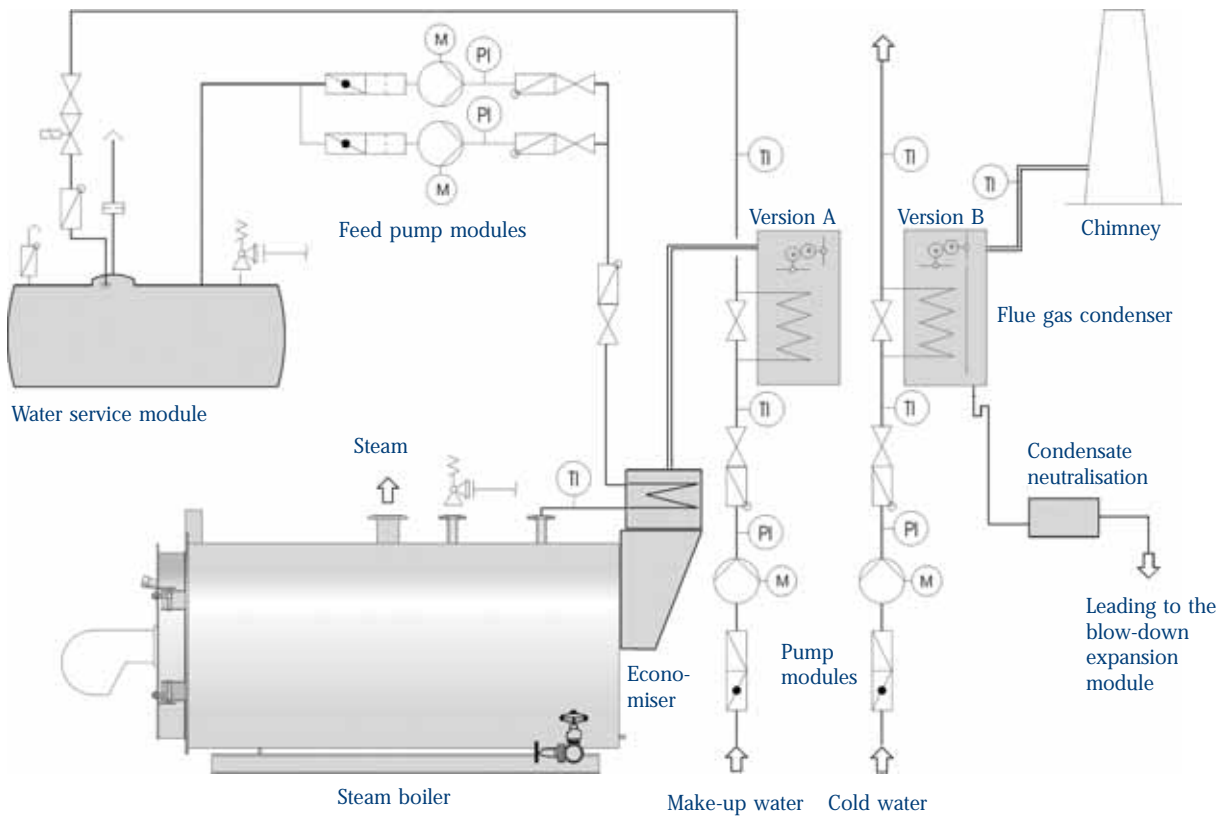
- Flue gas collection chamber and economiser attached to the boiler
- Use of highly efficient spiral finned tubes for gas and EL fuel oil
- Large inspection openings
- Small amount of space needed
- Pre-assembled in the factory within the scope of permissible transport dimensions, piping ready-to-connect, tested and heat-insulated
- Fuel savings, reduced CO₂ and emissions



LOOS steam boiler systems for the utilisation of calorific value technology

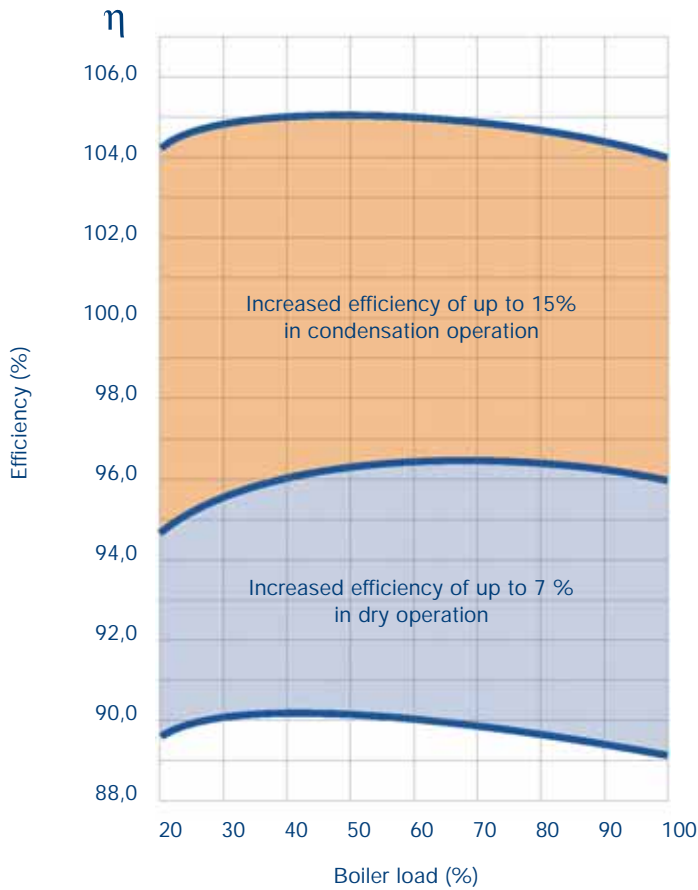
- Calorific value heat exchangers added downstream on the flue gas side of the integrated Eco
- For preheating make-up water or separate water circuits
- Stainless steel design for gas and low-sulphur fuel oil
- Small amount of space needed
- Tested and heat-insulated
- Fuel savings, reduced CO₂ and emissions





Block diagram of a high-pressure steam boiler system with two flue gas heat exchanger stages (economiser/flue gas condenser)

The effectiveness



Achievable efficiencies with dry flue gas heat recovery and the use of calorific value technology

PHILOSOPHY

Company profile

Innovations, quality-consciousness and creativity coupled with more than 140 years of experience form the basis for LOOS INTERNATIONAL's high-tech boiler systems. Over 100,000 boiler systems, delivered to more than 140 countries throughout the world, demonstrate the outstanding reputation enjoyed by LOOS INTERNATIONAL's products. Today, LOOS manufactures 1,500 steam and hot water systems each year.

A large number of national and international certifications prove the high levels of quality and safety at LOOS.

The fulfilment of the highest environmental requirements in the economical provision of heating and process heat is a matter of course.



State-of-the-art manufacturing plant 2 in Gunzenhausen – production of shell steam boilers

Modular product integration

Standardisation and automation, in terms of installation and commissioning as well as during subsequent operation and servicing of the systems, is the company's central idea. LOOS provides modular and integrated solutions via its complete product range. A multitude of boiler and boiler house modules available in different versions facilitate tailor-made solutions designed according to the customer's specific circumstances.

Expensive special developments with a correspondingly high functional and cost risk are as much a part of the past as complex on-site cabling and setup work. From water treatment, steam generators and the condensate system to water analysis and wastewater disposal, a LOOS customer always has a perfectly integrated but modular overall system of the highest quality available to him.

Formula 1 in boiler servicing

Customer-focussed servicing is characterised by expert maintenance and support of boiler systems on site.

LOOS customer service engineers are on hand around the clock every day of the year. The closely interlinked network of service locations ensures minimum reaction times.

Spare parts can be provided immediately from our stores even after many years. They can also be ordered via our hotline outside working hours and on Sundays and public holidays.

In addition to retrofittings, system analyses and tailor-made servicing and maintenance contracts, LOOS INTERNATIONAL also offers Teleservice contracts which cover every need individually.

Spare parts hotline

for Europe: +49/171/8664414

Service hotline

for Europe: +49/180/5667468

The result



Two UNIVERSAL UL-S single-flue boilers for saturated steam, total system output 32,000 kg/h, pressure 10 bar



Two UNIVERSAL UL-S single-flue boilers for saturated steam, total system output 8,000 kg/h, pressure 13 bar



One UNIVERSAL ZFR double-flue boiler and one UNIVERSAL UL-S single-flue boilers for saturated steam, total system output 50,000 kg/h, pressure 16 bar



One UNIVERSAL ZFR double-flue boiler for saturated steam, steam output 30,000 kg/h, pressure 22 bar



Info Material

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- Planning folder 'The Boiler System'



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... for a future of quality

LOOS INTERNATIONAL are world-famous specialists in boiler systems of all sizes and performance classes

LOOS INTERNATIONAL

○ Germany

Loos Deutschland GmbH
Nürnberger Straße 73
91710 Gunzenhausen
GERMANY
Tel. +49 9831 56253
Fax +49 9831 5692253
eMail: vertrieb@loos.de
Internet: www.loos.de

○ Austria

Loos Austria GmbH
Haldenweg 7
5500 Bischofshofen
AUSTRIA
Tel. +43 6462 2527310
Fax +43 6462 252766310
eMail: vertrieb@loos.at
Internet: www.loos.at

○ PR China

Bosch Thermotechnology (Beijing) Co., Ltd.
No. 6 South Yongchang Road
Economic - Technological Development Area
100176 Beijing
PR CHINA
Tel. +86 10 67827000
Fax +86 10 67827616
eMail: loos@looschina.cn
Internet: www.looschina.cn

○ Czech Republic

KOTLE LOOS, spol. s r.o.
Bezová 1 čp. 1658
147 14 Prag 4
CZECH REPUBLIC
Tel. +420 244112111
Fax: +420 244112150
eMail: info@loos.cz
Internet: www.loos.cz

○ France

Loos France SAS
Zone d'activités
12, rue de Guebwiller
BP74 Wattwiller
68702 Cernay Cedex
FRANCE
Tel. +33 3 89758484
Fax +33 3 89758480
eMail: loos@loos-france.fr
Internet: www.loos-france.fr

○ Greece

Bosch Thermotechniki A.E.
37, Erchias Str.
19400 Koropi
GREECE
Tel. +30 210 5701429
Fax +30 210 5701415
eMail: d.karvounis@buderus.gr
Internet: www.loos.gr

○ Italy

Buderus S.p.A.
Via E. Fermi, 40-42
20090 Assago (MI)
ITALY
Tel. +39 02 45715080
Fax +39 02 48864090
eMail: vendite@loositalia.it
Internet: www.loositalia.it

○ Poland

Loos Centrum Sp.z o.o.
ul. Marii Kazimiery 35
01-641 Warsaw
POLAND
Tel. +48 22 5619090
Fax +48 22 5619099
eMail: loos@loos.pl
Internet: www.loos.pl

○ Russian Federation

Loos Deutschland GmbH
Representative Office in Russia
Proezd Serebryakova 6
129343 Moscow
RUSSIAN FEDERATION
Tel. +7 495 7821254
Fax +7 495 7821174
eMail: loos@loosrussia.ru
Internet: www.loosrussia.ru

○ Scandinavia

Loos Scandinavia A/S
Telegrafvej 1
2750 Ballerup
DENMARK
Tel. +45 44898650
Fax +45 44898656
eMail: sales@loos.dk
Internet: www.loos.dk

○ South East Asia

Loos Deutschland GmbH
Singapore Branch
1 Scotts Road, Unit 18-12/13
Shaw Centre
228208 Singapore
SINGAPORE
Tel. +65 67320113
Fax +65 67320397
eMail: loos@loos.sg
Internet: www.loos.sg

○ Slovakia

KOTLE-LOOS SLOVAKIA, s.r.o.
Einsteinova 1
851 01 Bratislava
SLOVAKIA
Tel. +421 2 67200040
Fax +421 2 62524694
eMail: info@loos.sk
Internet: www.loos.sk

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LOOS INTERNATIONAL

Loos Deutschland GmbH

Abteilung VSK

Nürnberger Straße 73

91710 Gunzenhausen
GERMANY

Internet:
www.loos.de



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