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Technical reports

Technical information from specialists at first hand. You will also find an overview on our website.

Production facilities:

Factory 1 Gunzenhausen
Bosch Industriekessel GmbH
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91710 Gunzenhausen
Germany

Factory 2 Schlungenhof
Bosch Industriekessel GmbH
Ansbacher Strasse 44
91710 Gunzenhausen
Germany

Factory 3 Bischofshofen
Bosch Industriekessel Austria GmbH
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Austria

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Steam boilers

Low pressure saturated steam
High pressure saturated steam
High pressure superheated steam
Outputs from 175 to 55 000 kg/h

With four different types of shell boilers in the UNIVERSAL series, either as single-flame tube or double-flame tube boiler, we offer you a complete product range for every steam requirement. An optional integrated fourth smoke tube pass facilitates the waste heat recovery from upstream processes.



Hot water boilers

Low pressure hot water
High pressure hot water
Outputs from 650 to 38 000 kW

Warm and hot water for energy-saving heating systems for industrial buildings, offices and residential complexes. For base load and peak load of local and district heat generating plants. For commercial and industrial process heat generation. An optional integrated fourth smoke tube pass facilitates the waste heat recovery from upstream processes.



Boiler house components

Modules for steam boilers
Modules for hot water boilers
Modules for supplies to the boiler

Boiler house components in modular technology, as ready-to-install function units, round off the product range. Planning, installation and commissioning of the entire system is considerably simplified. The high manufacturing quality guarantees long, reliable and efficient boiler operation.

We create a lot of steam with our service for you as well

Our customer service is there for you around the clock every day of the year. Thanks to our closely knit network of service areas we can ensure the shortest possible reaction times.

Beside maintenance services, fault tracing and repairs, we also offer you support with the regular inspection of your system. Not sure whether your system is still state of the art and working efficiently? Here too we will be pleased to assist you, we will analyse your system and modernise it if required.

Service Hotline Germany/International:
+49 180 5667468*
Service Hotline Austria:
+43 810 810300**

Reliable supply of spare parts

Spare parts are available immediately ex ware-house, even those parts which have been in service for many years. Our Spare Parts Hotline is also manned outside business hours and on Sundays and public holidays.

Spare Parts Hotline Germany/International:
+49 180 5010540*
Spare Parts Hotline Austria:
+43 6462 2527-320

For further information see our brochure on ‚Services‘ and online at www.bosch-industrial.com

*EUR 0.14/min from German landline
**max. EUR 0.10/min from Austrian landline
Charges for phone calls from mobile networks and for international calls may vary.



New! Bosch heat recovery boiler

Efficient generating of process heat

 **BOSCH**
Invented for life

Efficient generating of process heat

Combined heat and power generation with heat recovery boiler for steam generation

The system:

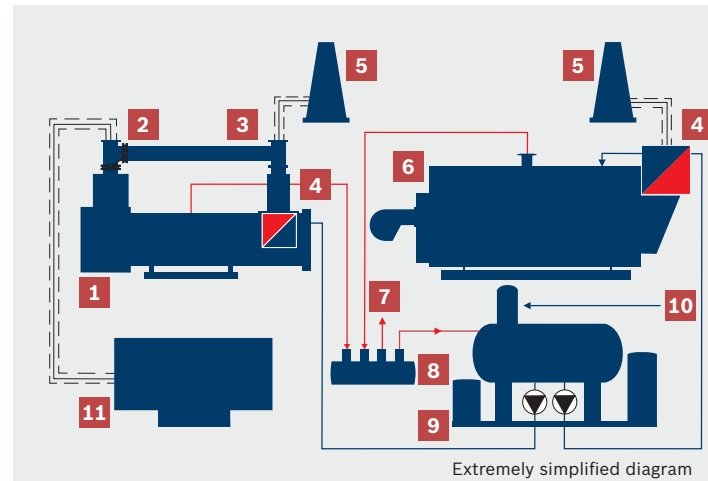
If you want to run a CHP unit economically, you need to make optimum use of the thermal energy in the flue gas and coolant, as well as achieve a sufficiently high number of operating hours. For this purpose, Bosch has extended its comprehensive product range to include a heat recovery boiler for steam generation.

The heat recovery boiler, certified to the PED (Pressure Equipment Directive), contains a highly efficient tubular heat exchanger. An economiser can be integrated as an option, which increases the efficiency of the heat exchanger even further. Eight output sizes are available with pressure ratings up to 16 bar and a max. flue gas intake temperature of 550 °C.

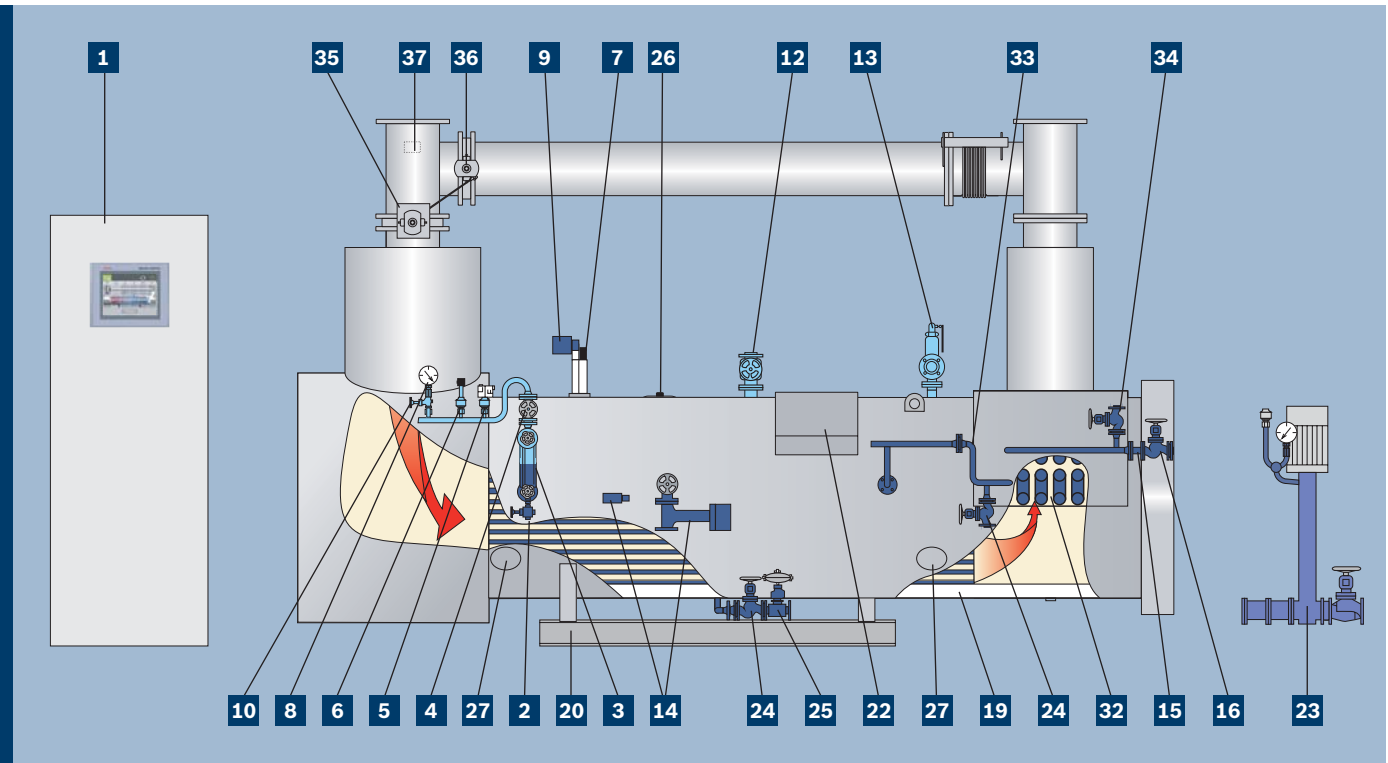
The heat recovery boiler is fully insulated and equipped with modern safety features. The flue gas bypass is supplied separately to facilitate transportation and is fitted and insulated on site. The boiler control BCO, based on PLC, can be controlled via touchscreen and is housed in a separate floor standing or wall mounted control switchgear cabinet.

Customer benefits:

- ▶ Increase in efficiency and environmental responsibility through use of waste heat sources
- ▶ Matched, modular system for easy planning and fast installation
- ▶ Complete system including CHP unit on request
- ▶ High efficiency through efficient tubular heat exchanger and good thermal insulation
- ▶ Additional efficiency gain thanks to optional integrated economiser
- ▶ Intuitive boiler control based on PLC with the highest level of operating data transparency
- ▶ Simple commissioning due to pre-parameterised boiler control
- ▶ Easy wiring on site thanks to plug-in connections
- ▶ Robust, reliable and durable
- ▶ Reduced component diversity with regard to availability of spare parts
- ▶ Service from a single source



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|---------------------------------|-------------------------------------|
| 1 Heat recovery boiler | 7 Consumer |
| 2 Bypass dampers | 8 Distributor |
| 3 Flue gas bypass | 9 Water service module WSM-V |
| 4 Economiser | 10 Make-up water |
| 5 Chimney | 11 CHP unit |
| 6 Peak load steam boiler | |



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|--|--|
| 1 Control switchgear cabinet with boiler control BCO | 19 Insulation with protective shell |
| 2 Blow-off tap | 20 Base frame |
| 3 Reflective water level indicator | 22 Terminal box |
| 4 Manostat tube shut-off valve, maintenance-free | 23 Pump module |
| 5 Pressure limiter | 24 Drain shut-off valve, maintenance-free |
| 6 Pressure transducer (4-20 mA) | 25 Quick shut-off blow-down valve |
| 7 Low-level limiter electrode (2 pieces) | 26 Inspection opening, steam side |
| 8 Pressure gauge | 27 Inspection opening, water side |
| 9 Level transducer (4-20 mA) | 32 Flue gas heat exchanger ECO |
| 10 Pressure gauge shut-off valve with testing flange | 33 Connection piping ECO/boiler |
| 12 Steam removal valve | 34 Vent shut-off valve |
| 13 Full-lift safety valve | 35 Flue gas control valve with actuator (open/closed) |
| 14 Fully automatic conductivity measurement and desalting | 36 Flue gas control valve (open/closed) |
| 15 Feed water non-return valve | 37 Pressure monitor |
| 16 Feed water shut-off valve, maintenance-free | |

Technical data of the heat recovery steam boiler HRSB	
Type	HRSB
Heat transfer medium	high pressure saturated steam
Design	heat recovery shell boiler
Max. output in kg/h	400 to 4100
Safety pressure in bar	10 and 16
Max. flue gas temperature of the waste heat source in °C	550
Min. flue gas volumes of the waste heat source kg/h	500
Max. flue gas volumes of the waste heat source kg/h	23500
Waste heat source fuel	natural gas (other flue gas types on request)
Output range of combinable CHP units	approx. 0.5 – 4 MWeI

The equipment level is variable and can be freely configured to customer requirements.