

Presentation of

VKK STANDARDKESSEL GmbH

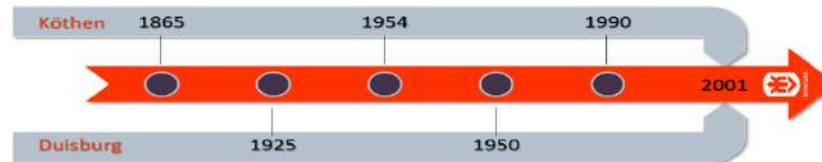
VKK STANDARDKESSEL Service GmbH



www.vkkstandardkessel.de

www.vkkstandardkessel-service.de

Company Milestones



- 2001 Merger of „STANDARDKESSEL Lentjes-Fasel GmbH“ and „Vorwärmer and Kesselbau Köthen (VKK)“ to: VKK STANDARDKESSEL Köthen GmbH
- 2017 Rebranding of VKK STANDARDKESSEL Köthen GmbH to: VELDE Boilers and Plants GmbH
- 2019 Relaunch from 01.01.2019 of
VKK STANDARDKESSEL GmbH
 – Steam- and Hot-Water-Boilers
VKK STANDARDKESSEL Service GmbH
 –Technical Service

Scope of Supply and Service: VKK STANDARDKESSEL GmbH

Products

- › Shell Boilers
- › Heat Recovery Boilers
- › Waste-Heat Boilers
- › Steam accumulators

Services

- › Engineering
- › construction
- › manufacturing
- › Boiler systems engineering
- › E / I&C (electrical, instrumentation & control)



Scope of Supply: VKK STANDARDKESSEL Service GmbH

Products

- › Boiler Components
- › Economiser and other heating surfaces
- › Fire tubes



1 | Company Presentation – VKK STANDARDKESSEL & VKK STANDARDKESSEL Service

Scope of Service: VKK STANDARDKESSEL Service GmbH

Services

- › On Site Service
- › Retrofitting / modernisation
- › Repairs
- › Assembly / erection
- › Commissioning
- › Spare parts
- › Maintenance and inspection
- › Emergency hotline (24/7)



Condor- Shell Boiler

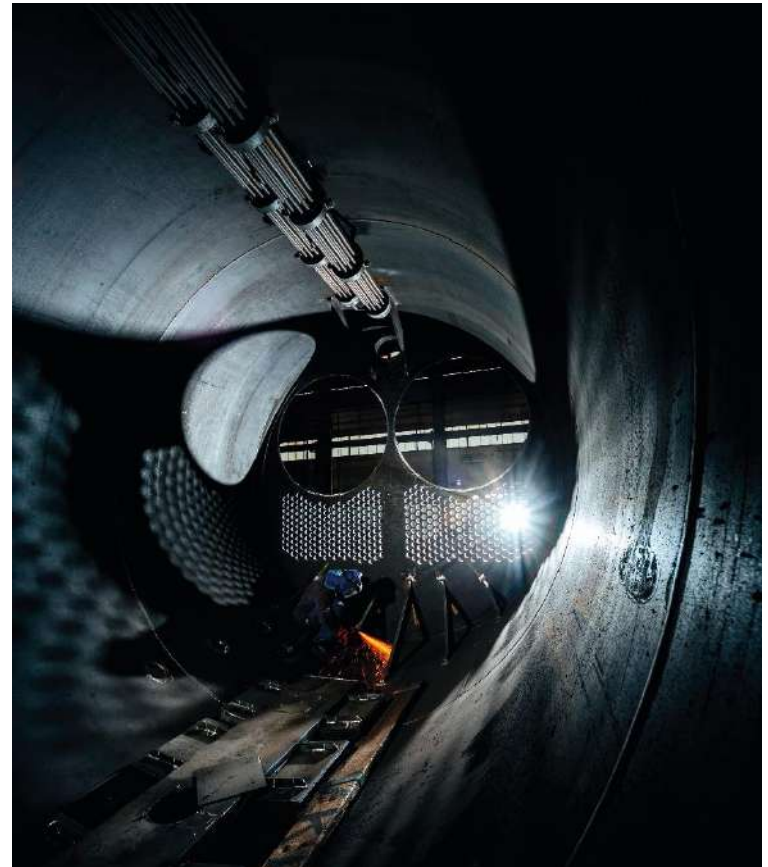


Performance range

- › Saturated steam: 3 – 70 t/h
up to 38 bar
- › Superheated steam: 3 – 70 t/h
up to 38 bar
and 450 °C
- › Hot-Water: 4,0 – 50 MW
up to 30 bar

Heated by

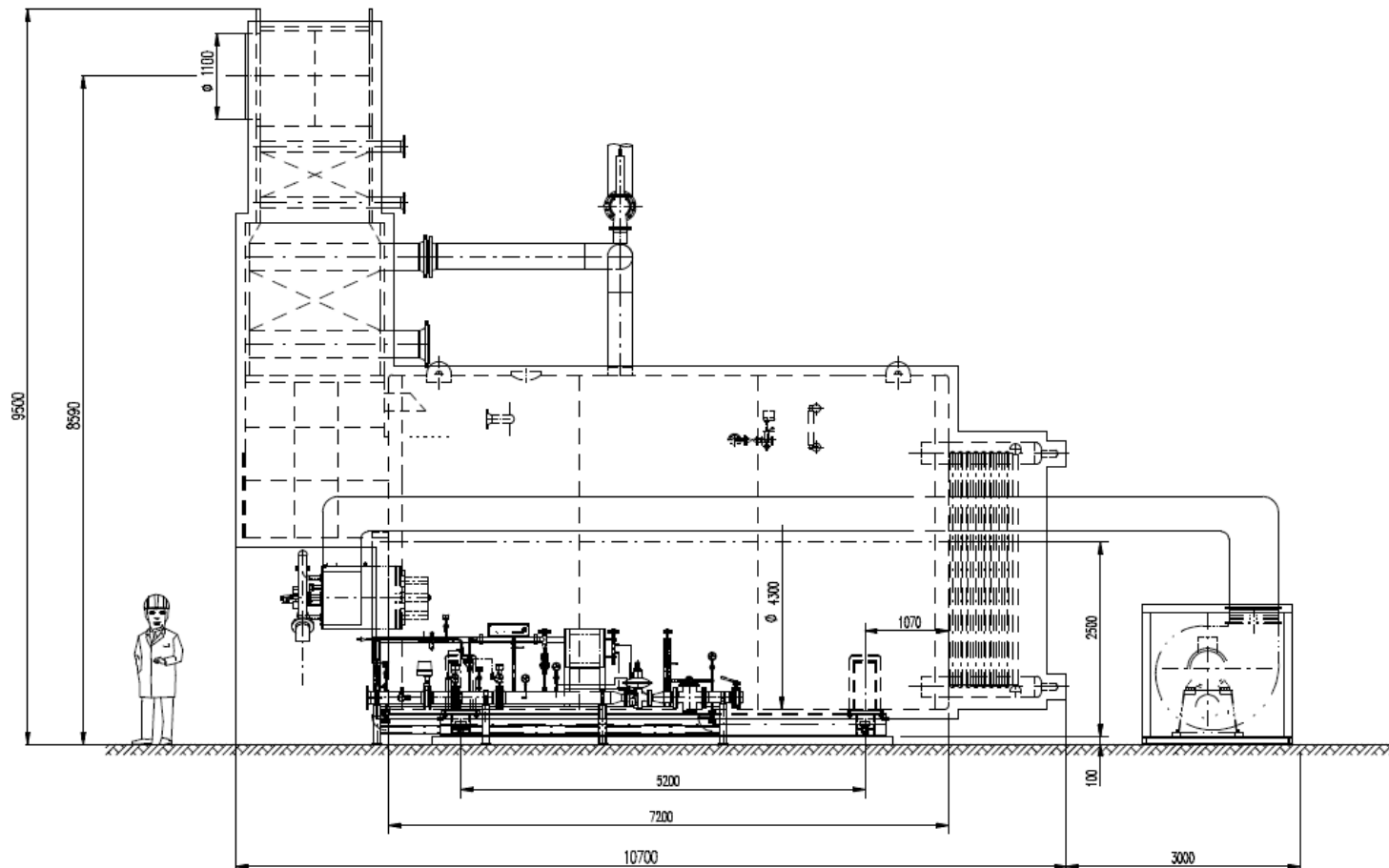
- Liquid and gaseous fuels
- waste heat



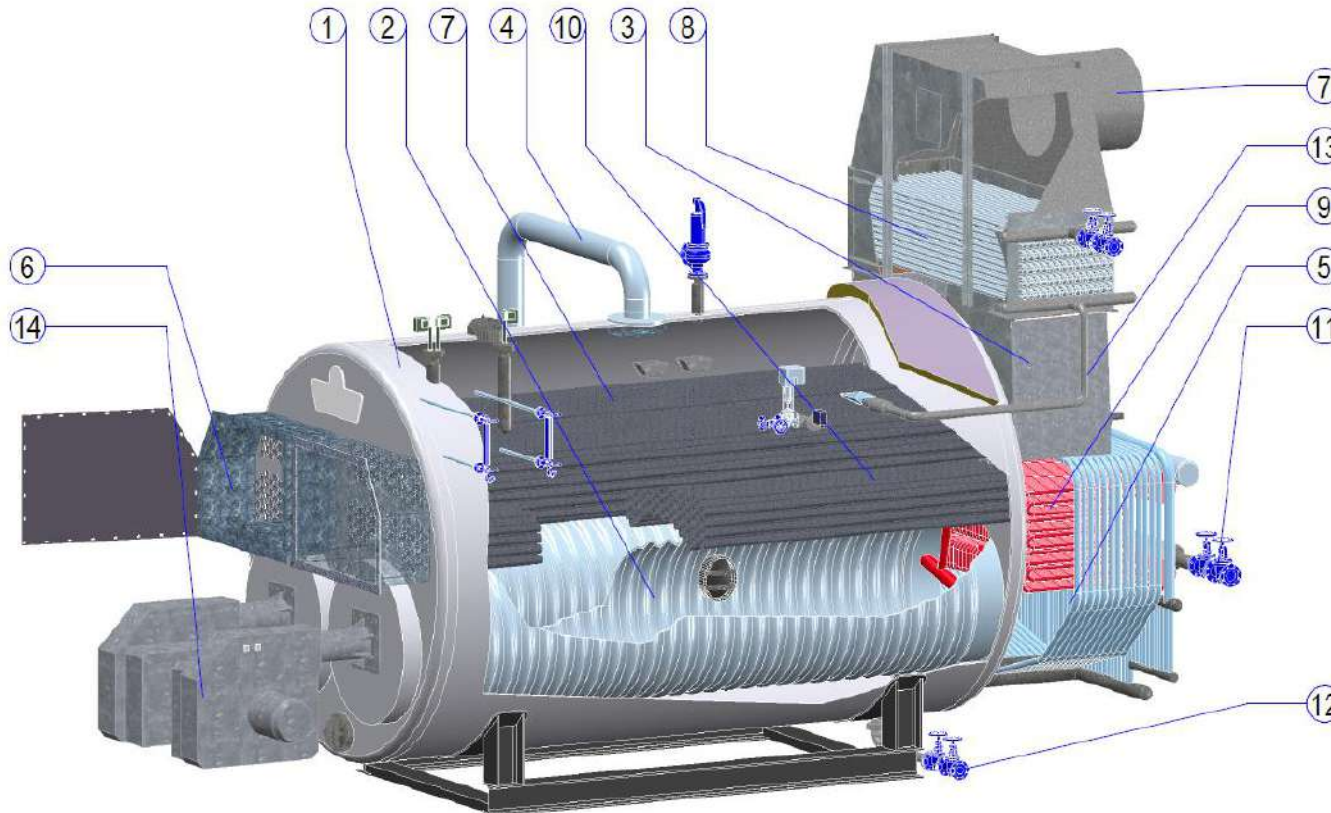
Steam boiler – Example

Performance Data

superheated steam: 50 t/h, 23 barg, 380 °C

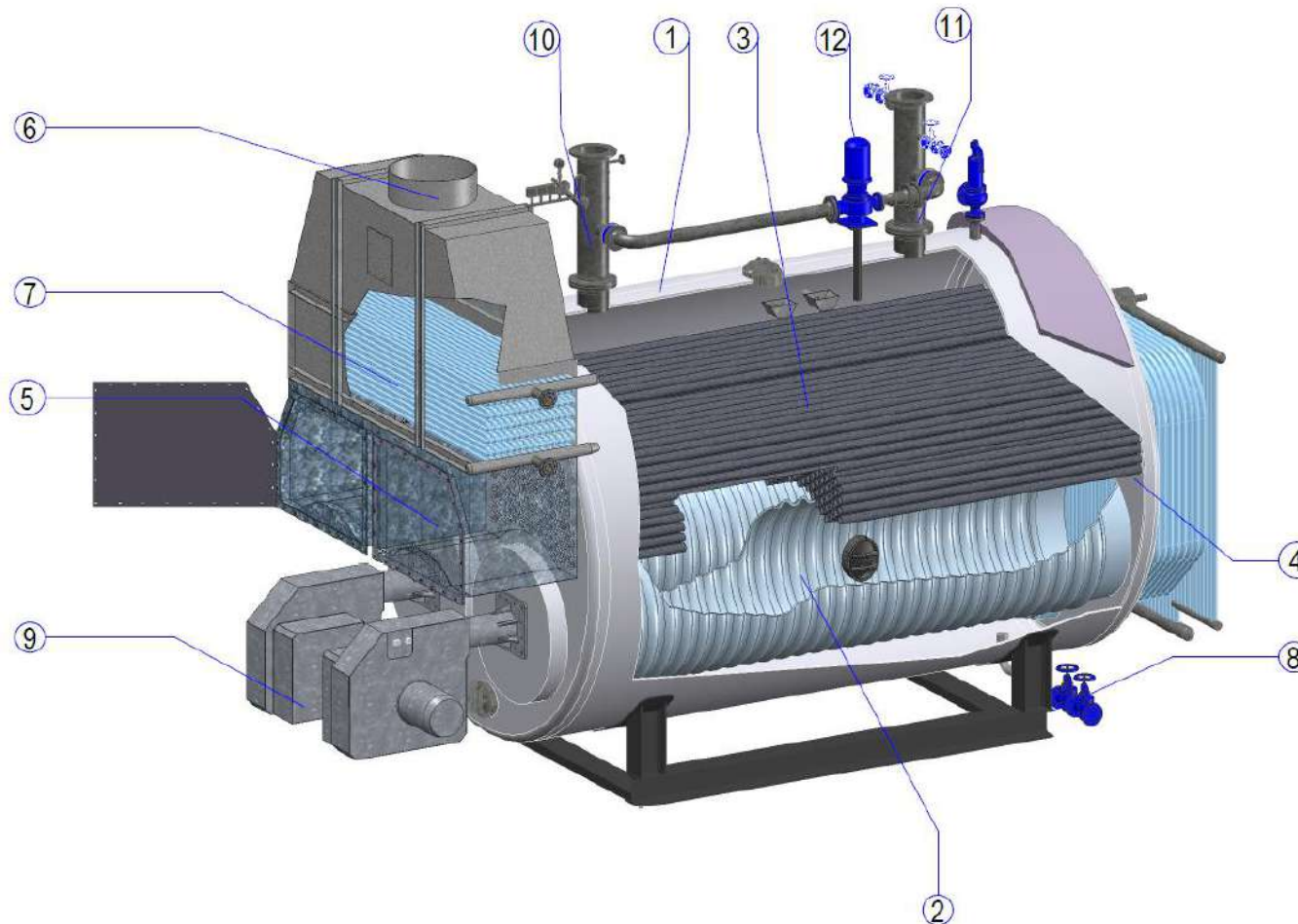


Superheated-Steam-Boiler – Example



- 1 Kesseldruckkörper
Boiler pressure vessel
- 2 Flammrohre, 1. Zug
Flame tubes, 1st. pass
- 3 Rauchrohre, 2. Zug
Flue tubes, 2nd. pass
- 4 Rauchrohre, 3. Zug
Flue tubes, 3rd. pass
- 5 Wasserrohrwendekammer
Watertube chamber
- 6 Rauchgaswendekammer
Reversing chamber
- 7 Rauchgasaustritt
Smoke outlet
- 8 Economiser
Economiser
- 9 Überhitzer
Superheater
- 10 Sattdampfleitung
Steam line
- 11 Heißdampfaustritt
Superheated steam outlet
- 12 Abschlammentil
Mud valve
- 13 Speiswasserleitung
Feedwater line
- 14 Feuerung
Burner

Hot-Water-Boiler – Example



- 1 Kesseldruckkörper
Boiler pressure vessel
- 2 Flammrohre, 1. Zug
Flame tubes, 1st. pass
- 3 Rauchrohre, 2. Zug
Flue tubes, 2nd. pass
- 4 Wasserrohrwendekammer
Watertube chamber
- 5 Rauchgaskammer
Flue gas chamber
- 6 Rauchgasaustritt
Smoke outlet
- 7 Economiser
Economiser
- 8 Ablassventil
Mud valve
- 9 Feuerung
Burner
- 10 Vorlauf
feed line
- 11 Rücklauf
return line
- 12 Beimischpumpe
admixing pump

References

Boiler System for the generation of super heated steam for a brown coal power plant in North-Rhine-Westphalia

Performance Data

- › 2 high pressure steam boilers
- › Superheated steam: 2 x 30 t/h, 22 bar, 385°C
- › Regulatable in complete range
- › Fired by fuel oil

industry

- › power supply company
- › „RWE AG“



References

Boiler System for the generation of Hot-Water for an industrial company

Performance Data

- › Hot-Water twin flame tube boiler
- › Hot-Water: 22 MW, 6 bar
- › Flow and return: 150°C / 80°C
- › Natural gas and fuel oil fired

Industry

- › Contracting für industrial companies
- › „EnBW Systeme Infrastruktur Support GmbH“



References

Compined-Heat-and-Power-Plant (CHP) for own local supply of steam and electricity

Performance Data

- › 2 Heat_Recovery-Steam-Generators (HRSG)
- › Superheated steam: 2 x 65 t/h. 14 bar, 250°C
- › Recovery of waste heat from gas turbines with additional natural gas firing
- › 2 x 15 MWel gas turbines

Industry

- › Chemical industry
- › „Aluminum Oxid
Stade GmbH“



References

Maintenance visit: welding of a DN600 inspection opening in the boiler

Performance

- › Separation of the old inspection opening
- › Welding of the new flange into the boiler
- › Tests with notified body
- › Installation of the new inspection opening door

Branche

- › Power supply company
- › „Vattenfall Europe Wärme AG“



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Thank you.

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