

A class of its own

## JUMAG STEAM BOILER



## COMPACT INFORMATION

STEAM BOILER AND ACCESSORIES

# JUMAG STEAM BOILER

## A CLASS OF ITS OWN

- with vertical pressure vessel
- no heating-coil
- especially low maintenance and high energy efficiency

### THE STEAM BOILER

#### High energy efficiency

- Up to 97% combustion efficiency
- Condensing heating technology (More than 100% efficiency possible with optional use of second economizer)
- Minimal loss of heat in stand-by-mode
- High steam quality (little entrainment of water)
- 3- to 5-pass boiler technology

#### Robust and low-maintenance

- Robust pressure vessel with up to 8 mm wall thickness
- Integrated maintenance-free centrifugal pump
- State-of-the-art, interchangeable standard burner
- Gentle heating procedure within 8 minutes
- Safety-related equipment exceeding the requirements of DGRL 97/24/EC
- Components mainly serial products of established suppliers

#### Easy

- Menu-driven, easy operation by full-text touchscreen
- Simple start / stop procedure by remote control, timer or manual
- Parallel management of multiple boilers possible as an option
- Operating pressure up to 13 bar, working pressure up to 11 bar

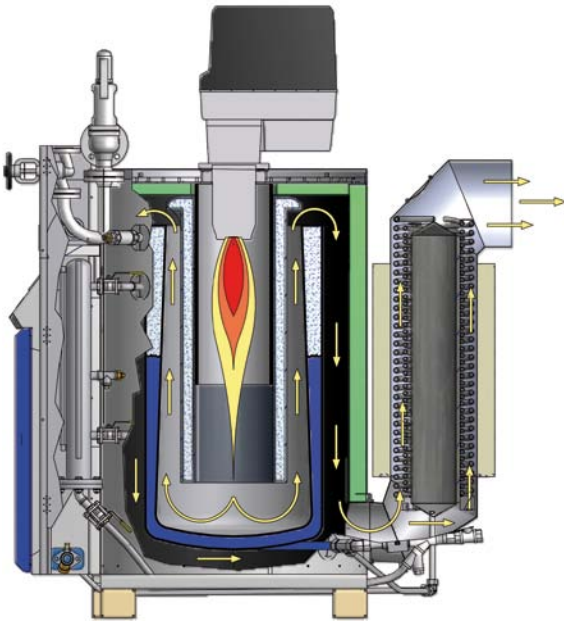


# UNMATCHED IN ENERGY EFFICIENCY

## FUNCTIONALITY

In contrast to a steam generator (with heating-coil and piston pump), the JUMAG system works as follows:

Controlled by the water level measured inside of the evaporation system, the centrifugal pump refills the feed water via the economizer. The burner is controlled by steam pressure. A multiple-pass pipe transfers the burnt-gas heat through the evaporation system and to the water inside. Additionally, the economizer transfers residual heat from the exhaust air to the feed water stream. The special inner structure of the evaporation system provides best dry steam results.



## STEAM BOILERS BY OUTPUT

Type of boiler	Steam generating capacity up to	Thermal out-put up to
DG 160	160 kg/h	105 kw
DG 260	260 kg/h	170 kw
DG 360	360 kg/h	235 kw
DG 460	460 kg/h	300 kw
DG 560	560 kg/h	380 kw

## MULTI-STEAM UNIT

- For high steam demand
- Demand oriented switching (on/off) of individual steam boiler
- Suitable for permit-free and TÜV-monitor-free operation within Germany (as well as in many neighbouring countries)



## COMPACT STEAM BOILER UNIT

- Ready-for-connection system, mounted on a base frame
- All system aggregates are ideally connected
- Minimum space requirements



## CONTAINER UNIT

- Ready-for-connection system, mounted in a container
- Up to 4 steam boilers in one container



## INNOVATIVE FOR YOU – FOR OVER 30 YEARS

### ACCESSORIES



### JUMAG FEED-WATER TANK

#### Energy efficient

- Total use of condensate energy through condensate return below the water surface via special Ju-mag-exhaust box\*
- Complete re-use of low-level steam energy via integrated heat-exchanger\*
- Low radiation of heat by 50 mm insulation
- Reduced consumption of dosing chemicals by higher feed-water temperature and upstream partial degassing

#### Compact, easy and robust

- Multiple connections below or on one side of the tank
- Integration of all components below the feed-water tank
- Only corrosion-free materials (mainly 1.4.573)
- Operation control by steam-boiler via ethernet connection
- Available as connection-ready water purification module



### JUMAG BLOW-DOWN TANK

#### Energy-efficient and economic

- Energy recovery by internal heat exchanger
- Almost no cooling by fresh water required due to special level controlling\*
- Only corrosion-free materials (mainly 1.4.573)

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