



# BWD FIRETUBE STEAM BOILER



## THE COMPLETE BOILER HOUSE SOLUTION BWD - STEAM OUTPUTS FROM 1500 KG/H TO 8000 KG/H

### ENVIRONMENTALLY FRIENDLY

BABCOCK WANSON are at the forefront of boiler and burner design and construction driving down emissions and exceeding the requirements of statutory regulations.

### LOW FUEL CONSUMPTION

- **Perfect Boiler-Burner match**  
The perfect match between the BWD boiler shell and Babcock Wanson burner ensures reliable and efficient operation in standard construction. Efficiencies of 95% and higher can be achieved when fitted with a Babcock Wanson matched economiser and heat recovery system.
- **Consistently high efficiency**  
Consistent high thermal efficiency throughout the firing range is a key feature from Babcock Wanson. Digital micro-modulation control with burner head geometry specifically designed to suit the BWD boiler means accurate control of excess air and lowest practicable operating costs.
- **Low electrical consumption**  
Electrical power consumption can be reduced by 30% to 50% by the use of variable speed control for the combustion air fan and feed water pump when specified.



RELIABLE &  
SAFE DESIGN



ENVIRONMENTALLY  
FRIENDLY



FLEXIBLE  
SOLUTION



FULL RANGE OF  
ANCILLARY EQUIPMENT

### WHY CHOOSE THE BWD BOILER FROM BABCOCK WANSON?

- High efficiency – Low NOx burners
- High burner turndown ratio
- Simple access for ease of maintenance
- Robust design for very long life
- Flue gas and condensing Economisers
- Combustion air Pre-Heaters
- Dual and mixed fuel firing options
- O<sub>2</sub> and CO trim options
- Simple unattended operation
- Complete steam system solutions

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## REDUCED OPERATING COST

### Robust Construction for long life

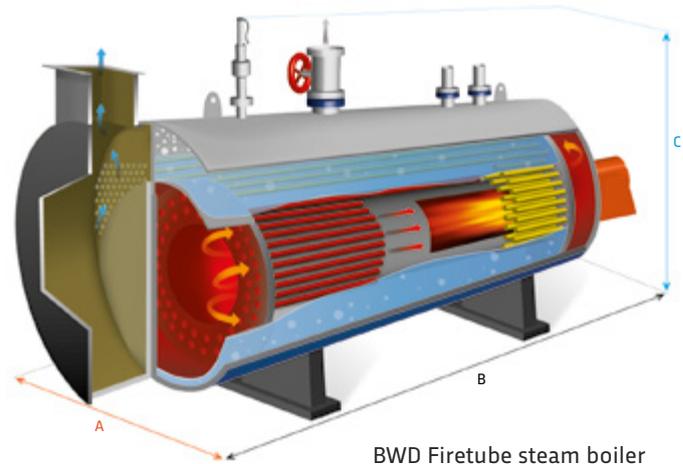
BWD Steam Boilers are three pass design and use a coaxially located furnace tube providing optimum distribution of mechanical stress in operation. This is a key feature for boilers that operate under low or variable steam load and ensures long equipment life.

### Simplified Maintenance

The outer walls of the flue gas reversal chamber are water cooled and provide high efficiency without the need for furnace tie rods which can be a weak point on traditional wet back boilers. Direct access to the reversal chamber and ease of tube inspection simplifies mandatory inspection.

### High Steam Quality

High quality dry steam due to generous steam space and integral separator.



BWD Firetube steam boiler

### Operation

Standard equipment options include fully approved controls for attended, site supervised or fully unattended operation including the Babcock Wanson BW720 Operating System.



BWD	model	15	20	25	30
Steam output <sup>(1)</sup>	Kg/h	1500	2000	2500	3000
Power output <sup>(1)</sup>	kW	1025	1366	1707	2049
Width A <sup>(2)</sup>	mm	2145	2145	2230	2230
Length B <sup>(2)</sup>	mm	4630	4880	6200	6200
Height C <sup>(2)</sup>	mm	2450	2450	2630	2630
Weight-fully flooded	Kg	10200	10200	12988	12988

(1) At 15 barg and feedwater at 80°C.

(2) Overall dimensions include fitted burner and boiler mountings.

For lower or higher steam output requirements please see our **NBWB** and **BWR** range of steam boilers.

Designers and manufacturers of Industrial Boilers, Air Heaters, Thermal Fluid Heaters, Thermal Oxidisers, Water Treatment Plant and associated equipment. Registered Number 573874 London.

Babcock Wanson's policy is one of continuous improvement and the right is reserved to change specifications and dimensions at any time without notice.

KB Combustion Ltd

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