



THE COMPLETE BOILER HOUSE SOLUTION TWINPACK - STEAM OUTPUTS FROM 30 000 KG/H TO 58 000 KG/H

Over a period of more than 50 years Babcock Wanson has built a reputation for excellence in the design and manufacture of Twin Furnace Boilers. These boilers were originally designed to meet the demands of high steam output users and to satisfy to the requirements of the European market for water tube boiler replacement. The TwinPack range of boilers is the latest design and has been developed using a combination of best available technologies to offer high reliability and maximum efficiency.

HIGH PERFORMANCE

■ Energy efficiency

High operating efficiency is a key feature of Babcock Wanson boilers. When a TwinPack boiler is specified in conjunction with a Babcock Wanson Economiser and Heat Recovery System, net efficiencies up to 98% (with the R-Eco system) and 105% (with a condensing economiser) can be achieved. The Babcock Wanson Burner Management System and matched combustion head have been specifically designed for perfect control of excess air throughout the modulating range and non-degraded operation at very low load. The simultaneous operation of the burners guarantees a perfect thermal load distribution while ensuring maximum flexibility in operation and burner turndown ratios of up to 30:1 on natural gas.

■ Environmentally friendly

The perfect match between the boiler and burners guarantees optimal combustion and perfectly controlled emissions. Optimum efficiency and high burner turndown results in lowest practicable CO₂ emissions and specialist burner technology ensures very low Nitrogen Oxide (NOx) emissions to satisfy all environmental demands and regulations.

■ Reliable and safe design

TwinPack boilers benefit from Babcock Wanson's most advanced regulation and control system. For best performance the **NAVENERGY** system allows local operation via the boiler HMI plus remote monitoring through a web interface.



**RELIABLE &
SAFE DESIGN**



**ENVIRONMENTALLY
FRIENDLY**



**FLEXIBLE
SOLUTION**



**FULL RANGE OF
ANCILLARY EQUIPMENT**

WHY CHOOSE THE TWINPACK BOILER FROM BABCOCK WANSON?

- High efficiency and very low emissions.
- Compact design.
- Simple access for ease of maintenance.
- Robust design for very long life.
- Full economisers range.
- Connectivity with our **NAVENERGY** system.
- Combustion air pre-heater options.
- Mixed and dual fuel firing options.
- O₂ and CO trim options.
- Simple 3 and 7 days unattended operation.
- Complete steam system solutions.
- Superheater options.

TWINPACK TWIN-FURNACE FIRETUBE BOILERS

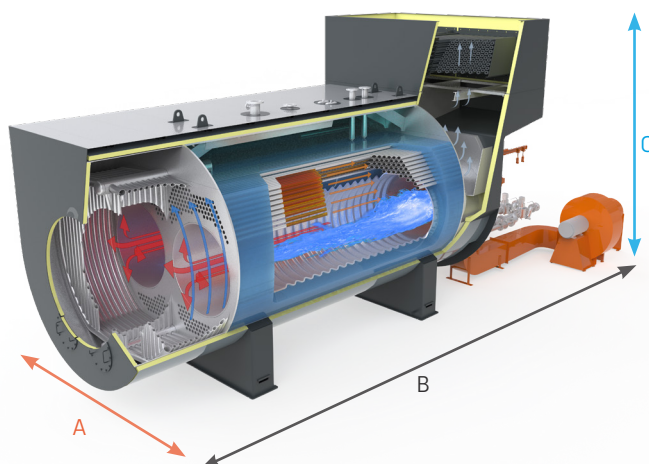
REDUCED OPERATING COST

▪ Robust design for very long life

TwinPack boilers include an aquatubular construction flue gas reversal chamber. This technology, unique to Babcock Wanson, removes any requirement for furnace tube tie rods and allows high variations of steam demand whilst minimising mechanical stress on the pressure body. The TwinPack water tube reversal chamber also minimises boiler refractory requirements.

▪ Easy access

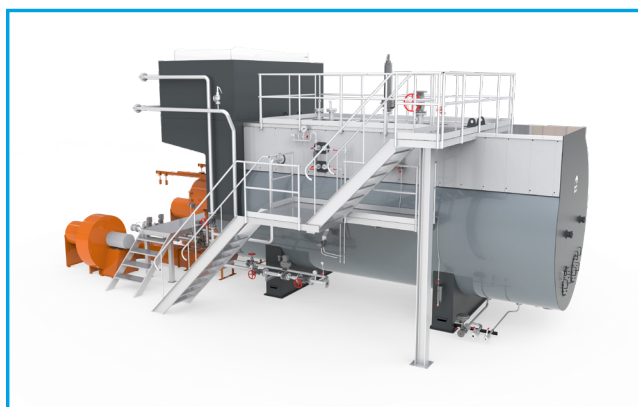
Tubeplate and furnace tube access is simply achieved using large easy use doors on the boiler front and lateral openings. A rear inspection port also provides enhanced access. An inbuilt upper platform provides safe access to boiler mountings and ease of maintenance and operation.



Twinpack Twin-furnace firetube boilers

▪ Economic operation

TwinPack boilers are fitted with comprehensive instrumentation and controls including Babcock Wanson's exclusive unattended operation modes.



TwinPack	model	30.0	34.0	38.0	42.0	46.0	50.0	54.0	58.0
Steam Output ⁽¹⁾	Kg/h	30 000	34 000	38 000	42 000	46 000	50 000	54 000	58 000
Power Output ⁽¹⁾	kW	20 600	23 450	26 225	28 950	31 715	34 330	37 000	39 600
Width A ⁽²⁾	mm	5 700	5 750	5 900	5 950	6 050	6 150	6 250	6 350
Length B ⁽²⁾	mm	12 750	13 200	13 300	13 500	13 800	14 050	14 100	14 500
Height C ⁽²⁾	mm	5 400	5 450	5 600	5 650	5 750	5 850	6 100	6 200
Weight-fully flooded	Kg	90 350	100 800	106 900	110 800	118 000	122 200	136 000	141 000

(1) At 15 barg and feedwater at 80°C.

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

For other steam output requirements please see our range of steam boilers [on our website](#).

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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.



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