



THE COMPLETE BOILER HOUSE SOLUTION LV-Pack SERIES FROM 600 KG/H TO 8400 KG/H

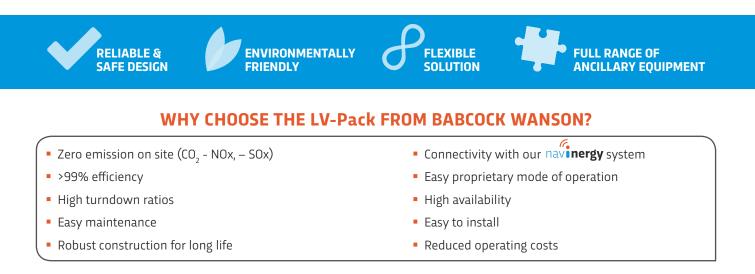
Babcock-Wanson has over 50 years of experience in the design and manufacture of electric boilers.

These boilers have been designed to meet the current challenges of energy optimisation and decarbonization of our industrial customers, with local authorities and governments imposing ever stricter emissions limits on greenhouse gasses. The LV-Pack boiler has been developed by combining the best available technologies to achieve the highest level of efficiency, reliability and flexibility with zero emissions at the production site.

ENVIRONMENTALLY FRIENDLY

The LV-Pack boiler offers many environmental and operational benefits:

- It does not consume any fossil fuel and therefore does not release any gaseous effluents into the atmosphere. From this pesrpective, the installation is very easy: There is no requirement for chimneys, fuel supply networks or storage tanks. In addition, no periodic monitoring of atmospheric emissions is required.
- Efficiencies of over 99% can be achieved as all incoming electrical energy is converted into thermal energy (only minor heat losses through the surfaces are to be deducted).
- Precise pressure control with multiple power stages allow the boiler to react quickly to load changes. This makes it possible to make quick starts to absorb available grid power when needed.



LV-Pack ELECTRIC INDUSTRIAL BOILERS

REDUCED OPERATING COSTS

Robust construction for increased lifespan

LV-Pack boilers are constructed from steel shells and flat bottoms held in place by tie rods that accommodate immersion heaters, offering numerous advantages in terms of performance, implementation and also for periodic maintenance operations. They are designed to allow both quick start-up and quick steam production, while protecting the immersion heaters from excessive stresses.

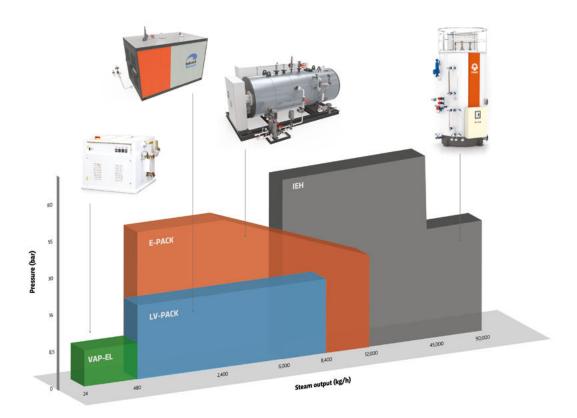
Reduced operating costs

The control and instrumentation allow exclusive Babcock Wanson operating modes that adapt to the constraints of all industrial processes. The boiler is delivered with the Navinergy operating system which allows on-site and remote monitoring of operating parameters.



Easy installation and commissioning

The boiler is delivered ready to operate. All that is required is to connect it to the electricity, the feed water and the steam users. Commissioning is controlled and repeatable and avoids the difficulties that can make the commissioning of a fired boiler more difficult from one site to another.



BABCOCK WANSON GROUP ELECTRIC INDUSTRIAL BOILERS RANGE

With its Babcock Wanson and Parat brands, the Babcock Wanson Group is able to offer a wide range of industrial electric boilers to meet every need, capable of producing from 24 to 90,000 kg/h of steam.

Babcock Wanson UK Limited 7 Elstree Way, Borehamwood, Hertfordshire, WD6 1SA UK Tel: +44 (0) 20 8953 7111 Email: info@babcock-wanson.co.uk www.babcock-wanson.com

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 Group

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

Boilers & Burners LV-Pack mach 2024 –Issue 1



LV-Pack - models from 600 to 3000 - Dimensions

LV-Pack model Kg/h Steam Output (1) (+/- 5%) kW Power Output (1) (+/- 5%) Nominal voltage V 3P ou 690 ou Width I ⁽²⁾ Length L2 mm Height H2 mm Weight fully flooded Kg (+/- 10%) Immersion heater NO NO NO NO NO NO NO on both side Steam mm outlet valve Bottom mm blow down Pressure safety mm valve (outlet) Feedwater mm inlet Surface drain mm

LV-Pack	model	3600	4200	4800	5400	6000	6600	7200	7800	8400
Steam Output ()	Kg/h (+/- 5%)	3600	4200	4800	5400	6000	6600	7200	7800	8400
Power Output ()	kW (+/- 5%)	2400	2800	3000	3600	4000	4400	4800	5200	5600
Nominal voltage	V 3P	690	690	690	690	690	690	690	690	690
Width I ⁽²⁾	mm	2010	2010	2010	2010	2410	2410	2410	2410	2410
Length L2	mm	4490	4490	4490	4490	4490	4490	4490	4490	4490
Height H2	mm	2355	2355	2410	2410	2810	2940	2940	2940	2940
Weight fully flooded	Kg (+/- 10%)	10500	10600	10600	12200	16000	16100	16200	16200	16300
Immersion heater on both side		YES								
Steam outlet valve	mm	100	100	125	125	150	150	150	150	150
Bottom blow down	mm	40	40	40	40	40	40	40	40	40
Pressure safety valve (outlet)	mm	65	65	80	80	100	100	100	100	100
Feedwater inlet	mm	40	40	40	40	40	40	40	40	40
Surface drain	mm	25	25	25	25	25	25	25	25	25

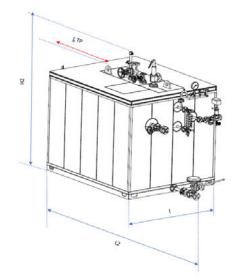
LV-Pack - models from 3600 to 8400 - Dimensions

(1) Power output at up to 8 barg based on feedwater at 95°C.

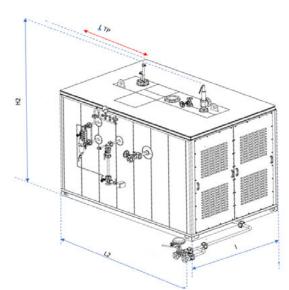
(2) Width (I) given without control cabinet depth (additional width of 500 mm to be considered)

Standard design pressure: 15 barg - Specific max. design pressure: 18 barg

LTP: 1000 mm minimum







LV-Pack - models from 3600 to 8400

LV-Pack - DATASHEET

Power control cabinets - Dimensions

LV-Pack	Power cabinet
600	1 ou 1b
900	2 ou 2b
1200	3 ou 3b
1500	4
1800	5
2250	6
3000	7
3600	8
4200	9
4800	5+7
5400	5+8
6000	7+7
6600	7+8
7200	8+8
7800	8+9
8400	9+9

Power cabinet	Power output (kW ±5%)	Voltage (V 3P+T)	Width (mm)	Height (mm)	Depth (mm)	Circuit breaker rating
1	400	690	2145	2200	600	400
1b	400	400	2145	2200	600	800
2	600	690	2145	2200	600	630
2b	600	400	2145	2200	600	1250
3	800	690	2200	2200	600	800
3b	800	400	2200	2200	600	1600
4	1000	690	2800	2200	600	1000
5	1200	690	2800	2200	600	1200
6	1500	690	3400	2200	600	1600
7	2000	690	4600	2200	600	2000
8	2400	690	4600	2200	600	2500
9	2800	690	4600	2200	600	3200

Options:

- Electricity meter with 4-20mA report (power+current)
- Discount if power cabinet is installed in room < 30°C

Main components of the power cabinet:

- Non-removable main circuit breaker, Isc of 50 kA/1s
- Earth leakage device for incoming supply
- Fuse protection for each stage
- Power regulation with contactors
- Air conditioning for Ambient Temperatures > 30°C and < 40°C
- General cabinet fault report
- Cable entry and exit on the same side, either top or bottom (to be confirmed when ordering)

Command and control cabinet:

- 10-inches touchscreen on control panel
- Level/pressure safety control
- Surface drain and bottom blowdown monitoring
- Cabinet mounted on boiler up to model 3000



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