



SIMPLE RELIABLE OPERATION

- The TPC-B Heater from Babcock Wanson is a vertical multi-pass fired heater with a long pedigree of both design and construction. The downward fired configuration ensures stress free and unrestricted expansion of the heater coil during normal operation.
- TPC-B includes an integral, air-cooled outer case that acts as both a combustion air pre-heater/economiser and as a constant barrier between the hot combustion gasses and the outer structure. This feature ensures safest operation and long heater life.
- Fully integrated and factory tested control system for simple site installation.



**RELIABLE &
SAFE DESIGN**



**ENVIRONMENTALLY
FRIENDLY**



**FLEXIBLE
SOLUTION**



**FULL RANGE OF
ANCILLARY EQUIPMENT**

FLEXIBLE SOLUTION

- The TPC-B Thermal Fluid Heater has been designed to operate in a diverse range of industries and with a wide variety of heat transfer fluids.
- All kinds of liquid or gaseous fuels can be used.
- Choosing Babcock Wanson ensures you meet your process heating requirements.
- Low pressure, high temperature operation.

WHY THERMAL FLUID?

Easy Operation

- No freezing hazard
- No liquid effluent produced
- No water treatment or chemicals required
- Very low maintenance and very long plant life
- Corrosion free

Efficiency

- Closed circuit operation - no loss system
- High combustion and plant efficiency
- 20% to 50% less energy consumed to transfer the same amount of heat compared with steam

TPC-B THERMAL FLUID HEATER

ENVIRONMENTALLY FRIENDLY

- Integral Babcock Wanson burner ensures efficient use of fuel, simple maintenance and compliance with emission standards.
- High efficiency thermal fluid systems provide substantial environmental advantages and low overall emissions.

FULL RANGE OF ANCILLARY EQUIPMENT

- Heat transfer fluid pumps
- Babcock Wanson Combined Deaerator and Expansion tank
- Valves and controls
- System ancillaries and heat exchangers
- Full turnkey design and installation service
- Commissioning and After Sales service



Multiple TPC Units Under Construction



Manufacturing Site

| TPC- B | model | 100 B | 200 B | 400 B | 600 B | 1000 B | 1500 B | 2000 B | 2500 SC | 3000 SC | 3000 B | 4000 B | 5000 B | 6000 B |
|----------|---------------|-------|-------|-------|-------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| Output | kcal/h x 1000 | 100 | 200 | 400 | 600 | 1000 | 1500 | 2000 | 2500 | 3000 | 3000 | 4000 | 5000 | 6000 |
| | kW | 116 | 232 | 465 | 698 | 1163 | 1745 | 2326 | 2908 | 3489 | 3489 | 4652 | 5815 | 6978 |
| Width A | mm | 650 | 650 | 850 | 1025 | 1255 | 1450 | 1790 | 2300 | 2770 | 2355 | 2355 | 2430 | 2725 |
| Length B | mm | 1250 | 1250 | 1380 | 1550 | 2110 | 2400 | 2730 | 3440 | 3905 | 3490 | 3630 | 3660 | 3960 |
| Height C | mm | 1800 | 1800 | 1900 | 1980 | 2620 | 3240 | 3260 | 3360 | 3330 | 4195 | 5155 | 5870 | 6280 |

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.co.uk

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

