

## **NEWS RELEASE**

### **NEW BABCOCK WANSON STEAMPACK FIRE TUBE BOILERS COMBINE FLEXIBILITY, RELIABILITY & EFFICIENCY**

Industrial process heating equipment and solutions specialist Babcock Wanson has launched the SteamPack range of Fire Tube Steam Boilers, for steam outputs from 3500 kg/h to 8000 kg/h.

SteamPack boilers feature unique Babcock Wanson technology in the form of three-pass design and a water tube flue gas reversal chamber for operational flexibility, very high long-term efficiency and reliability and low operating costs. The chamber is welded outside the pressure part body, and does not require any furnace tie rods or reinforcement, giving exceptional flexibility to the shell and furnace expansion allowing large steam load changes with minimal operational stress. This confers to the boiler an increased resistance to cold starts and a great structural strength for very long life. Being continuously cooled by water circulation, the flue gas reversing chamber does not require any refractories.

Operation efficiency is attained by SteamPack through the exacting match between the boiler shell and burner. The dedicated burner combustion head design, linked to very high turndown ratios, provides accurate control of excess air and minimum start/stop cycles. This design reduces fuel consumption whilst ensuring excellent performance across a wide process operating range. It can be further enhanced still with the addition of a Babcock Wanson flue gas heat recovery system adapted to the process at hand. A range of compatible flue gas heat recovery systems are available, including economisers and combustion air preheaters.

Electrical consumption is low with SteamPack boilers. The very low gas side pressure drop considerably reduces the fans' electrical consumption. Furthermore, options available for variable speed combustion air and feedwater drives to further reduce site electrical demand and improve overall efficiency.

Also notably low with SteamPack boilers is emissions, including NO<sub>x</sub>. SteamPack boilers not only readily meet the latest European environmental legislation and when fitted with Babcock Wanson combustion equipment they exceed regulatory requirements.

Fire Tube Steam Boilers require a higher degree of operator knowledge and skill than other industrial heat raising systems, but Babcock Wanson has designed the new SteamPack range to be simpler to operate and maintain. All boilers in the range

come with comprehensive instrumentation and controls as standard, including Babcock Wanson's exclusive three and seven day unattended operation modes. Maintenance has been made far easier due to easy access built into the SteamPack's design. For example, full access to the front smoke and furnace tubes is via large easy use doors and an integrated high-level access platform provides simple, safe access.

The new SteamPack range of Fire Tube Steam Boilers come with a range of options for maximum flexibility, including a condensing economiser, combustion air pre-heater, dual and mixed fuel firing, O<sub>2</sub> and CO trim.

Babcock Wanson offers a complete range of products and services for boiler houses and other process heating needs, from steam boilers, thermal fluid heaters, rapid steam generators and hot water boilers to VOC and odour treatment by thermal oxidation, water treatment or process air heating solutions. The company aims to help optimise customer's energy production with high quality products and efficient service.

For more information, please contact Babcock Wanson on 020 8953 7111 or [info@babcock-wanson.com](mailto:info@babcock-wanson.com) or go to [www.babcock-wanson.com/products/steam-boilers/steampack/](http://www.babcock-wanson.com/products/steam-boilers/steampack/)