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Budget reverse osmosis unit cleans up steam production

Steam boiler manufacturer, CFB Boilers, has launched a budget-friendly reverse osmosis unit, the BoilerRO, which is capable of achieving almost 100% purity of boiler feedwater for superior quality steam. Designed in Britain by CFB Boilers, the BoilerRO costs around half that of many comparable units, making reverse osmosis accessible to steam boiler users that may previously have found the technology to be price-prohibitive. This market game-changer is suitable for a wide range of commercial and industrial applications, including those within the medical, pharmaceutical, food and beverage industries.

Reverse osmosis offers significant performance advantages over scale devices and water treatment methods and works by passing pressurised feedwater through special semi-permeable membranes. The pores in the membranes are so fine that 99% of inorganic ions and dissolved organic contaminants are prevented from passing through; instead, only water molecules are able to pass downstream. The results include efficient boiler running capacity due to the optimisation of boiler TDS, and energy savings from less frequent boiler blowdowns. Further benefits of the BoilerRO include superior water taste and clarity, spot-free rinses, and reduced scale.

Construction-wise, the BoilerRO boasts a number of features usually only associated with high-end units, such as a stainless steel chassis, three-membrane housing, high pressure pump, and high performance Polyamide 8040 membrane. A compact, vertical design means that it is easy to site, even in awkward locations. The BoilerRO has an estimated production (with public water supply) of ± 5,000 – 20,000 L / h.

The BoilerRO was designed in Britain by CFB Boilers, a 120-year-old, Essex-based steam boiler and ancillary manufacturer that has created bespoke steam boiler solutions for companies such as the National Institute for Biological Standards and Control (NIBSC), McCains and Flymo. The company developed the technology to make reverse osmosis affordable for all steam users.

“Poor quality water can do a lot of damage to steam boilers, reducing component longevity and increasing maintenance costs, repair costs and downtime. Reverse osmosis can drastically improve water quality - and therefore steam quality - but most units on the

market are expensive – many clients would like one but lack the budget. We've been manufacturing steam boilers and ancillaries for over 100 years, and have used our expertise to develop a reverse osmosis unit that rivals some of the market's best in terms of performance, but that is budget-friendly. We're very proud of the BoilerRO and delighted that it has already been so well received," said Derek Parish, Managing Director of CFB Boilers.

For more information on the BoilerRO, please visit www.steamboilers.co.uk or call CFB Boilers on 01255 224500.

Notes

The UK's foremost and longest-standing specialist in efficient steam generation, CFB Boilers uses over 120 years of steam boiler experience to deliver superior cost and carbon cutting steam solutions across a variety of industries. Flying the flag for British manufacturing, CFB Boilers designs and manufactures its innovative four-pass vertical steam boiler range at its purpose-built facility in Essex. Furthermore, the company is the chosen UK distributor for the Bosch range of horizontal boilers, and also supplies a wide variety of hot water and electric boilers, ancillary equipment and plant rooms, ensuring all aspects of industrial boiler needs are met with ease. CFB Boilers offers a complete range of services, from design and installation to maintenance and repair, and prides itself on delivering exemplary customer service, fast quotation response, quick order turnarounds, and competitive pricing.

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Thumbnail of attached image:

Figure 1. The BoilerRO is capable of achieving almost 100% purity of boiler feedwater and is around half the price of many comparable units.