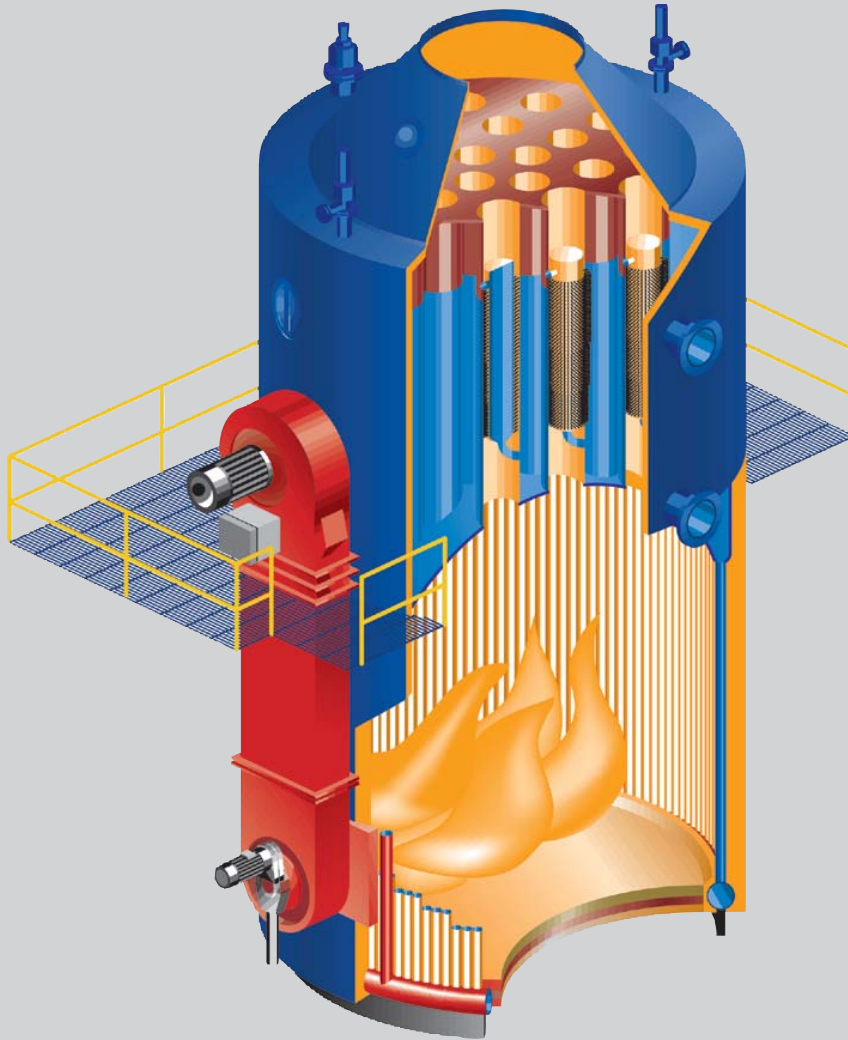


SUNROD™ CHS



SUNROD™ CHS is an oil- or gas-fired water tube boiler with a thermal output up to 30 MW at 18 bar (g) and an operating temperature up to 200°C. The boiler is manufactured in mild steel and its pin tube elements provide an extended heating surface.

Description

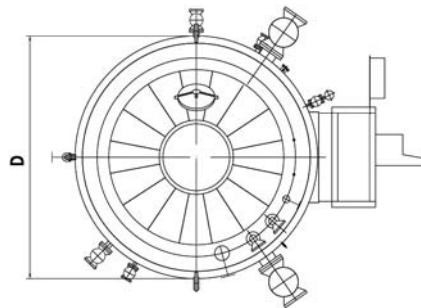
The SUNROD™ CHS boiler for hot water has a unique pin tube extended surface. The vertical cylindrical body consists of a furnace and a convection part integrate with the drum.

The furnace consists of a gas tight membrane wall. A number of downcomer tubes connecting the drum to the ring header ensure good natural circulation at all loads through the furnace tubes.

The boiler is side-fired which makes the boiler very easy to ventilate and gives an operation and maintenance friendly location of the burner and its controls.

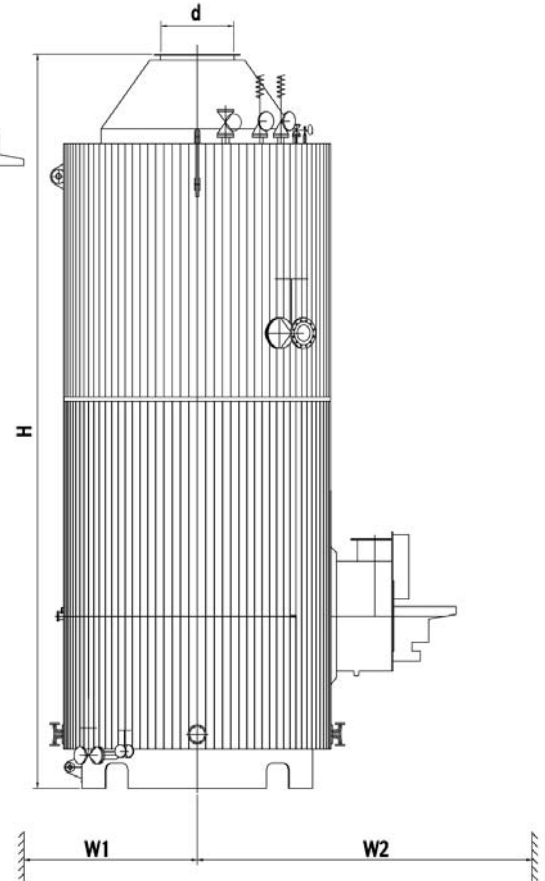
The incoming system water is mixed into the boiler drum by means of a spreader with nozzles. The hot-water generation is practically instant from start. The response from load variation is very fast.

The boiler can be inspected on the water side through the manhole in the pressure vessel and through the



hand holes in the ring header. On the gas side, the boiler can be inspected from the flue gas box at the top of the boiler and from the furnace.

The standard cleaning method is by water washing, which efficiently restores the original boiler performance data. After cleaning, it is possible to make a visual inspection of 100% of all the heating surfaces, a very important advantage when trying to reach highest possible efficiency during the boiler's entire lifetime.



STANDARD PRODUCT RANGE

Capacity, weight and dimensions

Thermal output at 100% MCR	Design pressure	Height "H"	Diameter "D" (incl. insulation)	Width "W1" Heating coil removal	Width "W2" Burner removal ¹⁾	Flue gas outlet connected	Boiler dry weight ²⁾
MW	bar (g)	mm	mm	mm	mm	DN	ton
10	18	7,300	3,000	2,015	3,320	700	19.0
11	18	7,800	3,000	2,015	3,440	700	20.3
14	18	7,900	3,300	2,165	3,595	900	24.7
17	18	8,700	3,300	2,165	3,820	900	27.0
21	18	9,000	3,600	2,315	4,000	1,000	32.9
24	18	9,620	3,900	2,465	4,775	1,000	38.4
28	18	9,660	4,100	2,565	4,735	1,200	43.3
30 ³⁾	18	9,660	4,100	2,565	5,690	1,200	45.7

¹⁾ With KBSA steam atomising burner (if oil-fired)

²⁾ Without burner and accessories

³⁾ The 30 MW boiler has extended furnace
Operating temperature up to 200 °C