

HW34 Hot Water Boiler

5000-16000 kW

Cochran's HW34 is a horizontal three pass, wet back hot water boiler. Designed and built to EN12953, the HW34 delivers higher operational efficiencies. This model is suitable for both low and high temperature applications, the boiler meets the latest European environmental legislation and the Medium Combustion Plant Directive (MCPD).

The boiler is designed to meet the current UK building regulations with gross seasonal efficiency of over 86% and complies with the requirements of the Factories Act (1961) and with HSE and UK Inspection Authority requirements. In addition, the Boiler is CE Marked to meet the requirements of the Pressure Equipment; Low Voltage; Electro-Magnetic Compliance; and Machinery Safety Directives. Throughout the manufacturing process, this boiler is subject to inspection by a leading Independent Insurance Company, in addition to Cochran's own ISO 9001-compliant quality procedures.

Cochran's HW34 packaged hot water boiler offers the following key features and optional upgrades:

- A fully wet-back hot water boiler range, developed to meet today's demands for higher operational efficiencies and lower emissions.
- Offers impressive performance and lower emissions for larger commercial and industrial applications.
- Features Cochran's low NO_x burners as standard.
- Wide range of outputs from 5000 kW to 16000 kW, with bespoke twin furnace designs for outputs up to 30000 kW.
- Normal operating pressure is 5.25 Barg, with options up to 25 Barg.
- Features Cochran's low NO_x burners as standard.
- Wide range of combustion and control packages, superheater and economiser options.
- Turndown of up to 7:1.
- Variable speed drives for FD Fan motor helps deliver low noise levels and reduce power consumption.
- Enhanced insulation for lower touch temperature.



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| HW34 Model | | HW34-1 | HW34-2 | HW34-3 | HW34-4 | HW34-5 | HW34-6 | HW34-7 | HW34-8 | HW34-9 |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Output | kW | 5000 | 6000 | 7000 | 8000 | 9000 | 10000 | 12000 | 14000 | 16000 |
| Length | A mm | 6547 | 7218 | 7318 | 7569 | 8126 | 8200 | 8962 | 9671 | 10205 |
| Width | B mm | 4171 | 4547 | 4631 | 4582 | 4582 | 4682 | 4994 | 5346 | 5446 |
| | C mm | 1280 | 1387 | 1454 | 1496 | 1496 | 1514 | 1665 | 1915 | 1915 |
| Boiler Tube Withdrawal | D mm | 4250 | 4447 | 4459 | 4704 | 4704 | 4698 | 5035 | 5392 | 5392 |
| | E mm | 3020 | 3217 | 3229 | 3474 | 3474 | 3468 | 3805 | 4162 | 4162 |
| | F mm | 4144 | 4794 | 4754 | 4924 | 5424 | 5454 | 5896 | 6455 | 6888 |
| Rec. Chimney Dia. | G mm | 1810 | 2079 | 2096 | 2005 | 2005 | 2087 | 2248 | 2350 | 2450 |
| | mm | 535 | 550 | 610 | 650 | 690 | 700 | 800 | 835 | 885 |
| Flow Connection Dia. | mm | 250 | 250 | 250 | 300 | 300 | 300 | 350 | 350 | 350 |
| Return Connection Dia. | mm | 250 | 250 | 250 | 300 | 300 | 300 | 350 | 350 | 350 |
| Safety Valve Size | mm | 80 | 80 | 100 | 100 | 100 | 125 | 125 | 150 | 150 |
| Safety Valve Outlet Dia. | mm | 125 | 125 | 150 | 150 | 150 | 200 | 200 | 250 | 250 |
| Drain Valve Dia. | mm | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Weight Empty | Tonnes | 14.1 | 18.9 | 18.5 | 19.8 | 21.5 | 23.6 | 30.1 | 38.4 | 41.7 |
| Weight Full | Tonnes | 26.2 | 35.1 | 37.2 | 39.1 | 42.7 | 44.8 | 54.3 | 83.1 | 88.7 |

Note: All Dimensions and weights are approximate only and are based on a boiler working pressure of 5.25 BarG.

+44(0) 1461 202 111 www.cochran.co.uk

Newbie Works, Annan, Dumfries & Galloway, UK DG12 5QU.

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