



Wood Biomass Boilers

Power: 145/190/240/290/360 kW

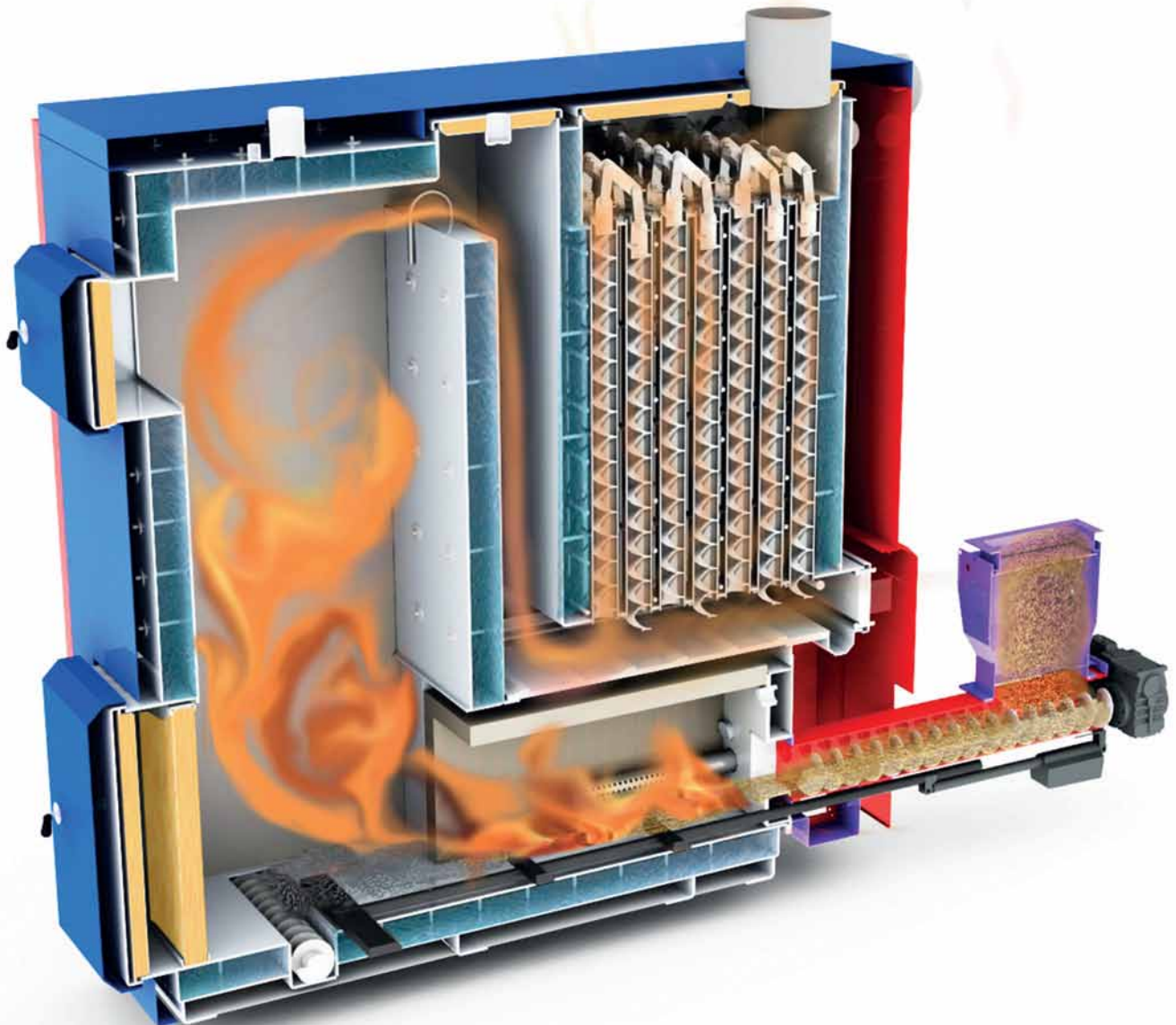
All wood max. 35% moisture.

Manufactured in Denmark to NF-EN 303-5

KSM XL - Professional range for Industry and Agriculture

The boiler is fully assembled, electrically wired and tested at the factory prior to delivery. This allows quick, simple installation reducing onsite costs.

This is a fully automated system with remote management and monitoring available via the internet, automatic cleaning and ash removal.



Supplied by:
Core Biomass Ltd
Company No. 08880409

COREBIOMASS

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Automatically fuelled biomass boilers for wood max. 35 % humidity: Wood Chips (max. P45 / G50) - Wood pellets 6/8/10/12 mm

KSM XL range is fitted with the following equipment as standard:

- Electronic PID control modulates the output to match your heat demand
- 5.7" colour display
- Oxygen sensor (Lambda)
- Temperature probes (water and flue gas)
- Control cabinet fully wired and factory tested
- Automatic cleaning of flue pipes and combustion chamber
- Sprinkler system with tank and thermal valve
- Frequency controlled draft fan controlled by the vacuum in the furnace
- Feed screw with spring mounted air valve

Options:

- Automatic ignition
- Remote Monitoring via Internet
- SMS alarms
- Level indicator within fuel silo
- Multicyclone filter or bag filter
- Fuel extraction silo systems:
 - hydraulic scrapers
 - Sweep auger up to 5m diameter
- Larger ash containers.



↑ PCT 400 control screen



↑ Smoke tube cleaning device



↑ Automatic ash removal container



↑ View of the refractory hearth with primary and secondary stainless air nozzles. Scraper for ash removal and to assist in clinker break up



↑ Spring mounted air valve prevents burn back, infrared level detector and fans for the combustion air.

Please note that KSM biomass boilers can burn other biomass fuels such as cereals, but it is the sole responsibility of the customer to correctly set up and operate the boiler under the direction of your supplier. The KSM warranty becomes void when used with any fuel other than wood/wood pellets.

Boiler delivered assembled and electrically tested.



XL range is tested by an accredited laboratory, certified to NF -EN 303-5 class 3.

The XL range is equipped with a scraper within the furnace allowing the boiler to burn a range of fuels e.g. low quality wood chip, low quality pellets, and cereals. The boiler can be equipped with a lime dosing unit which allows the boiler to burn difficult fuels such as straw pellets.

The KSM system is suitable for anyone wanting a compact, robust and reliable biomass boiler. The versatile control system allows the user to make in-depth alterations to many of the parameters that control the boiler.

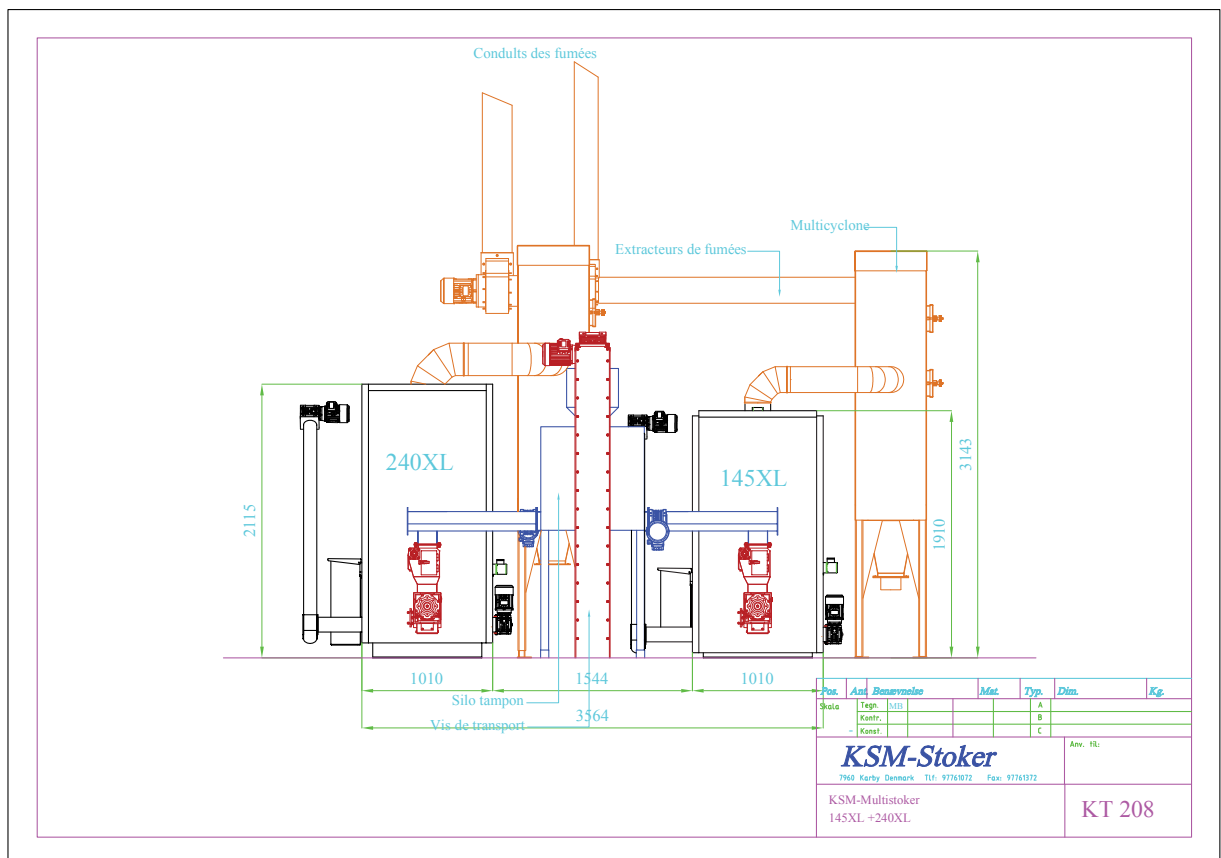
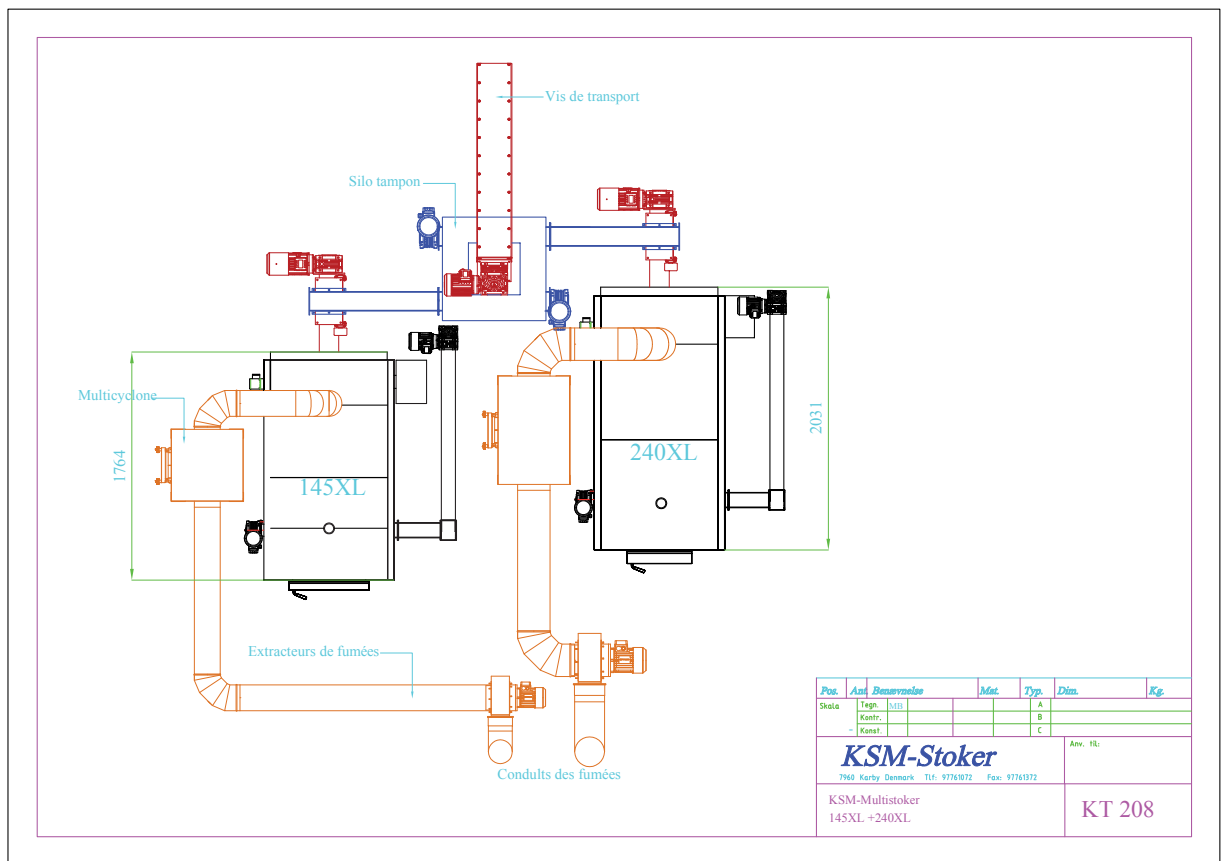
All motors are wired and tested at the factory. Onsite installation involves supplying power to the control board and connecting the flow and return water supply.

RHI Scheme

A selection of KSM boilers are domestic and non-domestic **RHI compliant** and have been tested with a range of fuels. For further details on RHI compliant fuels and suitable boilers please contact your supplier.

To read more about the RHI scheme and how to claim please visit: www.corebiomass.co.uk/rhi

KSM XL:	145 XL	190 XL	240 XL	290 XL	360 XL
Rated Power (Wood Pellets)	145kw	190kw	240kw	290kw	360kw
Flow And Return Diameter	2½"	2½"	2½"	2½"	2½"
Smoke Outlet Diameter	Ø215mm	Ø215mm	Ø250mm	Ø250mm	Ø250mm
Volume Of Water In Heat Exchanger	200 l.	200 l.	300 l.	300 l.	300 l.
Efficiency	90%	91%	92%	92%	90%
CO Emissions (Wood Pellets)	20 ppm	160ppm	136 ppm	94 ppm	126 ppm
Efficiency At 25% Output (Wood Pellets)	90%	90%	93%	95%	92%
CO Emissions At 25% Output (Wood Pellets)	246 ppm	139 ppm	106 ppm	61 ppm	86 ppm
Minimum Operating Output	25%	25%	25%	25%	25%
Width	160 cm	160 cm	160 cm	160 cm	160 cm
Height H1	195 cm	195 cm	212 cm	212 cm	212 cm
Height With Smoke Extractor Horizontal H2	218 cm	218 cm	238 cm	238 cm	238 cm
Height With Vertical Smoke Extractor H3	252 cm	252 cm	269 cm	269 cm	269 cm
Total Length With Feed Screw	280 cm	280 cm	300 cm	300 cm	300 cm



Brochure sent by:

Manufacturer:

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