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HPK-RA 15 kW - 160 kW

GILLES
BIOMASS HEATING



WOODCHIP HEATING SYSTEMS



Woodchip Boiler HPK-RA 15 - 160 kW

This high performance boiler is produced from a stress-free welded construction. The heat insulated door opens outward for easy access to the burner chamber. The cleaning of the boiler lines is fully automatic by means of an own drive via 6 mm width worm screws. The gasification combustion chamber built on a direct current principle is fitted with a variable, ceramic (replaceable) radiation cover cladding. High combustion temperatures and a long furnace sojourn time of the gases ensures a clean burning process. The boiler is designed for the automated burning of woodchips and without the need for conversion, the burning of logs is also possible.



- Modulation down to 30% of nominal output
- All models come with automatic heat exchanger cleaning
- Automatic de-ashing as standard with mobile ash box
- Heavy duty ash agitator
- Automatic ignition and management system ensures fantastic controllability
- Welded high-performance multiple-draught boiler in thick-walled boiler plate St. 37.2 (6 mm)
- Horizontal heat exchanger in seamless drawn thick-walled boiler pipe
- 70 mm width insulation;
- Operation pressure max. 3 bar
- Incl. draught stabilisation fan

Woodchip Transfer Systems



Sprung transfer system

This is suitable for the transfer of shavings, G30 woodchips and pellets. The sprung transfer system consists of two compound springs and a pressure sensitive head designed to minimise energy requirement whilst emptying the store as the store level falls.

Max. delivery height for chips: 3 m



Hinged arm sweep collector

This is suitable for the transfer of shavings, G50 woodchips and pellets. The hinged arm sweep collector consists of two double hinged arms and a pressure sensitive head. This delivery method is more suited to larger fuel storage options, where the increased tension allows effective delivery of larger and wider diameters.

Max. delivery height for chips: 6 m
Max. delivery height for pellets and wood briquettes: 2.5 m

Controls and Monitoring



Controller features:

Amodular PLC control - Automatic ignition - Cellular feed control and auto reverse - Night economy control - Boiler-, flue gas-, loading quantity control - Modem for remote maintenance

Five operating modes for simple change over during different heating requirements.



This system also comes complete with an indoor controller. The indoor controller for control of 2 heating circuit and 1 hot water circuit, as standard.

FireView enables the user to view boiler settings from a home computer as well as allowing our service department to remotely access the system.

Cell Wheel Feed System



The multi tested cell wheel is constructed from thick steel and ensures a consistent feed as well as eliminating the risk of burn back. The rotary wings are campered to ensure a low noise and efficient operation. The solid and noise absorbing cast body is regulating the chips size in conjunction with an integrated counter edge.



Burner Technology



CERAMIC JET BURNER (from 30 kW)

The GILLES combustion system uses a balance of primary and secondary air flow from the two fan units to govern the burn and control heat outputs. The steel burner head, fan units, feed auger and automatic ignition system are all neatly contained within the casing. Our experience, combined with the latest technical developments and the use of the most robust materials ensure guaranteed clean combustion and a long service life.

Suitable for: saw dust, pellets, woodchips (up to G50), timber briquettes and much more.

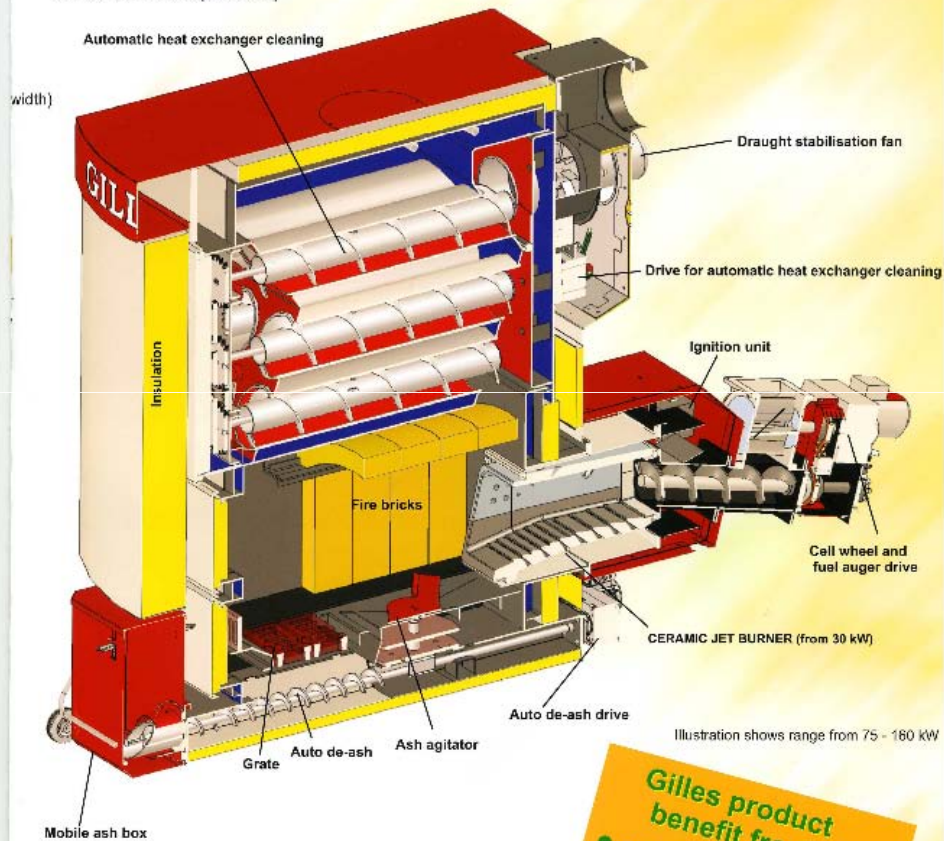
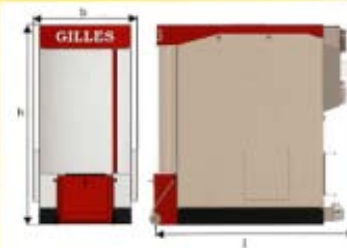


Illustration shows range from 75 - 180 kW

All biomass boiler up to 300 kW  certificated!
Efficiency on full- and part load above 90%

- Gilles product benefit from**
- Outstanding built quality
 - 15 years experience
 - PLC control and modem
 - 50 mm solid auger shaft
 - 6 mm boiler plate
 - Outputs from 12,5 - 5000 kW
 - All systems over 90% efficiency

Woodchip Boiler Data

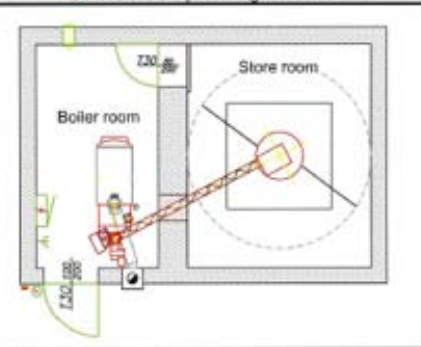
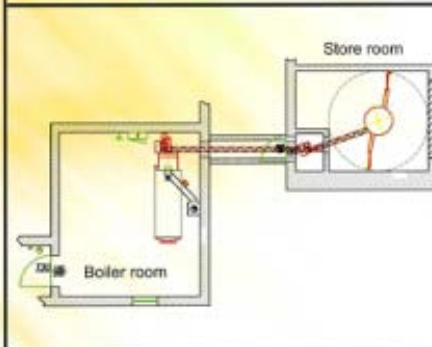
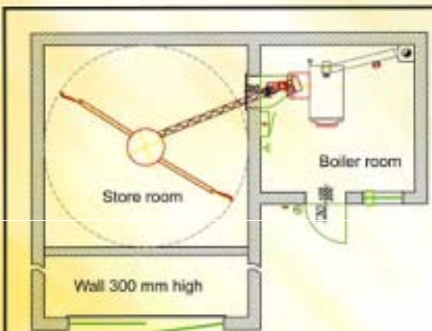


Subject to alterations

GILLES HPK-RA	15 kW	20 kW	25 kW
Length l (mm)	1165	1165	1165
Width b (mm)	620	620	620
Height h (mm)	1485	1485	1485
Weight (kg)	443	443	443
GILLES HPK-RA	30 kW	35 kW	40 kW
Length l (mm)	1430	1430	1430
Width b (mm)	765	765	765
Height h (mm)	1445	1445	1445
Weight (kg)	724	724	724
GILLES HPK-RA	49 kW	60 kW	75 kW
Length l (mm)	1430	1540	1780
Width b (mm)	765	935	935
Height h (mm)	1445	1785	1785
Weight (kg)	724	1330	1570
GILLES HPK-RA	85 kW	100 kW	120 kW
Length l (mm)	1780	2155	2155
Width b (mm)	935	935	935
Height h (mm)	1785	1785	1785
Weight (kg)	1570	1963	1963
GILLES HPK-RA	145 kW	160 kW	
Length l (mm)	2620	2620	
Width b (mm)	935	935	
Height h (mm)	1785	1785	
Weight (kg)	2463	2463	

Dimensions are positioning measurements

Installation Options



our partner

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