

INDUSTRIAL BOILER

Under feed firing

HS PERIFAL[®]

HS Perifal AB, Box 654, 521 21 Falköping

Tel: 0515-171 10 Fax: 0515-155 13

www.baxi.se - info@baxi.se

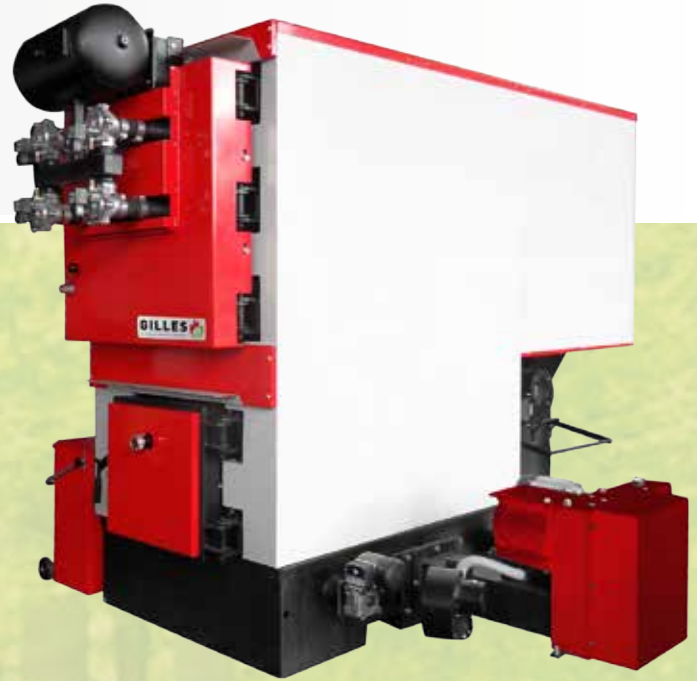
BAXI



HPKI-L 199 / 205 / 225

INDUSTRIAL HEATING

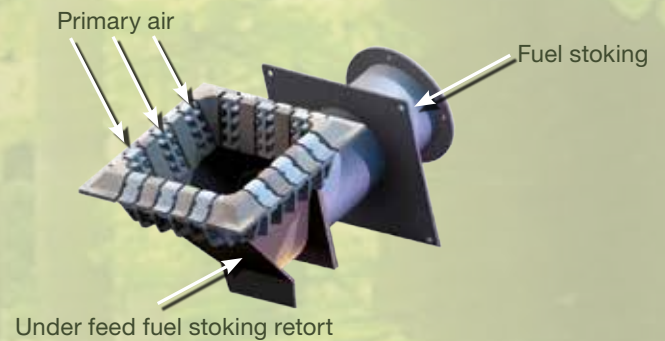
Industrial boiler HPKI-L



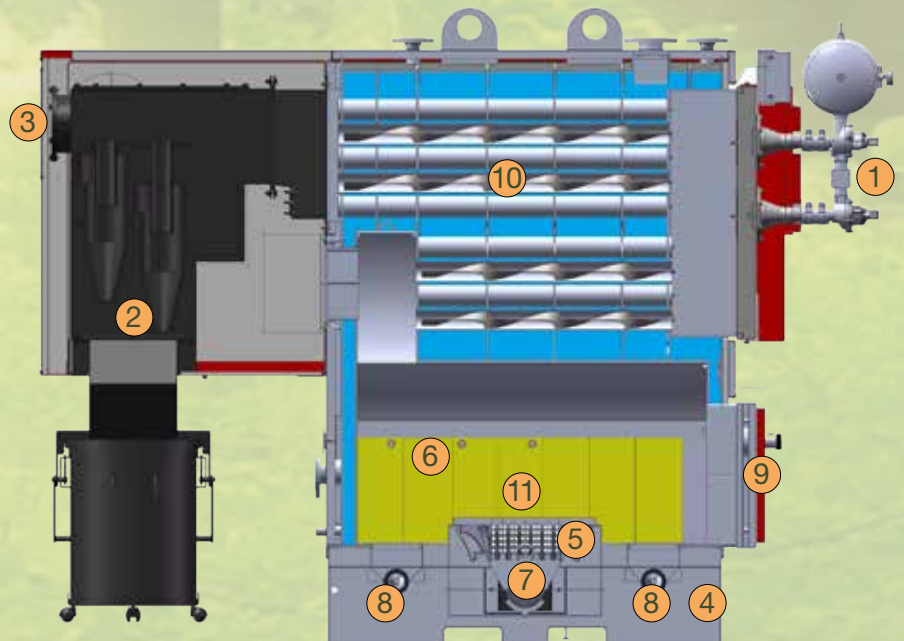
The high-performance boiler

is produced as a stress-free welded construction. The thermally insulated door at the front swings out completely permitting completely free access for cleaning all the boiler flues. The boiler is constructed in accordance with the natural combustion process of wood fuel. The gasification combustion chamber is built on a direct pass principle and can be equipped with heat resistant fire bricks. High combustion temperatures and a long furnace duration of the gases is the guarantee for a clean burning process.

- Under feed fuel stoking with combustion retort in heat resistant steel and cast alloy
- The horizontal heat exchanger is equipped with turbulators and efficiently cleaned by air pressure.
- Primary and secondary air are regulated by the combustion air fans and a frequency controlled flue gas fan. Output is regulated by flue gas temperature, lambda probe and boiler temperature.
- Ceramic lining with high-temperature fire bricks optional.
- Ash grate bars in heat resistant cast alloy.
- Built in cyclone for flue gas dust removal and frequency controlled flue gas fan for negative pressure control.



- ① Automatic heat exchanger cleaning
- ② Automatic flue gas dust removal
- ③ Flue gas fan
- ④ Insulation
- ⑤ Primary air
- ⑥ Secondary air
- ⑦ Fuel stocking
- ⑧ Automatic ash removal in
- ⑨ Combustion chamber door
- ⑩ Heat exchanger
- ⑪ Combustion chamber



HEATING CONTROL SYSTEM

Intelligent control

GILLES Touch

✓ Higher efficiency

✓ Energy saving

(Energy efficient control of the electrical components)

✓ Smooth control of the drives

(Components: Ignition fan, 3 way diverting valve, transport system)

Benefits:

- Settings for different fuels
- Modulation of the boiler
- Convenient setting and alteration of all heating functions via smart phone, tablet, PC or Mac
- Automatic error message notification via e-mail
- Remote monitoring of the boiler via internet
- Graph record of all heating parameters on the internal memory
- Modular design (expandable)
- Robust design of switch cabinet
- Cascade control
- Password protected
- Modbus compatible
- Enabling of external heat source
- Recording of all operation parameters via USB stick



Programming and updates possible via USB stick



- Boiler & stoker status displayed
- Status display => which components are currently active
- All important settings can be seen on the main screen, such as temperatures, O₂ value, fans, etc.



- Display of the actual values and the set points
- All fans performances visible



- Trend logging over 6 months with USB Stick
- Trend log exportable to USB stick
- All values displayed on the controller can be recorded and saved



GILLES Touch Remote access

INDUSTRIAL HEATING

Transport systems

WOOD CHIP TRANSPORT SYSTEM HINGED ARM SWEEP COLLECTOR

Fuel Transport auger

Continuously welded 8 mm auger flights

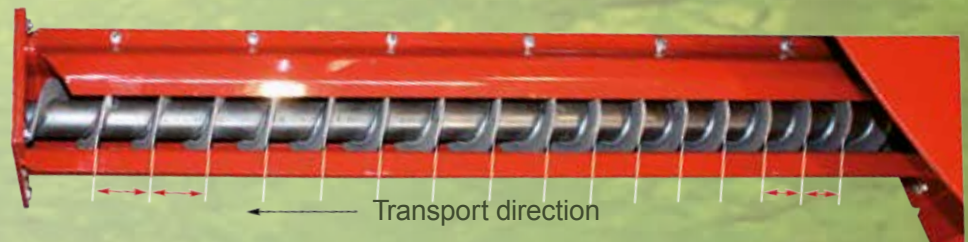


Ripping hook

prevents blockages in that larger wood chips are automatically pushed down to then be cut in the cell wheel.



- ① Drive motor with oil immersed helical gears and start-up cushioning, vibration reduction
- ② Large dimension auger channel
- ③ Robust auger with progressive flights suitable for wood chips up to G50/P45 Ö-NORM M7133
- ④ Double hinged arm system for optimal clearing of the wood chip storage room
- ⑤ The helical gear box with shaft lip seal
- ⑥ Ripping hook



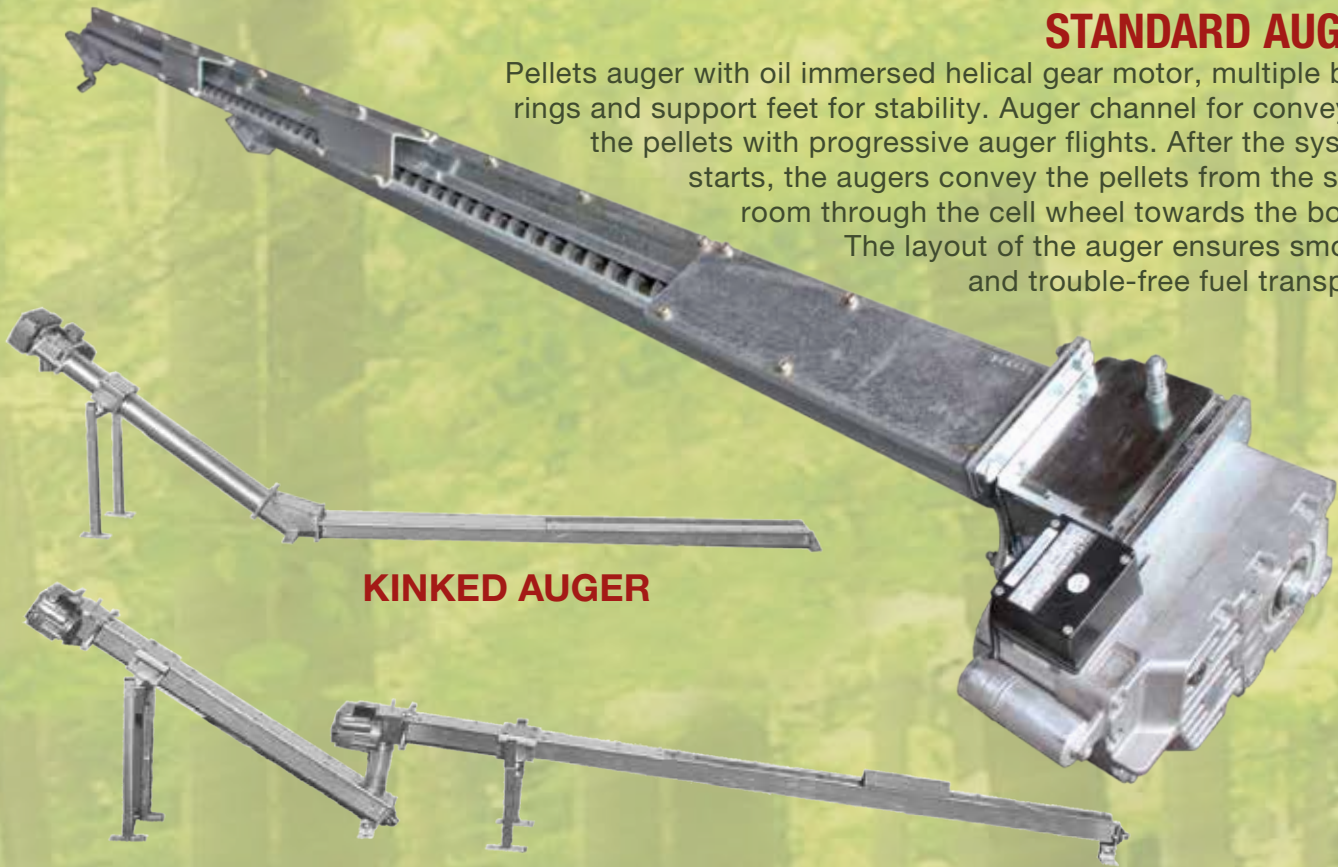
Transport auger with continuously progressive 8mm auger flights (stops that material getting stuck)

INDUSTRIAL HEATING

Pellet transport system

STANDARD AUGER

Pellets auger with oil immersed helical gear motor, multiple bearings and support feet for stability. Auger channel for conveying the pellets with progressive auger flights. After the system starts, the augers convey the pellets from the store room through the cell wheel towards the boiler. The layout of the auger ensures smooth and trouble-free fuel transport.



KINKED AUGER

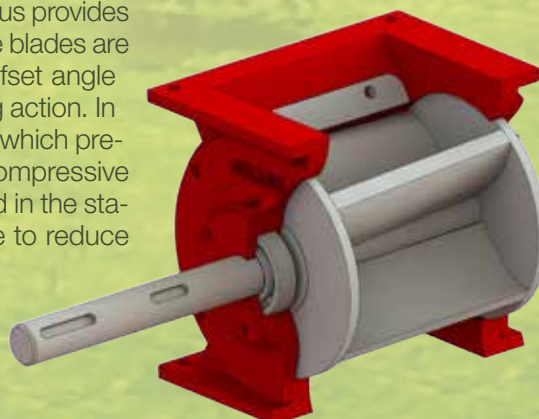
RISING AUGER

GILLES special features

Gilles Cell wheel

The multi-tested full-metal cell wheel reliably interrupts the boiler from the fuel store and thus provides 100% protection against burn back. The blades are attached to the running wheel at an offset angle to the rotary axis to enhance the cutting action. In addition, the blades are slightly curved, which prevents noise generation and reduces compressive forces. A fixed cutting edge is integrated in the stable and noise-damping cast enclosure to reduce the size of longer pieces of material.

*100% protection against burn back
Proven on thousands installations*



Energy-saving 4-chamber system with low running surface



IBS proved.

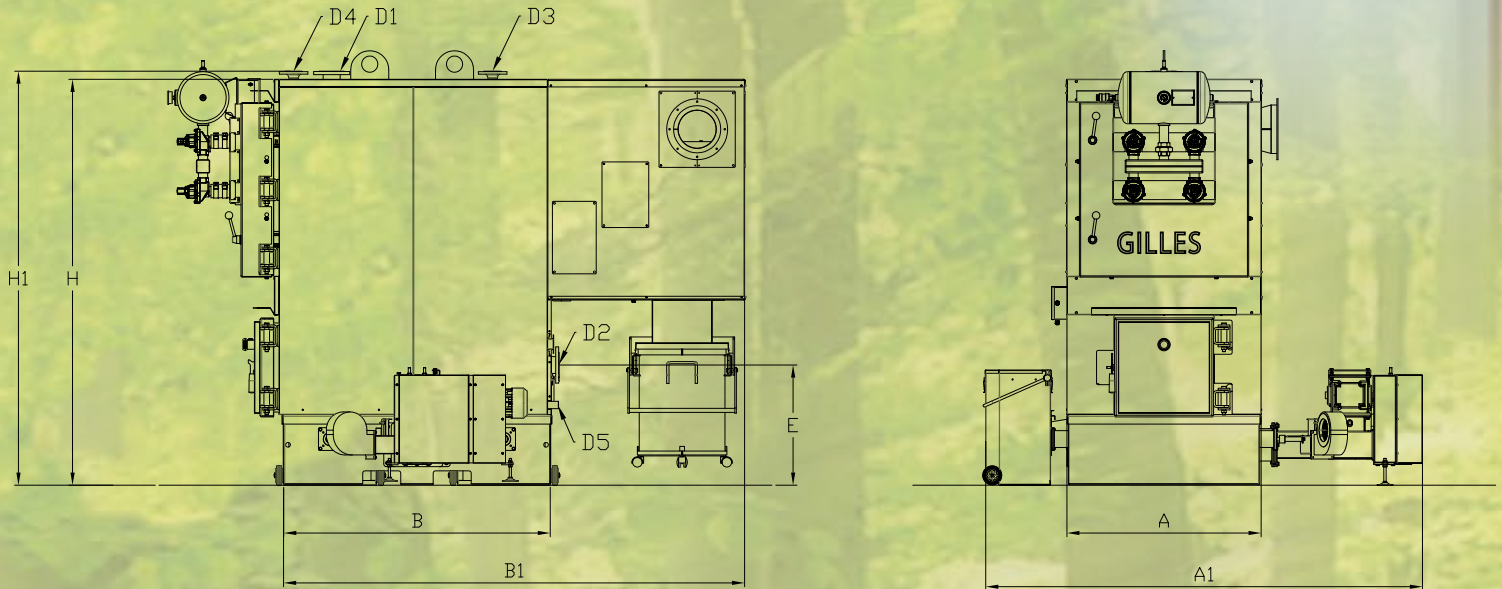
INDUSTRIAL HEATING

Specification

GILLES

INDUSTRIAL BOILER HPKI-L 199 / 205 / 225

Under feed firing



BOILER DATA

Type		HPKI-L 199	HPKI-L 205	HPKI-L 225
Power	kW	199	205	225
Working Pressure	kPa	300	300	300
Test Pressure	kPa	450	450	450
Volume of water in boiler	liter	920	920	920
Weight of boiler	kg	2700	2700	2700
A	mm	1005	1005	1005
A1		2660	2660	2660
B		1400	1400	1400
B1		2120	2120	2120
Flue Pipe Connection		Ø 250	Ø 250	Ø 250
E		625	625	625
H		2125	2125	2125
H1		2275	2275	2275
D1 Flow		DN80 NP6	DN80 NP6	DN80 NP6
D2 Return		DN80 NP6	DN80 NP6	DN80 NP6
D3 Safety Flanges	DN40 NP16	DN40 NP16	DN40 NP16	
D4 Safety Flanges	DN40 NP16	DN40 NP16	DN40 NP16	
D5 Drain	1"	1"	1"	