





INDUSTRIAL

INDUSTRIAL BOILER HPKI-R 180 - 550

- Moving step grate - air-cooled

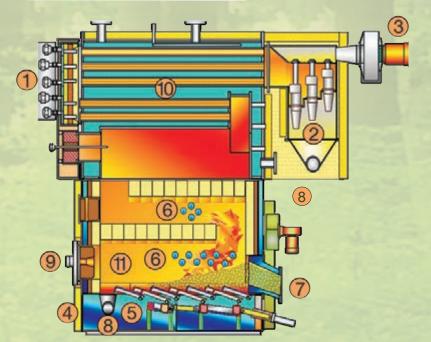
The high-performance boiler

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 the fuel wood. The gasification combustion chamber built on a direct pass principle is fitted with a variable, ceramic (replaceable) radiator roof cladding. High combustion temperatures and a long furnace duration of the gases is the guarantee for a clean burning process.

HPKI-R:

- Moving step grate for drying, gasification and combustion of the fuel and ash transport from the combustion chamber
- Grate sledge with maintenance free slide rails, easy removal and refitting of grate bars

Wet fuels - air cooling



- Automatic heat exchanger cleaning
- 2 Automatic flue gas dust removal
- 3 Flue gas fan
- 4 Insulation
- 5 Primary air
- 6 Secondary air
- 7 Fuel stoking
- 8 Automatic ash removal in 50/240 litre ash box
- 9 Combustion chamber door
- 10 Heat exchanger
- (11) Combustion chamber

BOILER

INDUSTRIAL BOILER HPKI-K 180 - 550

- Under feed firing

HPKI-K:

Under feed fuel stoking with combustion retort in heat resistant steel and cast alloy

Primary and secondary air are regulated by the combustion air fan and air dampers. Output regulated by flue gas temperature, lambda probe, combustion chamber and boiler temperature.

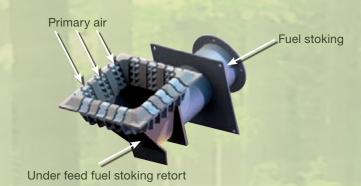
Double-wall steel housing for pre-heating the combustion air and for cooling the inner anchoring plate of the ceramic lining.

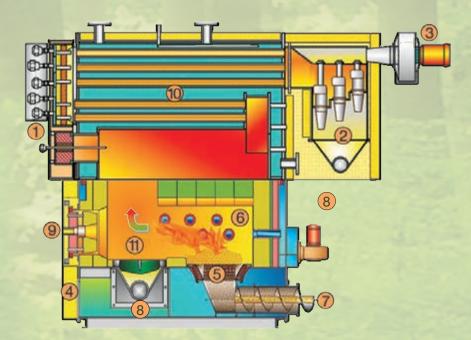
Ceramic lining in high-temperature resistant concrete.

Ash grate bars in heat resistant cast alloy.

Combustion chamber door with safety catch and interlock.







- 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 stoking
- 8 Automatic ash removal in ash box 50/240 litre ash box
- 9 Combustion chamber door
- 10 Heat exchanger
- (11) Combustion chamber

INDUSTRIAL HEATING

WOOD CHIP & PELLET TRANSPORT SYSTEMS

PUSH ROD TRANSPORT SYSTEM





Cross auger

Push rod up to 3 metre width possible per rod



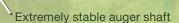
INDUSTRIAL HEATING

WOOD CHIP TRANSPORT SYSTEM HINGED ARM SWEEP COLLECTOR

Transport systems



Continuously welded 8 mm auger flights

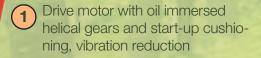




Ripping hook prevents blockages in that lar-

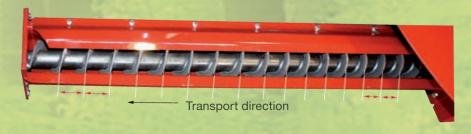
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ger wood chips are automatically pushed down to then be cut in the cell wheel.



- 2 Large dimension auger channel
- Robust auger with progressive flights suitable for wood chips up to G50/P45 Ö-NORM M7133
- Double hinged arm system for optimal clearing of the wood chip storage room
- The helical gear box with shaft lip seal
- (6) Ripping hook
- 7 The helical gear box with shaft lip seal, high efficiency





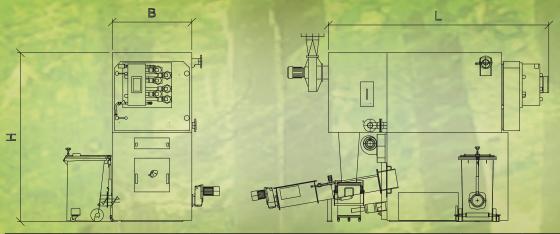
Transport Auger with continuously progressive 8mm auger flights (stops that material getting stuck)

INDUSTRIAL HEATING

Specification

INDUSTRIAL BOILER HPKI-R 180 - 550

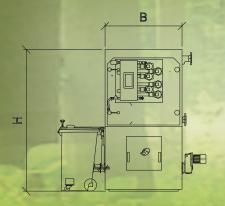
Moving step grate - air-cooled

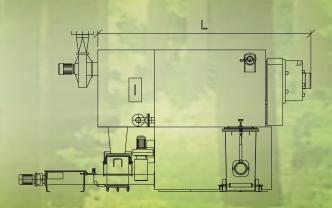


| HPKI-R 180-550 | | | | | | | | | | | |
|----------------|--------------|------|------|------|-------------|----------------|----------------|--------------------------------|--|--|--|
| Туре | Output in kW | L | В | н | Flow/Return | Weight in tons | Water in litre | Flow coefficient in m³/h | | | |
| 180 | 180 | 3190 | 1150 | 2550 | 65 | 4,8 | 830 | 48 | | | |
| 195 | 199 | 3190 | 1150 | 2550 | 65 | 4,8 | 830 | 48 | | | |
| 240 | 240 | 3190 | 1150 | 2550 | 65 | 4,8 | 830 | 48 | | | |
| 300 | 300 | 3450 | 1250 | 2600 | 80 | 5,6 | 1100 | 72 | | | |
| 360 | 360 | 3450 | 1250 | 2600 | 80 | 5,6 | 1100 | 72 | | | |
| 450 | 450 | 3950 | 1440 | 2880 | 100 | 9,5 | 1550 | 110 | | | |
| 495 | 495 | 3950 | 1440 | 2880 | 100 | 9,5 | 1550 | 110 | | | |
| 550 | 550 | 3950 | 1440 | 2880 | 100 | 9,5 | 1550 | 110 | | | |

INDUSTRIAL BOILER HPKI-K 180 - 550

Under feed firing





| HPKI-K 180-550 | | | | | | | | | | | |
|----------------|--------------|------|------|------|-------------|----------------|----------------|--------------------------------|--|--|--|
| Туре | Output in kW | L | В | н | Flow/Return | Weight in tons | Water in litre | Flow coefficient in m³/h | | | |
| 180 | 180 | 2990 | 1150 | 2200 | 65 | 3,66 | 830 | 48 | | | |
| 195 | 195 | 3190 | 1150 | 2200 | 65 | 3,77 | 830 | 48 | | | |
| 240 | 240 | 3190 | 1150 | 2200 | 65 | 3,77 | 830 | 48 | | | |
| 300 | 300 | 3450 | 1250 | 2250 | 80 | 4,67 | 1100 | 72 | | | |
| 360 | 360 | 3450 | 1250 | 2250 | 80 | 4,67 | 1100 | 72 | | | |
| 450 | 450 | 3950 | 1440 | 2480 | 100 | 7,05 | 1550 | 110 | | | |
| 495 | 495 | 3950 | 1440 | 2480 | 100 | 7,05 | 1550 | 110 | | | |
| 550 | 550 | 3950 | 1440 | 2480 | 100 | 7,05 | 1550 | 110 | | | |