# KWB Powerfire 2

- Highly robust construction in industrial quality
- Ecological and economical thanks to high efficiency
- Very powerful, versatile in use


## Pellet/wood chip heating
## 400 – 500 kW

# Detailed overview of KWB Powerfire 2 pellet/wood chip heating system

**Optimised combustion results**

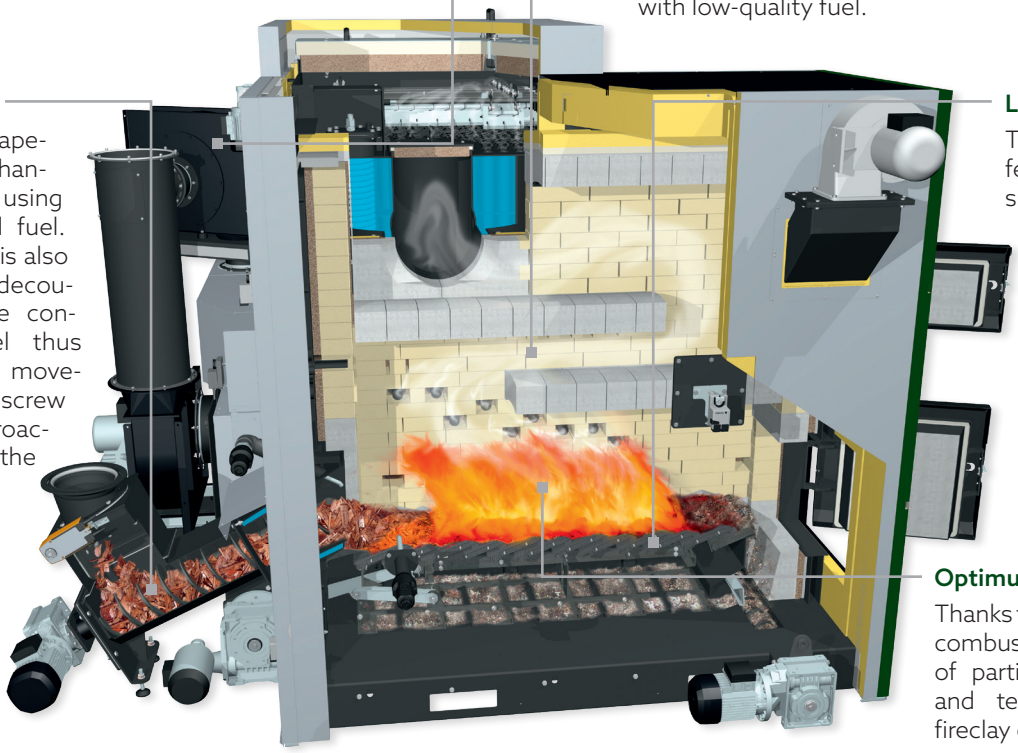
Thanks to flue gas recirculation, which optimises performance and emissions even with demanding fuels.

**Even more efficient**

The high temperature post-combustion zone extends the burnout duration and increases efficiency even with low-quality fuel.

**Full flexibility**

Thanks to trapezoid stoker channel even when using different sized fuel. The drive unit is also mechanically decoupled from the conveyor channel thus preventing movements of the screw having a retroactive impact on the drive unit.

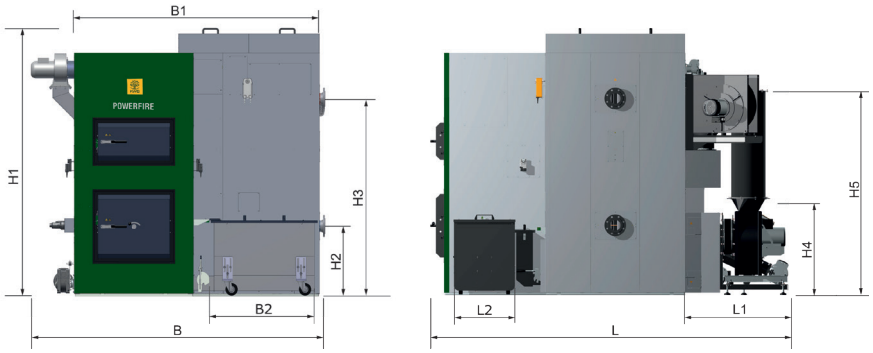


**Low emissions**

The moving infeed grate ensures smooth combustion and through the innovative primary air zone separation for exceptional combustion results.

**Optimum combustion**

Thanks to high-temperature combustion chamber made of particularly high-quality and temperature-resistant fireclay elements.




Internet:
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| Installation dimensions of the KWB Powerfire 2 | | 400 - 500 |
|---|---|---|
| H1 | Height of boiler incl. insulation | 2660 |
| H2 | Height of return flow connection | 710 |
| H3 | Height of forward flow connection | 2000 |
| H4 | Height of stoker incl. burnback protector | 930 |
| H5 | Height of exhaust pipe connection incl. exhaust pipe | 2075 |
| B | Total width incl. attachments | 2990 |
| B1 | Width of boiler incl. insulation | 2495 |
| B2 | Width of ash container return | 1165 |
| L | Total length incl. attachments | 3595 |
| L1 | Length of stoker unit | 1050 |
| L2 | Length of ash container return | 630 |

## Technical data

| TDS 2 | Unit | 400 | 500 |
|---|---|---|---|
| Nominal heat output | kW | 399 | 499 |
| Exhaust gas pipe diameter | mm | 350 | |
| Stoker screw diameter | mm | 200 | |
| Total dry weight incl. attachments | kg | 8470 | |
| Water content, heat exchanger | l | 1040 | |
| Maximum permissible operating temperature | °C | 90 | |
| Minimum return flow temperature | °C | 65 | |
| Maximum permissible operating pressure | bar | 6 | |
| Exhaust temperature (nominal/partial load) | °C | 140/110 | |

**Your KWB contact partner** will be more than happy to discuss your individual options. Scan QR code and find your contact person: