

## Vertical Firetube Boilers

Equipment fully developed and manufactured by Flucal in order to adapt to biomass / waste burning, it features high thermal exchange efficiency and ease of cleaning, it is also ideal for places with no space available for installing horizontal steam generators.

### Description:

Boilers optimized to run vertically, allowing better integration into reduced spaces than horizontal boilers, allows extended intervals between scheduled cleanings, being aimed to run continuously.

### Power Range:

350kW to 7.500KW

### Pressure range:

0.5 to 15 bar

### Main advantages:

- Low horizontal dimensions
- Large periods between cleanings
- High performance in continuous operation
- Ideal for waste burning with medium / low ash content

### It can be coupled to:

- Water cooled Mobile-grate Furnace
- Water cooled Vibrating-grate Furnace
- Water cooled Floping grate Furnace
- Fixed / Tilting grate Furnace

These devices are controlled by automation systems, variable speed and high quality instrumentation with proven robustness, with tuned control systems depending on the type of equipment / type of fuel. All our pressure devices are equipped with redundant safety systems and may achieve SIL 2 classification or SIL3 according to IEC 61508.

