



# Ence Huelva. Spain

## Biomass Boiler

### Design / Fabrication

**Design** ENSO Global Energy Solutions

**Design Code** ASME  
CE marked Acc.to 2014/68/CE  
European Directive

**Built in** Spain

**Grate** Detroit Stoker Company (USA)

**Delivery schedule** 24 months from Notice to Proceed

**Design Fuel** Forest and agricultural residue  
(P100 F25) and Dried olive cake.

(1) If necessary (for instance in the case of MSW boilers) we can provide the boiler with the needed gas cleaning system (SCR, SNCR, etc.) in order to fulfil the legal emissions levels.

### Technical Data

**Pressure** 103 bar

**Temperature** 485°C

**Steam Production** 124,600 kg/h

**Thermal power** 111.9 MWt

**Gas Cleaning System** Multicyclon + Bag Filter

**Emission expected values<sup>1</sup>** With 6% O<sub>2</sub>

**CO** 160 mg/Nm<sup>3</sup>

**NOx** 140 mg/Nm<sup>3</sup>

**Type of Boiler** Water tube Boiler  
Natural circulation

**Type of Grate** Vibrating Water Cooled

**Steam Cycle** Complex Cycle  
1 Phase Reheating

**Support** Bottom Supported

**Feed-in system** Spreaders

**Ash extraction** Wet Redler

**Flue gas** 169,566 Nm<sup>3</sup>/h

**Availability** 8,000 h

**Guaranteed Efficiency** 91%



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