

Caltherm 250°C Torrefaction Oven With Trolleys and Water Sprinkler System.



Stock No	OF2658
Manufacturer	Caltherm
Model	Torrefaction Oven
Year of Manufacture	10/2008
Serial	J6794
Condition	From a working environment, Excellent Condition
Internal Size (WxDxH mm)	1000 x 3200 x 1900mm (6.1M ³)
Max Temp	250°C
Other Info	3Meter Trolleys & Water Sprinkler System
Location	Our Central Warehouse, Aldridge, UK
External Dimensions (WxDxH mm)	2352 x 4927 x 2518mm

Description

Caltherm 250°C Torrefaction Oven With Trolleys and Water Sprinkler System.

This special build Caltherm oven was designed and built for the Torrefaction of biomass products but can be used as a standard oven for heating and curing and drying of any product just as a standard 250°C oven.

Torrefaction (What is it?)



- Torrefaction of biomass is a mild thermochemical pre-treatment that heats biomass (such as wood chips or agricultural residue) in an oxygen-depleted environment to temperatures between 200°C and 300°C. When biomass is heated at such temperatures, the moisture evaporates and various low-calorific components (volatiles) contained in the biomass are driven out. During this process mainly the hemi-cellulose in the biomass decomposes. This transforms the biomass from a fibrous low quality fuel into a product with excellent fuel characteristics.
- Whilst similar to Pyrolysis, torrefaction is conducted at lower temperatures and has different objectives. Pyrolysis aims to maximise liquid product yields, while torrefaction focuses on maximising solid biochar yield with improved fuel properties.

Specification

- Eurotherm 3504 Programmable controller.
- Eurotherm 3216 overtemperature policeman.
- Eurotherm 3208 Humidity controller.
- HygroMatik Water sprinkler system control and inbuilt water sprinkler system.
- Stainless steel chamber.
- Rear wall air circulation fan.
- HMT100, Vaisala humidity and temperature sensor.
- Internal dimensions 1000 x 3200 x 1900mm (6.1M³).
- External dimensions 2352 x 4927 x 2518mm.
- Internal E stop chord.
- Extraction duct.

Photographs taken prior refurbishment. Our refurbishment service is not available on all machines.