



Furnace Engineering

Leaders in Heat Processing Solutions

Carbon Fibre Carbonisation Furnace Simulator



World First!

A Laboratory Benchtop Carbon Fibre (CF) Carbonisation furnace that replicates real time processing on short lengths of fibre.

- This new CF Simulation furnace provides an opportunity to carbonise fibres under varying test conditions.
- The test facility is able to heat single filaments or tows.
- Heat up rates in excess of 1200°C in 15 seconds can be achieved, exceeding that of production lines.
- Temperatures of 1800°C can be achieved.
- Excellent exclusion of oxygen can be achieved.
- Precise tension, temperature control and adjustment is possible per filament to an extent not possible on a normal line.
- It is possible to replicate the rapid heat up, residence times and cool down rates of production lines.
- The first heat of the day can be carried out within 5 minutes. There is no thermal shock to components.



- Test cycles can be of the order of every five minutes.
- Small sample lengths and number of filaments can be processed.

Furnace Engineering designs draw on 40 years experiences as a leader in turn-key high-temperature continuous atmosphere controlled furnaces. Our customers are world leaders in their fields. Our teams supports installations around the world.



Quality
ISO 9001
SAI GLOBAL

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