Swelling Number Index Furnace - SNF

General Information

The SNF furnace is designed to test the swelling index number of coal in accordance with the following standard test methods
BS 1016-107.1:1991 Methods for analysis and testing of coal and coke. Caking and swelling properties of coal. Determination of crucible swelling number

Standard features

- For testing the free swelling index number of coal
- Also known as the crucible swelling number
- For testing to BS ISO 501:2012 and ASTM D720-91(2010)
- 30mA (RCD) residual current circuit breaker, protects the operator (because the test requires operation with the door open during heating)
- Precise PID temperature control using 2132 controller
- Supplied with wire crucible holder

Options (specify these at time of order)

- Accessory crucibles and lids available
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications
- Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- Spare parts available separately or in a kit comprising; thermocouple, thermocouple sheath, heating element, solid state relay (SSR) and door insulation piece

Technical Specifications

SNF	
Max temp (°C)	900
Maximum continuous operating temp (°C)	850
External crucible height (mm)	26
External crucible diameter (mm)	41
Internal crucible diameter at the base (mm)	11
Dimensions: External H x W x D (mm)	330 x 410 x 300
Thermocouple type	K
Max power (W)	800
Power supply	220V - 240V, 50-60Hz, single phase and neutral, with protective earth (ground) connection
Weight (kg)	26