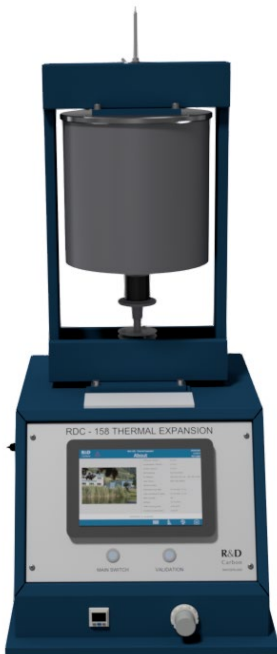


## RDC-158 Thermal Expansion

The coefficient of thermal expansion is measured between 20 and 300 °C and reported as a mean of coefficient in K<sup>-1</sup>. Normal mean values for anodes are between 3,7 x 10<sup>-6</sup> and 4,5 x 10<sup>-6</sup> K<sup>-1</sup>. The CTE is primarily influenced by the anode coke nature. Lower CTE values positively influence thermal shock behaviour.

The RDC-158 apparatus is fitted with 1 measuring unit for the determination of the coefficient of thermal expansion (CTE) between 20 – 300°C of carbon samples having a Ø 50 mm and a length of 50 mm.



<b>Standards</b>	Compatible	ISO 14420
	RDC	RDC-1158
<b>Specifications</b>	Measurement	Coefficient of Thermal Expansion [10 <sup>-6</sup> K <sup>-1</sup> ]
	Sample	Core Ø50x50mm
	Sample / test	1
	Process time	~ 3 hours
<b>Configuration</b>	Set up	Workbench
	Dimensions	48 x 56 x 120 cm (LxWxH)
	Weight	65 kg
<b>Facilities</b>	Electrical connection	230V 1/N/PE, 50/60Hz
	Power	0.50 kW
	Air connection	5 bar
	Air pressure	Pressure required 2 bar; Inlet pressure not to exceed 7 bar
	Gas quality	Air; H <sub>2</sub> O less than 100 ppm or Compressed Air

\*Photos and illustrations are not contractual.

### New Generation Equipment's Features and Advantages:

- **Improved Design** (refined for lab operation optimizing accessibility and adaptability to existing infrastructure)
- **User-friendly Interface** (multi-touch control panel, ultra-compact industrial PC, improved monitoring of the equipment condition, integrated maintenance monitoring)
- **Up-to-date Operating System** (intuitive menus, extended user management, multi-language)
- **Connectivity** (integration into existing plant database, remote printing, export to USB mass storage, wireless network connection)
- **Data History** (analysis and calibration values recorded locally and in the database)