

CS-500

Carbon / Sulfur Determinator

≡ Specifications

MEASURING RANGES	
Low carbon Up to 25mg C resp. up to 5%C at 500mg sample 1)	Low sulfur Up to 10mg S resp. up to 2% S at 500mg sample 1)
High carbon Up to 500mg C resp. up to 100%C at 500mg sample 1)	High sulfur Up to 100mg S resp. up to 100% S at 100mg sample 1)
SENSITIVITY	
Carbon 5µg C resp. 10 ppm C at 500mg sample 1)	Sulfur 1µg S resp. 2 ppm S at 500mg sample 1)
ACCURACY	
Low carbon 1) ±10µg C resp. ±20ppm C at 500mg sample or ±1% of C present	Low sulfur 1) ±2µg S resp. ±4ppm S at 500mg sample or ±1% S present
High carbon 1) ±50µg C resp. ±100ppm C at 500mg sample or ±1% of C present	High sulfur 1) ±50µg S resp. ±100ppm S at 500mg ²⁾ sample or ±1% S present
GENERAL SPECIFICATIONS	
Normal sample weight 400mg for coal	Normal analysis time 60 to 120 sec.
Furnace temperature Adjustable up to 1550 C°	Gas required Oxygen 99.5% pure 2 to 4 bar (30 to 60 psi) 3 l/min
Interfaces Computer - serial 4)	Chemicals CO ₂ Trap - Sodium hydroxide H ₂ O Trap - Magnesium perchlorate
Analyser power requirements 230V AC ±10% 50/60 Hz 0.33 A / 75 W	Furnace power requirements 230V AC ±10% 50/60 Hz 2000 W maximum heat up power 1000W at 1350°C stable temperature
Weights Analyzer Furnace TIC-Module 40kg 36kg 28kg	Dimensions (Width x Height x Depth) Analyzer - 55cm(21") x 52cm(20.5") x 60cm(23.5") Furnace/TIC-Module - 33cm(13") x 52cm(20.5") x 60cm(23.5") 3)
ACCESSORIES	
Balance: 0.0001g to 60 g ±0.0001 g	
Computer: PC with HDD, 3.5" drive, CD-ROM, TFT flat screen and keyboard	
Color printer with automatic cut sheet feed, other options on request	

1) Other ranges on request. 2) Reduce the sample weight for samples over 20% S. 3) Allow 15 cm (6") access area behind the furnace. 4) Balance (serial - RS232) and printer (USB, parallel) are connected to the PC.