## CARBON SULPHUR ANALYZER

Sr#	Description	Qty.
1.	Introduction One table top Carbon / Sulphur Analyzer incorporates the latest combustion technology. It should be designed for the rapid simultaneous determination of Carbon and Sulphur in <b>stainless</b> <b>steel, cast iron, copper, alloys, ores, cement, ceramics,</b> <b>carbides, minerals, sand, glass,</b> etc. The compact system should include a 16-bit microprocessor, an induction furnace and solid state Infrared detectors with auto zero and auto range control. PC based Software / Hardware for operation and data processing, and data output device.	01
2.	<ul> <li>Specifications <ol> <li>Normal sample weight =0.5g to 1g for steel and cast iron</li> <li>Normal analysis time: 40 to 50 seconds</li> <li>Furnace type: Induction, ~20 MHz, 2.2 kVA max</li> <li>Furnace dust cleaning: Automatic</li> <li>Detection Range: from ppm to %age level</li> <li>Detection method: <ul> <li>Solid state infrared absorption for carbon and sulphur</li> </ul> </li> <li>Vii. Interfaces: <ul> <li>Balance serial, printer parallel, computer serial.</li> </ul> </li> <li>Viii. Power requirements <ul> <li>230 V AC ±10% 50/60 Hz max 15 Amps 3450 Watts</li> </ul> </li> </ol></li></ul>	
3.	Chemicals:i.CO2 Trap: Sodium hydroxide or equivalentii.H2O Trap: Magnesium perchlorate or equivalentiii.Tungsten Accelerator: 5 kgiv.Catalyst: Copper oxide or equivalent	
4.	<ul> <li>SPARES and ACCESSORIES</li> <li>Weighing Balance: 0.0001g to 60 g ±0.0001</li> <li>IR Cell: One spare sets each for low carbon and low sulphur, high carbon and high sulphur</li> <li>Computer: Latest i5 / i7 with 1T hard , super/DVD ROM with LED monitor (28 inch) along with trolley and printer.</li> <li>Standards: Carbon and Sulphur Standards for both low and high range. However, Standards should be ARMI (Analytical Reference Materials International), CRMs (high-quality Certified Reference Materials), ASTM and NBS or equivalent.</li> <li>Ceramic Crucibles: 5000 No. required (Suitable for analysis at low ppm, very high temperatures and low blanks)</li> </ul>	

Make: ELTRA, LECO or any equivalent European brand.
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