

Automatic Temperature-Controlled Refractometer

Automatic refractive index and Brix measurement for liquid samples, with Peltier temperature control, a sapphire prism and CCD detection.



Technical Information

Refractive index range	1.30000-1.70000 nD
Refractive index resolution	0.00001 nD
Refractive index accuracy	±0.00004 nD
Brix range	0-100%
Temperature control range	5-85 °C
Refractive index precision	±0.00001 nD
Brix resolution / precision	0.01% / ±0.01%
Brix accuracy	±0.04%
Temperature range	0-100 °C
Temperature display precision	±0.01 °C
Wavelength	589 nm
Display	7 in
Storage capacity	32 GB
User access levels	4

Technical Information

Audit trail	yes
Electronic signature	yes
Communication	USB; RS232; RJ45; SD; Wi-Fi
Dimensions	300 × 380 × 300 mm
Referenced methods (confirm applicability)	GB/T 12143-2008; GB/T 18963-2012; GB/T 21730-2008; GB/T 614-2006; ChP 2020: 0622

Standard Configuration

The instrument configuration and supplied accessories must be itemized in the quotation. A feature described here does not imply that every accessory pictured is included.

Optional Configuration

Accessories, consumables, printer supply and application-specific options are included only when expressly itemized in the quotation.

Selection and ordering

State the PRECETTA model, application, selected configuration, quantity and destination. Download the complete PDF for all verified specifications and configuration details. Confirm site utilities and sample compatibility before ordering.

Technical Information

Peltier regulation, sapphire prism, stainless-steel sample well, LED and linear-array CCD are documented. Modes include refractive index, Brix, honey moisture, salinity, urea and urine specific gravity. Multi-point calibration, four-level access, account locking, audit records, handwritten electronic signature, MD5 and PDF/Excel export are described. Temperature display range and controlled range are distinct; precision is not accuracy.