

SPECIFICATIONS AND ORDERING INFORMATION

LS 13 320 XR OPTICAL BENCH



Part Numbers	Description
B98100	LS 13 320 XR Optical Multi-Wave Bench
C27180	LS 13 320 XR Optical Multi-Wave Bench With Workstation
C20930	Workstation Only

*ADAPT Software is pre-installed on Workstations (i.e., C27180 & C20930). It can be downloaded from our website for installation on an existing PC (i.e., for B98100).**

Specifications

Technology	Low-angle forward light scattering with additional PIDS (Polarization Intensity Differential Scattering) Technology. Analysis of vertical and horizontal polarized light at six different angles using three additional wavelengths. Full implementation of both Fraunhofer and Mie Theories.
Light source	Diffraction: Laser diode (785 nm) PIDS: Tungsten lamp with high-quality band-pass filters (475, 613 and 900 nm)
Particle size analysis range	Measurement range: 10 nm – 3,500 µm Dry Powder System Module (DPS): 400 nm - 3,500 µm Universal Liquid Module (ULM): 10 nm - 2,000 µm
Electrical interface	USB
Power consumption	≤ 6 amps @ 90 - 125 VAC ≤ 3 amps @ 220 - 240 VAC
Temperature range	10 - 40°C (50 - 104°F)
Humidity	0 - 90% without condensation
Compliance	Creates 21 CFR Part 11 enabling features RoHS Certifications: - EU EMC Directive 2014/30/EU - CISPR 11:2009/A1:2010 - Australia and New Zealand RCM Mark
Data export file formats	XLSX, TSV, PDF
File import capability	From all LS 13 320 Legacy and LS 13 320 XR systems
*Software operating system	Requires Microsoft Windows 10, 64-bit environment (U.S. English regional settings only)
Dimensions	Height: 19.5" (49.53 cm) Width: 37" (93.98 cm) Depth: 10" (25.4 cm)
Weight	52 lbs (23.5 kg)

SPECIFICATIONS AND ORDERING INFORMATION

LS 13 320 XR MODULES AND ACCESSORIES



Dry Powder System Module

Analytical size range: 400 nm - 3,500 μ m

- Measures entire sample as required by the ISO 13 320 Standard
- Programmable Obscuration setting to optimize sample feed rate
- User-selectable vacuum pressure for maximum dispersion control



Part Number: B98103



Universal Liquid Module

Analytical size range: 10 nm - 2,000 μ m

- Fully automatic with auto-dilution, auto-filling and auto-rinsing
- Analyzes samples suspended in aqueous as well as non-aqueous diluents for maximum flexibility
- Wetted materials list: Teflon®, 316 Stainless Steel, Glass, Kal-rez® and PEEK
- Chemical compatibility: butanol, butanone, carbon, tetrachloride, chloroform, ethanol, heptane, hexane, jet fuels, kerosene, ketones, methanol, methylene chloride, pentane, petroleum ether, propanol, toluene, trichloroethane, trichloroethylene, water, weak acid and base solutions (pH 4 - 10), ethylene glycol, polyethylene glycol, glycerol, mineral oil, and silicone oil



Part Number: B98105

* A variable-speed pump allows for total dispersion control of your sample, from delicate emulsions to heavy particles

Sonicator Control Unit

- Needle probe sonicator for additional dispersion control of wet samples
- Fully adjustable power settings
- In-situ sonication with ULM before/during the run, can also be operated external to module



Part Number: B5435

EU Vacuum Cleaner

- Vacuum pressure range fully adjustable
- Integrated vacuum control unit for optimized vacuum/obscuration settings
- Two vacuum systems to choose from



Part Number: C06826 - HiCap HEPA Vacuum