The MasterPrep™ is designed to provide users of the AUTOSORB and NOVA surface area and pore size analyzer series with high-throughput sample preparation. Each of the six sample preparation ports features an independent furnace and digital temperature control allowing many samples to be simultaneously prepared under different conditions. Operating in either flow or vacuum mode, the MasterPrep provides the right sample preparation method for any type of material. Flow and evacuation rates are operator selectable. A six-channel digital temperature controller allows for independent temperature programming (up to 20 steps) on each sample preparation port. Programming may be performed via Windows® PC interface or directly at the controller. Six separate cooling stations hold samples under flow or vacuum conditions after preparation.

Specifications:

**Performance**
- Six sample preparation ports
- Temperature range: ambient to 425 deg C
- Flow or vacuum degas modes
- Independent temperature control for each port
- Back-fill/purge gas user selectable (typically N₂ or He)
- Automatic trigger between coarse to fine evacuation rates at user specified pressure to prevent powder elutriation
- Flow rates independently adjusted for each port up to 100 ml/min.
- Six cooling ports
- Sample ports accommodate 6, 9 and 12mm sample cell stem diameters for wide range of samples
- Digital vacuum gauge

**Environmental**
- Ambient temperature: 15 to 40 deg C
- Maximum relative humidity: 80% non-condensing

**Safety**
- CE compliant
- Independent thermal cut-out switch for each port for over-temperature protection
- Built-in cooling fan

**Electrical**
- Voltage 100 - 240 VAC, 50/60Hz
- Power 600 VA (excluding vacuum pump)

**Physical**
- Height 11.3 inches (28.6 cm)
- Width 25.5 inches (64.8 cm)
- Depth 17.0 inches (43.2 cm)
- Weight 45.5 lbs (20.7 kg)

**Utilities Required**
- Dry nitrogen (99.99%) or helium (99.99%) regulated to 7 psig
- Vacuum pump able to produce 20 milliTorr
Quantachrome®
Renowned innovator of ideas for today’s porous materials community.

For 40 years, Quantachrome’s scientists and engineers have revolutionized measurement techniques and designed instrumentation to enable the accurate, precise, and reliable characterization of powdered and porous materials:

- Adsorption/Desorption Isotherms
- Surface Area Measurement
- Pore Size Distribution
- Chemisorption Studies
- Water Sorption Behavior
- Mercury Porosimetry
- True Solid Density
- Tapped Density

Not only are Quantachrome products the instruments of choice in academia, but the technology conceived and developed by our expert staff is applied in industrial laboratories worldwide, where research and engineering of new and improved porous materials is ongoing. Manufacturers also rely on porous materials characterization technology to more precisely specify bulk materials, to control quality, and to isolate the source of production problems with greater efficiency.

Quantachrome is also recognized as an excellent resource for authoritative analysis of your samples in our fully equipped, state-of-the-art powder characterization laboratory.

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Quantachrome Instruments’ quality management system is certified to be in accordance with ISO9001:2000.

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