

Degassers

DEGASSERS



Catalysts



Ceramics



Energy



Carbon



Pharma





XeriPrep™ degasser

Sample Preparation Degasser

Xeri Pronounced like “zee-ri” - derived from the Greek “xeros” meaning “dry”

Since 1988 the Autosorb Degasser has been the premier productivity engine for busy surface and material characterization laboratories across the globe. The latest evolution in this tradition is the new XeriPrep™ degasser, multi-sample preparation unit. Ideal for R&D, commercial labs, and multi-user laboratories.

New & Improved Features:

- Six independently controlled stations.
- Individual temperatures and ramp rates.
- Software controlled temperature profiles.
- Windows® based software with custom degas parameter programming capability.
- Built in cold trap for clean vacuum
- Built in vacuum pump with oil mist filter.
- Turbo pump option for high vacuum applications.
- New lighted touch controls.
- Electronically actuated valves.
- Evacuation rate control to prevent elutriation of fine powders.

Benefits:

- **Flexible Throughput:**
Use any of the independent sample ports at the same or different temperature.
- **Custom Protocols:**
Program and save your run protocols for reproducible degassing.
- **Reliable:**
Built on proven technology platform.
- **Precise Control:**
Uses electronically actuated and controlled valves.
- **Convenience:**
Lighted controls clearly indicate valve status.
- **Compatible with:**
Autosorb® 6iSA™, Autosorb® iQ, Nova® Series, Quadrasorb™, and iSorb™.

XeriPrep™ degasser

Sample Preparation Degasser



Features



Specifications

- **Sample Stations:** 6
- **Degas Method:** Vacuum
- **Cold Trap:** Yes
- **Max Temp:** 350 °C Standard, 450 °C optional
- **Temperature Control:** Via PC Software
- **Evacuation Rate:** Coarse, Medium & Fine
- **Dimensions:** Height 29" (74cm) x Width 30.5" (77cm) x Depth 15.8" (40cm)
- **Weight:** 159 lbs. (72 kg)
- **Vacuum Pump:** Included (turbo pump optional)



FloVacTM

Vacuum and Flow Degasser

FloVacTM - Six-Port, Vacuum and Flow Degasser for Surface Area and Pore Size Analysis Sample Preparation.

The FloVacTM is designed to provide users of the Autosorb, Quadrasorb, NOVAtouch and NOVAe Series surface area and pore size analyzers with high-throughput sample preparation capabilities. All of the six sample preparation ports share a large heating mantle with a single digital temperature control allowing samples to be simultaneously prepared under similar temperature conditions. Operating in either flow or vacuum mode, the FloVacTM provides the right sample preparation method for any type of material. Flow and evacuation rates are operator selectable. The digital temperature controller allows for temperature programming (up to 20 steps). Programming may be performed via a Windows[®] PC interface or directly at the controller. Six separate cooling stations hold samples under flow or vacuum conditions after preparation.

Features

- Six sample preparation ports.
- Temperature range: ambient to 350°C (with standard borosilicate sample cells or 400°C with optional quartz sample cells).
- Flow or vacuum degas modes.
- Back-fill/purge gas user selectable (typically N₂ or He).
- Separate valves controlling coarse and fine evacuation rates prevent powder elutriation.
- User adjustable flow rates via needle valve.
- Six cooling ports.
- Sample ports accommodate 6, 9 and 12 mm sample cell stem diameters for wide range of samples.
- Digital vacuum gauge.

Temperature

- Temperature programming from controller or via Windows[®] PC software.
- User selectable ramp rates and hold times (up to 20 segment profile).
- Four-digit display of temperature.
- Password protection.

Environmental

- Ambient temperature: 15 to 40 °C.
- Maximum relative humidity: 80% non-condensing.

FloVacTM

Vacuum and Flow Degasser



Features



Electrical

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

Utilities Required

- Dry nitrogen (99.99 %) or helium (99.99 %) regulated to 7-10 psig.
- Vacuum pump able to produce 20 milli-torr.

Physical

- **Height:** 28 cm (11 in) (to top of cabinet).
- **Width:** 36 cm (14 in).
- **Depth:** 25 cm (10 in) (excluding connections at rear).
- **Weight:** 5 kg (11 lb).

Bench space allocation for complete instrument with vacuum pump is 61cm (24in)/51cm (20in).



MasterPrep™

Vacuum and Flow Degasser

MasterPrep™ - Six-Port, Vacuum and Flow Degasser or Surface Area and Pore Size Analysis Sample Preparation.

The **MasterPrep™** is designed to provide users of the Autosorb, Quadrasorb, NOVAtouch and NOVAe Series surface area and pore size analyzers with high-throughput sample preparation capabilities. 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 a Windows® PC interface or directly at the controller. Six separate cooling stations hold samples under flow or vacuum conditions after preparation.

Performance

- Six sample preparation ports.
- Temperature range: ambient to 425°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 12 mm sample cell stem diameters for wide range of samples.
- Digital vacuum gauge.

Temperature

- Six-channel temperature controller.
- Temperature programming from Controller or via Windows® PC software.
- User selectable ramp rates and hold times (up to 20 segment profile for each sample port).
- Four-digit display of temperature.
- Password protection.
- Temperature setting +/- 1 °C.
- Accuracy +/- 5 °C.

Environmental

- Ambient temperature: 15 to 40 °C.
- Maximum relative humidity: 80% non-condensing.

MasterPrep™

Vacuum and Flow Degasser



Safety

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

Electrical

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

Utilities Required

- Dry nitrogen (99.99 %) or helium (99.99 %) regulated to 7-10 psig.
- Vacuum pump able to produce 20 milli-torr.

Physical

- **Height:** 28.6 cm (11.3 in).
- **Width:** 64.8 cm (25.5 in).
- **Depth:** 43.2 cm (17.0 in).
- **Weight:** 20.7 kg (45.5 lb).



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Our fully equipped, state-of-the-art powder characterization laboratory (email: application.qt@anton-paar.com), provides the option of contracting for expert testing services. Laboratory services are also available to validate the applicability of our products prior to your purchase using your actual samples.



Lifetime Application Support

We view the field support of our instruments as an essential component of our business strategy. Our expert scientists are always available to answer questions on applications, or the use of our instruments. We do this as a standard service regardless of whether you have a service contract with us or not.



Partners in Science

Quantachrome has a scientific research department consisting of world renowned experts in material characterization. Our staff, led by Dr. Matthias Thommes, conducts collaborative research projects with leading material research labs around the world. They regularly publish articles in leading peer reviewed journals, and speak at technical symposiums around the world.

For almost half a century 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. We have an unwavering commitment to providing state of the art technology, along with superior and unparalleled customer service and support.

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