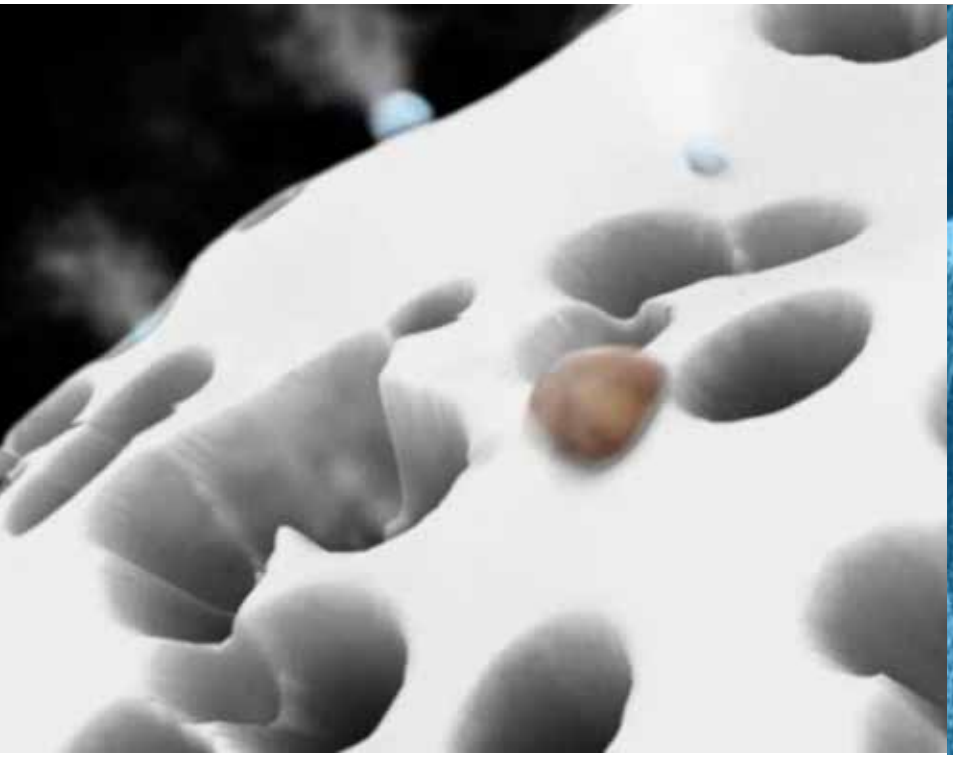
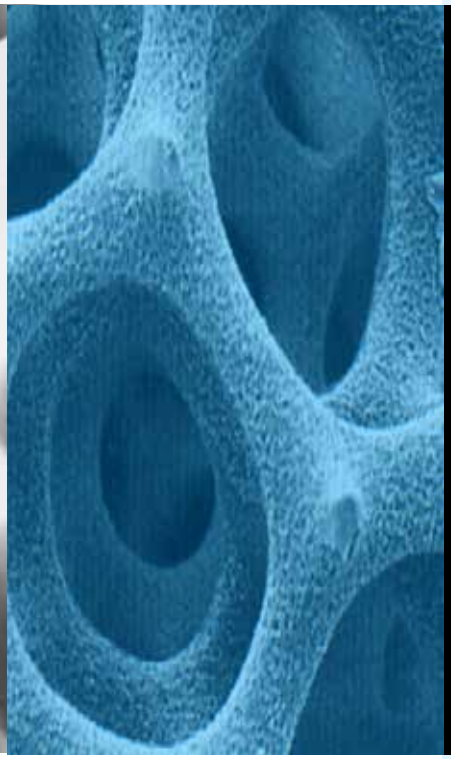
Quantachrome
INSTRUMENTS
A brand of Anton Paar

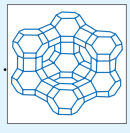
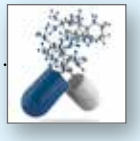
MasterPrep™

Vacuum and Flow Degasser





DEGASSER

- Catalysts 
- Ceramics 
- Energy 
- Carbons 
- Zeolites 
- Pharma 

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MasterPrep™

Vacuum and Flow Degasser

Specifications:

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

The **MasterPrep™** is designed to provide users of the AUTOSORB, QUADRASORB, NOVAtouch and NOVA*e* 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 N_2 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.

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 milliTorr.

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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Renowned innovator for today's porous materials community.

The quality of Quantachrome's after sales service support is the reason we are proud to maintain life time relationships with our customers.

Field Service

Our global service staff assure you that Quantachrome Instruments will continue to be the reliable engines of material characterization laboratories. We offer you the flexibility of choosing from service contracts tailored to provide you with the response time, service package, and spare parts discounts that best fit your needs.

Spare Parts

Quantachrome spare parts are certified to work with our instruments. We provide rapid response spare parts orders, and keep large inventories of replacement parts and hardware available.

Application Lab

Our fully equipped, state-of-the-art powder characterization laboratory, LabQMC (www.labqmc.quantachrome.com, or 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.

Our commitment to customers is to support you before, during, and after the sale throughout the lifetime of our instruments. This is a big commitment because our products are so robust and reliable that we regularly find many still in use for decades.

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Your Local Representative:

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