

# QUANTACHROME MasterPrep™



**Automated Sample Preparation**

## MasterPrep™ Degasser

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

The MasterPrep is designed to provide users of the AUTOSORB<sup>(R)</sup> and NOVA<sup>(R)</sup> 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<sup>(R)</sup> 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 N<sub>2</sub> 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

#### Temperature

- Six-channel Temperature Controller
- Temperature programming from Controller or via Windows<sup>(R)</sup> 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 degC increments
- Accuracy (at sample): +/- 5 degC or +/-5% of setpoint (whichever is greater)

#### 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

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