# **SPECIFICATIONS**

# Gemini® VII 2390

## **APPLICABILITY**

Surface Area From 0.1 m², total. From 0.01 m²/g, specific.

Pore Volume 4 x 10<sup>-6</sup> cm<sup>3</sup>/g.



#### PRESSURE MEASUREMENT

Pressure Measurement Range O to 950 mm Hg.

P/Po Resolution <10<sup>-4</sup>

**Relative Pressure Range** O to 1.0 P/P<sub>o</sub> (adsorption only.)

Pressure Resolution < 0.1 mmHg.

Accuracy and Linearity (transducer manufacturer's specification)

Better than ± 0.5% Full Scale.

### **ENVIRONMENT**

Temperature 10 to 35 °C (50 to 96 °F) operating. 0 to 50 °C (32 to 122 °F) non-operating.

Humidity 20% to 80% relative, non-condensing.

## **GASES**











# SPECIFICATIONS

# Gemini® VII 2390

Optimized for nitrogen in a liquid nitrogen sample bath. Gemini may be used with noncorrosive adsorbate gases having vapor pressures at both room and bath temperatures that are acceptably high relative to the resolution of the 1000-mmHg pressure Adsorbate transducer. Typically, oxygen, argon, carbon dioxide, butane, methane, and other light hydrocarbons will produce useful data above absolute pressures of a few mmHg.

Helium inlet also provided.

#### **VACUUM SYSTEM**

Vacuum source achieving 20 x 10-3 mmHg (or better) at the instrument inlet; having a device to reduce oil vapor backstreaming is recommended.

The system must have an anti-suckback valve to prevent oil from being admitted into the Gemini should there be a power failure.

## SAMPLE TUBE/DEWAR

	<b>Gemini VII 2390a and 2390p:</b> 0.95 cm (3/8 in) outside diameter by 15.5 cm (6.1 in) with 6.5 cm <sup>3</sup> of volume. Sample capacity is approximately 2.0 cm <sup>3</sup> .
Standard Tube	Gemini VII 2390t: 0.95 cm (3/8 in) outside diameter by 20.5 cm (8.1 in) with 8.9 cm <sup>3</sup> of volume. Sample capacity is approximately 2.0 cm <sup>3</sup>

vith 8.9 cm³ of volume. Sample capacity is approximately 2.0 cm³. ~ 8 hours; Gemini VII 2390a and 2390p.

Dewar ~ 24 hours: Gemini VII 2390t.

#### **ELECTRICAL**

Minimum Requirements

Voltage	85 to 265 VAC.
Frequency	50/60 Hz.
Power	150 VA, operating, max. plus vacuum pump.

## COMPUTER HARDWARE AND SOFTWARE

Operating System: Windows Vista® Business or Ultimate,

Windows XP Professional

Memory: 512 megabytes of RAM Hard Disk Space: 20 gigabytes

One CD ROM drive

Monitor: 1024 x 768 display capability.

Ethernet port\* (capable of communicating with a 10 base-T card)











# SPECIFICATIONS

# Gemini® VII 2390

## **PHYSICAL**

Height	59cm (23in); Gemini VII 2390a and 2390p. 74cm (29in); Gemini VII 2390t.
Width	40cm (16in.)
Depth	51cm (20in.)
Weight	32kg (70lbs); Gemini VII 2390a and 2390p. 35kg (78lbs); Gemini VII 2390t.

Due to continuous improvements, specifications are subject to change without notice.









