



SPECIFICATION SHEET

ACCUPYC® II 1345 - PYCNOMETER

The Micromeritics AccuPyc II 1345 pycnometer is a fast, fully automatic pycnometer that provides high-speed, high-precision volume measurements and true density calculations on a wide variety of powders, solids, and slurries. After analyses are started with a few keystrokes, data is collected, calculations are performed, and results displayed.



Specifications

Environment

	Stable between 15 to 35 °C (59 to 96 °F)
Temperature	Temperature-controlled AccuPyc: temperature stability is dependent upon specifications of the installed circulator. Recommended range: 15 to 50 °C (59 to 122 °F)
Humidity	20 to 80% relative, non-condensing

Physical

Height	14.6 cm (5.8 in.) 17.9 cm (7.0 in.), analysis modules for 1-, 10-, and 100-cm ³ units 25.9 cm (10.2 in.), 350-cm ³ analysis module 43.0 cm (17.0 in.), 2000-cm ³ analysis module
Width	27.3 cm (10.7 in.), control module (no chamber) 27.3 cm (10.7 in.), control module (with chamber) 27.0 cm (10.6 in.), 2000-cm ³ analysis module
Depth	36.2 cm (14.3 in.)
Weight	9.3 kg (20.5 lbs), control/analysis unit (1-, 10-, and 100-cm ³ units) 7.9 kg (17.4 lbs), analysis module (1-, 10-, and 100 cm ³ units) 10.5 kg (23.2 lbs), analysis module (350-cm ³ unit) 3.6 kg (8.0 lbs), control module 26.0 kg (57.0 lbs), 2000-cm ³ analysis module

Electrical

Voltage	90 to 264 VAC
Power	30 VA
Frequency	50 to 60 Hz

Gases

Research grade helium is recommended. If unavailable, use helium with a dew point of -67 °C (-88 °F) or lower. Carbon dioxide, argon, dry air, or nitrogen can also be used for different applications (a multigas option is available for connection of multiple gases).

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

Sample Cups

1 cm ³ chamber	1.14 cm ID x 1.1 cm D (0.45 in. ID x 0.44 in. D)
10 cm ³ chamber	1.85 cm ID x 3.95 cm D (0.72 in. ID x 1.55 in. D)
100 cm ³ chamber	4.62 cm ID x 6.18 cm D (1.82 in. ID x 2.43 in. D)
350 cm ³ chamber	5.84 cm ID x 13.94 cm D (2.30 in. ID x 5.49 in. D)
2000 cm ³ chamber	9.52 cm ID x 26.00 cm D (3.80 in. ID x 10.20 in. D)

Analysis

Precision	Reproducibility is typically to within ± 0.01% of the nominal full-scale sample chamber volume. Reproducibility is guaranteed to within ±0.02% of the nominal full-scale volume on clean, dry, thermally equilibrated samples using helium in the 15 to 35 °C range.
Accuracy	Accurate to within 0.03% of reading, plus 0.03% of sample capacity

Computer Hardware and Software*

Minimum Requirements	<p>A computer is not required if the keypad/display is used. When used in this configuration data can be sent to a USB equipped printer. To run the Windows compatible software the following applies:</p> <ul style="list-style-type: none"> ▪ Pentium 333 MHz or equivalent ▪ USB port ▪ 128 megabytes of RAM ▪ 1-gigabyte hard drive ▪ 1024 x 768 video display capability ▪ 32 bit, Windows® 7 Professional or higher operating system ▪ Ethernet port (capable of communicating with a 10 Base T or 100 Base T ethernet card)
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**Should not be installed on a network drive with shared access. Multiple users cannot operate the application at the same time. All users need read/write permission to all directories and subdirectories where the application is installed.*

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