

- For quick and convenient measurement of environmental samples with charged-particle detectors
- Superior design and construction
- Accommodates extra large samples
- Easily adjustable and repeatable sample-detector geometry
- Low-background sample holders
- Compatible with any ORTEC charged-particle detector equipped with a Microdot® connector
- Front-opening hinged door
- Three-way, high-quality, “Pump”, “Hold”, and “Vent” vacuum valve
- Compatible with the ORTEC ALPHA-PPS-115 (or -230) Portable Pumping Station



The ORTEC Model 808 Vacuum Chamber provides a quick and convenient way to measure the alpha and beta activity of environmental samples. It accommodates a wide range of sizes of samples and detectors. The chamber can accept sample trays measuring up to 10.8 X 14 cm (4-1/4 X 5-1/2 in.), with nominal sample size 10 cm (4 in.) in diameter.

The precise, internal, rack mounting structure ensures repeatable detector/sample geometry. A front-opening, hinged door permits easy access for inserting and removing samples and detectors.

A wide variety of charged-particle detectors fitted with a Microdot® S-93 connector can be used. Typically, one would use ORTEC ion implanted or surface-barrier detectors in a B mount; also suitable in certain applications are detectors in E or T mounts.

The sample holder trays are made of special low-background materials. The chamber is equipped with a hermetic electrical feedthrough that provides a male connection to a Microdot S-93 for ready installation of a silicon charged-particle detector and preamplifier.

A 3-inch hook-and-loop fastener is provided for connecting the preamplifier to the rear panel.

The ORTEC Model ALPHA-PPS-115 (or -230) Portable Pumping Station is an excellent choice for use with the Model 808 Vacuum Chamber.

Specifications

CONTROLS

PUMP/HOLD/VENT Front-panel position control for venting or pumping the vacuum chamber. A hold position independently isolates both the pump and the chamber.

OUTPUTS

DETECTOR Rear-panel BNC connector provides for connection from the detector mounted in the vacuum chamber to the preamplifier, which can be mounted to the Model 808 rear panel with a hook-and-loop fastener that is provided with the instrument.

VACUUM Rear-panel vacuum pump connector (Swagelok® connector for 3/8-in. OD tubing) for connecting the Model 808 Vacuum Chamber to a vacuum pump.

808

Vacuum Chamber

ELECTRICAL AND MECHANICAL

WEIGHT

Shipping 9 kg (20 lb).

Net 4.37 kg (9 lb 10 oz) with trays and holder.

DIMENSIONS

Cabinet 20.9 cm (8-1/4 in.) wide by 26 cm (10-1/4 in.) high by 34.3 cm (13-1/2 in.) deep.

Chamber 11.4 cm (4-1/2 in.) wide by 16 cm (6-3/16 in.) high by 15.7 cm (6-3/16 in.) deep.

Sample Trays 10.8 cm (4-1/4 in.) wide by 14 cm (5-1/2 in.) long.

Nominal sample size up to 10.2 cm (4 in.). Without tray holder, holds sample sizes up to 4-1/2 in.

Ordering Information

To order, specify:

Model	Description
808	Vacuum Chamber
ALPHA-PPS-115	Pumping Station (115-V ac version)
ALPHA-PPS-230	Pumping Station (230-V ac version)



Related Equipment

The Portable Pumping Station, Model ALPHA-PPS-115 (or -230), consists of a cart-mounted, rotary direct-drive mechanical vacuum pump to which is attached an anti-backstreaming trap, a thermocouple vacuum gauge, and flexible bellows tubing with appropriate termination for connecting directly to the Model 808 Vacuum Chamber. The Pumping Station requires no assembly.

Specifications subject to change
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www.ortec-online.com

Tel. (865) 482-4411 • Fax (865) 483-0396 • ortec.info@ametek.com
801 South Illinois Ave., Oak Ridge, TN 37831-0895 U.S.A.
For International Office Locations, Visit Our Website

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