

The ALPHA-MINI-PPS is a small, oil free, diaphragm pump which provides adequate capacity for the ALPHA-ARIA or the ALPHA-DUO. It is capable of pumping a half liter of leak free volume* to below 1 Torr within a few minutes, and can achieve a vacuum of 10 Torr, as is typical for Recoil Contamination Avoidance, in less than a minute.

Because of its compact size, the ALPHA-MINI-PPS is an ideal companion for use with the ALPHA-DUO spectrometer when space is at a premium (e.g., in mobile labs and response vehicles). The ALPHA-MINI-PPS includes a power control cable and power supply for connection to mains. Two lengths of vacuum tubing (3-ft. and 10-inch) are provided for connection to the ALPHA-ARIA or ALPHA-DUO.

Specifications

Pump

Ultimate Pressure: ≤ 2.0 millibar.
 Nominal Pumping Speed: 6 liter per minute.
 Input Voltage: 24 V DC, $\pm 10\%$.
 Motor Rating Max.: 17.2 W.
 Current Max.: 0.72 A.
 Sound Pressure Level: 45 dB(A).
 Ambient Temperature: 5–40°C.
 Weight: 1.8 kg (4 lbs.).
 Dimensions: 180 mm x 106 mm x 99.5 mm (7.1 in. x 4.2 in. x 3.9 in.)

Power Supply

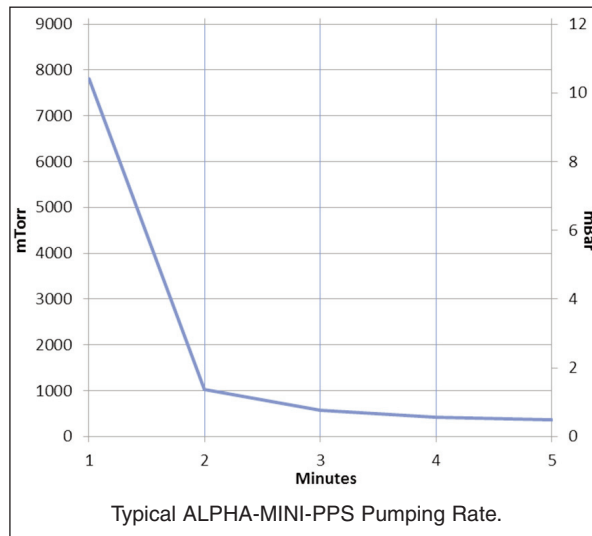
Output Voltage: 24 V DC, $\pm 2\%$.
 Output Current: 4.6 A.
 Ambient Temperature: 5–50°C.
 Weight: 0.7 kg (1.5 lbs.).
 Dimensions: 169 mm x 142 mm x 56.6 mm
 (6.7 ins. x 5.6 ins. x 2.2 ins.).
 Mains Power Required: 115–230 V (–20 +15) V AC, 50/60 Hz.

Maintenance

The diaphragms should be changed with every 12,000 hours of operation.

Ordering Information

Model	Description
ALPHA-MINI-PPS	Miniature Diaphragm Pump. Includes power supply, power control cable, and vacuum tubes [25.4 cm (10 in.) and 0.9 m (3 ft.)].
ALPHA-MINI-PPS-REPKIT	Maintenance Overhaul Kit. Includes replacement diaphragm and parts for ALPHA-MINI-PPS.



*The volumes of the ALPHA-ARIA and ALPHA-DUO are approximately 0.25 and 0.50 liters respectively.

Specifications subject to change
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