ORTEC

ORTEC ALPHA-MINI-PPS

Alpha spectroscopy vacuum system

ORTEC ALPHA-MINI-PPS — Oil-free diaphragm pump.



Pump type	Recommended systems	Ultimate pressure
Oil-free diaphragm pump [1]	**One Alpha Aria or Alpha Duo** [2]	**≤2.0 mbar** [1]

Specifications

DETECTOR

Pump type	Oil-free diaphragm pump	[1]

ELECTRONICS & SIGNAL

Pump input voltage	24 V DC ±10 %	[1]

POWER & BATTERY

Maximum motor power	17.2 W	[1]
Power supply weight	0.7 kg	[1]

MECHANICAL

Pump weight	1.8 kg	[1]

ENVIRONMENT & RATINGS

Pump operating temperature	5–40 °C	[1]

GENERAL

Recommended systems	One Alpha Aria or Alpha Duo	[2]
Ultimate pressure	≤2.0 mbar	[1]
Nominal pumping speed	6 L/min	[1]
Diaphragm replacement	Every 12,000 operating hours	[1]

Sources

[1] **ALPHA-MINI-PPS Miniature Vacuum Pump (brochure 25-1024)**
RTEC (AMETEK) · brochure · p. 1, introduction; p. 1, Specifications – Pump; p. 1, Specifications – Power Supply · checked 2026-10-16
https://edge.sitecorecloud.io/ametekinc1236b-ametekb19a-productiondcfa-1d17/media/Project/Ametek/ortec-onlin...

[2] **ORTEC Product Guide**
ORTEC (AMETEK) · catalog · PDF p. 10 (printed p. 7), "Portable Pump Station" · checked 2026-10-16
https://web.archive.org/web/20230405035438/https://www.ortec-online.com/-/media/ametekortec/product-guide/pr...

Every value is taken from the manufacturer’s own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer’s published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.