



Rotary Vacuum, Scroll and Diaphragm Pumps

Quick Overview

Quorum Technologies vacuum products require the addition of a suitable two-stage rotary vacuum, either a primary pump (eg for low vacuum sputter coaters) or to 'back' and rough-pump our instruments with built-in turbomolecular pumps, such as the Q300 series and Q150T series.

For most Quorum Technologies vacuum instruments, the RV3 (50L/m) or RV5 (90L/m) is recommended. Please see individual product pages for exact requirements.

All RV3 and RV5 pumps supplied by Quorum Technologies are fitted with an exhaust (oil mist) filter. NB: If you are planning to use an existing rotary pump or another make and model, please ensure that the pumping capacity matches that of the vacuum system.

RV Range Key Features

- **48dB and intrusive frequencies minimised** - low noise, low vibration
- **Dual mode** - suitable for high throughput and high vacuum applications
- **Easy-to-use gas ballast**
- **Fast-acting inlet valve for system protection**
- **High torque, dual voltage/dual frequency motor, electronic start relay**
- **Efficient high-pressure lubrication**
- **Oil-tight with printed gaskets, effective shaft seals**
- **Clamped-in sight glass**
- **High-tech polymer blades, large diameter, easy-clean oil passages**
- **Consistent, built-in quality, cast bar construction**

Product Description

The RV range detailed above is suitable for all Quorum Technologies vacuum instruments. Other options are listed below.

Diaphragm pumps and scroll pumps

For applications requiring an oil-free environment, we can also offer oil-free scroll and diaphragm pumps. Please contact us before ordering to check pumping capacity is suitable for process and application.

MD1 Diaphragm Pump from Vacuubrand

The MD1 is a 23L/m three-stage rotary pump designed for applications where an oil-free pumping is required. This compact pump has low noise and vibration levels and a long lifetime, with easy to change diaphragms and valves.

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XDS10 Scroll Pump from Edwards

Scroll pumps are an excellent alternative to rotary vane pumps where oil-free pumping is required. The XDS10 has a pumping speed of 10m³/hr and uses a bearing shield to isolate the vacuum environment from all forms of lubricant. This makes them totally dry and also protects the bearing from any process gases.

Additional Information

Ordering information

EK3175	Edwards RV3 50L/m two-stage rotary pump with oil mist filter. Recommended with: K775X, K975X, K1050X, Q150R, Q150T and SC7620
EK3180/E5005G	Edwards RV5 90L/m two-stage rotary pump with oil mist filter. Recommended with: K750X, PP3000T and Q300R T, Q300T T, Q300T D

Consumables and options

50000031	Foreline trap
07803	Oil mist filter (basic)
A1944A	1L Ultragrade rotary pump oil
A1944	4L Ultragrade rotary pump oil

Dry pumps, oil-free alternative to rotary vane pumps

11540	MD1 Diaphragm Pump, 23L/m
EK3172	XDS10 Scroll Pump

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