

Rotary Vane Vacuum Pumps

Oil-sealed Rotary Vane vacuum pumps are widely used traditional vacuum pumps in research and production, can be used independently, as well as working as backing pumps for molecular pumps or diffusion pumps. Wiggins' general direct driven rotary vane pumps are available as one and two-stage versions, cover the range from desktop lab pumps to production line pumps, with low noise and stable working temperature for common voltages and frequencies, long lifespan, and outstanding reliability for chemical applications. Various application areas may include vacuum distillation, vacuum filtration, vacuum inspection, vacuum freeze drying, vacuum coating, vacuum leak detection, vacuum packaging, vacuum adsorption, etc.

Features

- Compact structure
- Very good sealing
- No returning throughput
- Oil-spout prevention
- Low noise
- Oil-observation window
- Handle for easy transportation
- High flow rate
- Low and stable ultimate vacuum
- High evaporation resistance
- Comparatively high chemical resistance
- High longevity
- Low maintenance rate
- Low oil mist
- Gas ballast valve
- Overcurrent protection
- Fulfills IP54 standards

Application Areas

- Vacuum distillation
- Vacuum filtration
- Vacuum testing
- Vacuum freeze drying
- Vacuum plating
- Leak detection
- Vacuum packaging
- Vacuum sorption
- As a backing pump for turbo-molecular pumps or diffusion pumps

Specifications

Model	R-4SN
Work Mode	Single
Flow Rate (L/min)	50
Ultimate Vacuum (mbar)	2.5×10^{-2}
Power (W)	120
Motor rotation(RPM)	1400
Noise Level (dB)	< 60
Oil Capacity (L)	0.25
Weight (kg)	7
Outlet Specifications	5/8" SAE Male 7/16" SAE Male
Order No.	900101



Accessories for Rotary Vane Vacuum Pumps

Oil Mist Filter

The gas pumping out from the outlet often has some oil mist, which will effect the ambient, and sometime is harmful. Chemvak's exhaust filter can almost stop all the oil mist and let it flow back to the pump and can reduce noise as well.



Name	Suitable for	Order No.
Filters	R-4SN, R-8SN, R-12SN, R-16SN	900101-1



Wiggins Highspeed Pump Oil

ChemVak highspeed oil employs a very good lubricant function, and has a high emulsion and oxidation resistance. It helps to maintain the longevity of the system and to reach a stable ultimate vacuum.

Specifications	Order No.
500 mL	900100-04
1 L	900100-05
5 L	900100-02
10 L	900100-03



Flange Joint

Name	Description	Order No.
Flange Joint	Specification :5/8 SAE; Outlet Diameter :8mm; R-4SN / R-8SN / R-12SN / R-16SN	168900-82
Flange Joint	Specification :5/8 SAE; Outlet Diameter :10mm; R-4SN / R-8SN / R-12SN / R-16SN	168900-83
Flange Joint	Specification :5/8 SAE; Outlet Diameter :12mm; R-4SN / R-8SN / R-12SN / R-16SN	168900-84



Thick Vacuum Tubing

Thick rubber tube, which can be used in vacuum systems and for low evaporation pressure.

Inner Diameter(mm)	Thickness (mm)	Length(m)	Order No.
8	5	1	22690-06
10	9.5	1	22690-11
12	9.5	1	22690-13
19	9.5	1	22690-21
25	9.5	1	22690-26

length upon request (min. 1m)