CHEMGASOIL
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PRODUCT CATALOG

Vacuum pumps

Rotary vane pumps 4–630 m³/h and Roots boosters 250–4,500 m³/h.



CHEMGASOIL INDUSTRIAL SOLUTIONS (HONGKONG) LIMITED
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Vacuum pumps

We supply oil-sealed rotary vane vacuum pumps and Roots vacuum boosters for industrial processes: single-stage pumps 20–630 m³/h for rough vacuum, two-stage pumps 4–275 m³/h for high vacuum down to 0.04 Pa, and Roots pumps 250–4,500 m³/h to raise pumping speed in vacuum systems. Pumps have an oil-mist filter, gas ballast for water vapour, Viton seals and an anti-suck-back valve. Roots pumps can be supplied with anti-corrosion coating and explosion-proof or variable-speed motors.

Key specifications

Single-stage rotary vane	20–630 m³/h, ultimate pressure ⩽ 10–100 Pa
Two-stage rotary vane	4–275 m³/h, ultimate partial pressure 0.04–0.5 Pa
Roots boosters	250–4,500 m³/h (50 Hz), ultimate ⩽ 1×10^{-3} mbar with backing pump
Motors	0.37–15 kW (vane), 1.5–11 kW (Roots), single/three-phase
Water vapour tolerance	15 mbar (up to 50 mbar for large pumps)
Noise	⩽ 52–77 dB(A)
Ambient temperature	10–40 °C
Power supply	50 Hz or 60 Hz

Features

- High-quality oil-mist filter — no oil smoke at the exhaust
- Viton (FKM) seals for corrosion resistance and no oil leaks
- Gas ballast valve for pumping water vapour
- Automatic anti-suck-back valve protects the vacuum system after stop (two-stage)
- Forced lubrication by a built-in gear oil pump (two-stage)
- Modular pump body with few parts — easy maintenance
- Roots: double-end bearing support, low vibration; labyrinth, lip or mechanical seals by process
- Roots: anti-corrosion coating and explosion-proof / VFD motors on request

Model range

Single-stage rotary vane pumps

Model	Pumping speed, m³/h	Ultimate pressure, Pa	Motor, kW	Noise, dB	Inlet / outlet	Weight, kg
SV-20	20	⩽ 100	0.75 / 0.9	⩽ 65	G1/2"	19.5
SV-25	25	⩽ 30	1.1	⩽ 61	G3/4"	30
SV-40	40	⩽ 30	1.3	⩽ 63	G1 1/4"	39.2
SV-63	63	⩽ 30	1.5	⩽ 65	G1 1/4"	42.5
SV-100	100	⩽ 30	3.0	⩽ 65	G1 1/4"	72
SV-200	200	⩽ 10	5.5	⩽ 74	G2"	164
SV-300	300	⩽ 10	7.5	⩽ 77	G2"	215
SV-630	630	⩽ 10	15	⩽ 75	DN100	660

Two-stage rotary vane pumps

Model	Pumping speed (50 Hz), m³/h	Ultimate partial pressure, Pa	Ultimate total pressure, Pa	Motor, kW	Inlet / outlet	Weight, kg
DV-4	4	0.05	0.5	0.4 / 0.37	KF25	19
DV-8	8	0.05	0.5	0.4 / 0.37	KF25	21
DV-12	12	0.04	0.4	0.75 / 0.55	KF25	30
DV-20	20	0.04	0.4	1.1 / 0.75	KF25	35
DV-30	30	0.04	0.4	1.1	KF40	43
DV-40	40	0.04	0.4	1.5	KF40	62
DV-60	60	0.04	0.4	2.2	KF40	65
DV-90	90	0.04	0.4	3	KF40	65
DV-275	275	0.5	5	7.5	G2"	225

Typical data. Final selection and parameters are confirmed in the quotation for your project. Equipment is made by our partner factories in China.

Model range

Roots vacuum pumps

Model	Pumping speed (50 Hz), m³/h	Motor, kW	Inlet / outlet	Max. pressure difference, Pa	Weight, kg
RB-250	250	1.5	DN80 / DN63	8 000	90
RB-660	660	3	DN100 / DN80	7 000	180
RB-1000	1 000	4	DN150 / DN100	6 000	235
RB-1300	1 300	4	DN150 / DN100	6 000	255
RB-2000	2 000	5.5 / 7.5	DN200 / DN150	5 500	440
RB-4500	4 500	11	DN250 / DN200	4 300	700

Typical data. Final selection and parameters are confirmed in the quotation for your project. Equipment is made by our partner factories in China.

Applications

Vacuum packaging, food and meat processing; semiconductors and electronics; solar and lithium-battery production; chemical and pharmaceutical processes, drying and distillation; medical equipment; wind-power and electrical transformer drying; plastics, glass and ceramics; laboratories.

Photos



Single-stage rotary vane vacuum pump



Two-stage rotary vane vacuum pump



Roots vacuum booster pump

HOW TO ORDER

Send us your requirements — duty, quantity and delivery country — and we will reply with a technical and commercial offer.

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