

Pumps

Vacuum

Lubricated Rotary Vane Vacuum/Pressure Pump, Gast®

This pump is readily mounted and produces steady, quiet, pulseless air delivery. Ideal for intermittent service alternately. The pump rotor is mounted on the motor shaft. Composition vanes take up their own wear automatically. Self-adjusting shaft seals prevent oil leakage. The motor is a 1/4hp ball bearing type, with fan-cooled internal thermal protector.

CSA certified.



Electrical	115/220V, 50/60Hz
Free Air Displacement	127.4 L/min. (4.5 cfm)
Pressure	10 psi
Ultimate Vacuum	660.4 mm Hg (26" Hg)
Weight	15.9 kg (35 lbs.)

Description	Supplier No.	Cat. No.	Price
Lubricated Rotary Vane Vacuum/Pressure Pump	523V4FG588DX	54908-008	

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Vacuum Pumps, RV Dual-Mode, Direct Drive, Edwards

These quiet, double stage vacuum pumps are designed to provide both high throughput and low ultimate vacuum. Dual-mode action allows user to easily configure the unit to pump a very high gas load or achieve an excellent vacuum, all from a single pump.

Features include a cartridge-based pumping mechanism incorporating advanced new materials, fully featured Edwards motor, and fast acting inlet valve to seal the pump for suck-back protection. Controls are clearly marked and have easy-to-use large finger grips. On/off switch controls pump. Inlet/outlet connections are NW25.

Units feature special dual voltage, dual frequency motor with an IEC main input socket. Shaft seal can be changed or repositioned without dismantling the pump. Motor voltage is determined by simple rocker switch, enabling pump to be easily configured for international use. For 115/230V, 50/60Hz operation.

Ordering Information: Supplied with manufacturer's one-year warranty. Includes one-liter of Ultragrade 19 vacuum pump oil. The clean and overhaul kit (47730-816) contains all the springs, gaskets, seals, and other components required for routine maintenance and whenever the pump is dismantled.



Maximum Pumping Rate, H ₂ O Vapor	0.13 lbs./hr. for Gas Ballast Low Flow, 0.49 lbs./hr. for Gas Ballast High Flow			0.13 lbs./hr. for Gas Ballast Low Flow, 0.64 lbs./hr. for Gas Ballast High Flow
Maximum Water Vapor Inlet Pressure	60 torr (Measurement with gas ballast closed in high vacuum mode.)	38 torr (Measurement with gas ballast closed in high vacuum mode.)	29 torr (Measurement with gas ballast closed in high vacuum mode.)	24 torr (Measurement with gas ballast closed in high vacuum mode.)
Model	RV3	RV5	RV8	RV12
Ultimate Vacuum	1.5 x 10 ⁻³ (Measurement with gas ballast closed in high vacuum mode.)			

Electrical	Model	Dimensions	Free Air Displacement	Oil Capacity	Weight	Supplier No.	Cat. No.
300W	RV3	43L x 16W x 23H cm (17 x 6.3 x 9")	75 L/min. (2.7 cfm)	0.7 L	21.6 kg (47.6 lbs.) without oil	A65201906	EVR140-00-001
300W	RV5	43L x 16W x 23H cm (17 x 6.3 x 9")	117 L/min. (4.1 cfm)	0.7 L	21.5 kg (47.4 lbs.) without oil	A65301906	EVR240-00-001
550W	RV8	47L x 16W x 23H cm (18 1/2 x 6.3 x 9")	195 L/min. (6.9 cfm)	0.7 L	25.9 kg (57 lbs.) without oil	A65401906	EVR340-00-001
300W	RV12	49L x 16W x 23H cm (19 9/32 x 6.3 x 9")	283 L/min. (10 cfm)	0.7 L	26.3 kg (58 lbs.) without oil	A65501906	EVR440-00-001



Vacuum Pressure Pump, Gast®

This readily mounted unit produces steady, quiet, pulseless air delivery. It delivers 20psi of pressure for intermittent service alternately and 15psi pressure for continuous service alternately.

The pump rotor is mounted on the motor shaft. Composition vanes take up their own wear automatically. Self-adjusting shaft seals prevent oil leakage. The motor is a 1/6hp split phase, with internal thermal protector, ball bearing-type. Pump is single phase, with automatic overload protection.

CSA certified.

Ordering Information: Complete with intake oil filter, outlet filter, rubber mounting pads, vacuum and pressure gauges and regulators, hose nipples, and carrying handle. Three-wire cord, switch and three-prong plug are included.



Electrical	115V, 60 Hz
Free Air Displacement	37 L/min. (1.3 cfm)
Shipping Weight	11.8 kg (26 lbs.)
Ultimate Vacuum	508 mm Hg (20" Hg)

Electrical	Supplier No.	Cat. No.	Price
115V, 60Hz	0211V45UG8CX	54906-001	Ea./ 767.68
240V, 50Hz	0211V45UG230CX	54906-002	Ea./ 809.64

VACUU-LAN® Local Area Vacuum Network, VACUUBRAND

The vacuum local area network accommodates the individual configuration of virtually all common vacuum applications and offers significant advantages over centralized systems. The network can supply a number of ports on a working bench, a row of fume hoods, or an entire laboratory through the use of a single vacuum pumping unit. VACUU-LAN® is suitable for installation into new laboratories or for retrofitting into existing laboratories and workspaces. The VACUU-LAN® system provides a reduction of uncontrolled emissions and minimizes the risk of forming hazardous mixtures. Pumping speed and ultimate vacuum can also be chosen according to actual demand, resulting in a precisely adapted supply. The system can be easily expanded, and all ports may be upgraded.



VACUU-LAN® components distribute the vacuum generated by the pumping unit to the individual work-places. Mounting types vary according to the specific workstation requirements. Port fittings are available for use as surface mounts, concealed mounts, or fume hood mounts. Components feature integrated non-return valves with high effectiveness against interference or cross contamination. Each vacuum port is controlled by an individual shut-off/flow control module. These modules are available with manual or automatic activation.

Chemistry pumping units act as the servers for the vacuum local area network. They consist of an oil-free diaphragm pump, optimized for mechanical ruggedness and chemical resistance, and fitted with an inlet catchpot (AK) and an exhaust waste vapor condenser (EK). Models PC 500 and PC 600 LAN feature a digital vacuum controller for extensive vacuum management features. The vacuum controller features a precise vacuum gauge, flexible parameter adjustment, easy menus, and interactive communication via RS-232 interface.

An electronic upgrade package is available for each individual vacuum port. This provides advanced vacuum control and allows the setting of customized vacuum levels. Benefits include improved process control and environmental protection through increased solvent recovery. Upgrade systems feature precise two-point vacuum control (mbar, Torr, or hPa), analog and digital pressure displays, manual/semi-automatic determination of vacuum setting, and automatic setting of pressure intervals with manual override options. This results in a reduction of foaming and boiling retardation due to fast valve response. Vacuum controller CVC 2II must be used in connection with solenoid valve VCL C3.

The Peltronic electronic condenser collects exhaust vapor from the VACUUBRAND® vacuum system with nearly 100% recovery, without the need for cold water or a drain. Solvent is collected in a 500ml coated borosilicate glass vessel. The condenser temperature is automatically controlled to a constant 10°C (50°F). Condenser mounts directly to the VACUU-LAN® pump with no additional space required. Weight (without cable): 4.3kg (9.5lbs.). Dimensions: 17.5x17.9x39.2cm (6⁷/₈x7x15⁷/₁₆”).

Ordering Information: All packages include one chemistry vacuum pumping unit; surface, concealed, or fume hood installation vacuum ports; and a set of fittings (tubing and connectors). Electronic upgrade packages are available separately.

Pump Model	MZ2C + AK + EK	MD4C + AK + EK	PC 500 LAN	PC 600 LAN
No. of Ports	4	8	4	8
Pump Speed	2.0 m3/h, 1.2 cfm	3.5 m3/h, 2.1 cfm	2.0 m3/h, 1.2 cfm	3.5 m3/h, 2.1 cfm
Ultimate Vacuum	9 mbar / 7 Torr	2 mbar / 1.5 Torr	9 mbar / 7 Torr	2 mbar / 1.5 Torr
Vacuum Management	No		Yes	

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