

Atlas Copco

Oil-sealed rotary vane vacuum pumps
GV 20-300, 20-365 m³/h, 12-215 cfm



Sustainable Productivity

Atlas Copco



Atlas Copco – Your vacuum specialist

At Atlas Copco we have been developing state-of-the-art vacuum pumps for many years, utilizing our core technologies. We constantly aim to innovate, improve performance and target new application areas. The characteristics of our oil-sealed rotary vane vacuum pumps complement those that have made Atlas Copco the stand-out worldwide supplier of air solutions: high quality, impressive reliability and low lifecycle cost.

Robust technology

The GV 20-300 series operates according to the proven oil-sealed rotary vane principle that has been successfully used for many years in all general vacuum applications of industry. The GV 20-300 series is a robust and highly regarded product coming from a technologically advanced market leading design.



Innovative features

Atlas Copco has packed the GV 20-300 range with innovative features that ensure the highest possible performance at the lowest possible lifecycle cost. The built-in gas ballast is fitted as standard to assist in water handling capability. Other integrated functions include the lubricant retention and return mechanism which means that these machines are suitable for continuous operation between 400 mbar(a) and their ultimate pressure.



Clean and efficient

The oil separation circuit of the GV 20-300 has been optimized to minimize oil vapors in the exhaust gas. The inlet non-return valve protects the vacuum pump against counter rotation in the event of stopping without venting. This device also protects the point of use against back sucking of oil.





IDEAL FOR ALL YOUR VACUUM NEEDS

Providing highly efficient vacuum pumping performance, the GV 20-300 series is ideal for critical applications in packaging, woodworking, rubber, plastics, electronics, paper & printing, material handling and other exacting industries. Moreover, with eight models offering pumping speeds of between 20 and 365 m³/h, you will definitely find the right model for your specific application. Larger capacity needs can be accommodated with the Atlas Copco GV 630-4800.



BENEFITS YOU CAN COUNT ON

- Easy to install due to compact, space-saving design*.
- High reliability through a rugged design and optimal oil retention at all operating pressures.
- Low maintenance and wear due to optimally selected shaft speeds.
- Low noise and vibration levels throughout the pressure range.

Dimensional information is available on the product specific datasheet.

READY TO USE

GV 20-300 rotary vane vacuum pumps come complete with all the options and accessories you are likely to need for general rough vacuum applications. In case you have a unique vacuum need, please ask the Atlas Copco representative to help you select the best solution.

A multitude of applications

GV 20-300 oil-sealed rotary vane vacuum pumps are perfect for a range of demanding applications:

- Packaging:
 - Food processing: general packaging, cheese processing, vacuum cooling of produce.
 - Meat packing: fresh and cooked meats, poultry, modified atmosphere packaging, tumbling, filling and sealing.
- Woodworking: CNC cutting and routing, loading and unloading systems.

- Rubber and plastics: thermoforming applications, extruder barrel degassing, mold degassing, material handling.
- R&D systems: central laboratory vacuum.
- Electronics: pick and place components, PCB manufacture, central vacuum systems.
- Material handling: vacuum lifting, pick and place, bulk material transfer, pneumatic conveying, bottling, canning, vacuum sewage.

- Paper and printing: presses (sheet fed, offset, etc.), bindery equipment including stitching lines and perfect binding, newspaper production, envelope machines.
- Medical vacuum: various evacuation duties.
- Environmental: ground remediation etc.

In case your application is not listed or you are considering whether your application will produce the benefits often associated with centralizing your vacuum supply, please contact your local Atlas Copco representative to discuss the suitability of the GV range of vacuum pumps for your specific application.



Scope of supply

Your vacuum pump comes complete with all you require for a vast number of applications.

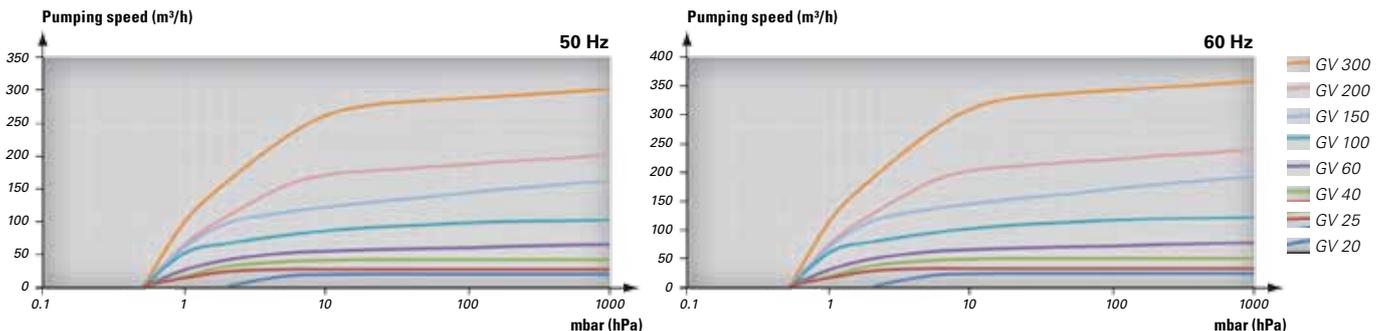
Oil separator	Inlet non-return valve
Gas ballast	Fill of oil shipped separately
Motor	Inlet filter (GV 25-300)

TECHNICAL SPECIFICATIONS

PUMP TYPE OIL-SEALED ROTARYVANE	Pumping speed		Ultimate pressure (2)		Motor size		Water handling capability		Motor supply specification
	m³/h	cfm	mbar (hPa)	torr	1 ph	3 ph	Vapor limit		
					kW	kW	mbar	kg/h	
GV 20	20	10.5	2	1.50	0.75	Optional	35	0.5	1 - 230V 50Hz
	21	12.3	2	1.50	0.9	Optional	35	0.5	1 - 230V 60Hz
GV 25	25	14.7	0.5	0.38	0.75	0.75	40	0.7	1 - 230V 50Hz
	29	17.0	0.5	0.38	0.9	0.9	40	0.7	1 - 230V 60Hz
GV 40	40	23.5	0.5	0.38	1.1	1.1	30	0.9	3 - 175-260/300-450V 50Hz
	48	28.3	0.5	0.38	1.35	1.35	30	0.9	3 - 200-300/346-520V 60Hz
GV 60	60	35.3	0.5	0.38	-	1.5	40	1.8	3 - 175-260/300-450V 50Hz
	75	44.1	0.5	0.38	-	1.8	40	1.8	3 - 200-300/346-520V 60Hz
GV 100	105	61.8	0.5	0.38	-	2.2	30	2.2	IE2 motor 3-230/400V 50Hz (1)
	125	73.6	0.5	0.38	-	3	30	2.2	3-IE2 motor 208-230V/265-460V 60Hz (1)
GV 150	150	88.3	0.5	0.38	-	3.3	25	2.5	IE2 motor 3-230/400V 50Hz (1)
	180	106.0	0.5	0.38	-	3.7	25	2.5	3-IE2 motor 208-230V/265-460V 60Hz (1)
GV 200	205	120.7	0.5	0.38	-	5.5	25	3.5	IE2 motor 3-230/400V 50Hz (1)
	245	144.2	0.5	0.38	-	6.6	25	3.5	3-IE2 motor 208-230V/265-460V 60Hz (1)
GV 300	305	179.5	0.5	0.38	-	7.5	25	5	IE2 motor 3-230/400V 50Hz (1)
	365	214.8	0.5	0.38	-	8.6	25	5	3-IE2 motor 208-230V/265-460V 60Hz (1)

(1) Smaller non-IE2 motors are available for continuous low pressure duties.
 (2) With gas ballast valve open. All units achieve better than 0.5 mbar with gas ballast closed.

PERFORMANCE CURVES



Pump performance measured at the inlet pressure and 20°C. Accuracy is +/- 10%.



Driven by innovation

With more than 135 years of innovation and experience, Atlas Copco will deliver the products and services to help maximize your company's efficiency and productivity. As an industry leader, we are dedicated to offering high air quality at the lowest possible cost of ownership. Through continuous innovation, we strive to safeguard your bottom line and bring you peace of mind.



Building on interaction

As part of our long-term relationship with our customers, we have accumulated extensive knowledge of a wide diversity of processes, needs and objectives. This gives us the flexibility to adapt and efficiently produce customized compressed air solutions that meet and exceed your expectations.



A committed business partner

With a presence in over 170 countries, we will deliver high-quality customer service anywhere, anytime. Our highly skilled technicians are available 24/7 and are supported by an efficient logistics organization, ensuring fast delivery of genuine spare parts when you need them. We are committed to providing the best possible know-how and technology to help your company produce, grow, and succeed. With Atlas Copco you can rest assured that your superior productivity is our first concern!



www.atlascopco.com/vacuum