

Part No.

V79025

BUSCH R5 RA 0025 F · Oil-Lubricated Rotary Vane Vacuum Pump



DESCRIPTION

The V79025 is a high-capacity oil-lubricated rotary vane vacuum pump supplied by ATL Composites as part of the BUSCH® R5 range. Designed and manufactured in Germany by Busch Vacuum Solutions, it delivers a nominal pumping speed of 25 m³/hr at 50 Hz down to an ultimate pressure of 0.1 hPa — a vacuum level roughly three orders of magnitude deeper than a dry vane pump of the same flow rate. That depth is what makes the R5 the pump of choice for resin infusion, larger laminates and multi-line infusions, where dissolved air and volatiles must be pulled out of the resin, not just out of the bag.

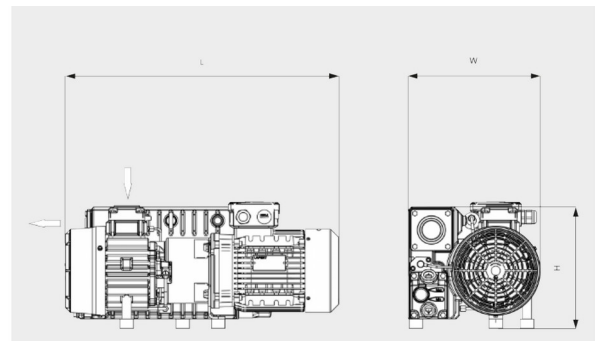
The pump circulates 1.0 litre of vacuum pump oil to seal, cool and lubricate the pumping chamber — so unlike ATL's dry vane range it requires periodic oil and filter changes, and an inlet filter and catch pot should always be fitted to keep resin and solvent carry-over out of the pump. ATL supplies the V79025 ready for workshop connection — pre-wired for 240 V single-phase operation and fitted as standard with a liquid-filled vacuum gauge, air bleed ball valve, cassette filter and 3-pin plug and lead.

BENEFITS

- Ultimate pressure to 0.1 hPa — deep, stable vacuum for resin infusion and degassing
- High pumping speed at low pressure, designed for continuous operation across long infusion and cure cycles
- Highly durable fibre-reinforced epoxy resin vanes and proven rotary vane technology for a long service life
- Gas-ballast valve option handles moisture and volatiles drawn off during infusion and degassing
- Supplied ready to run: 240 V single phase with gauge, air bleed valve, cassette filter and 3-pin plug
- Specified, supplied and supported by ATL Composites, exclusive BUSCH® distributor to the marine and composites industry



BUSCH R5 RA 0025 F oil-lubricated rotary vane vacuum pump



Dimensional drawing — L 604 x W 284 x H 270 mm

TECHNICAL DATA

PUMP TYPE	Oil-lubricated rotary vane vacuum pump
BUSCH MODEL	R5 RA 0025 F
NOMINAL PUMPING SPEED	25 / 30 m ³ /h (50 / 60 Hz)
ULTIMATE PRESSURE (GAS-BALLAST VALVE CLOSED)	0.1 ... 0.5 hPa (mbar) (50 / 60 Hz)
ULTIMATE PRESSURE (GAS-BALLAST VALVE OPEN)	0.5 ... 1.5 hPa (mbar) (50 / 60 Hz)
NOMINAL MOTOR RATING	1.0 / 1.2 kW (50 / 60 Hz)
NOMINAL MOTOR SPEED	1500 / 1800 min ⁻¹ (50 / 60 Hz)

TECHNICAL DATA

POWER CONSUMPTION AT 100 MBAR	0.8 / 0.9 kW (50 / 60 Hz)
POWER CONSUMPTION AT ULTIMATE PRESSURE	0.5 / 0.6 kW (50 / 60 Hz)
SOUND PRESSURE LEVEL (ISO 2151)	60 / 63 dB(A) (50 / 60 Hz), K _{pA} = 3 dB
OIL CAPACITY	1.0 litre
WEIGHT (APPROX.)	40 kg
DIMENSIONS (L X W X H)	604 x 284 x 270 mm
GAS INLET / OUTLET	G 1¼" / G 1¼"
VANE MATERIAL	Fibre-reinforced epoxy resin
POWER SUPPLY	240 V single phase — supplied with 3-pin plug and lead
LUBRICATION	Oil-flooded — requires periodic oil and filter changes
SUPPLIED AS STANDARD	Liquid-filled vacuum gauge; air bleed ball valve and filter; cassette-type filter; 3-pin plug and lead
OPTIONS / ACCESSORIES	Gas-ballast valve; various inlet filters; filter pressure gauge; oil level switch; vacuum regulating unit; Busch vacuum pump oils
MATERIALS TO AVOID	Uncured resin/styrene carry-over, solvent vapours, water and abrasive dust — always fit an inlet filter and catch pot
STORAGE	Store dry and dust-free, indoors, between 0 °C and 40 °C

ATL PART NO.	BUSCH MODEL	NOMINAL PUMPING SPEED (50 / 60 Hz)	ULTIMATE PRESSURE	NOMINAL MOTOR RATING
V79004	R5 PB 0004 C	4.0 / 4.8 m ³ /h	2.0 hPa (mbar)	0.10 / 0.12 kW
V79020	R5 PB 0008 C	8.0 / 9.6 m ³ /h	2.0 hPa (mbar)	0.35 / 0.45 kW
V79025	R5 RA 0025 F	25 / 30 m ³ /h	0.1 ... 0.5 hPa (mbar)	1.0 / 1.2 kW
V79040	R5 RA 0040 F	40 / 48 m ³ /h	0.1 ... 0.5 hPa (mbar)	1.4 / 1.7 kW

Oil-lubricated and dry vane pumps are not interchangeable. ATL's dry vane range (V78008–V78040) pulls to 120–150 hPa and needs no operating fluid — the right choice for vacuum bagging, bonding and veneering. The oil-lubricated R5 range above pulls to 2.0 hPa (PB) or 0.1 hPa (RA) and requires oil maintenance — the right choice where resin infusion or degassing demands a deeper, more stable vacuum. Contact ATL to confirm the correct pump for your mould size, process and cycle time.

DISCLAIMER

The information in this Technical Data Sheet is provided in good faith as general guidance only. Values stated are typical properties and should not be interpreted as guaranteed performance, specification limits, or design data. Product performance may vary depending on manufacturing processes, application methods, service conditions, storage, handling, and other factors beyond the control of ATL Composites Pty Ltd.

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