

VECTOR®

RD Refrigeration High Vacuum Pump

Tough, Australian made vacuum that keeps on pumping

Whereas some manufacturers build pumps to be thrown away, JAVAC pumps are designed to last a lifetime. Our early models are still going strong after over thirty years in operation. That's why Vector isn't just an average vacuum pump – it's your lifetime business partner.

Designed and
Manufactured
in Australia

A **stylish new design** optimises oil temperatures and prevents mechanical wear, allowing Vector to run at its peak long after its competitors have retired.

A **multi-head fitting** connects $\frac{1}{4}$ ", $\frac{3}{8}$ " and $\frac{5}{16}$ " SAE flare from a single point, and can be removed to accommodate other sizes.

Vector's **removable VacPak® vacuum cartridge** offers quieter operation and lower temperatures under arduous conditions.



0.001 mbar	100-300 litre/min
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Before your Vector leaves our factory, we tune and blueprint every component and give each Vector a **3 year conditional warranty**.

An **ammonia resistant coating** allows Vector to work with ammonia based systems safely. (Optional, includes $\frac{3}{8}$ " SAE flare).

A **high water vapour pumping rate** keeps the system dry and optimises the performance and reliability of your circuit.

JAVAC



Specifications



RD 90
VRD-90

RD 160
VRD-160

RD 320
VRD-320

Stages		2	2	2
Volumetric Flow /Swept Volume @ 50Hz (60Hz Option)*	litre/min	100 (120)	150 (180)	300 (360)
	m ³ /hr	6.0 (7.2)	9.0 (10.8)	18.0 (21.6)
	CFM	3.5 (4.2)	5.3 (6.3)	10.6 (12.7)
Ultimate Vacuum (PP)	mbar	0.001	0.001	0.001
Ultimate Vacuum with Gas Ballast (PP)	mbar	0.01	0.01	0.01
Pump Down 20 litre vessel to 0.01mbar	minutes	3.0	1.5	0.6
Max Water Vapour Pumping Rate	gram/hr	60	70	100
Operating Temperature	°C ± 10	60	60	60
Rotational Speed	rpm	1400	1400	1400
Motor Power 50Hz (60Hz Option)	Watts	750 (900)	750 (900)	750 (900)
Weight	kg	21.0	21.0	24.5
Dimensions	L/W/H mm	540/155/240	540/155/240	540/155/240
Suction Fitting	SAE	1/4", 3/8", 5/16"	1/4", 3/8", 5/16"	1/4", 3/8", 5/16"
Oil Capacity	cc	1500	1500	1300

Performance results obtained under ideal controlled conditions, to ISO standards. Similar results may be expected when using Partial Pressure gauges. *Actual capacity may be less allowing for conduction losses and atmospheric pressure variations.

Ultimate Vacuum

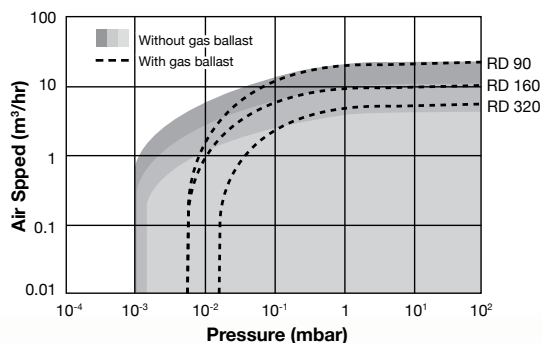
JAVAC high vacuum pumps are tested in accordance with ISO9001:2008 standards. Similar results are achieved if vacuum system is clean and the vacuum pump is at operating temperature.

Accessories

JAVAC offer a full range of vacuum accessories to suit your high vacuum pump including oil mist filters, inlet filters and traps, high vacuum valves, high vacuum gauges, control manifolds and more.

Genuine JAVAC Oil

For peak performance, always use **JAVAC Oil No. 16** with your Vector. Genuine JAVAC oil is specially formulated to extract the best performance and longest life – don't settle for inferior imitations!



How to Buy

JAVAC products are available direct from our website and from a select range of Authorised Distributors. To order your Vector, visit www.javac.com.au or call us on **1300 786 771**.



Vector LD and LT also available for laboratory applications

Applications

- Air conditioning dehydration
- Automotive air conditioning R12/R134a & blend compatible
- Domestic and commercial refrigeration
- General purpose vacuum in industry
- Production line and OEM
- Routine vacuum in laboratory

Features

- High density, impregnated aluminium castings (powder coated finish)
- Interchangeable/upgradable VacPak® cartridge
- Viton 'O' Ring modular construction
- Removable Multi-head fitting to suit 1/4", 3/8" and 5/16" SAE flare. Consult JAVAC for optional or custom fittings.
- No oil suck back auto vent system
- Integrated oil pump
- Adjustable gas ballast
- Flexible coupling drive
- Sustainable ultimate vacuum
- Ammonia resistant coating (option, fitted with 3/8" SAE)
- Magnetic sump plug
- Fan cooled
- Low noise and vibration
- Easy maintenance
- Low temperature start at ≥ 5°C
- Retractable carry handle
- Anti-skid rubber feet
- Various plumbing options
- Available with single- or three-phase power
- Optional trolley for material handling solutions
- Long life design and reliable performance
- Australian designed and manufactured
- Local service and support
- Extended three year factory warranty