

# 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 1/4", 3/8" and 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

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 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
<b>Volumetric Flow /Swept Volume @ 50Hz (60Hz)*</b>	litre/min	100 (120)	150 (180)	300 (360)
	m <sup>3</sup> /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)
<b>Ultimate Vacuum (PP)</b>	mbar	0.001	0.001	0.001
<b>Ultimate Vacuum with Gas Ballast (PP)</b>	mbar	0.01	0.01	0.01
<b>Pump Down 20 litre vessel to 0.01mbar</b>	minutes	3.0	1.5	0.6
<b>Max Water Vapour Pumping Rate</b>	gram/hr	60	70	100
<b>Operating Temperature</b>	°C ± 10	60	60	60
<b>Rotational Speed</b>	rpm	1400	1400	1400
<b>Motor Power 50Hz (60Hz)</b>	Watts	750 (900)	750 (900)	750 (900)
<b>Weight</b>	kg	21.0	21.0	24.5
<b>Dimensions</b>	L/W/H mm	540/155/240	540/155/240	540/155/240
<b>Suction Fitting</b>	SAE	1/4", 3/8", 5/16"	1/4", 3/8", 5/16"	1/4", 3/8", 5/16"
<b>Oil Capacity</b>	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 conductance losses and atmospheric pressure variations.

## Ultimate Vacuum

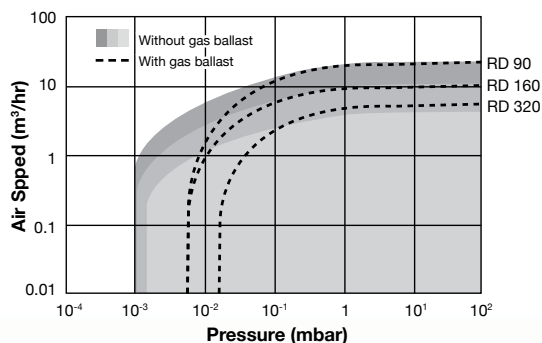
JAVAC high vacuum pumps are tested in accordance with AS/NZS ISO9001:2000 standards. Similar results are achieved if vacuum system is clean and the vacuum pump is at operating temperature.

## 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.



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