

# VECTOR®

## LD/LT Laboratory High Vacuum Pumps

### High performance, long lasting vacuum without the price tag

Vector's no-compromise, no-nonsense design is tough, safe, resilient to chemicals and will stand up to your arduous requirements for years to come. With over 45 years of expertise in vacuum engineering, Vector could only have come from JAVAC.

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.

In the unexpected event of a power failure or shut down, the **Automatic System Isolation (ASI)** valve preserves the system vacuum.

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



$<5 \times 10^{-4}$ mbar	6-18 m <sup>3</sup> /hr
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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**.

The LT series features a **Teflon coating** on critical parts of the pump, offering greater longevity in aggressive environments. (LT only).

High quality materials improve corrosion resistance, whilst a **magnetic sump plug** protects the pump from ferrous contaminants.

## Specifications



<b>LD 5</b> VLD-5	<b>LD 9</b> VLD-9	<b>LD 18</b> VLD-18
<b>LT 5</b> VLT-5	<b>LT 9</b> VLT-9	<b>LT 18</b> VLT-18

Stages		2	2	2
<b>Volumetric Flow /Swept Volume @ 50Hz (60Hz)*</b>	litre/min m <sup>3</sup> /hr CFM	100 (120) 6.0 (7.2) 3.5 (4.2)	150 (180) 9.0 (10.8) 5.3 (6.3)	300 (360) 18.0 (21.6) 10.6 (12.7)
<b>Ultimate Vacuum (PP)</b>	mbar	< 5x10 <sup>-4</sup>	< 5x10 <sup>-4</sup>	< 5x10 <sup>-4</sup>
<b>Ultimate Vacuum with Gas Ballast (PP)</b>	mbar	0.01	0.01	0.01
<b>Pump Down 20 litre vessel to 0.01 mbar</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>	ISO	KF25	KF25	KF25
<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

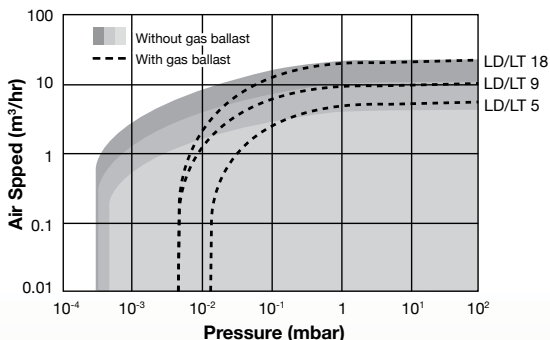
JAVAC high vacuum pumps are tested in accordance with AS/NZS ISO9001:2000 standards. Similar results are achieved if vacuum system is clean and the vacuum pump is at operating temperature.

## 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 from your pump – 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.

## Applications

- Backing turbo or diffusion pumps
- High vacuum coaters
- Sputtering systems
- Chemistry laboratories
- Metallurgical processes
- Vacuum distillation/degassing
- Freeze drying
- Space simulation
- Inert and reactive gas handling (with special inert oils)

## Features

- High density, impregnated aluminium castings (powder coated finish)
- Interchangeable/upgradable VacPak® cartridge
- Viton 'O' Ring modular construction
- ISO KF Flange Fitting System (KF 25 Standard, consult JAVAC for optional or custom fittings)
- No oil suck back auto vent system
- Built in Automatic Isolation Valve (ASI)
- Integrated oil pump
- Adjustable gas ballast
- Flexible coupling drive
- Sustainable ultimate vacuum
- Corrosive resistant Teflon coating (LT series only)
- 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



Vector RD also available for commercial refrigeration applications