

## **JAVAC VECTOR RD Series – Commercial Vacuum Pump**

The JAVAC VECTOR RD Series is the latest generation in high performance rotary vane vacuum pumps. JAVAC's dedication to continuous product improvement, commitment to ISO quality standards, combined with over 40 years of R&D investment underpins the technology and engineering applied to the VECTOR range of vacuum pumps.

### **The VECTOR Advantage**

Large finned oil box for greater cooling capability  
Enhanced oil flow for lubrication and cooling  
Vacuum to 1 micron (0.001 mbar)  
Sustainable ultimate vacuum due to cooler running and less stress on oils  
Change over cartridge available on all models  
Versatile connections – multiple choice suction fitting  
Magnetic sump plug aids in capturing contaminants  
Fan cooled continuous rated motor  
Adjustable gas ballast valve for large system evacuation  
Compatible with most refrigerants  
Low noise and vibration  
Designed for easy maintenance  
Low temperature start at  $\geq 5^{\circ}\text{C}$   
Long life design and reliable performance  
Retractable carry handle  
Optional trolley for material handling solutions  
Connections fittings and hoses available at request  
Australian designed and manufactured  
Local service and spare parts support

### **Durable & sturdy components**

- Heavy duty cap start cap run motor.
- Durable aluminium electrical box featuring on/off switch, integrated circuit breaker and thermal overload.
- High quality materials for improved resistance to corrosion.

### **Effective cooling**

Enhanced cooling via the large finned area allows the vacuum pump to operate at maximum efficiency and cooler oil temperatures result in less mechanical wear and tear.

### **Inlet fittings to suit any application:**

- Refrigeration: Multi-head fitting to suit 1/4", 3/8" and 5/16" SAE flare.
- Custom fittings: Options available consult your sales representative.

### **Efficient oil circulation**

To reduce unwanted particles within the pump oil passes through a strainer prior to entering the cartridge. All internal components are continuously coated promoting advanced operational performance and extended life.

### **Magnetic sump plug**

For added protection, this aids in capturing any ferrous containments that may cause damage to the pump and is unique only to the VECTOR.

### **Sophisticated cartridge design**

Allows improved oil lubrication under arduous conditions and incorporates many new features, such as a pressurised oil system of higher capacity, quieter operation and lower oil temperature.

### Separate oil fill plug

For user ease the discharge vapour can be permanently connected to an external venting system.

### Recessed Oil sight-glass

Offers greater protection from accidental knocks and front location allows quick visual inspection.

### Retractable carry handle

Ergonomically safe for the user when carrying the vacuum pump.

### Rubberised feet

Provide optimal stability and vibrational reduction.

### Adjustable gas ballast valve

Reduces oil contamination and improves water vapour handling.

### Applications:

- Domestic and commercial refrigeration/air conditioning dehydration
- General purpose vacuum in industry
- Production line and OEM

### Ultimate Vacuum:

JAVAC high vacuum pumps are tested in accordance with 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 JAVAC high vacuum pump including oil mist filters, inlet filters and traps, high vacuum valves, high vacuum gauges, control manifolds.

### VECTOR RD Specifications

VECTOR	Unit /Measure	RD-90	RD-160	RD-320
No. Stages		2	2	2
Volumetric flow @ 50 Hz (swept volume)*	litre/min	90	150	300
Designated capacity ideal conditions	m3/hr	5.4	10	18
	CFM	3.1	5.5	10.8
Ultimate vacuum (pp)*	mbar	0.001	0.001	0.001
Gas Ballast (pp)	(variable)	0.01	0.01	0.01
Pump Down 20 litre vessel to 0.01mbar	min	2.5	1.5	0.6
Water vapour pumping	kg/hr	350	500	900
Rotational speed	rpm	1400	1400	1400
Motor power	Watts	750	750	750
Weight	kg	19.5	21	24.5
Dimensions	L/W/H - mm	540/155/240	540/155/240	540/155/240
Suction fitting	SAE - inches	1/4,3/8,5/16	1/4,3/8,5/16	1/4,3/8,5/16
Available in Single and 3 Phase		YES	YES	YES
Ammonia Model (optional)		YES	YES	YES

- Results obtained under controlled conditions, to ISO standards, similar results may be expected when using partial pressure gauges.
- \*Actual capacity maybe less allowing for conductance losses and atmospheric pressure variations
- Performance figures obtained under ideal conditions.