



Pneutech

RSCRD-V OIL FREE SERIES

Oil Free Rotary Screw Compressors

A LIFETIME INVESTMENT...

Pneutech not only provides guaranteed compressed air to a quality that meets and exceeds your expectations but also takes responsibility for your compressed air system and will stand behind its operation and performance for as long as you require it.

With major distribution centres strategically positioned in five corners of the globe, Pneutech will assess, measure and record your particular compressed air requirement and provide a global input solution tailor designed to suit your operation. With decades of internationally combined expertise, the Pneutech compressed air experience will bring you a sound lifetime investment and most importantly complete peace of mind.



THE PNEUTECH GROUP STATEMENT

“With such international connections, the Pneutech Group has the performance and integrity that only comes from personal commitment combined with global resources, to provide a truly innovative and flexible solution for your application.”



NO ONE EVER REGRETTED BUYING QUALITY

The essence of a good compressed air investment is regarded as “lifetime cost”.

Lifetime cost is a combination of initial capital cost, energy cost, maintenance costs and any other associated remedial costs, all added together over the lifetime of the compressor. It is no surprise that Pneutech RSCRD-V Screw Compressors boast the lowest of lifetime costs when compared with equivalent models in today's industry.

Remember: “The bitterness of poor quality remains long after the sweetness of low price has been forgotten”



The unparalleled Gold Guarantee provides you with complete peace of mind for 10 years* when run in conjunction with the master maintenance plan. Simply set it and forget it.

*Conditions apply – see Gold Guarantee infosheet.

... AND PEACE OF MIND

*Pneutech RSCRD-V rotary Screw compressors come with a world leading standard guarantee ... 10 years.**



Pneutech's unique maintenance programme removes the hassle of organising your own service, the risk of factory breakdowns and the pressure of locating standby air. Our Master Maintenance programme plan provides complete peace of mind.



Pneutech RSCRD-V rotary screw compressors will continue pumping air around the clock, 24 hours a day, 7 days a week, 365 days a year.

PNEUTECH RSCRD-V SERIES OIL-FREE, VARIABLE SPEED DRIVE

Pneutech's RSCRD-V Series oil-free, variable speed, rotary screw compressors are fast becoming a status symbol for safety and solidity. Renowned for their unparalleled performance and long term reliability, these screw compressors demonstrate superior design and cutting edge technology, combined with proven engineering.

COMPARE THESE FEATURES

BUILT TO LAST

Pneutech RSCRD-V series rotary compressors are designed and engineered strong to sustain operation in the worst of Australian and New Zealand conditions.

They are built heavy to guarantee relentless 'around the clock' use in the largest dairy factories, breweries and manufacturing plants, 365 days a year.



Compare the physical dimensions and weight of these power houses – at up to 50% larger and heavier than most other equivalent rotary compressors available. That is because Pneutech oil-free rotary screw compressors are built to last.

EVER RELIABLE

2-Stage oversized air intake filtration ensures the high performance and precision machined rotors are kept in clean pristine condition for trouble free operation.

With a unique, condensed oil reticulation the RSCRD-V compressors can sustain long operating periods between maintenance, with the two stage lubricated and dry air ends eliminating the risk of machine contamination and machine failure. This means the RSCRD-V oil-free series compressors are ever reliable, in both periodic and continuous use environments.

LESS MAINTENANCE

Large open-access cabinet, quick release hinging service panels on every side, and spin on/off filtration aids fast routine maintenance, reducing downtime. With superior direct coupled transmission, internal contamination is kept to an absolute minimum, reducing the frequency of filter and lubricant change. Solid steel and reliable seamless tubing provides a safe leak-free environment, while the double set of two air ends, spin slowly to make for more stable temperature control, reducing metal fatigue and consequent machine wear. These are just some of the reasons why the maintenance of the Pneutech RSCRD-V series compressors are considerably less.

LOWER OPERATION COST

With a substantially reduced maintenance factor, Pneutech RSCRD-V series compressors also reduce factory downtime to a minimum, promoting sustained productivity.

The direct drive transmission ensures more energy is transferred to the revolving rotors, with minimal loss, while the oversized air

end can sustain longer operating hours before any overhaul is required.

Pneutech direct-to-factory parts supply, ensures service rates are kept very competitive and in some instances the overall Pneutech operating cost can be less than half that of other equivalent models.



COOLING CHOICE

Depending on your site/facility the RSCRD-V Compressor provides the option of air or water cooling for each model.

FOOD SAFE

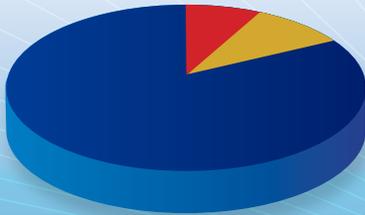
Producing the cleanest and highest purity level of oil-free air, the RSCRD-V Series compressors guarantee food safety. With the 100% oil-free Class-0 Certification, there is no need to worry about filter changes, or oil contamination testing. The RSCRD-V eliminates all traces of oil contamination from the air supply at the source.



ENERGY SAVINGS . . .

The Pneutech RSCRD-V series VSD (variable speed drive) rotary screw compressors will bring you substantial energy savings with the result of significantly lowering your electricity account. VSD technology will also increase the working lifetime of the rotary screw compressor – by reducing the working load and unnecessary wear and tear.

FIXED SPEED



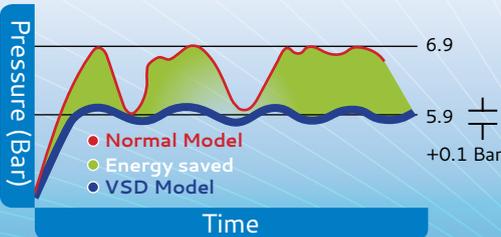
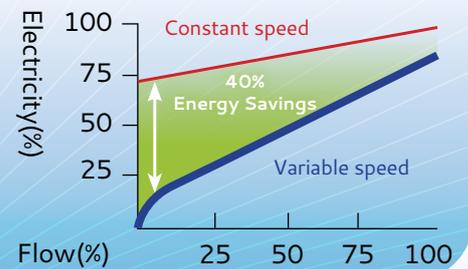
RSCRD-V SERIES



VARIABLE AIR SUPPLY TO MATCH DEMAND

The compressor uses a high performance inverter to smoothly alter the motor speed in response to a varying air demand, ensuring there is no unnecessary off-load running.

The result – you only pay for the compressed air you use, and with typically large troughs in your compressed air use, up to 40% energy savings can be achieved with the highly efficient Pneutech RSCRD-V series VSD compressors.

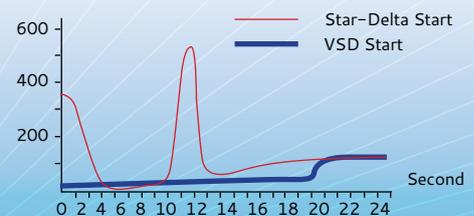


CONSTANT AIR PRESSURE

The Pneutech RSCRD-V compressors maintain a constant pressure of +/- 0.1 bar (1.4psi) from the pressure setting, despite the varying compressed air volume. As higher air pressures have a significant impact on increasing compressed air energy consumption, the constant pressure control brings large power savings.

SOFT STARTER

The smart inverter controller facilitates low starting torque with a soft start feature, thus avoiding current spikes, and high cost start-ups, as common to DOL and Star Delta models. This means the RSCRD-V series can stop/start many times to help conserve energy, rather than waste it.



REDUCE WEAR AND TEAR

The RSCRD-V series significantly reduces unnecessary wear and tear to the rotary screw compressor because the constant load/unload cycling at full motor rpm, as common to fixed speed models is effectively eliminated. Instead an even load pressure and tending toward lower rpm, relieves incessant stress on the drive bearings, air end components and drive coupling. The result is a lower maintenance cost and extended operational life.

STANDBY FUNCTION

When the compressed air demand is very low or stopped the compressor will enter a standby-idle position, still maintaining the system pressure, but with minimal load and current requirement, thus conserving energy. The intelligent controller can be programmed to customise the standby and stop / start modes, to optimise the compressed air delivery and economise on energy consumption – tailored to suit your application.

INTEGRAL VSD SYSTEM

The Pneutech RSCRD-V rotary screw compressed air system is specially designed and engineered to accommodate VSD operation. With a specially designed electric motor, oversized cooler, high performance driver coupling, oversized air intake system, high flow oil reticulation and many other features, this series delivers premium performance and the longest life.

... AND 10 SUPERIOR REASONS TO



1. EXTREME OPERATION

After cooler designed 30% larger than usual capacity for operating in extreme conditions of up to 45°C. Allows compressor to operate in all environments. Integrated high performance water separator with auto-drain.

2. RELIABILITY COUNTS

World leading pneumatic and control valves including main on load/off load valve – guaranteed for 2,000,000 cycles. Superior design eliminates



'hesitation' enhances performance and guarantees reliability.

14. SIMPLE YET SMART

The patented intelligent micro controller is very simple, yet smart. Monitor the pressure, temperature, current display service cycles, system faults, on load / off load duty cycles. Up to 13 protection alarms including reverse rotation. Connect with other compressors or your computer for remote monitoring or interface with Pneutech's Master Controller and operate up to 8 compressors in sequence.

13. OPTIMUM VECTOR PERFORMANCE

Vector control, makes for optimum torque performance under the wide speed band, and offers up to 10 times better torque variation performance than conventional VSD drives.



12. TRUSTED NAME

Pneutech employ world trusted brand electrical contactors and components.



11. VOLUME & VELOCITY

Oversized smooth walled intercooling piping ensures high air flow and minimal pressure drop.

10. SUBTLY SILENT

Slow revving oversized air ends and sound insulated sealed panels provide subtly silent operation for such a large capacity machine.



... .CHOOSE PNEUTECH

YOUR GLOBAL SUPPLIER FOR COMPRESSED AIR EQUIPMENT.

3. AIR OR WATER COOLED

Option of air or water cooled to suit your application and facility.



4. STERILE STAINLESS

Quality stainless air and oil piping to ensure the highest level of sanitation.

5. PREMIUM PROTECTION

Heavy duty Mann intake filtration is key to premium protection and the long term performance of the compressor – even in adverse elements. Combined with renowned Donaldson oil filtration, to significantly reduce maintenance costs.



6. HIGH EFFICIENCY DRIVE

World renowned high efficiency Mepps 2 drive motor, with class F insulation and B temperature resistance, offers ultimate protection against dust and chemicals. Specially designed to provide optimum power over a broad speed range, the Pneutech motor is equipped with external grease points for a long and reliable service life.



7. LONG TERM PROTECTION

Premium 'direct' geared drive transmission provides 100% power transfer, while eliminating drive belt vibration and contamination. The precision machined gears make for perfect air end synchronisation and optimum long term performance.



9. STATE OF THE ART

The over sized German made air ends feature special high efficiency rotor profiles, SKF tapered, cone roller bearings and triple seal, teflon oil seals for performance and long term reliability.



8. TWO STAGE

The two sets of twin air ends feature two stage compression and oil removal with stage 1 as lubricated and stage 2 dry for 100% safe oil free air supply.



GUARANTEED SAFETY

The Pneutech RSCRD-V Series rotary screw compressors guarantee compression air safety, with a 100% oil free air supply year in and year out.



With the prestigious ISO Class-0 food certification, these quality compressors provide the highest level of oil contamination-free air achievable – 100% Oil Free.

The Pneutech RSCRD-V range of oil-free compressors can be relied on to deliver a consistent flow of high quality, clean and economical compressed air. Where contaminated compressed air can result in expensive product spoilage, you can rest assured that the Pneutech oil-free compressors will eliminate oil carry over in the compressed air supply. In addition the removal of oil from the compression process enables compressed air users to operate with maximum environmental efficiency.

SUPERIOR 2 STAGE TECHNOLOGY AIR END

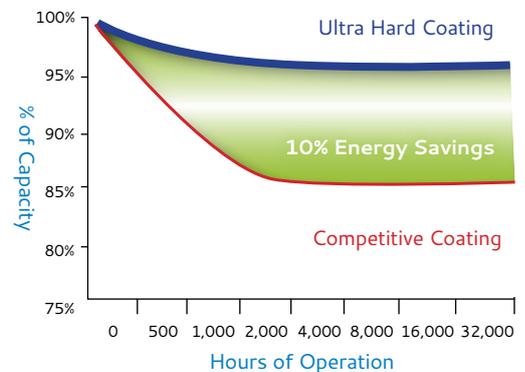
Pneutech employ a time-proven, two-stage compression air-end, incorporating precision machined rotors with perfectly matched gearing for optimum performance and longevity.

Class-0 oil-free air is guaranteed by a unique labyrinth oil seal design, and the employment of stainless steel air seals. This seal combination ensures the protection of the rotors from impurities, while providing for a continuous flow of clean 100% oil-free compressed air.



TOUGH TEFLON

A specialist ultra hard coating protects the rotors and housing from unnecessary machine fatigue, guaranteeing the screw is operating at peak performance throughout its service life. The rotor air end's surface is prepared with miniature crevices that tightly grip the ultra hard coating. This makes for outstanding durability and the coating is proven consistently out perform and out last other protective layers on the market, both in adhesion and durability tests, enhancing the compressor efficiency and reliability.



HYDRAULIC EFFICIENCY

The highly efficient hydraulic-action suction valve replaces the traditional air actuated design. This reliable minimum pressure valve guarantees high performance and consistent efficiency in high demand operations.

This technology eliminates the need for regular maintenance and overhaul, while substantially reducing production downtime and service costs.



STERILE STAINLESS STEEL

Stainless steel and aluminium piping connects the intercooler and second stage chambers further ensuring a contamination-free air compression process to enhance the coating life.



RSCRD-V RANGE





RSCRD-V SERIES MODELS SPECIFICATIONS / PERFORMANCE

Model	Installed Motor Power		Free Air Delivery		Pressure	Size	Weight	Air Outlet Size
	(kW)	(Hp)	L/min	CFM	(Bar)	(mm)	(kg)	
RSCRD75V	55	75	9,490	339	7	2380 x 1580 x 1880	2580	DN50
RSCRD100V	75	100	12,375	442	7	2380 x 1580 x 1880	2680	DN50
RSCRD125V	90	125	15,845	566	7	2880 x 1880 x 1880	3200	DN65
RSCRD150V	110	150	19,290	689	7	2880 x 1880 x 1880	3200	DN65
RSCRD180V	132	180	22,760	813	7	2880 x 1880 x 1880	3500	DN65
RSCRD220V	160	220	25,536	912	7	2880 x 1880 x 1880	3500	DN55
RSCRD300V	220	300	34,636	1237	7	3350 x 2280 x 2280	5500	DN100
RSCRD340V	250	340	44,548	1591	7	3350 x 2280 x 2280	5500	DN100

Model	Motor Shaft 7bar (kw)	Terminal Power 7bar (kw)	No Load At Shaft	No Load Terminal Power	Motor Speed RPM
RSCRD75V	60.40	60.50	16.80	18.16	2960
RSCRD100V	80.40	80.39	22.80	24.52	2960
RSCRD125V	98.55	89.29	22.80	24.52	2970
RSCRD150V	122.55	117.32	36.60	38.94	2970
RSCRD180V	140.00	148.94	42.00	44.68	2970
RSCRD220V	160.00	170.21	48.00	51.06	2970
RSCRD300V	230.00	242.11	69.00	72.63	1490
RSCRD340V	282.00	294.36	84.60	88.31	1490



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