



Pneutech

RSCRV SERIES

Variable Speed 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 5 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 RSCRV 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 info sheet.

... AND PEACE OF MIND

*Pneutech RSCRV 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.

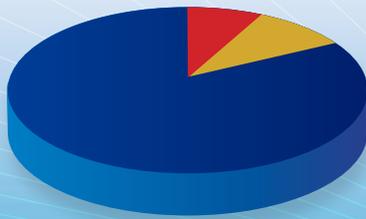


Pneutech RSCRV rotary screw compressors will continue pumping air around the clock, 24 hours a day, 7 days a week, 365 days a year.

ENERGY SAVINGS ...

The Pneutech RSCRV 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



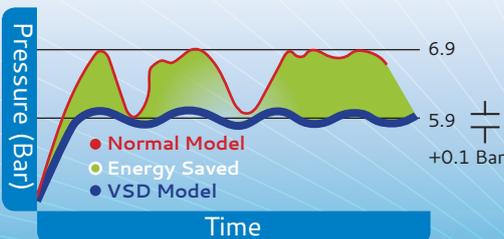
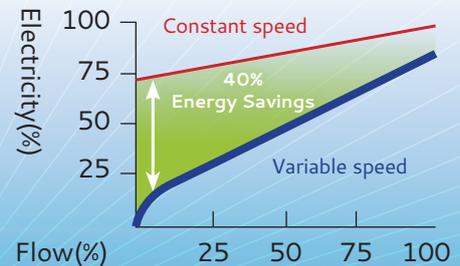
RSCRV SERIES



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 RSCRV series VSD compressors.

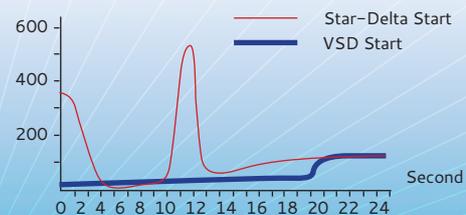


CONSTANT AIR PRESSURE

The Pneutech RSCRV 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 RSCRV series can stop/start many times to help conserve energy, rather than waste it.



REDUCE WEAR AND TEAR

The RSCRV VSD 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 RSCRV VSD 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.

PNEUTECH RSCRV SERIES VARIABLE SPEED DRIVE (VSD)

Pneutech's RSCRV Series variable speed drive rotary screw compressors are fast becoming a status symbol in the vast Pneutech product line. Renowned for their unparalleled performance and long term reliability, these flagship screw compressors demonstrate the huge energy saving benefits of VSD technology, combined with cutting edge but proven engineering.

COMPARE THESE FEATURES

BUILT TO LAST

Pneutech RSCRV 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 ensure relentless 'around the clock' use in the most industrial of mine sites, blasting booths 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 rotary screw compressors are built to last.



EVER RELIABLE

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

The 3-stage oil cleansing process with extra large oil separator tank allows for up to 8,000 hour oil change intervals, as the lubricant passes through the stringent purifying process, providing ultimate lubrication to the heavy duty bearing assemblies. Utilising a double sized air end, and spinning at less than half the RPM of similar belt driven models, the Pneutech RSCRV series screw compressor is ever reliable.

LESS MAINTENANCE

Large open access cabinet, quick release 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 slow revving air end makes for more stable temperature control, reducing metal fatigue and consequent machine wear. These are just some of the reasons why Pneutech RSCRV series require less maintenance.



LOWER OPERATION COST

With a substantially reduced maintenance factor, Pneutech RSCRV 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.

QUALITY AIR SUPPLY

There is no compromise in compressed air quality. The Pneutech multiple oil separation system, means 99.9% of all oil contamination is removed from the exiting compressed air supply, while the large air/water cooled radiators ensure the air is comparatively dry and moisture-free.



This quality compressed air supply is maintained 100%, and whether the environment is icy cold or hot and desert-like, whether dry and dusty or very humid, the Pneutech RSCRV series screw compressor can be relied upon to keep you in business.

... 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. 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.



10. 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.



9. 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.

8. LONG TERM OPERATION

Renowned German made KTR coupler provides positive direct drive transmission technology, minimises power loss, contamination and vibration, while ensuring long term performance.



...CHOOSE PNEUTECH

YOUR GLOBAL SUPPLIER FOR COMPRESSED AIR EQUIPMENT.

3. HIGH QUALITY AIR

Oversized air-oil separator tank and element. Effective 3 stage separation, less than 3ppm oil carry over and less than 0.02 bar pressure drop. Highest air quality assured with renowned Mann filtration.



4. 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.

5. 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.



6. TRUSTED NAME

Pneutech employ world trusted brand electrical contactors and components.



7. 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.



RSCRV RANGE





RSCRV SERIES SPECIFICATIONS / PERFORMANCE

Model	Power (kW)	Horse Power (Hp)	Free Air Delivery		Pressure (Bar)	Size (mm)	Weight (kg)	Air Outlet Size
			m ³ /min	CFM				
RSCR30V - 7 RSCR30V - 10	22	30	3.7 3.2	131 113	7 10	1380*850*1160	590	Rc 1
RSCR50V - 7 RSCR50V - 10	37	50	6.1 5.7	215 201	7 10	1600*1000*1360	870	Rc 1 1/2
RSCR60V - 7 RSCR60V - 10	45	60	7.3 7.1	258 251	7 10	1820*1000*1360	960	Rc 1 1/2
RSCR75V - 7 RSCR75V - 10	55	75	10.2 8.7	360 307	7 10	2200*1360*1755	1730	DN50
RSCR100V - 7 RSCR100V - 10 RSCR100V - 12.5	75	100	13.3 11.8 9.7	470 417 342	7 10 12.5	2200*1360*1755	1870	DN50
RSCR125V - 7 RSCR125V - 10 RSCR125V - 12.5	90	125	16.2 14.4 12.5	572 508 441	7 10 12.5	2800*1600*1775	2600	DN65
RSCR150V - 7 RSCR150V - 10 RSCR150V - 12.5	110	150	20.1 17.2 15.4	710 607 544	7 10 12.5	2800*1600*1755	2700	DN65
RSCR180V - 7 RSCR180V - 10	132	180	23.4 20.8	826 734	7 10	2700*1750*1850	3100	DN65
RSCR220V - 7 RSCR220V - 10 RSCR220V - 12.5	160	220	28.5 22.8 20.5	1006 805 724	7 10 12.5	2700*1750*1850	3200	DN65
RSCR250V - 7 RSCR250V - 10 RSCR250V - 12.5	185	250	31.2 27.8 24.1	1101 981 851	7 10 12.5	2700*1820*1850	3500	DN80
RSCR270V - 7 RSCR270V - 10 RSCR270V - 12.5	200	270	35 30.8 27.8	1236 1087 981	7 10 12.5	2700*1820*1850	3600	DN80
RSCR300V - 7 RSCR300V - 10 RSCR300V - 12.5	220	300	38.1 33.4 28.5	1345 1179 1006	7 10 12.5	3000*2050*2097	5000	DN100
RSCR340V - 7 RSCR340V - 10 RSCR340V - 12.5	250	340	44.6 38.2 32.8	1574 1348 1158	7 10 12.5	3000*2050*2097 3200*2050*2200	5200	DN100
RSCR375V - 7 RSCR375V - 10 RSCR375V - 12.5	280	375	50.7 42.8 38.2	1790 1511 1348	7 10 12.5	3200*2050*2200	5400	DN100

- Water separator is standard for 125HP up
- 415 Volts, 50 Hz
- Other models available including oil free and water cooled type
- Lower operating costs.



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GROUP

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