



*Advanced Energy Saving  
Compressed Air Solutions*



## **Rotary Screw Air Compressors**

Variable Speed Drive

7.5kW-15kW PM Series

High efficiency - Permanent Magnet Drive

# Affordable High Efficiency Compressed Air is Here!



## Introducing the Westair SCR PM - Permanent Magnet Range

The Westair SCR PM compressor range is the smart choice for business wanting to reduce energy costs.

Until now, variable speed drive air compressors driven by high-efficiency permanent magnet motors have been out of reach of the typical Australian business. Premium priced compressor manufacturers have used them as their “Halo” range, which meant only the largest businesses could justify the capital cost in order to benefit from the significant energy savings on offer.

### An Energy Saving Revolution

Westair recognise that businesses, regardless of their size and wallets, want to save power, and, to see the financial benefit of any energy saving technology adopted from day one. The new SCR PM range is the ultimate solution and is set to revolutionise the compressor industry with savings delivered at every turn.

#### Unique Benefits of the SCR PM Range:

✓ **Save Up to 60% of Power**

- Compared to a fixed speed compressor.

✓ **Lower Outlay Cost**

- Lower priced than most fixed speed compressors!

✓ **Pay-Back in as Little as 1-2 years**

- The more your air demands fluctuates, the faster the pay-back

✓ **Simplified Servicing**

- Direct-drive, belt-free design with a clever flip-top design for easy servicing



### Westair Pneumatic Systems and SCR

Westair Pneumatic Systems and SCR have partnered together to provide Australian industry with advanced energy saving compressed air solutions since 2009.

With one of the most extensive ranges of energy saving solutions available in Australia it includes, scroll air compressors, variable speed drive air compressors and efficient direct-drive fixed speed rotary screw compressors. All ranges are available in either oil-injected or oil-free configurations.

To ensure you receive only the best local support for your Westair SCR compressor, we offer the full range through our Australia wide dealer network of compressed air professionals. SCR has partners growing their compressed air network throughout the world. Their focus on R&D and using top class components from Germany and well known international brand components is your guarantee that you have made the right choice when buying a Westair SCR compressor.

## Save Up To 60% On Your Compressed Power Costs

Many businesses attribute 15-20% of their total energy costs to generating compressed air. When replacing or installing a new air compressor it is therefore smart to consider a high efficiency system.

Compressors are typically sized to satisfy a peak demand, which may only represent an hour or two per day. For the rest of the day the demand can vary significantly.

A fixed speed air compressor trying to meet such a varying demand will continue to run for long periods and produce more air than you need and waste energy.

The Westair PM range only produces the air you need. When installed into a business with an air demand that varies throughout the day, the savings can be significant, even as high as 60%!

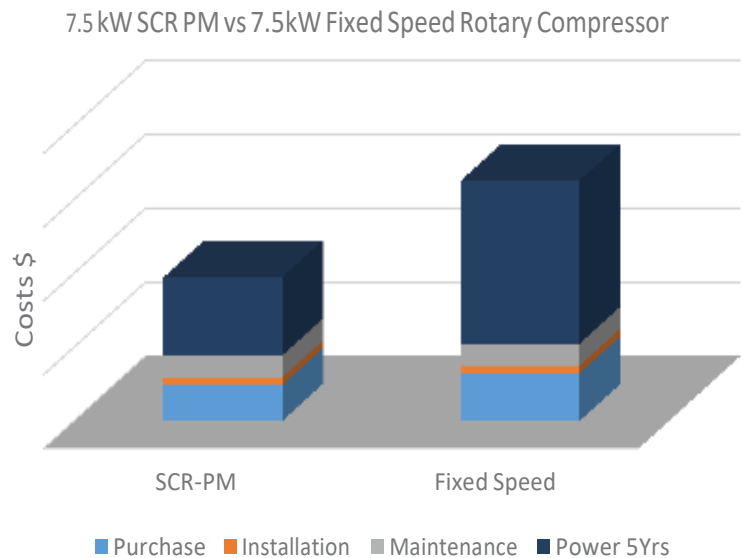


Chart compares the costs of owning a fixed-speed compressor to an SCR PM 7.5kw VSD compressor over just a five-year period, where the fluctuating air demand in a typical workshop, equates to a loaded run time of 30% of the day.

## VSD-Permanent Magnet Efficiency

The Interior Permanent Magnet (IPM) motor uses DC power via an inverter to seamlessly speed up and slow down the compressor to match your air demands. After 20 seconds of no air demands, the motor stops.

AC motors found on compressors are limited the number of times per hour they can stop/start, and therefore, cannot match the efficiency of the IPM motor. The SCR-PM series has an unlimited start-stop ability which can dramatically reduce both total run hours, and power usage.



### **88% less offload running!**

- Highest PM motor efficiency
- Energy saving special dual cooling system
- Unlimited motor start / stops per hour
- Direct connection (no gearing)
- Low noise



# Westair - Permanent Magnet Drive Features

7.5kW - 15 kW High Efficiency Range

## High Efficiency Airend

- New Design - increased efficiency by 5-10%
- Large oversized rotors for low rotational speed
- Asymmetric rotor profile for increased sealing between rotors
- Triple lip shaft seals
- Oil and air leak free design

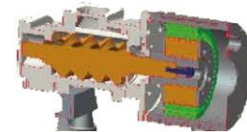


## IPM Motor

- Highest IPM motor efficiency, even out performing IE3 efficiency levels.
- IPM motor has no cooling fan due to being linked with the compressors oil cooling system, which in turn reduces load/amp draw on motor.

## Directly Coupled Motor & Airend

- Direct Drive (1:1 ratio)
- No gearing or transmission loss



## Easy Maintenance

A simple flip top design means that all components are accessible for maintenance.

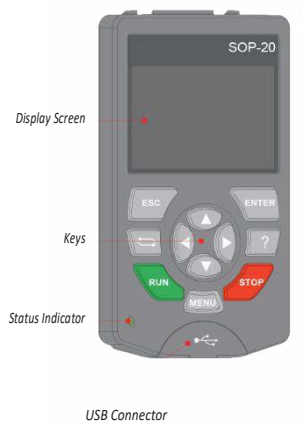
- Service times are kept to a minimum
- Spin on separator and oil filter
- No hoses to replace. Neat rigid pipework layout.
- No belts to change

## Low Sound Acoustic Enclosure

- Quiet noise enclosure
- Perfectly suited to indoor installation
- Can be installed close to work areas



## Easy to Use Controller



- Full function controller
- Monitors: amps, kilowatts, hertz
- Shutdown protection – temperature/ pressure/ amps
- Keypad controller allows you to schedule on/off times throughout the day/night to maximise savings.

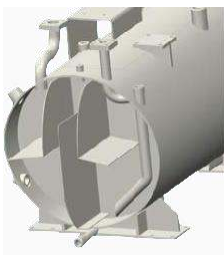
*Unique removable ethernet cable connected controller.  
Controller can be easily relocated to outside the machinery room.*

## Inovance Inverter (VSD)

The Inovance inverter has a massive 25-100% variable range which converts AC to DC to control the new IPM motor. According to your air consumption the inverter will automatically adjust the IPM motor to suite your air demand while keeping a stable pressure of 0.1bar.



## Patent Design Integrated Air Receiver & Air/Oil Separator Tank



- New labyrinth structure integrates the oil/air separator tank in with the main air receiver.
- Patented design dramatically reduces the compressor size saving you on valuable floor space.

## A Perfect Fit for Your Operations

While every workplace and application is different, all businesses share the same challenges when installing an air compressor. These include location, space constraints, noise level concerns and hot conditions.



The unique flip-top design means that minimal room is needed around the compressor.

- ✓ All service items can be accessed from the front
- ✓ No rear service access needed
- ✓ No rear air flow ventilation required
- ✓ Minimal side clearance needed
- ✓ Can be located close to any wall
- ✓ Just 61cm wide and 125cm long
- ✓ Small compact design frees up valuable floor space

## Quiet Noise Levels

The Work Health and Safety Code of Practice for managing noise at work, states that 85dB(A) is an acceptable noise level for 8 hours continuous exposure. From 68-72dB(A), the Westair SCR PM-Series is therefore quiet and perfect for maintaining a safe workplace.

### Sound Levels

7.5kW – 68+3 dB(A)  
 11kW – 71+3 dB(A)  
 15kW – 72+3 dB(A)



## High Ambient Running

The Westair SCR-PM range has been engineered to perform in even the toughest climates. With an ambient rating of up to 45 Degrees Celcius, the range exceeds the temperature rating of many fixed speed compressors.



## Technical Specifications

Model	Pressure		Motor		Flow		Air Outlet	Dimensions	
	bar	Psig	kW	hp	m <sup>3</sup> /min	cfm		LWH (cm)	weight (kg)
130 Litre Tank Mounted (T)									
SCR10PM-T-8	8	116	7.5	10	0.30-1.10	10-38	Rc 1/2"	124 x 55 x 102	280
SCR10PM-T-10	10	145							
SCR15PM-T-8	8	116	11	15	0.43-1.70	15-60	Rc 3/4"	125 x 61 x 112	320
SCR15PM-T-10	10	145							
SCR20PM-T-8	8	116	15	20	0.57-2.30	20-81	Rc 3/4"	125 x 61 x 112	320
SCR20PM-T-10	10	145							

Specifications subject to change without notice

## Air Treatment – Clean, Dry Air Options

Whenever air is compressed the humidity in the air becomes more concentrated. If this moisture is not removed it can affect downstream equipment, your production or your spray paint job.

We can select the right air treatment solution to suit your needs.

### Our range includes:

- ✓ Refrigerated Air Dryers
- ✓ Coalescing Filtration (removes solids and oil vapours to as low as 0.01 micron)
- ✓ Activated Carbon Filters (removes oil odours from the air)
- ✓ Water Separator
- ✓ Vertical Air Receivers
- ✓ Condensate Drain Filtration (adsorbs oil from condensate drains)



## Routine Maintenance

Routine maintenance is important to protect your compressor and to ensure it continues to run efficiently. The Westair SCR-PM compressor package is designed to make servicing fast and safe. The flip top cover and belt-free design mean that mechanical parts are easily accessible.



### Routine Servicing is as simple as:

**Daily:** Inspect prior to use: drain air tank and check oil level (no need to open the lid).

**Minor Service:** Replace oil filter and air filter element.

**Major Service:** Replace spin-on oil separator element cartridge (and replace Minor Service items), and replace oil.

Note: Westair recommend you contact your Westair-SCR dealer to perform any servicing or repairs.

## Warranty

All Westair SCR compressors are covered by a generous warranty.

Westair warrant non-service parts for 2 years a from date of purchase. The warranty is conditional on the compressor being serviced regularly. The warranty includes limited, fair and reasonable on-site labour to repair any warranty issue. All Warranties are subject to prior assessment and approval by Westair. Travel costs to site are excluded.

For a full warranty statement please contact Westair.

Distributed By:

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