



# SCR Direct Drive Series

Rotary Screw Compressor

## SCR DIRECT DRIVE ROTARY SCREWAIR COMPRESSOR RANGE



As the sole distributor of SCR Compressors in Australia, Westair are pleased to introduce their latest range of Direct Drive Rotary Screw Compressors.

The SCR Direct Drive range are of robust design with low speed, oversized airends and uncomplicated 1:1 ratio drive, resulting in strong, reliable and long life machines.

### FEATURES INCLUDE

- 7.5 kW to 280 kW units available
- Pressure ranging from 7 bar to 12.5 bar
- Intelligent Micro Controller for more energy efficient control
- Major components of European design and manufacture
- Long term warranty on complete packages
- Maintenance friendly with large removable and lockable panels



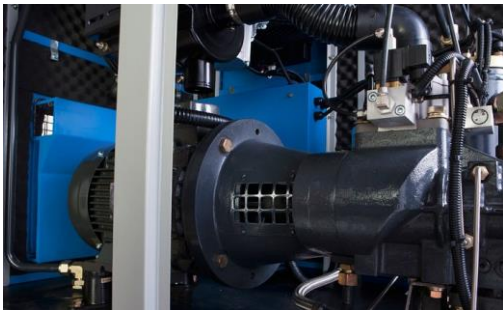
### MINING FEATURES

- Weather proof
- Stainless steel door, frame and base option available for erosive environments
- Heavy duty air filtration
- Electrical cabinet upgrades to suit mine site specifications
- Industrial external filter mats

## DIRECT DRIVE ADVANTAGES

With many advantages, the SCR Direct Drive compressor would be an excellent choice in value. SCR use oversized airends and a 1:1 ratio drive. The 1:1 ratio means the motor is directly coupled to the airend via a maintenance free coupling that eliminates transmission loss and reduces noise dramatically.

Compared to other compressors using belt drive or small high speed gear driven airends, the SCR Direct Drive delivers outstanding performance and significant energy savings.



### ADVANTAGES

- Lower power consumption
- Energy efficient
- Low noise
- Reduces maintenance cost and down time
- No loss power transmission
- Eliminates the use of belts
- Safer than a moving belt and pulley system

## INTELLIGENT MICRO CONTROLLER



Image 1: Controller shows on load running

The intelligent patented micro plc controller is user-friendly. It has signals for pressure, temperature and current, which monitor the running of the compressor. With a secured code, setting up or changing parameters in the system can be easily achieved using the buttons on the display.

### THE DISPLAY HAS READINGS FOR:

- Running amps
- Service intervals
- Pressure
- Temperature
- Current
- On load and off load hours
- Reverse anti-rotation
- Date and time
- Fault history
- Plus up to 13 different monitoring alarms

### CONTROLLER OPTIONS

- Remote stop/start
- Power outage start up
- Master slave operation
- RS485 Connection
- Connect to the SCR Air Management System where you can control multiple compressors from a central location



Image 2: Controller shows running amps.

# QUALITY EUROPEAN COMPONENTS



## MOTOR



All our SCR Direct Drive compressors are fitted with MEPS 2 compliant industrial motors. The SKF front and back bearings have greasing nipples to ensure a long service life.

## AIREND



SCR airends are fitted with patented German made rotors, SKF bearings and European made Teflon oil seals. These high quality components ensure high efficiency, long running and low noise/vibration of the airend. Other airends used in our Direct Drive range include Gardener Denver of Finland and Aerzen of Germany.

## ELECTRICAL COMPONENTS



Siemens is the main core of the electrical components within the starter. This ensures the long term stable operation of the compressor.

## TRANSMISSION



KTR German made coupling connects the motor to the airend with a 1:1 ratio. WVIF high efficiency shock pads are used on the motor and airend to lower the torque impact and vibration.

## OIL SEPARATOR



Our oversized oil separator filters ensure a longer life and a sustained clean air delivery of less than 3ppm oil content, resulting in a differential low pressure loss of less than 0.02Mpa.



## SUCTION VALVE



The SCR suction valve is a high quality key component which brings the compressor on and off load and has an expected service life of over 2 million cycles. The longevity and reliability of this valve is due to no gap needing to be completely sealed, therefore eliminating problems such as deteriorating cup seals and diaphragms.

## THERMAL VALVE



Renowned Hoerbiger thermal valves are used in our units. The thermal valve opens and shuts many times during operation, to help the compressor maintain its optimum temperature.


## COOLER



Our large oversized coolers have been designed to withstand Australia's harsh weather conditions.

## SOLENOID AND PRESSURE CONTROL



European solenoid valves and sensors are used as the main pneumatic and sensor control components.  **Huba Control**

## SEAMLESS STEEL PIPES



Made from seamless steel, the oil pipes are connected together with high quality compression fittings. This pipe system eliminates ageing and oil leaks.

## AIR INTAKE FILTRATION



The global Donaldson brand is just one of the high efficiency, low loss imported air filtration used on all our SCR compressors. Intake air quality is a key to compressor reliability. If the machine can breathe clean air it will reduce running costs and extend the life of the machine.

# TANK MOUNTED DIRECT DRIVES



Our Tank Mounted Direct Drive range offers excellent value for money. The compressor unit fitted on top of the air receiver results in a more compact design. The smaller footprint means lower installation costs and less space required.

Westair offer two different sized Tank Mount Direct Drive units;

- SCR10D-8-T complete with 180L air tank
- SCR20D-8-T complete with 366L air tank

## TECHNICAL SPECIFICATIONS

MODEL	KW	HP	M3/MIN	CFM	BAR	AIR OUTLET SIZE	TANK SIZE	DIMENSIONS*	WEIGHT
SCR10D-8-T	7.5	10	1.0	35	8	½"	180 L	1072 x 680 x 1612	350 KG
SCR20D-8-T	15	20	2.3	81	8	1"	366 L	1328 x 1085 x 1716	720 KG

\*LxWxH mm

## SCR DIRECT DRIVE ALL IN ONE UNIT

The new SCR Direct Drive All in One Unit is a compact design that consists of the compressor, air receiver, refrigeration air dryer, pre & post air filters, stainless steel bypass system and condensate manifold.

### STAINLESS STEEL BYPASS

The airline installation design includes a stainless steel bypass and condensate manifold system, which saves you money on installation costs.

### COMPACT FOOTPRINT

Small compact footprint maximises the usage of your valuable floor space.

### PRE & POST FILTRATION

Pre and post filters are fitted with the refrigeration dryer to give an air quality of 0.01 micron which is classed as instrument quality air.

### AIR DRYER EASY TO REMOVE

The refrigeration air dryer is NOT integrated with the compressor and is fitted with a bypass. If any issues arise with the dryer, it can be easily removed without interrupting your air supply.

### WASTE CONDENSATE

Waste condensate is neatly piped into to a manifold which comes out of one exit point to be fitted to either an oil water separator or waste oil container.



\*Tank has been reversed to show filters, bypass and condensate manifold.

## TECHNICAL SPECIFICATIONS

MODEL	KW	HP	M3/MIN	CFM	BAR	AIR OUTLET SIZE	TANK SIZE	DIMENSIONS*	WEIGHT
SCR10D-8-TD	7.5	10	1.0	35	8	½"	320 L	1600 x 800 x 1576	410 KG
SCR20D-8-TD	15	20	2.3	81	8	¾"	500 L	1940 x 1050 x 1798	790 KG
SCR30D-8-TD	22	30	3.5	124	8	1"	500 L	2060 x 1080 x 1850	840 KG

## SERVICE & SPARE PARTS

Westair and our national network of distributors offer full technical support and service options, with fully stocked service vehicles and factory trained service technicians.

### WESTAIR SUPPLY, INSTALL AND SERVICE THE FOLLOWING INDUSTRIES:

- Mining
- Manufacturing
- Automotive
- Pharmaceutical
- Agricultural
- Food & Beverage
- Heavy Industry
- Light Industry

As the sole distributor of SCR in Australia, it is our duty to stock a full range of spare parts for all our SCR compressors. So in the unlikely event of any issues we will have the parts on the shelf ready to go.

At Westair we endeavour to keep our prices on all service kits and spare parts to a minimum. Low ongoing running maintenance costs are a prime feature on the SCR Direct Drive range.



MODEL	KW	HP	M3/MIN	CFM	BAR	AIR OUT- LET SIZE	DIMENSIONS (mm)	WEIGHT (KG)	Noise Level *dBa
SCR10D-8	7.5	10	1.0	35	8	1/2"	1053 x 690 x 928	250	66
SCR20D-8	15	20	2.3	81	8	3/4"	1300 x 900 x 1100	530	66
SCR20D-10	15	20	2.0	71	10	3/4"	1300 x 900 x 1100	530	66
SCR30D-8	22	30	3.5	124	8	1"	1380 x 850 x 1160	580	71
SCR30D-10	22	30	3.2	113	10	1"	1380 x 850 x 1160	580	71
SCR40D-8	30	40	4.8	170	8	1 1/2"	1600 x 1000 x 1360	800	72
SCR50D-8	37	50	6.1	215	8	1 1/2"	1600 x 1000 x 1360	860	75
SCR50D-10	37	50	5.3	187	10	1 1/2"	1600 x 1000 x 1360	860	75
SCR60D-8	45	60	7.15	252	8	1 1/2"	1850 x 1000 x 1360	950	75
SCR60D-10	45	60	7.0	247	10	1 1/2"	1850 x 1000 x 1360	950	75
SCR75D-8	55	75	9.9	350	8	2"	2200 x 1360 x 1755	1720	78
SCR75D-10	55	75	8.3	293	10	2"	2200 x 1360 x 1755	1720	78
SCR100D-8	75	100	13.0	459	8	2"	2200 x 1360 x 1755	1800	78
SCR100D-10	75	100	11.6	410	10	2"	2200 x 1360 x 1755	1800	78
SCR125D-8	90	125	15.9	562	8	DN65	2535 x 1620 x 1692	2400	79
SCR125D-10	90	125	14.5	512	10	DN65	2535 x 1620 x 1692	2400	79
SCR150D-8	110	150	19.0	671	8	DN65	2535 x 1620 x 1692	2700	79
SCR150D-10	110	150	17.0	600	10	DN65	2535 x 1620 x 1692	2700	79
SCR180D-8	132	180	24	848	8	DN65	2700 x 1750 x 1850	2700	77
SCR180D-10	132	180	21.5	759	10	DN65	2700 x 1750 x 1850	2700	77
SCR220D-8	160	220	27.5	971	8	DN65	2700 x 1750 x 1850	3200	78
SCR220D-10	160	220	24.2	855	10	DN65	2700 x 1750 x 1850	3200	78
SCR250D-8	185	250	31.6	1116	8	DN80	2700 x 1820 x 1850	3800	84
SCR250D-10	185	250	28.3	999	10	DN80	2700 x 1820 x 1850	3800	84
SCR270D-8	200	270	33.6	1187	8	DN80	2700 x 1820 x 1850	4000	84
SCR270D-10	200	270	30.8	1088	10	DN80	2700 x 1820 x 1850	4000	84
SCR300D-8	220	300	38.3	1353	8	DN100	3000 x 2050 x 2097	5000	84
SCR300D-10	220	300	33.1	1169	10	DN100	3000 x 2050 x 2097	5000	84
SCR340D-8	250	340	43.8	1547	8	DN100	3000 x 2050 x 2097	5500	84
SCR340D-10	250	340	38.2	1349	10	DN100	3200 x 2050 x 2200	5500	84
SCR375D-8	280	375	50	1776	8	DN100	3200 x 2050 x 2200	5700	84
SCR375D-10	280	375	43.2	1526	10	DN100	3200 x 2050 x 2200	5700	84

Models available in 8 to 12.5 bar pressure

**KEY**

KW	HP	M3/MIN	CFM	BAR	DN	*DBA
Kilowatt	Horse power	Cubic meter per minute	Cubic feet per minute	Pressure system	Diameter nominal	At 1 metre