

**SOUTHERN CROSS  
COMPRESSORS (AUSTRALIA)**



# **LGX SERIES ROTARY SCREW AIR COMPRESSORS**



**5.5 - 15 kW**

***Air Power for Industry***




# LGX SERIES COMPACT ROTARY SCREW AIR COMPRESSORS

## HIGH EFFICIENCY, LOW COST & RELIABLE

Southern Cross LGX Series receiver mounted rotary screw compressors provide the ideal range for industries requiring high performance from a compact compressed air package. These units are designed to produce maximum output with outstanding reliability for the lowest possible energy usage.

Engineered from the highest quality components, utilising the latest in compressed air technology, the Southern Cross LGX range offers capacities from 0.55 m³/min to 2.35 m³/min to suit a diverse range of applications. Every unit is rigorously tested to perform to stringent quality standards and is fully backed by Southern Cross' comprehensive, 5 star service and warranty.

## LGX Series Features



### Electrical Control Cabinet

- Star-Delta starter
- Reduced current demand during start-up
- IP55 Protection
- Protected against dust & moisture

### Digital Control Panel

- Monitors all compressor key functions
- Fault detection & protection
- Provides service due alert

### Drive Motors

- MEPS II compliant
- TEFC to IP55
- Protected against dust & moisture
- Class F insulation

### Large, Slow Running Airend

- Increased efficiency
- Increased reliability/lifespan
- Extended bearing Life

### Large 500 litre Receiver Standard

- Reduced load cycles to minimise energy consumption
- Reduced control/system wear and tear
- Peak demand coverage
- Increased condensate removal
- Design approved to AS1210-3

### Compressor Cabinet

- Easy access to all service components
- Minimised service & maintenance costs
- Powder Coated Protection
- Weather resistant

### Integrated Aftercooler & Cooling Fan

- Efficient cooling for high ambient conditions
- 10°C approach temperature

### Large Cyclonic Air Intake Filtration

- Minimal pressure drop for increased efficiency
- High level contaminant removal
- Long element life
- Outstanding protection for your investment

### Optional Integrated Dryer & Air Filter

- Minimised footprint
- 0.5 Micron pre-filter (additional filtration available)
- Auto condensate drain
- 3°C pressure dewpoint

### Automatic Belt Tensioning

- Extended belt life
- Minimised bearing loads
- Reduced energy consumption
- No adjustments required

### Minimised Footprint

- Easy Installation
- Reduced installation area

### Low Noise Levels

- 67-68 dB(A) (±3dB(A))

### Safety

- Guarding on all rotating components
- Shrouded electrics
- Lockable cabinet

### 3 Year Extended Warranty

- \* Conditions apply

We use the highest quality components to deliver the best possible performance and outstanding reliability.

## SPECIFICATIONS

Model	Free Air Delivery		Power		Maximum Operating Pressure		Starter	Air Receiver	Noise	Weight	Dimensions l x w x h mm	Dryer Model	
	m³/min	cfm	kW	hp	bar	psi							litres
LGX5.5	0.78	28	5.5	7	8	116	Star- Delta	500	67	600	1880x650x1630	KSAD-1HF	
	0.63	22			10	145							
	0.55	19			13	188							
LGX7.5	1.15	41	7.5	10	8	116	Star- Delta			68	650	1880x650x1630	KSAD-1HF
	0.91	32			10	145							
	0.79	28			13	188							
LGX11	1.72	61	11	15	8	116	Star- Delta		68		800	1880x700x1680	KSAD-2SF
	1.42	50			10	145							
	1.21	43			13	188							
LGX15	2.35	83	15	20	8	116	Star- Delta			68	880	1880x700x1680	KSAD-2SF
	2.00	70			10	145							
	1.79	63			13	188							

All our products are manufactured to exacting standards in accordance with ISO9001-2008. Unit performance measured in accordance with ISO1217, Ed3 Annex C - 1996. Reference conditions: Absolute inlet pressure = 1bar. Temperature = 20°C. Cooling temperature = 20°C. Noise pressure level measured in accordance with ISO2151 2004 (E)

## LARGE, SLOW RUNNING AIREND FOR WORLD CLASS EFFICIENCY



- 'SKKY' Series Airend
- Asymmetric 5/6 rotor profile
- KAPP ground rotor technology for tighter clearances and improved lubrication
- Low noise and vibration
- SKF bearings

## INTERNATIONAL RESEARCH & DEVELOPMENT



**WORLD CLASS PERFORMANCE**



# Air Power for Industry

Whatever industry you are in, here at Southern Cross Compressors we have the experience and expertise to handle every compressed air situation. Our 5 star approach begins with a thorough understanding of your application. This vital information enables us to provide the right system design, product selection, installation and service programs ensuring you get the most efficient and reliable air system possible.

Our extensive industry experience gained over thirty years, makes Southern Cross the ideal partner to look after your total compressed air system.

## AIR AUDITS

Inefficiencies as high as 50% are typical in most compressed air systems.

Using the latest ultrasonic flow meters and leak detection technology, an air usage profile can be created and matched to the ideal operating system for each customers application.

This 'Air Audit' can lead to remarkable improvements in efficiencies and savings in energy costs.



## DESIGN

**Compressed Air- delivered efficiently!**

Designing the right compressed air system is fundamental to maximising efficiency and reliability. This leads to higher performance and significant savings in energy costs over the life of the system.

Southern Cross specialise in designing and engineering exactly the right system taking into consideration air demand, maintenance access, ventilation, pressure drop and environment.

## PRODUCTS

**Southern Cross stock a wide range of products and parts to suit most compressed air systems**

- Single and 2 Stage, fixed and variable speed rotary screw compressors from 15 - 400kW
- Compact tank mounted rotary screw compressors from 5.5 - 15kW
- Piston compressors from 3 - 15kW
- Scroll Compressors from 4 - 15kW
- Air dryers
- Coalescing filters
- After coolers
- Pressure vessels
- Oil-water separators
- Auto drains



## INSTALLATION

**Compressed Air-where you need it, on time and on budget**

A flexible compressed air reticulation system is critical to ensure costs are minimised. Stringent installation procedures ensure pipe work, connections and system components are engineered to exacting standards. ie: leak free, minimal pressure drop and possible future expansion are fundamental considerations.

Materials used include: Stainless Steel, Mild Steel, Copper, Aluminium and PE (plastic).



## SUPPORT

**Consistently meeting customer needs underpins our success**

Highly trained, experienced and professional service technicians fully understand the importance of minimising downtime and maximising reliability.

24 hour support ensures a quick resolution to any problem that may occur.

An extensive range of flexible service plans allow customers to budget and control the annual cost of preventative maintenance.



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pressure systems

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