CompAir

COMPRESSED AIR FOR AUSTRALIAN MINING

SUSTAINABLE MANUFACTURING

CompAir's L-Series Oil-Lubricated Rotary Screw Compressors Enhanced to Suit Extreme Australian Mining Conditions

Within modern mining, air compressors play a key role in improving mine safety, as well as maximizing the efficiency of resource extraction, whether this may be coal, iron ore, copper, lead, gold or other metals and minerals. This industry often involves challenging environmental conditions, which is why we offer expertly designed, reliable compressed air technologies to help you keep up with the ever-changing demands of the mining industry.

Single Source to Power Critical Tools & Equipment

Due to the growing use of compressed air within the global mining industry, it is becoming increasingly important to find an efficient system that can power critical tools and equipment even from a single source. Gardner Denver's expert range of oil-flooded air compressors is suitable for both surface mining and subsurface mining to power equipment, pneumatic tools and ventilation equipment to keep you operating at your most efficient.

The Right Compressed Air System to Prevent Downtime & Improve Quotas

As a result of the vital role compressed air plays in mining resources, it's important to find an air compressor system that can maximize the productivity and efficiency of your applications. Gardner Denver is able to tailor its range of compressed air technologies to suit your specific needs with different configurations and our Total Air System packages. Dramatically reduce downtime and improve your quotas with our expert, efficient range.

The L-Series from CompAir

Well known in the industry for quality and reliability CompAir continuously develops the L-Series achieving cutting edge performance and efficiency. The versatile range from 2.2kW to 290kW can be configured to meet the customers' efficiency requirements. The Four Core-models have been optimised for sustainability over its entire life cycle. The regulated speed models save energy by matching the output to the plant air demand. The design focus of these compressors is purely on performance and efficiency.

FOURCORE
ADVANCED COMPRESSION TECHNOLOGY

CompAir's Range of Oil-lubricated Screw Compressors:

L02 to L06

- 10 bar
- 0.18 to 0.89 m³/min
- 2.2 to 7.5 kW

Single-stage, oil-lubricated screw compressors; optional variable speed [1)]

L07 to L22

- 7 to 13 bar
- 0.45 to 3.54 m³/min
- 7.5 to 22 kW

Single-stage, oil-lubricated screw compressors; optional variable speed [1)]

L23 to L29

- 5 to 13 bar
- 1.03 to 5.52 m³/min
- 22 to 30 kW

Single-stage, oil-lubricated screw compressors; optional variable speed

L30 to L37

- 5 to 13 bar
- 1.33 to 7.15 m³/min
- 30 to 37 kW

Single-stage, oil-lubricated screw compressors; optional variable speed

[1)] also available as AirStation including receiver and dryer

L45 to L55

- 5 to 13 bar
- 1.6 to 11.1 m³/min
- 45 to 55 kW

Single- or two-stage, oil-lubricated screw compressors; optional variable speed

L75

- 5 to 13 bar
- 2.1 to 14.8 m³/min
- 75 kW

Single-stage, oil-lubricated screw compressors; optional variable speed

L90 to L132

- 5 to 13 bar
- 5.1 to 24.79 m³/min
- 90 to 132 kW

Single- or two-stage, oil-lubricated screw compressors; optional variable speed

L160 to L290

- 5 to 13 bar
- 5.83 to 47.1 m³/min
- 160 to 250 kW

Single- or two-stage, oil-lubricated screw compressors; optional variable speed

Specialised CompAir Modifications Designed for Australia's Mining Markets and Harsh Operating Environments

250kW, 1000V Oil-lubricated Screw Compressor

CompAir's locally modified L250 Oil Lubricated Compressor for 1000V Suitability is a great option for underground mining applications.

The modifications include:

- Door mounted visual load break isolator
- Door mounted motor overload reset for main and fan motor
- 1000V Motor Rewind
- 24Vdc power to the field solenoids
- 110V control wiring in grey (24Vdc available)
- Brass Gland Plate for mains cable entry to compressor
- Perspex Protection where required in the control panel
- All applicable safety signage and labels

High Ambient Motor Option

CompAir's high ambient motor option suits the harsh Australia environment with a 50degC (55degC option available) rated motor and a climate control unit within the electrical canopy (230V / 1PH / 50Hz supply required).

Dirty Environment Filtration

To suit all customer needs, we can offer high dust filtration in two options:

1. Dirty Environment Packs

These will protect the compressor enclosure from dust particles entering through the enclosure intakes using G4 rated, high dust capacity, washable filter media fitted within a galvanised steel mounting frame.

2. High Dust Intake Filtration

Locally retrofitted to suit the harsh Australian and mining dust, CompAir offer a high filtration intake filter to suit 30 - 290kW compressors. These filters offer two stage filtration in a single unit starting with a pre-cleaning drop tube, primary and safety filter for optimal dust removal to protect your compressor internals and extending compressor life.

Mine Spec Conversion Oil-lubricated Screw Compressor

CompAir offers a locally modified GD Standard Mine Spec Oil Lubricated L series compressor from 30kW through to 250kW

The modifications include:

- Door mounted visual load break isolator
- Door mounted motor overload reset for main and fan motor
- 24Vdc power to the field solenoids
- 110V control wiring in grey (24Vdc available)
- Brass Gland Plate for mains cable entry to compressor
- Perspex Protection where required in the control panel
- All applicable safety signage and labels

Engineered-to-Order Skid or Containerised Compressed Air Packages

When your application demands a highly customised compressed air solution - whether skid-mounted, undercover, containerised, or true plug-and-play - CompAir's dedicated team of project engineers is ready to assist. We specialise in designing and manufacturing complete compressed air packages tailored to non-standard operating requirements, ensuring each system is engineered and built precisely to your specifications, site constraints, and operational objectives.

Our engineered-to-order systems can be supplied on robust structural steel skids, with optional weather-protective roofing, or fully enclosed within purpose-designed containers for harsh or remote environments. Every package is carefully laid out with clearly defined air, condensate, and electrical interface points at the skid limits, enabling fast, seamless installation and straightforward integration into existing infrastructure on site.

At Gardner Denver, we recognise that no two applications are the same. That's why each solution can be adapted in detail - ranging from specialised mechanical and electrical designs to drive configurations, control system modifications, and environmental engineering for extreme temperatures, dust, noise, or corrosive conditions. Supported by a wide range of optional features and custom enhancements, our compressed air packages are built to deliver reliable, efficient performance while aligning perfectly with your operational, safety, and maintenance requirements.

CompAir Portable Compressors Designed for the Most Demanding Conditions.

High-precision construction projects demand that the efficiency and reliability of compressors is of the highest calibre. CompAir offers a wide range of portable compressors, with a reputation within the industry for just that – compressors that meet the requirements of numerous mobile compressed air applications.

The C-Series from CompAir is constantly evolving and guarantees high energy efficiency, low emissions and many other innovations, which make daily operations and maintenance tasks much easier.

Additional C-Series Mining Options Include:

- Minsup Safety Whip Check
- Battery and Starter Isolator
- Emergency Stop
- Mounted Spare Wheel
- 20m Hose Reel
- Beacon Light for mining
- Fire Extinguisher
- Exhaust Lagging
- Fire Suppression System
- Crash Bar
- Spark Arrestor
- Pressure Relief Radiator Cap
- 12V Jump Start Anderson Plug

A clean solution – for the environment too!

Compressed air treatment from CompAir stands for clean, high-quality compressed air in accordance with ISO 8573-1:2010 – independently tested and certified in line with ISO 12500-1, and produced in an energy-efficient, low-emission manner.

Only lets through what is allowed to pass

Compressed air treatment from CompAir

An Effective Downstream System

Another way to maximize your air quality is by having an effective, reliable downstream system in place to ensure you are producing clean, dry air at a steady pressure!

This consists of 3 components:

Dryers:

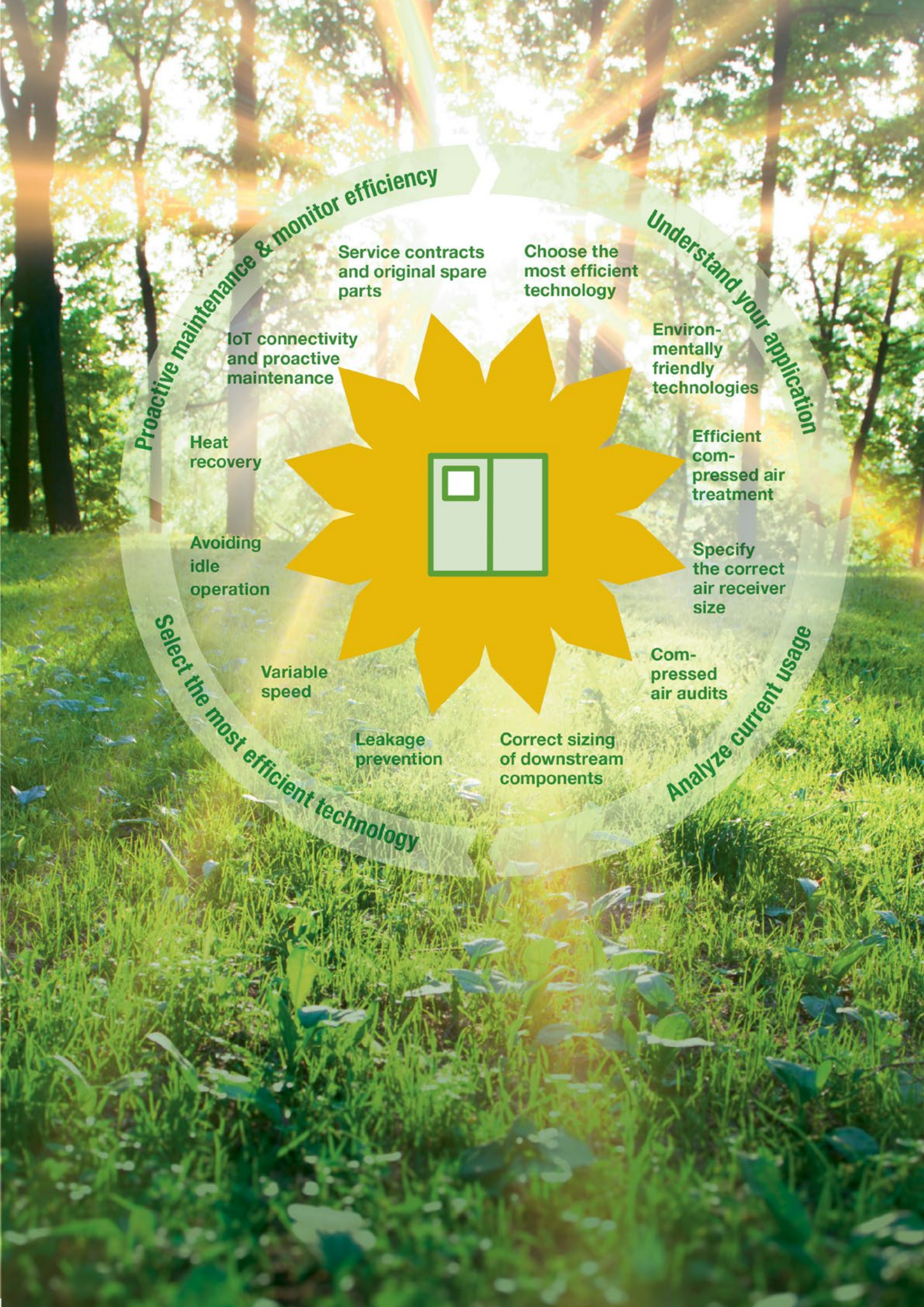
To prevent downtime and equipment degradation, an efficient compressed air dryer is essential, as it helps to remove moisture from your compressed air. There are a range of dryers on the market, including refrigerant, which are better suited for general applications, and desiccant, which offer ultra-dry, high-quality compressed air at a lower pressure dew point. Due to the heavy pneumatic and conveyance tools used for the mining industry, dryer due to its effectiveness at removing moisture and producing ultra-dry air! This is important to ensure workplace safety and prevent rust and corrosion from damaging your equipment, which could potentially lead to health and safety breaches.

Filtration System:

A filtration system is an essential part of any downstream or air treatment solution, as it helps to remove contaminants and impurities such as oil, dust and moisture. This is essential, particularly for worker safety, as the mining industry deals with a lot of harmful chemicals! It is also important to ensure the consistent production of clean, dry, high-quality air for all of your mining processes and applications.

Condensate Management & Treatment:

The last element of an effective downstream system is a condensate management unit. This is an essential part of your compressed air set-up, as condensate is a natural by-product of compressing air. Typically, the best way to deal with condensate is by installing into an oil water separator, which will separate it out before removing it from your system. An oil water separator is a fundamental piece of kit when managing condensate, as it ensures it is correctly removed from your system in a way that adheres to strict industry regulations. The removal of condensate is also essential to ensure that the air that you use to power your pneumatic and conveyance equipment is of a high quality, helping to prevent equipment downtime!


Proactive maintenance & monitor efficiency
Service contracts and original spare parts
IoT connectivity and proactive maintenance
Heat recovery
Avoiding idle operation
Variable speed
Leakage prevention
Select the most efficient technology
Correct sizing of downstream components
Compressed air audits
Analyze current usage
Specify the correct air receiver size
Efficient compressed air treatment
Environmentally friendly technologies
Understand your application
Choose the most efficient technology

CompAir

SUSTAINABLE MANUFACTURING

Innovation & Engineering Excellence

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