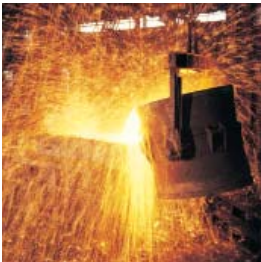
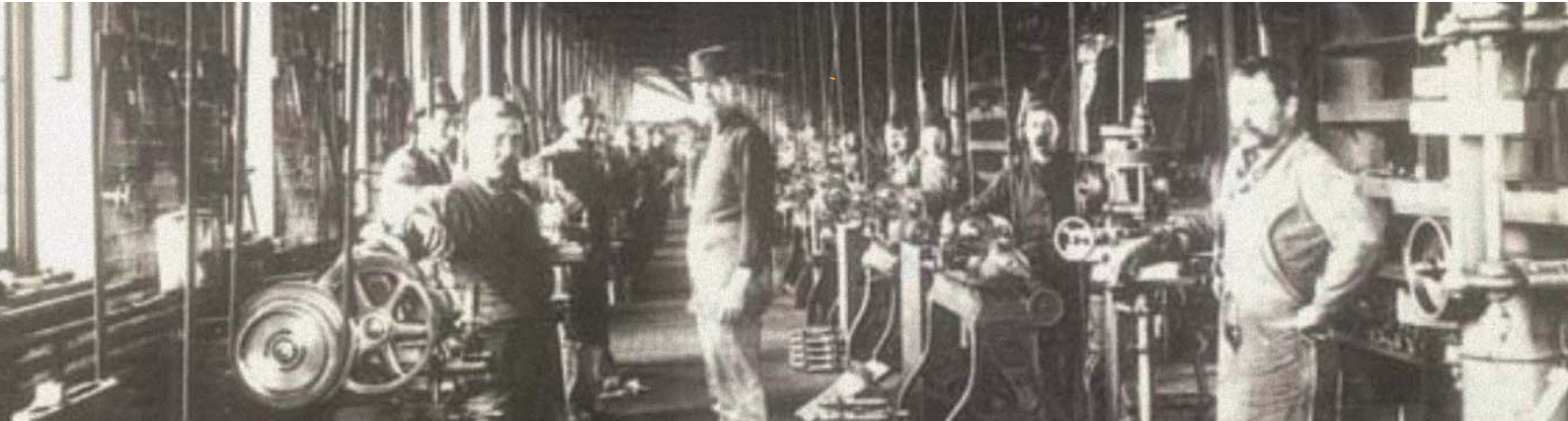


**Gardner**  
**Denver**

**Product Guide**  
**Compressor Blower & Vacuum Solutions**



# 150 Years of Innovation



Established for over 150 years, Gardner Denver is one of the world's leading manufacturers of compressed air and gas, vacuum and fluid transfer technologies.

The Gardner Denver and CompAir brands are both well established in Australia and New Zealand. Having earned a reputation for providing solutions, delivering exceptional value, reliability and performance to all levels of industry.

The broader Gardner Denver product family extends our capabilities

even further. Providing an unrivalled range and variety of industry leading products, each with their own established reputation for value reliability and performance.

Leading the way with global expertise, fast, responsive locally based service and an unrivalled range and variety of industry leading products. With Gardner Denver your business will achieve even greater success through a dedicated partnership with the industry leader in compressed air technology.

# The Gardner Denver Family

**AIR DRIVE**

**Air Relief**

**BellissMorcom**

**BOTTARINI**

**CHAMPION™**

**CompAir**

**DRUM**

**Elmo  
Rietschle**

**EMCO WHEATON**

**GD**  
GARDNER DENVER

**HOFFMAN**

© hydrovane

**ILMVAC**

**LAMSON**

**MAKO**

**NASH**

**OBERDORFER PUMPS**

**PRIESTMAN**

**Reavell**

**ROBUSCH®**

**THOMAS**

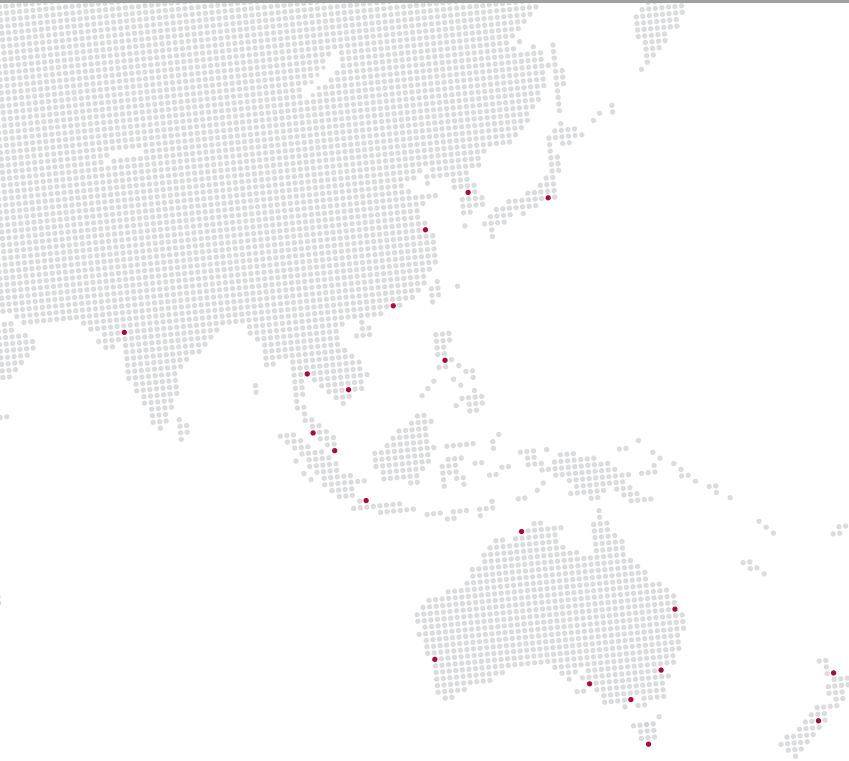
**TODO®**

**WEBSTER DRIVES**

**WELCH**

**WITTIG**

# Asia Pacific Locations

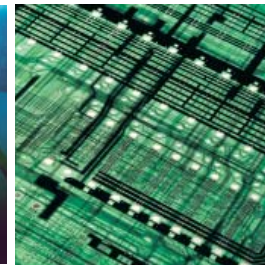
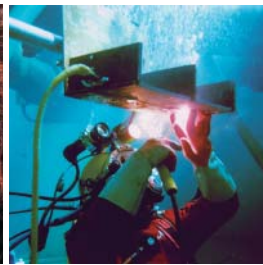


With locations in 34 countries, Gardner Denver is strategically positioned to support its customers anywhere in the world.

Our presence is equally strong across the Asia Pacific region, where we provide local representation and support in 12 countries and territories including;

- Australia
- China
- Hong Kong
- India
- Indonesia
- Japan
- Malaysia
- New Zealand
- Philippines
- Singapore
- South Korea
- Thailand
- Vietnam

# Industries Served



# Contents

<b>Section</b>	<b>Page</b>
Compressors	7
Blower and Vacuum Pumps	15
Engineered Products	18
Air Treatment	22
Controls and Accessories	25
Pneumatics	27
Transport Products	28
Dry Break Couplings	29
Service	30
Extended Warranty	32
Spare Parts	35
Airnergy Analysis	36
Locations	38

## Oil Injected Rotary Screw

Our extensive range of Oil Injected rotary screw compressors incorporate the very latest technological advances and manufacturing processes. All compressors are designed with high output compression elements with slow rotational speed to reduce energy usage and increase reliability.

Sized to suit the required output all can be supplied with either a fixed or variable speed drive system ensuring volume flow can be precisely controlled to meet demands



## Rotary Vane

Rotary Vane compressors are ideal for small to medium sized installations such as automotive repair centres, mobile breakdown/ service vehicles, tyre dealers, customisation centres and paint spraying, where a low noise level is required and a constant supply of air. In most applications there is no necessity for an air receiver, giving the unit a very small footprint and a significant advantage where space is of a premium.

Available with Fixed and Variable Speed Drives as well as Diesel and Hydraulic Drive versions.



# Compressors - Oil Flooded

## BLG Series Rotary Screw

Industries, both large and small, rely on Gardner Denver rotary screw compressors for a supply of constantly high quality compressed air.

Renowned for their reliability and performance, the BLG Series rotary screw compressor range suit a wide range of applications offering;

- High quality air end for maximum efficiency
- Easier maintenance access with improved design
- Efficient power delivery with low noise level
- Smart air controller to meet your changing system demands
- Optimal package for maximum durability
- Simplified maintenance means lower servicing costs
- Air cooled as standard and available with optional water cooling



## Water Injected Screw

An innovative range of water injected, oil free screw compressors featuring high efficiency and low speed, low temperature reliable operation.

- 15 to 110 kW
- 5 to 10 bar g
- 2.5 to 18.5 m<sup>3</sup>/min
- Fixed and Variable Speed
- 100% Oil Free



## Two Stage Screw

A proven and robust range of oil free screw compressors covering a broad range of industrial applications.

- 75 to 275 kW
- 4 to 10 bar g
- 11 to 42.6 m<sup>3</sup>/min
- Fixed and Variable Speed



# Compressors - Oil Free

## High Speed Centrifugal

Market leading and innovative technology incorporating high speed centrifugal compression and non contact magnetic bearings delivering premium efficiency and low total cost of ownership.

- 150 to 300 kW
- 5 to 8 bar g
- 26 to 52 m<sup>3</sup>/min
- Variable Speed
- 100% Oil Free
- No Gearbox, No Contact, No Wear!



## Integrally Geared Centrifugal

A range of integrally geared, oil free centrifugal machines for high efficiency across a wide range of industrial air and gas applications.

- 300 to 4,350 kW
- 4 to 20 bar g
- 50 to 780 m<sup>3</sup>/min



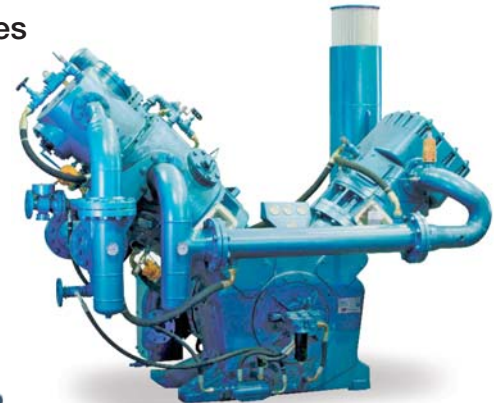
## Direct Drive Reciprocating

GD Belliss & Morcom oil free direct drive reciprocating compressors for PET bottle blowing are designed to ensure decades of reliable operation in all operating environments. Exceptional performance and low power consumption are provided in the most cost-effective solution, absolutely essential in today's demanding PET bottle blowing applications.

With over 25 years experience of supplying oil free compressors specific to the PET bottle blowing Industry, GD Belliss & Morcom have taken the opportunity to enhance and improve the existing product range to clearly identify the way forward and set the standard for reliable cost effective plant operations.

Applications for these compressors include PET, Wind Tunnels, Wet Air Oxidisation, Autoclave Charging, Engine Starting, Hydro Turbine, Filter Flushing, Surge Protection, Pressure Testing, Industrial Gases.

### V-Series



### W-Series

# Compressors - High Pressure

## High Pressure Technology

High compression air & gas technology for a diverse and varied range of applications. Wherever high compression technology is used, our solutions are never far away. Fire and Rescue, Aerospace, Deep Sea Diving, Engine Starting, Autoclave Charging, Surge Suppression, Natural Gas, Bio Methane, Coal Seam Methane.

Gardner Denver is ideally positioned to support the most demanding of applications, with air and water cooled units available for pressures from 15 bar to 414 bar from our standard production range.



## Portable Compressors for Any Application

The smaller range designed to be towable by a standard sedan, featuring the option of an integrated generator, is ideally suited to working in cities and built up area's where stringent restrictions are placed on noise emissions.

The mid range unit was conceived for the tough demands of the building and construction industries. Designed for durability, reliability and efficiency no matter where you're working.

The larger TurboScrew range feature bi-turbo technology dramatically increasing efficiency and making them the leader in their class offering exceptional fuel economy.

With working pressures up to 14 bar and factory fitted aftercoolers. These compressors out perform the competition, with tough and reliable operation for the most demanding of industries.



- Water well drilling
- Geothermal drilling
- Ship refurbishment
- Oil-barrier
- Construction
- Pneumatic lancing
- Dry ice blasting / sand blasting
- Ground exploration
- Earth loosening work

# Compressors - Light Industrial

## Compressors for workshop and light industrial applications

This range of industrial quality reciprocating air compressors has been designed to Australian specifications and built by factory trained technicians. All units feature slow revving cast iron compressor pump and oversized AS1210 certified pressure vessels. Performance rating determined in accordance with AS4637.

Models available with 3 Phase and Single Phase electric motors, Honda Petrol or Yanmar Diesel.



## Industrial Blowers & Vacuum Pumps

Gardner Denver is recognised globally as an industry leading supplier of positive displacement and centrifugal blowers, low pressure compressors and vacuum pumps. With brands like Elmo Rietschle, Sutorbilt, Wittig, Duroflow to name a few. Gardner Denver can supply a solution for almost any application.

### Liquid Ring

10 to 600 m<sup>3</sup>/hr  
Pressure to 2.6 bar  
Vacuum to 33 mbar A



### Radial

135 to 3400 m<sup>3</sup>/hr  
Pressure to 125 mbar  
Vacuum to -115 mbar



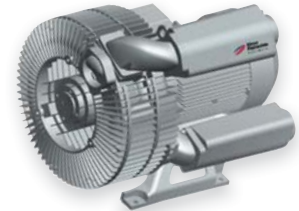
### Claw

60 to 1200 m<sup>3</sup>/hr  
Pressure to 2.2 bar  
Vacuum to 60 mbar A



### Side Channel

16 to 1850 m<sup>3</sup>/hr  
Pressure to 1 bar  
Vacuum to 200 mbar A



### Rotary Vane

10 to 6000 m<sup>3</sup>/hr  
Pressure to 10 bar  
Vacuum to 0.1 mbar A



# Blowers & Vacuum Pumps

## Screw

80 to 720 m<sup>3</sup>/hr  
Vacuum to 0.05 mbar A



## Biogas Blowers

60 to 10,000 m<sup>3</sup>/hr  
Pressure to 1.52 bar



## Lobe

130 to 23,700 m<sup>3</sup>/hr  
Pressure to 1.38 bar  
Vacuum to 200 mbar A



## High Speed Centrifugal

82 to 14,500 m<sup>3</sup>/hr  
Pressure to 1.5 bar



## Engineered Vacuum Systems

Developed with a modular design principle that enables the modification of any unit to meet individual specifications and a wide variety of applications;

- Food packaging
- Chair lift
- Dentistry
- Medical vacuum
- Steam sterilization (autoclaving)
- Technical and medical respiratory devices
- Continuous or on demand systems
- Non-pulsating vacuum
- Choice of wet or dry vacuum pumps
- Packaged systems ready to install



## Custom Built Packages

CompAir has experienced and skilled personnel and fully equipped workshops enabling us to deliver high quality, engineered and packaged solutions. Whether it is modifications to our standard range or complete solutions designed and fabricated from the ground up, we can satisfy the most demanding customer specifications.

- A broad range of electrical and mechanical modifications.
- Provision of complete skid packages incorporating compression and air treatment equipment.
- Customer specific control and communication solutions.
- Solutions to meet specific industry design standards.
- Customer site turnkey solutions incorporating professional and quality assured project management.



*GD Blower Package - Skid mounted*

- 5CDL9P Cycloblower
- 800 m<sup>3</sup>/hr air delivery @ 200 kPa
- Cyclonic suction filter & discharge silencer



*CompAir Airstation - Skid mounted*

- L15 Compressor
- F36C Refrigerant drier
- 270 L Receiver



*APA Gasnet Compressor Skid*



*Central workshop facilities*



*Boral CNG Refuelling Station*



*OneSteel Rod & Bar Mill Newcastle*

## Hazardous Area Equipment

As a part of the Gardner Denver global network, we have the knowledge, experience and technical resources to deliver high performance hazardous area technology, for fixed and mobile offshore and industrial applications. With an extensive range of products capable of delivering air and gas from vacuum to 414 bar;

- Oil free and lubricated screw compressors
- Centrifugal compressors
- Reciprocating compressors
- Diesel driven compressors
- Positive displacement blowers
- Centrifugal blowers
- Vacuum pumps

Each one of our units is manufactured without compromise, using exacting tolerances, materials of the highest quality and the highest engineering standards. Producing tailor made packages to meet your specific design requirements and standards. Built to handle even the harshest and most hostile environments.

Our products are backed by our global service support network, to meet your service requirements throughout the life cycle of your equipment, no matter where in the world you are. Our ability to provide an effective maintenance program for your high compression systems not only ensures uninterrupted service, but provides the additional security of scheduled maintenance services, ensuring your capital investment delivers for years to come.



## Hazardous Area - Engineered Products



# Air Treatment Products

A comprehensive range of modern, innovative and reliable equipment designed for removal of moisture, oil, odour and taste from compressed air and inert gases.

These efficient and environmentally friendly products meet international standards including ISO 8573. Equipment includes:

- Refrigerated dryers
- Adsorption dryer packages
- High efficiency filtration
- Condensate oil water separators



*Filters*



*Refrigerated dryers*



*Desiccant Dryers*



*Condensate oil water separators*



# Air Treatment Products

## Air Receivers

Every compressed air system benefits from the inclusion of valuable storage capacity be it upstream or downstream of the air treatment equipment. They provide pressure stabilization, aid in moisture removal and assist in the control of the compressor load cycle.

Available in a complete range of volumes and pressures to suit all applications, manufactured to either local or international standards in vertical or horizontal configuration.



## SmartAir Master

The SmartAir Master can intelligently control up to 12 compressors of any combination, fixed or variable speed, and will reduce energy consumption by tightening the network pressure to the smallest possible band, keeping off load running to the absolute minimum.

- Profile Programming
- System Demand Control
- Data logging
- Visualisation



The extremely user-friendly and fully self-explanatory large colour graphics display with touch screen gives you a quick overview of the compressed air supply and connected compressors at any time.

The SmartAir Master displays useful information such as;

- Network pressure, pressure range and compressed air consumption.
- Individual status display of each compressor connected.
- Fault and warning messages for each compressor are listed along with the exact time and date in plain text in the fault memory.
- Network pressure and volumetric flow diagrams can be accessed.
- Bar charts of operating and load hours for every individual compressor.
- Up to 17 different language settings are available.



## Air Relief's TurboLogix

The TurboLogix is Air Relief's latest compressor control product. Standard features include start/stop sequencing, compressor surge control, motor overload protection and typical operational protection.

The TurboLogix offers historical data trending and event logging to aid the user in troubleshooting, machine setup and tuning.

Based on standard Allen-Bradley PLC hardware and a large user friendly color operator interface, makes the TurboLogix the best choice for complete machine control and protection.

- NEMA 4X enclosures
- Special enclosures (sizes and materials)
- Outdoor service kits with heaters and sunshades
- 12" and 15" operator interfaces upgrades
- ControlLogix PLC upgrades
- SLC 500 system upgrades
- Multiple PLC Platform Support (Modbus, GE, Etc.)
- Ancillary device starters, contactors and power disconnects
- Uninterruptable power supplies
- Circuit breaker control and interfaces
- Z-Purge systems
- Special communication interfaces

## Pneumatic Valves & Accessories

CompAir offers a wide range of pneumatic valving and accessories at very competitive pricing, ruggedly constructed with unmatched reliability.



AZ Pneumatic Valves

## Air Service Equipment



## P.E. Valves



## Stainless Steel Filtration and Valving



## Transport Equipment

A long history of delivering a wide range of standard and special application products, has established Gardner Denver as a well known partner in the transport industry. Renowned for providing quality products for;

### Liquid Transfer

- Compressors
- Vacuum pumps
- Cargo pumps

### Dry Bulk Transfer

- Blowers
- Compressors
- Rotary valves

### Air Power

- Trains, trams & buses
- Maintenance & utility vehicles



## TODO-MATIC® Couplings

For over 30 years, major offshore exploration, chemical, pharmaceutical and petrochemical companies have relied on TODO-MATIC® couplings to safely transfer aggressive or high value products.

Designed for safe and easy use with minimum operator intervention. TODO-MATIC® couplings offer an unbeatable combination of technical, safety and performance features.

Available in sizes from 1" to 6" with a wide range of material options, TODO-MATIC®

Dry-Break® couplings offer advanced fluid handling solutions for a diverse range of industries.



# After Market - Service

## Dependable service

Downtime? It's a word we know no business wants to hear. With 20 strategically located facilities across Australia and New Zealand. Our team of over 60 factory trained service technicians are on call 24 hours a day 365 days a year to maintain your investment and keep your equipment providing trouble free service year after year.

- Larger in-house projects supported by the major national workshop and testing facilities
- Supported by focused, highly trained local service personal
- Directly linked to Gardner Denver's 30 global manufacturing facilities

## Complete service solution

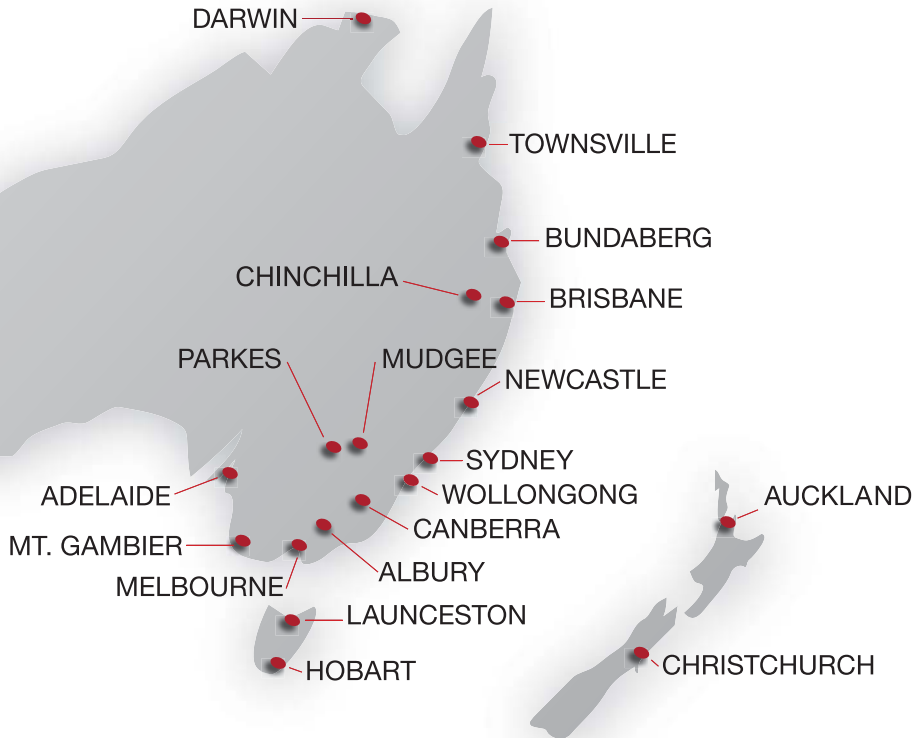
With the experience, knowledge and support of our local and global networks offer. We also provide a complete service solution for a wide range of equipment from other manufacturers including, Atlas Copco®, Ingersoll Rand®, Centac®, Cooper®, Sullair®, Joy®, Elliott®, Clark Isopac®, Worthington® and many more. With direct access to Gardner Denver's own Air Relief® range of high quality new and remanufactured replacement parts provided with full 12 month factory backed warranty.

PERTH 

**24/7 National Hotline 1800 634 077**

Gardner Denver Inc. and Air Relief Inc. are in no way affiliated with Ingersoll-Rand, Cooper Turbo, Elliott, Atlas-Copco, Clark, or Worthington. Other products mentioned are registered trademarks of their respective companies

## After Market - Service



# After Market - Extended Warranty

## CompAir Assure

A completely FREE, simple and flexible NEW 44,000 hour / 10 Year warranty available with all new CompAir rotary screw compressors.

We believe that the ASSURE WARRANTY represents a major step forward in compressor warranty, delivering the highest levels of service quality to the owners of new CompAir machinery.

### Assure Warranty

- Total package warranty for 10 years or 44,000 hours.
- Free of charge – No premiums to pay.
- Planned maintenance schedules – Maximum production.
- Known revenue costs – No unexpected repair bills.
- Simple to join with minimum administration.

### New Compressor Installations

- Purchase a new oil injected rotary screw compressor from CompAir.
- Have the installation approved by CompAir.
- Enter into a service agreement with CompAir.
- Commit to the recommended service schedule as advised by CompAir.
- Use genuine parts and lubricants for service
- Register for the CompAir Assure warranty program.



## CompAir Advance

Specific to our Rotary Vane compressor range the CompAir Advance extended warranty program guarantees prompt, expert, after-market service, for the lifetime of the compressors for up to 10 years.

### Key Benefits

- Lifetime guarantee on blades.
- Total package warranty for 10 years or 48,000 hours.
- Free of charge – No premiums to pay.
- Planned maintenance schedules – Maximum production.
- Known revenue costs – No unexpected repair bills.

### Customer Requirements

- Purchase a new Hydrovane compressor from CompAir.
- Have the installation approved by CompAir.
- Enter into a service agreement with CompAir.
- Commit to the recommended service schedule as advised by CompAir.
- Use genuine Hydrovane parts and lubricants for service.
- Register for the CompAir Hydrovane Advance warranty program.

### Hydrovane Commitment

- An appropriate service package will be agreed.
- Fully trained, qualified technicians will be used.





### Engineered Service Solutions

The complete on-site preventative maintenance solution for your compressed air equipment.

It's more than a service contract – AirCover is a pro-active monitoring and preventative maintenance program that will extend the life of your compressed air equipment and offset costly breakdowns.

Your compressed air equipment is essential for your business success - you rely on it to give trouble free operation. We know your equipment inside out - and with CompAir AirCover, we will ensure that it keeps performing to its optimum level.

Investing in high-quality preventative maintenance is a sound business decision.



### Check the benefits of AirCover.

- National and Regional after-market team ready to respond to your needs
- No mileage charges
- Up to 10 year warranty program for new equipment
- 24 hour emergency breakdown service, 7 days a week
- Discount on all parts and labour
- Fixed pricing to allow you to manage your budget
- Tailored maintenance plans to suit your requirements
- Downstream pneumatic equipment included



## 24 / 7 Spare Parts

With immediate access to our inventory comprehensive spare parts range held at our Central Melbourne Warehouse and fast access to our world wide spare parts network. We can provide you with prompt and reliable access to the parts you need, when you need them. Just call our 24/7 spares hotline on 1800 634 077.

Products supported include:

- Compressors
- Vacuum pumps
- Blower CF and PD
- TODO couplings
- Emco Wheaton loading arms
- CNG refueling compressors and dispensers

## Compressed Air Airnergy analysis for carbon conscious industry

With increasing energy costs a fact of life for business, and carbon and emissions levies and taxes a looming reality. The performance and efficiency of your compressed air systems have never been more important. Potential energy savings not only reduce the environmental impact of your business, they also return money to your bottom line.

The CompAir Airnergy Analysis will help your business meet the requirements of the Energy Efficiency Opportunity Act 2006 in conjunction with the National Greenhouse and Energy Reporting (NGERS) Act 2007.

### System Audit Pay Backs

- Meet benchmarks for State and Federal grant assistance.
- Identify and manage reductions in power use and CO<sup>2</sup> Emissions.
- 30% + energy savings on compressed air usage.
- Typical payback outcomes 1-2 years.
- Reduce over capitalisation of equipment, either due to upgrading or expansion.



*use our energy to save yours*

## Airnergy analysis process

### A comprehensive audit

- "Total Systems Integration Approach" . and Systems Dynamics.
- Demand Side Flow Analysis (end use).
- Supply Side Flow Optimisation.
- Full measurement of:
- Power absorbed including Power Factor.
- Actual Flow rates via non intrusive measurement.
- Pressure, and Dew Point (where relevant).

### A leak management plan

- Leak detection, grading and costing.
- Leak correction recommendations.
- Leak tracking (data management for repeat surveys).
- Integrated reporting.
- Site basis.
- Targeting of maintenance upgrades.

### Detailed system report & analysis

- Flow demand characterisation and optimisation
- Compressed Air Distribution Summary
- Comprehensive list of Compressed Air Solutions

- Risk Assessment
- Cost Savings Summary
- Recommendations and Conclusions
- Ongoing plan to reduce energy costs
- Deliver independently assessed and compiled reports

## Airnergy Savings

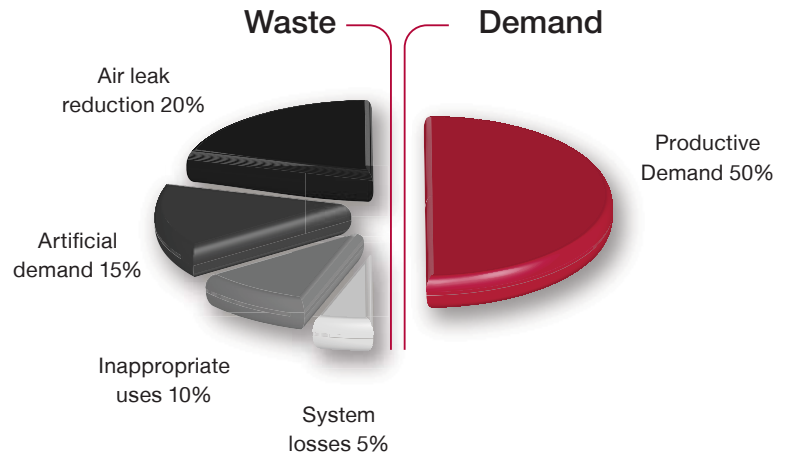
A thorough Airnergy analysis can commonly result in energy savings of up to 30%. However in utilising our detailed demand side auditing and analysis process, we have been able to achieve savings of up to 50% in some installations.

10 to 20% of savings are commonly found on the supply side

- Technology & controls
- Maintenance
- Installation issues

20 to 30% savings are commonly found on the demand side

- Compressed air leaks
- Artificial demand
- System dynamics



# Locations

## Head Office

### Melbourne

13 - 17 Progress Street  
Dandenong South Vic 3164  
Australia  
Ph: +61 3 9212 5800  
Fx: + 61 3 9792 0274

## New South Wales

### Sydney

30 Bearing Road  
Seven Hills NSW 2147  
Ph: 02 9620 7000  
Fx: 02 9620 7955

### Newcastle

Unit 1, 93 Glenwood Drive  
Thornton NSW 2322  
Ph: 02 4964 4230  
Fx: 02 4964 4185

### Parkes

100 Clarinda Street  
Parkes NSW 2870  
Ph: 02 6863 5866  
Fx: 02 6863 5899

### Wollongong

5-7 Shaban Street  
Albion Park Rail NSW 2527  
Ph: 02 4256 0245  
Fx: 02 4256 0215

## Northern Territory

### Darwin

Shed 2, 85 Winnellie Road  
Winnellie NT 0820  
Ph: 08 8947 4449  
Fx: 08 8947 4446

## Queensland

### Brisbane

Unit 5, 17 Boniface Street  
Coopers Plains Qld 4108  
Ph: 07 3276 4000  
Fx: 07 3875 1529

### Chinchilla

Units 1&2, Lot 20, 4 Dwyer Court  
Chinchilla Qld 4413  
Ph: 1800 634 077

### Bundaberg

Shed D, 96 Mount Perry Road  
Bundaberg North Qld 4670  
Ph: 07 4151 4066  
Fx: 07 4151 1440

## Townsville

11 Catalyst Court  
The Bohle Qld 4818  
Ph: 07 4774 8392  
Fx: 07 4774 6602

## South Australia

### Adelaide

Lot 20 Kenworth Road  
Gepps Cross SA 5094  
Ph: 08 8359 9953  
Fx: 08 8349 4921

### Mt Gambier

7 Blackwood Street  
Mt Gambier SA 5290  
Ph: 08 8723 6869  
Fx: 08 8723 6846

## Tasmania

### Hobart

Unit 1, 59-63 Chapel Street  
Glenorchy Tas 7010  
Ph: 03 6272 9977  
Fx: 03 6272 9856

## Victoria

### Melbourne

13 - 17 Progress Street  
Dandenong South Vic 3164  
Ph: 1800 634 077  
Fx: 1800 638 854

### Wangaratta

Oxley Vic 3678  
Ph: 1800 634 077

## Western Australia

### Perth

7 Winton Street  
Kewdale WA 6105  
Ph: 08 9352 6100  
Fx: 08 9353 1057

## New Zealand

### Auckland

Gardner Denver New Zealand  
40 Anvil Road Silverdale  
Auckland 0932  
Ph: 09 426 0370  
Fx: 09 426 0371  
Free Phone: 0800 822 786

### Christchurch

Gardner Denver New Zealand  
1/8 Export Avenue  
Harewood 8051  
Ph: 03 359 0370  
Fx: 08 326 0371  
Free Phone: 0800 800 370

# **Gardner** --- **Denver**

**Gardner Denver Industries Australia Pty. Ltd.**

13-17 Progress Street, Dandenong South Vic 3174

Ph: 03 9212 5800 Fx: 03 9792 0274

[www.gardnerdenver.com.au](http://www.gardnerdenver.com.au)