



**INDUSTRIAL**



[www.candl.ie](http://www.candl.ie)



## **C&L INDUSTRIAL LTD.**

### **A BETTER CUSTOMER SERVICE**

Established in 1998 C&L specialises in the sale, installation and service of a range of quality industrial products. Industry knowledge and expertise are guaranteed with key personnel contributing some 30 years of industry experience and know-how to the business.

C&L provide a genuine Nationwide Network of professional sales and service centres servicing all industry sectors.

You will find that C&L work with some of the most prestigious companies due to the high quality and reliability of equipment supplied, the efficient service provided and overall value for money ensured.

C&L is rapidly becoming the preferred supplier for many industrial equipment buyers!





### Nationwide Sales & Service Centres

The C&L sales and service centres are located strategically around the country to ensure a truly local response.

C&L offer a total service support package including;

- Design
- Installation
- Consultancy
- Compressor Servicing; repairs & maintenance
- On-Site workshop facility
- Hire
- Energy Management
- Testing of Compressed air - Breathing Air - N2 Nitrogen Gas



### Design

C&L provide a design service that ranges from the design and layout of the installation of a compressor(s) to a plant room to designing an airline system(s) layout.

### Installation

An installation service is available for the installation of air compressors and equipment as well as airline systems.



### Aluminium airline systems

The airline system is a critical element within a compressed air system.

Using only quality aluminium pipin and airtight connectors, our modern system is corrosion resistant and reduces the pressure drop compared with airline systems made up of traditional materials.

This advanced system is also quick and easy to install, requiring no welding. And, a wide range of connectors and piping diameters ensures a bespoke system can be designed.

# The world leaders in compressor technology



## WATER-INJECTED SCREW COMPRESSORS

Atlas Copco's AQ water-injected screw compressors, available in water-cooled and air-cooled versions, meet your precise needs for pure, oil-free air while offering high-pressure capability and improved energy efficiency.

Developed especially for applications demanding the highest levels of purity, such as pharmaceutical production, food processing and critical electronics, AQ compressors eliminate the risks of oil contamination as well as the resulting extra costs.

They ensure consistent 100% oil-free air while you benefit

from lower operating and maintenance costs with an ISO 8573-1 CLASS 0 (2010) certified compressor.



## OIL-FREE SCROLL COMPRESSORS

Atlas Copco's SF oil-free scroll compressors provide 100% oil-free for critical applications in industries such as R&D laboratories, hospitals, universities, dental applications, food & beverage.

These ISO 8573-1 CLASS 0 certified compressors are easy to operate and maintain, and have a minimal footprint to save space in your facility.

SF compressors eliminate the risks of oil contamination while providing an efficient, reliable and cost-effective source of pure oil-free air.



## OIL-FREE ROTARY TOOTH COMPRESSORS

Atlas Copco's ZR/ZT oil-free rotary tooth compressors meet your needs for pure oil-free air while offering wide pressure ranges and improved energy efficiency.

Developed especially for applications demanding the highest levels of purity, such as pharmaceutical production, food processing and critical electronics, ZR/ZT compressors eliminate the risks of oil contamination as well as the resulting extra costs.

These ISO 8573-1 CLASS 0 certified compressors are easy to operate and are available with Variable Speed Drive for further energy savings.



### OIL-COOLED ROTARY SCREW COMPRESSORS

Atlas Copco's GA VSD+ range brings a game-changing innovation to the general industry. The GA 7-37 VSD+ variable speed drive compressor reduces your energy consumption by a staggering 50% on average, compared to idling compressors. At the same time it offers improved performance, silent operation (down to 62 dB(A)) and a compact footprint, thanks to its vertical drive train design.

The heart of the GA VSD+ is an interior permanent magnet motor, directly coupled to Atlas Copco's best-in-class screw element: all of which have been in-house designed and have patents pending. All these benefits make the GA VSD+ the compressor of the future, setting a new standard in the industry for years to come.



### OIL-INJECTED ROTARY SCREW COMPRESSORS

Atlas Copco's oil-injected rotary screw GA compressors are leaders in the market, with outstanding reliable performance.

Their flexible operation results in the highest productivity, while minimizing the total cost of ownership. GA compressors are available in three series - GA, GA+ and GA VSD - enabling you to perfectly match your requirements for compressed air solutions.

Built to perform even in the harshest environments, these products will keep your production running efficiently.



### OIL-INJECTED ROTARY SCREW COMPRESSORS

Atlas Copco's oil-injected rotary screw compressors are leader in the market thanks to outstanding performance and flexible operation. This results in the highest productivity while minimizing the total cost of ownership.

GA compressors are built to perform even in the harshest environments; these products will keep your production running smoothly.





## Atlas Copco Vacuum Pumps

The GHS 350-900 VSD+ Series is a range of newgeneration, intelligent, oil-sealed rotary screw vacuum pumps with Variable Speed Drive (VSD) technology from Atlas Copco. Based on the well-known and durable plug-and-play design principles of Atlas Copco compressors, these vacuum pumps have been designed by vacuum engineers to deliver peak performance at your operating pressure.

These unique products offer:

- Superior performance against benchmarked oil-sealed and dry vane vacuum pump technologies.
- Increased efficiency – State-of-the-art screw technology, Variable Speed Drive (VSD) and innovative motor design combine to produce a leap forward in efficiency.
- Quiet operation – Noise levels are around half that of comparable technologies.
- Sustainable productivity thanks to built-in efficiency.
- Reduced environmental impact due to ultra-high oil retention at all operating pressures.



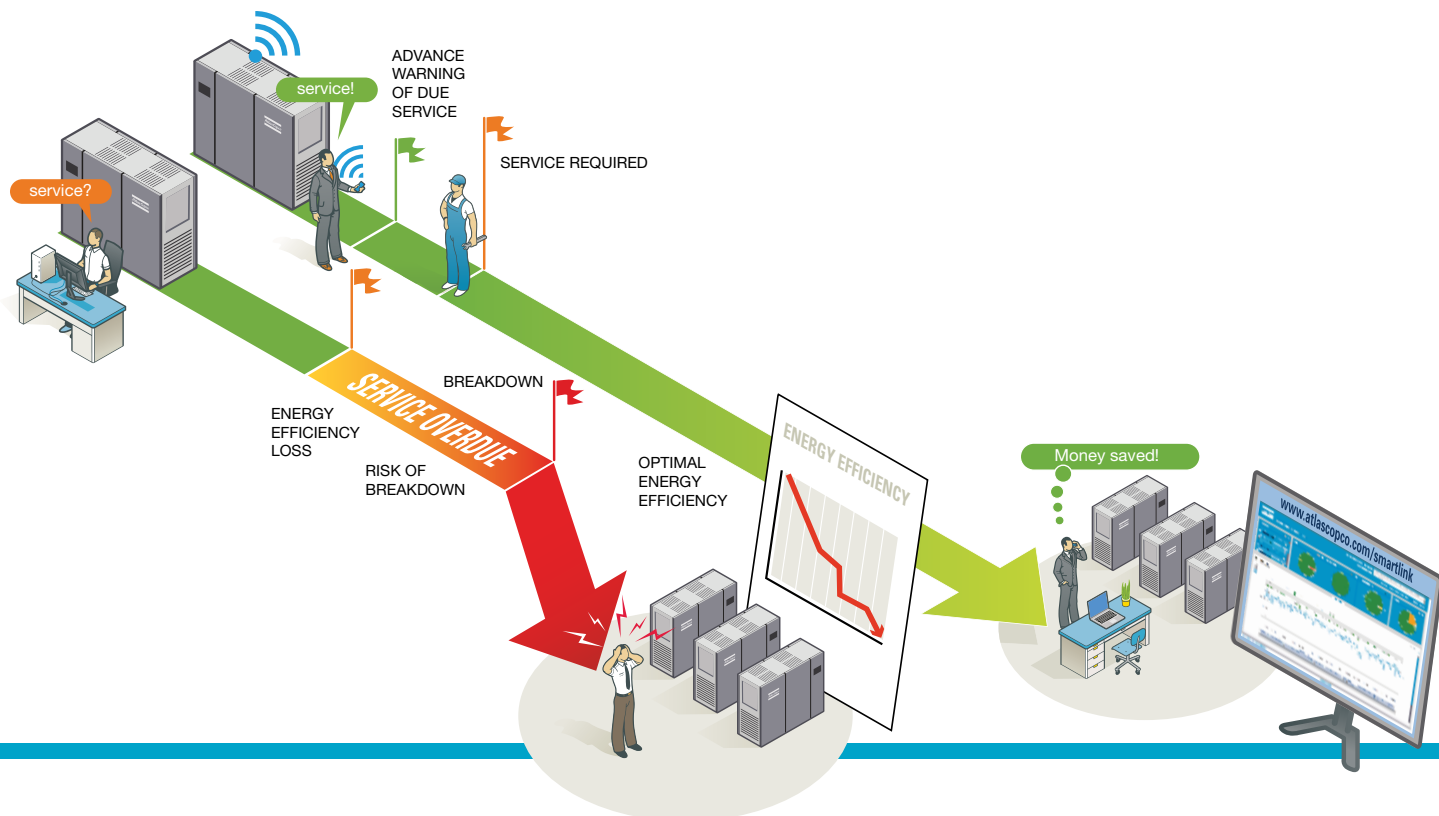
### ELEMENT

- Highly efficient oil-sealed rotary screw.
- Outstanding performance.
- Robust design.
- Element life is significantly longer than screw compressors and vane pumps.



### ELEKTRONIKON® MONITORING SYSTEM

Elektronikon® is a state-of-the-art monitoring system for your vacuum pumps. It is simple and comprehensive, and leads to energy savings. It can also integrate your plant management system thanks to a remote monitoring option.



## SMARTLINK

Imagine what it would mean to your business to always be one step ahead; to do away with all your production uncertainties; to actually learn from your activities.

Not only would you save precious time in being pro-active, you would certainly impact your bottom line too, not having to react when something happens... because nothing does.

That's exactly what Atlas Copco's **SMARTLINK** is all about: an easy-to-install, efficient-to-monitor, easily tailored compressor monitoring program.

It offers your company a complete insight of your compressed air production. It helps to predict potential problems – and thus anticipate them; it shows how and where the production can be optimized and energy can be saved.

### INSIGHTFUL INFORMATION, TAILORED TO YOUR NEEDS

**SMARTLINK** is as flexible and informative as you want it to be.

Choose from the 3 levels which solution best fits your company.



## SMARTLINK SERVICE

Rule out all uncertainties. With **SMARTLINK** Service installed on your compressors, scheduling maintenance visits becomes as simple and easy as it should be; your service log book is always just one click away and your online link with Atlas Copco allows you to request and receive quotes for spare parts or additional services very fast.



## SMARTLINK UPTIME

Keep your compressors up and running. By e-mail and/or text, you receive all relevant machine indications (warnings and shutdowns) in advance. Based on this information, you can then take all necessary actions and measures to avoid the risk of a breakdown.



## SMARTLINK ENERGY

Safeguard the performance of your equipment. With **SMARTLINK** Energy, Atlas Copco enables you to continuously monitor and analyze the energy efficiency of your compressor room. You decide on the performance indicators, you define the benchmarks. **SMARTLINK** analyzes and reports. You can make accurate and immediate improvements when needed. The results can be used for energy monitoring according to ISO50001.



## Atlas Copco AIRnet

AIRnet is a compressed air piping system that delivers quality air exactly where you need it, from compressor to the point of use.

- Low friction and seamless connections of AIRnet minimize pressure drop thus effectively reduce the cost of ownership of your piping system.
- Thanks to a smart design and low weight materials, AIRnet can be installed 70% faster than conventional systems.
- AIRnet pipes and fittings are assembled in just a few steps by a single installer, without the need for heavy machinery.

### MUST KNOW FEATURES:

#### Fast

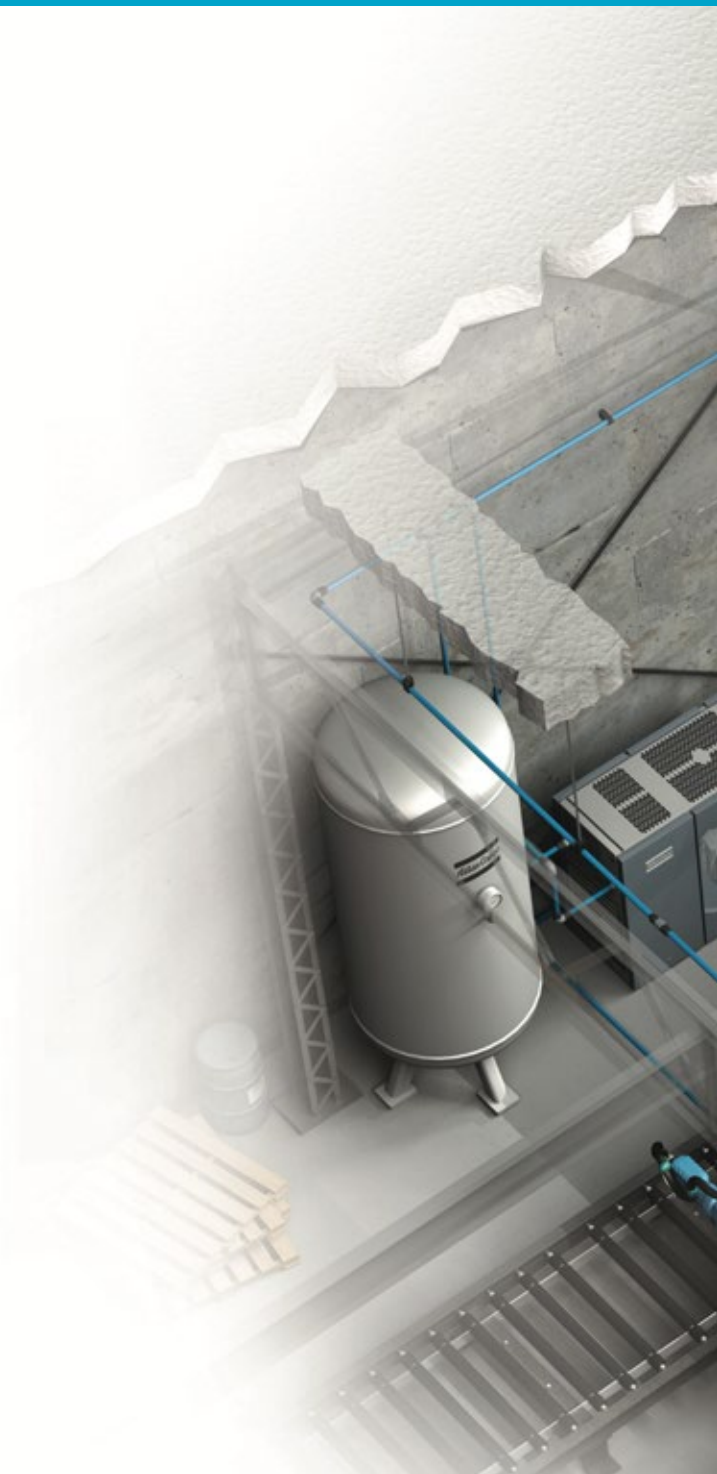
Thanks to a smart design and low weight materials, AIRnet can be installed 70% faster than conventional systems.

#### Easy

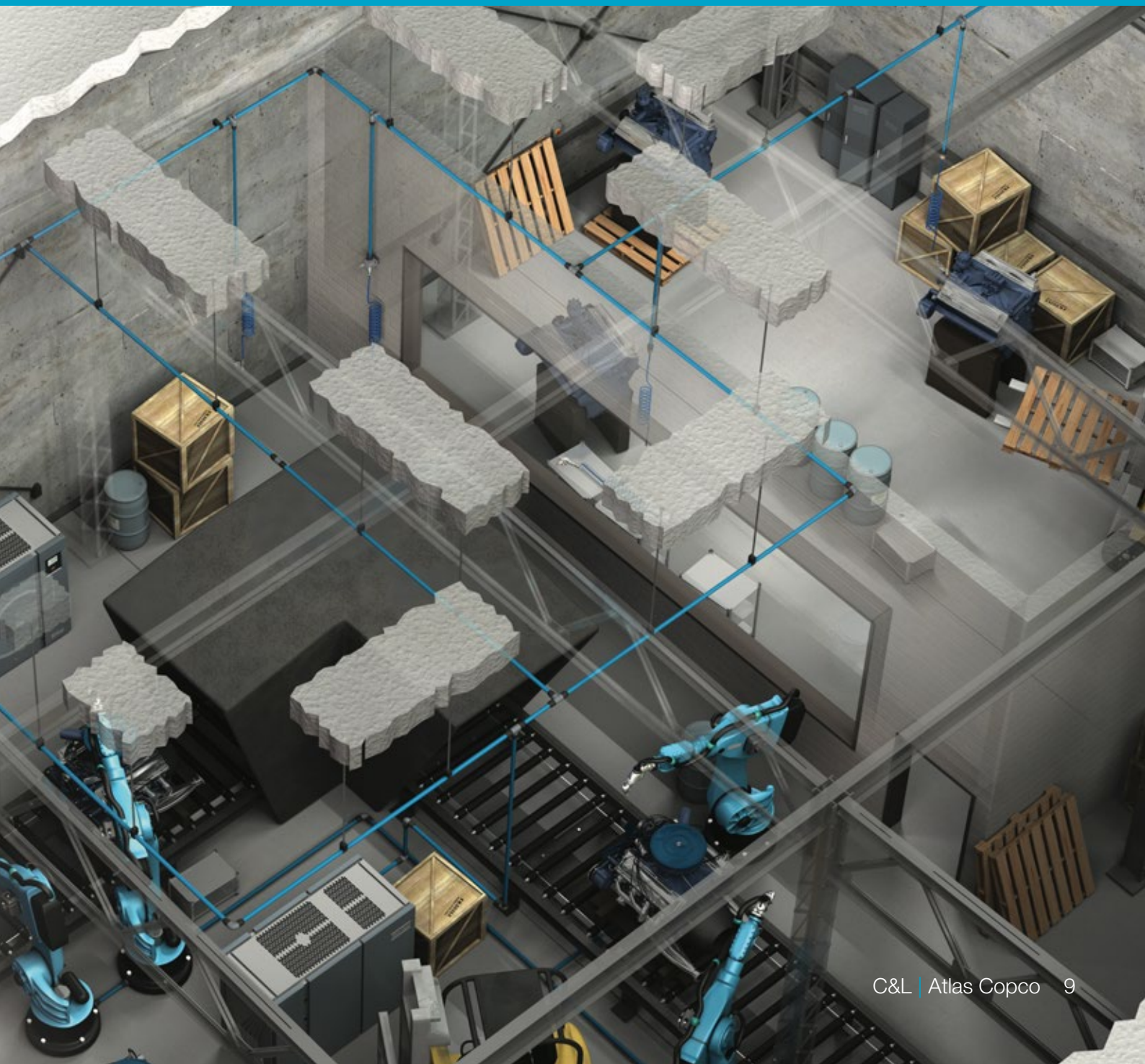
AIRnet pipes and fittings are assembled in just a few steps by a single installer, without the need for heavy machinery.

#### Reliable

The durable, corrosion-free AIRnet pipes and fittings come with a 10-year warranty. Low friction and seamless connections minimize pressure drop.









### COMPRESSED AIR FILTRATION

#### OIL-X EVOLUTION

A range of high efficiency compressed air filters for the removal of water and oil aerosols, solid particulates and micro-organisms and dust filter grades for the removal of dry particulate and micro-organisms.

#### BIO-X

The Bio-X range of sterile filters includes the BIO-X II which utilises a borosilicate glass microfibre media, effective in the removal of sub-micron particles as small as 0.01 micron ensuring the removal of all micro-organisms.



### COMPRESSED AIR DRYERS

Parker Dominick Hunter manufacture a number of compressed air dryers including:

#### POLESTAR SMART REFRIGERANT DRYERS

PoleStar Smart is designed not only to minimise the use of compressed air and electricity in their operation, but also to significantly reduce the operational costs of the compressor by minimising pressure loss.

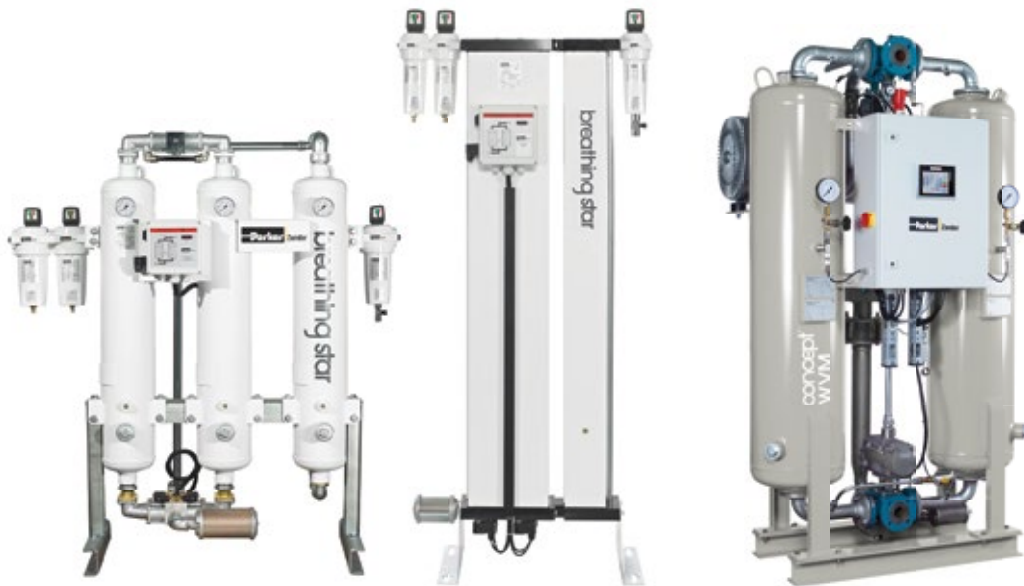


### OIL / WATER SEPARATORS

The ES2000 series oil / water Separators are a simple, economical and environmental solution. These oil / water separators are installed as part of the compressed air system and simply reduce the oil condensate to a level permitted for discharge.

This allows the larger volume of clean water, up to 99.9% of the total condensate, to be discharged safely into the foul sewer and the relatively small amount of concentrated oil to be disposed of legitimately and economically.





### CONDENSATE DRAINS

ED2000 series condensate drains are the reliable, easy to install, cost effective solution for condensate removal, with a model to suit every system or application.

The ED2000 Series level sending drains detect and discharge only when condensate is present

With no mechanical sensor parts and a sensing system that works with all types of compressed air condensates, including aggressive oil-free, the intelligent operation always ensures no loss of valuable compressed air.



### NITROGEN GAS GENERATORS

The MIDIGAS and MAXIGAS nitrogen gas generators produce nitrogen gas from compressed air and offer a cost-effective, reliable and safe alternative to traditional nitrogen gas supplies such as cylinder or liquid.

Nitrogen is used as a clean, dry, inert gas primarily for removing oxygen from products and/or processes.

These generators can be used in a wide range of industries such as food, beverage, pharmaceutical, laboratory and chemical.



### BREATHING AIR PURIFIERS

With a wide variety of purification products available, ranging from a simple respirator offering basic protection against low levels of dust particles to self contained breathing apparatus it is essential that the inhalation risks be fully assessed and a suitable purification product selected.

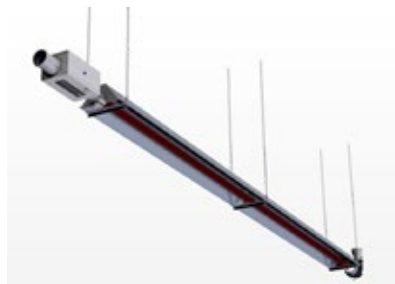
Parker domnick hunter breathing air purifiers are designed to offer the user protection against some or all of the contaminants that may be present in a compressed air fed breathing air system. As the world leader in filtration and purification of compressed air, Parker domnick hunter offers unrivalled experience in the design and manufacture of air treatment equipment.





## Winterwarm XR Series

Winterwarm presents the Winterwarm XR-series: an indirect gas fired unit air heater incorporating a very modern design with compact measurements, which would look great in any environment. Of course the XR is provided with innovating technology as standard.



## Winterwarm Radiant tube WRU/WRL

The WRU and WRL series are eminently suitable for use in combination with indirect-fired air heating.

A relatively small air-heating capacity can keep the room at a certain minimum temperature while the workplaces themselves can be pleasantly boosted by a radiant tube.

The radiant tube can be switched on as and when required, and the comfortable heat is felt almost immediately. In situations where an old, poorly insulated factory bay has to be heated, the heating of the entire bay with radiant tubes also provides an excellent solution. The effect of radiant heat is felt immediately, and it ensures a long period of retained heat so the radiant tubes can be switched off well before the end of the working day.



## Winterwarm TRD

Industrial heater unit without fans for installation in a duct. The fan should be separately installed behind the heater so the volume of air output can be determined by the customer. Usually in this case also a duct on the front is applied. The TRD is provided with a flange for fastening the heater to the duct at both sides.



#### **Winterwarm ACR- Air Curtain with Unit Air Heater**

An air curtain which is unique in Europe because it is provided with a gas fired unit air heater as a heating unit.

The ACR keeps the warmth inside and the cold outside.

Suitable for doors from 2 to 6 m. height and 2 or 3 m. width.



#### **Winterwarm TR - Gas fired unit air heater**

Heavy duty unit air heater, suitable for industrial areas, which has proven to be very reliable and robust. The whole TR-series is ErP compliant.



#### **Winterwarm ACM - Modular Air Curtain**

A modular air curtain with a high air volume and low penetration degree. The modular construction makes it possible to assemble an air curtain for each door width.



## PHARMACEUTICAL & INDUSTRIAL

Atex & Non Atex Extraction systems



## FOOD & ELECTRONIC

Atex & Non Atex Extraction systems





**STAINLESS STEEL EXTRACTION ARMS**

Atex rated



**EXTRACTION FANS**

Atex & Non Atex Extraction systems



### **NEDERMAN EXTRACTION ARMS**

All Nederman extraction arms are highly flexible, and simple to position, extend and retract. Different attachments are available for wall, ceiling or extension bracket mounting as well as a number of accessories, including hoods and dampers to improve efficiency.

The arms are connected to a vacuum and filter system removing the contaminants from the extracted air so that it can be returned to the atmosphere or recycled without negative effects.



### **NEDERMAN FX PHARMACEUTICAL EXTRACTION ARMS**

The Bench Top FX fume and odor extraction arms are made of light-weight anodized aluminium sections, with two or three adjustable, plastic friction joints. For extraction of solder fumes when soldering and for capturing odors from gluing, or working with solvents.

The lab extraction arm can be connected in single applications, in systems, and with or without filter. The extraction arm is easily mounted to a workbench or similar. The fume extractor can be mounted standing, hanging or attached to the wall. Flexible in all directions and simple to position. Easy to dismantle for easy cleaning.



### **NEDERMAN INLINE PARTICLE / HEPA / CARBON FILTERS**

The Modular Filter System simply solves the need of cleaning the air from particles, smoke, dust, gases and smells. The modular construction means that the system is suitable for both small workspaces and larger manufacturing works.

By supplementing with Nederman fans, extraction arms and control boxes, you can build up a solution for every workplace.

Typical applications are TIG and spot welding, laboratory extraction, food ingredients and odours and chemical handling.





### **CORAL AIRALT FILTER**

Atex certified purifying filter for wood dusts and shavings with automatic cleaning in backwash mode. The cartridge filter with backwash cleaning is composed of filtering elements enclosed in an air-tight central body and is designed to be used in vacuum plants.

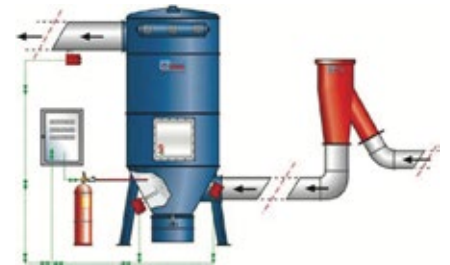
The filter can be used correctly for handling fumes, dusts in the mechanical, chemical and pharmaceutical sectors.



### **CORAL AIRCOMPACT E AIRCOM FILTER**

Purifying filter for dusts and fumes with automatic cleaning in backwash mode. Operating principle: the CORAL cartridge filter with backwash cleaning mod. AIRCOMPACT is made up from, cartridge filtering elements enclosed in an air-tight central body and is designed to be used in vacuum plants. The dusty air enters from the connection in the lower part of the hopper and, due to the effect of a sudden decrease in speed, the larger particles settle and end up in the relative collection bin.

The smallest or lightest particles re-ascend the body, inside which the filtering cartridges are housed; the polluted air runs through the cartridges from the outside inwards, in a way that the dust deposits externally while the air moves along the cartridge and escapes purified.



### **CORAL FIRE PREVENTION SYSTEM**

The suppressor represents the latest generation Atex suppression devices. It is actuated through an electro-mechanical movement, without the need for any pyrotechnic loading or gas loading device.

The Firelock is made up from a mechanical part, two redundant magnetic rings, an electric motor and an electronic control device. When the valve is activated by the alarm signal coming from the control unit, two redundant capacitive discharge circuits activate the magnetic rings of the electric motor. The short movement caused by the motor immediately activates the valve that unloads the extinguishing powder in just a few milliseconds.



## CONTAINER SOLUTIONS

- PACKAGED AIR
- PACKAGED N2 GAS GENERATION
- PACKAGED OXYGEN GENERATION
- PLUG & PLAY SYSTEMS incorporating as standard; machines, switchgear, fully wired, fully piped, condensate management, lights, access doors, ventilation and any customer specific requirements such as (ER) energy recovery and more....
- HIGH QUALITY BUILD
- TAILORED TO CUSTOMER SPECIFIC REQUIREMENTS
- COMPACT / SPACE SAVING / SECURE
- EASILY MOVED & RELOCATED
- EXTERNAL FINISH COLOUR TO COMPLIMENT CUSTOMERS PREMISES







## Nordfab QF Clipped and FL Flanged ducting

QF® clipped and FL flanged ducting offers a complete range of diameters and accessories for easy-to-fix professional installations.

Manufactured from galvanised steel or stainless steel with laser welded seams, which have smoother internal surfaces and provide greatly enhanced leak resistance, Nordfab® ducting offers an unbeatable solution for all general purpose dust extraction duties.

The Quick-Fit® Clip features a generously dimensioned sealing gasket held firmly in place by positive overcentre clamping action over the rolled collars at the duct ends to be joined. For added security, a locking pin may be inserted.

FL flanged ducting is supplied with preassembled and drilled loose flanges for ease of alignment during installation.

## Who Uses Quick-Fit?

- Woodworking
- Furniture
- Metalworking
- Concrete
- Recycling
- Automotive
- Plastics
- Textiles
- Powder, Bulk and Solids
- Agriculture
- Paper
- Chemical
- Ventilation
- And many more.







## Advantages

- QF for fast installation with no special tools, no painting, flexible working
- Easy to assemble installation components
- Neat slip duct connections to adapt and adjust ducting on site during installation
- FL offers additional security of bolted flanged connections for more rigorous applications
- Laser welded straight ducts for smoother surface and enhanced leak resistance
- Easy to extend or take apart completely for cleaning, reconfiguring or relocation
- Full range of accessories and installation components
- Adapters available to connect to and extend all other duct systems
- All you need from one comprehensive, tried and tested range
- Stainless steel also available

NOTE: When using system for overpressure and in a system carrying fine dust, it is advisable to use a flanged duct system. Discuss with Nordfab.



### Exhaust filters for:

- Trucks and other machines with different driving conditions
- Light and heavy vehicles that start and moved indoors
- Engines with hard driving
- Environmental zone for trucks, buses and construction
- Clean / burns the particulate filter
- Particulate filters and catalytic converters to cars, 'Direct Fit'.

### Why is it important to solve the exhaust problem indoors and use our exhaust filter?

Each time you inhale exhaust particles stick some of them in the lung tissue. The smaller the particles, the deeper they penetrate. It can cause both short-term and long-term health consequences. To name a few: coughing, difficulty breathing, asthma, chronic bronchitis, decreased lung capacity and at worst, cancer.

EHC manufactures mobile exhaust filter that is mounted directly on the exhaust pipe. Our filter stops 99% of the dangerous particles.

### Who is vulnerable?

If one is exposed to exhaust fumes from vehicles with gasoline or diesel engines that start or run temporarily or for longer indoor one is exposed to a health hazard. The risks are most evident for those driving or working on vehicles, but there is convincing proof that even people in adjacent rooms are a vulnerable group.

### Exhaust cleaner for vehicles

**EHC P15** is an exhaust cleaner for temporary driving of vehicles in factories, ships, workshops, exhibition halls etc.

The filter work from start and are insensitive to humidity

The filter separates mutagenic, cancerous and allergy-producing substances attached to particles in the exhaust.

#### Technical Data

Reduce:

Particles > 99 % of 0,12 $\mu$  particles and bigger.

Engine size Up to 4 L

RPM/min, max.

2500 r/min

Temperature,

200°C

Filter life

EHC P15 ~ 150 starts

The lifetime is dependent on the engine size, engine type, how it is used and engine condition

Weight

Complete 0,4kg

Filter EHC P15 easily comply emissions standard in TRGS 554 (D), COSHH (GB), VERT B272 and TüV Nord nr. 0931TP00149.

EHC replacement filters are treated as normal waste.





### Exhaust filter for diesel engines

**EHC HT** filter are designed for permanent use on diesel engines and are available in SS and alu zinc. The filters work from start and are insensitive to humidity.

All filters are delivered with:

- filter
- flanges on inlet
- heat shield
- pressure switch control lamp and buzzer to warn the driver when filter needs changing or membrane

EHC HT filter is recommended when people are confronted with running diesel exhaust in confined spaces.

For: Building machinery, heavy vehicle, industrial machines and forklift trucks.

#### Technical Data

##### Separation:

Reduces particles > 99 % of > 0,4 $\mu$  particles and bigger. Even mutagenic, cancerous and allergy producing substances attach to the particles.

Temperature, max. 250°C

##### Filter life

The lifetime is dependent on the engine size, engine type, how it is used and engine condition.

##### Weight

EHC HT 10 Complete 23 kg EHC HT 20 Complete 34 kg EHC HT 35 Complete 50 kg

Filter EHC HT meets well emission standard in TUV S 129.99.00, TRGS 554 (D), COSHH (GB) and VERT Filter List (CH) B135.

EHC replacement filters are treated as normal waste.







## FLAMEX BF

Highly flexible lightweight polyester polyurethane ducting, reinforced with embedded, copper coated, high tensile steel wire helix, hardly inflammable to DIN 4102 B1. PU thickness = 0.5mm. Temperature range -40°C to +90°C. (intermittent to +125°C).

### Properties/Applications:

- Conforms to DIN 4102 B1 flame retardancy standard
- Abrasion resistant
- Very flexible and lightweight
- Extraction of sawdust, wood chips
- Woodworking machines
- Powder transportation (gravity drop)



## MASTER PUR L Trivolution

Polyester polyurethane hose reinforced with embedded copper coated high tensile steel wire helix. PU thickness = 0.7mm. Microbe resistant, antistatic to  $10^9$  Ohms and hardly inflammable to DIN 4102 B1. Temperature range -40 degrees C to +90 degrees C (intermittent to +125 degrees C).

### Properties/Applications:

- Extremely abrasion resistant, lightweight, high flexibility and a smooth bore giving good flow characteristics
- Conforms to DIN 4102 B1 flame retardancy standard
- Resistant to oils and fuels
- Good chemical resistance
- Transportation of dust, powders, paper and textile fibres
- Oilmist extraction
- Protection hose against mechanical pressure



## MASTER PUR H Trivolution

Polyester polyurethane hose reinforced with embedded copper coated high tensile steel wire helix. PU thickness = 1.4mm. Microbe resistant, antistatic to  $10^9$  Ohms and hardly inflammable to DIN 4102 B1. Temperature range -40 degrees C to +90 degrees C (intermittent to +125 degrees C).

### Properties/Applications:

- Extremely abrasion resistant, lightweight, high flexibility and a smooth bore giving good flow characteristics
- Conforms to DIN 4102 B1 flame retardancy standard
- Improved pressure and vacuum characteristics over Master PUR-L Trivolution
- Pneumatic conveying of abrasive powders and granules and glass filled materials
- Standard hose for industrial vacuum cleaners



#### MASTER-PVC FLEX

Suction and transport hose constructed from two layers soft PVC with yarn reinforcement, reinforced internally with plastic coated spring steel wire helix. Extremely flexible and lightweight. Temperature range  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ . (intermittent to  $+80^{\circ}\text{C}$ ).

##### Properties/Applications:

- Extremely flexible and lightweight
- Domestic vacuum cleaners
- Industrial vacuum cleaners
- Dust extraction
- Weld fumes
- Cable protection



#### MASTER VAC

Crush resistant vacuum cleaner hose. Colour black. Temperature range  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ . (intermittent to  $+70^{\circ}\text{C}$ ).

##### Properties/Applications:

- Very flexible and lightweight
- Crush resistant
- Domestic vacuum cleaners
- Industrial vacuum cleaners
- Dust extraction
- Weld fumes
- Cable protection



#### MASTER-VAC EL

Crush resistant vacuum cleaner hose, electrically conductive, surface resistance  $< 10^6$  ohms. Colour black. Temperature range  $-40^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ . (intermittent to  $+70^{\circ}\text{C}$ ).

##### Properties/Applications:

- Very flexible and lightweight
- Crush resistant
- Electrically conductive surface resistance  $< 10^6$  OHMS.
- Domestic vacuum cleaners
- Industrial vacuum cleaners
- Dust and fume extraction where the elimination of static build up is of prime importance





## MASTER-CLIP VINYL B

PVC coated polyester fabric ducting reinforced with external galvanised steel helix. Highly flexible. Standard colour black.

Temperature range  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ .  
(intermittent to  $+80^{\circ}\text{C}$ ).

### Properties/Applications:

- Highly flexible and compressible.
- Flame retardant to UL94 vtm-0
- External steel helix protects against abrasion
- Air conditioning, ventilation
- Dust and fume extraction
- Weld fume extraction
- Chemical fumes.  
(see chemical resistance chart)
- Ideal for flexible extraction arms.



## MASTER-CLIP SPARK

PVC coated glass fabric ducting, flame retardant, reinforced with external galvanised steel helix. Colour grey.

Temperature range  $-20^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$ .  
(intermittent to  $+110^{\circ}\text{C}$ ).

### Properties/Applications:

- Highly flexible and compressible.
- Flame retardant to M1.
- External steel helix protects against abrasion
- Weld fume extraction
- Dust and fume extraction
- Chemical fumes.  
(see chemical resistance chart)
- Ideal for flexible extraction arms.





#### MASTER-CLIP HT450

2 ply high-temperature ducting produced from special-coated fabric, reinforced with external galvanised steel helix. Suitable for extraction of hot air and exhaust gases up to +450°C.

##### Properties/Applications:

- Highly flexible
- External steel helix protects against abrasion
- Conveyance of hot air and exhaust gases up to 450 deg C.
- High temperature fume extraction
- Heat protection
- Ideal for automotive and military exhaust extraction applications



#### MASTER-CLIP HT650

2 ply high-temperature ducting produced from special-coated fabric, reinforced with stainless steel wire and an external galvanised steel helix. Suitable for extraction of hot air and exhaust gases up to +650°C.

##### Properties/Applications:

- Highly flexible
- External steel helix protects against abrasion
- Conveyance of hot air and exhaust gases up to 650 deg C.
- High temperature fume extraction
- Heat protection
- Ideal for automotive and military exhaust extraction applications



# **DEPURECO®** INDUSTRIAL VACUUMS



## WD 132 - WD 132 P - WD 133

### SINGLE-PHASE INDUSTRIAL ASPIRATORS

The WD is a compact vacuum cleaner designed to suck up liquids in large quantities. A sturdy metal head, positioned above the container, allows up to 3 motors to be housed, ensuring maximum performance. The spacious 130 litres container allows to suck safely with the help of a mechanical floating of the sucked liquids. Continuous discharge is optional.



## ECOBULL

### THREE-PHASE INDUSTRIAL ASPIRATORS

The primary feature of the Eco-BULL industrial vacuum cleaner is its versatility. The compact aspirator, with turbine mounted on the head that allows to keep minimum dimensions. Equipped with 3 kW industrial turbine and quick-release container system, side channel turbine, compensation valve, shake



## RAM 280-RAM 500-RAM 1000

### SOLID-LIQUID ASPIRATORS AND SEPARATORS

RAM is the right threephase industrial vacuums that allows to vacuum and separate fluids from debris, to filter emulsions and blow them back in the tooling machine. DEPURECO use for the liquids dumping a "reverse air flow" system generated by the same turbine installed in the machine.





# PERFORMANCE ON VACUUM SOLUTIONS



## WELD-ONE

### INDUSTRIAL VACUUMS FOR WELDING FUMES

The model weldone fume is the perfect solution for the needs of welders where space is limited and does not want to lose time to move a suction arm. Depureco weldone fume is among the most compact in its class, powerful reliable and configurable depending on customer needs



## FOX 3 Z22 II3D

### ATEX 3D Z22 INDUSTRIAL VACUUMS

The FOX ATEX series is a three-phase industrial vacuum cleaner for solid materials, characterised by versatility of use. FOX is equipped with electric phase control sequence Siemens IP65 with correct control phase sequence, additional silencer and high-efficiency turbine with vacuum safety relief valve, anti-static Class "M" filter and post-filtration exhaust air. Absolute filter, offered on demand, is certified by the German certification body IFA, class H14 (99,995%), for vacuuming of fine or toxic dust. The industrial vacuum is certified as suitable to be used in potentially explosive atmosphere according to the European Directive ATEX 2014/34/UE ATEX II3D



## PUMA FIX

### CENTRALIZED SYSTEMS

PUMA FIX vacuum cleaner is fitted as standard with high performance three phase turbine, antistatic aluminated cartridges with pneumatic cleaning system run by a PLC central system, an oversized filter chamber, electric board panel with ?P pressure switch managing the inverter system, tangential inlet and internal cyclone as preseparator of heavy dust. PUMA FIX is perfect for centralized vacuum systems for all kind of dusts





# Oil-free process means **oil-free product**: with the METPOINT® OCV

The METPOINT® OCV constantly monitors the oil vapour concentration in the compressed air and alerts you, if there is a problem.

You are always informed of the quality and purity of your compressed air, so that you can meet the relevant quality standards and gain the trust of your customers.



METPOINT® OCV

## Precise, certified and ahead of the competition

Thanks to its unrivalled functionality and user-friendliness, the METPOINT® OCV allows you to analyse and control your compressed air quality at all stages of the process.

### Validated

- TÜV-certified and validated by the German Federal Institute for Drugs and Medical Devices BfArM
- Excellent accuracy thanks to the production of a “pure” reference gas flow by means of a purification unit
- (catalytic converter technology)
- Automated monitoring of sensor electronics during normal operation and fault alarm function
- Alarm signal output

### Reliable

- Constant monitoring of oil vapour concentration
- Tried and tested measuring method
- Logger function for all measurements as standard

All measurements, and the compressed air quality, are documented. In addition, the data enables you to identify the source of the contamination.

### User-friendly

- Touch screen with intuitive user interface
- Intuitive visualisation of values
- Designed for integration into local network, so that measurements can be viewed at any workstation, saving time and money













# HIGH PRESSURE

## Modular design for maximum versatility

### Oil-lubricated SAUER compressors

Due to their modular design, our Sauer compressors can easily be expanded to accommodate specific requirements – from the affordable “Basic”-variants to complete systems, consisting of a sound-proof canopy, an integrated Sauer compressor control, a condensate management and an integrated high-pressure adsorption dryer.

#### SAUER Basic variants

<div>series</div> <div>variants</div>	 Mistral	 Passat	 Breeze	 Hurricane	 Tornado	 Typhoon	 5000 series	 6000 series
Basic	✓	✓	✓	✓	✓	✓	✓	✓
BasDiesel (E/FA)	✓	✓	–	✓	–	–	–	–
BasBooster	✓	✓	–	✓	✓	✓	✓	–
BasSeal <sup>He</sup>	–	✓	–	✓	–	–	–	✓
BasSeal <sup>CNG</sup>	–	✓	–	✓	–	–	–	✓



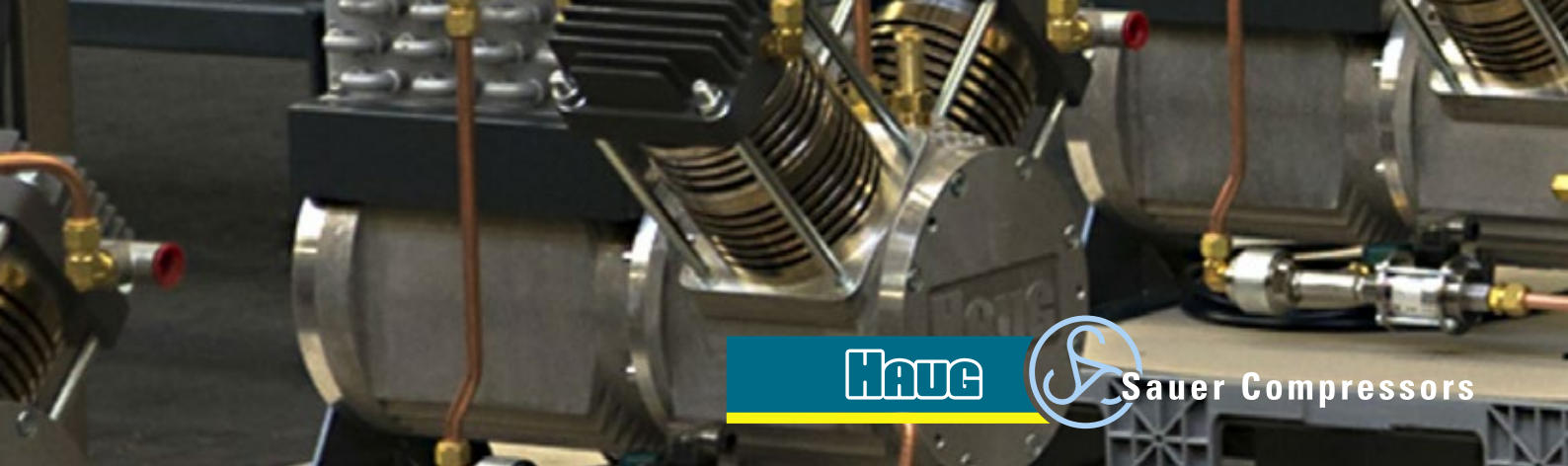
 Hurricane | WP 4351 BasSeal<sup>CNG</sup>



 Hurricane | WP 4331 BasDiesel

Basic	Air compressor with e-motor
BasDiesel	Air compressor with diesel engine
	E: Electric start, manual operation   FA: Full automatic start and operation
BasBooster	Nitrogen Booster with e-motor
BasSeal <sup>He</sup>	Gas-tight Helium compressor with e-motor
BasSeal <sup>CNG</sup>	Gas-tight CNG compressor with e-motor





## SAUER Complete variants

series \ variants	Mistral	Passat	Breeze	Hurricane	Tornado	Typhoon	5000 series	6000 series
ComSilent	✓	✓	–	✓	✓	–	–	–
ComDry	✓	✓	–	✓	✓	–	–	–
ComBooster	✓	✓	–	✓	✓	–	–	–
ComSeal <sup>He</sup>	–	✓	–	✓	✓	–	–	–



Hurricane | WP 4351 ComSeal



Tornado | WP 3251 ComBooster

<b>ComSilent</b>	Air compressor with e-motor in sound proof canopy incl. Sauer electronic compressors control
<b>ComDry</b>	Air compressors with e-motor in sound proof canopy incl. Sauer electronic compressors control and integrated adsorption dryer
<b>ComBooster</b>	Nitrogen Booster with e-motor in sound proof canopy incl. Sauer electronic compressors control
<b>ComSeal<sup>He</sup></b>	Gas-tight Helium compressor with e-motor in sound proof canopy incl. Sauer electronic compressors control

## Maximum process purity and safety

### Oil-free compressors

Oil-free & hermetically gas-tight: these remarkable features characterise HAUG compressors. All HAUG series are available in different variants, ranging from compressor blocks for OEM customers up to complex solutions according to customer's specifications including controls, sound proof canopies, storage systems and many more.

Based on a flexible modular concept, all compressor types can be configured exactly to the customer' demands.

#### Basic variants

series \ variants	<i>HAUGCygnus</i>	<i>HAUGTaurus</i>	<i>HAUGOrion</i>	<i>HAUGPluto</i>	<i>HAUGMercure</i>	<i>HAUGNeptune</i>	<i>HAUGSirius</i>	<i>HAUGTitan</i>
Block	✓	–	–	✓	✓	✓	✓	–
Incomplete	✓	–	–	✓	✓	✓	✓	–
Basic	✓	✓	✓	✓	✓	✓	✓	✓



*HAUGPluto* | Block



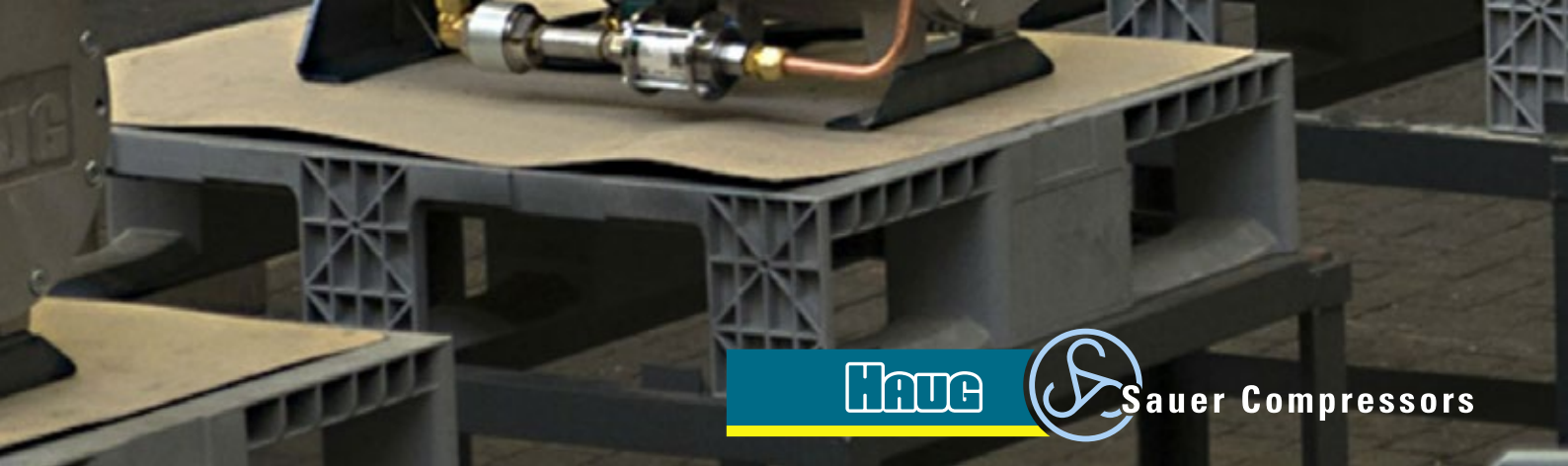
*HAUGMercure* | Incomplete



*HAUGNeptune* | Basic

<b>Block</b>	Compressor block with e-motor
<b>Incomplete</b>	Compressor block incl. piping and e-motor
<b>Basic</b>	Compressor incl. piping, wiring and connection box





**HAUG**



**Sauer Compressors**

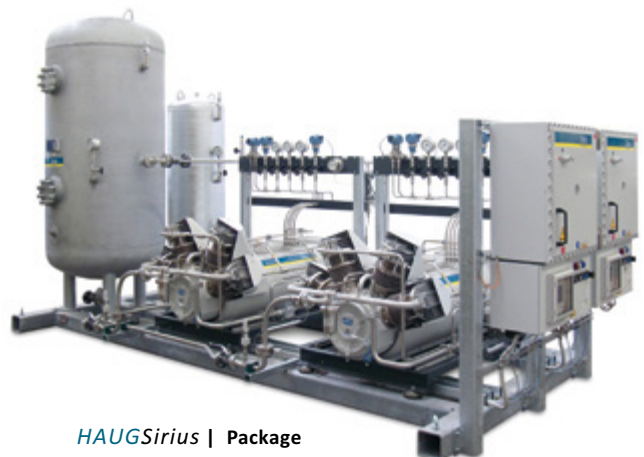


## Complete variants

series \ variants	<i>HAUG Cygnus</i>	<i>HAUG Taurus</i>	<i>HAUG Orion</i>	<i>HAUG Pluto</i>	<i>HAUG Mercure</i>	<i>HAUG Neptune</i>	<i>HAUG Sirius</i>	<i>HAUG Titan</i>
ComControl	✓	✓	✓	✓	✓	✓	✓	✓
Package	✓	✓	✓	✓	✓	✓	✓	✓



*HAUG Sirius* | ComControl



*HAUG Sirius* | Package

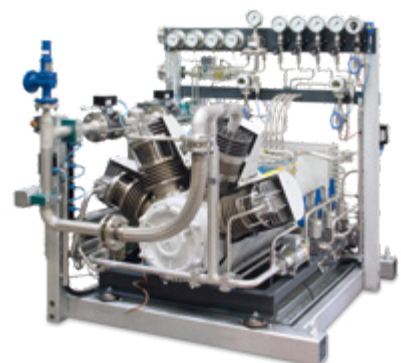
**ComControl** Compressor module incl. electronic compressor control

**Package** Customised solution with features such as sound proof canopies, container installation, storage systems and many more.



## NanoLoc® high-pressure variants

series \ variants	<i>HAUG Cygnus</i>	<i>HAUG Taurus</i>	<i>HAUG Orion</i>	<i>HAUG Pluto</i>	<i>HAUG Mercure</i>	<i>HAUG Neptune</i>	<i>HAUG Sirius</i>	<i>HAUG Titan</i>
NanoLoc®	—	—	—	—	—	—	✓	—



Due to the unique and patented NanoLoc® piston design, final pressures up to 450 barg are possible.

*HAUG Sirius NanoLoc*



*Atlas Copco*

Delivering  
Quality  
Everywhere  
Since 1998.



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