



*Atlas Copco*



**ATLAS COPCO  
COMPRESSED AIR,  
INDUSTRIAL GAS &  
PROCESS COOLING  
SOLUTIONS**

Sales, service, spare parts,  
installation and diagnostics

Ask us about our **FREE HEALTH CHECKS!**



# The Home of Industrial Ideas

At Atlas Copco Compressors we team up with our customers to turn industrial ideas into smart connected air and gas solutions and leading edge compressed air, industrial gas and process cooling technology. Our passionate people, expertise and service bring sustainable value to industries everywhere. Atlas Copco is based in Stockholm, Sweden with customers in more than 180 countries and about 43,000 employees.

Atlas Copco's UK customer centre was opened in 1919. For over a century we have been supporting UK industry with everything from the smallest workshop compressor to purpose built packages for specialist applications - all with energy efficiency, reliability and lifetime value in mind. We have the largest team of expert service engineers operating nationwide, ensuring that your production is kept running efficiently at all times.

Atlas Copco Compressors has its head office in Hemel Hempstead, Herts. Regional branches in Uddingston, Scotland, Leigh, near Warrington, Great Notley, Essex and Leicester, as well as a nationwide network of manufacturer-trained distributors, ensure we can offer advice and support wherever you are.

## PISTON COMPRESSORS

Atlas Copco piston compressors are a simple, robust design and advanced in features and capability. This established and robust compression technology allows Atlas Copco to focus on efficiency and versatility, creating compressors suitable for most industrial environments. Atlas Copco's oil-lubricated LE & LT range can deliver compressed air up to 30 bar, whilst the LF, LFX & LZ range are quiet, compact and deliver 100% oil-free air.



## SCROLL COMPRESSORS

The SF and SF+ range of scroll air compressors are reliable, energy efficient and guarantee the delivery of 100% oil-free compressed air, certified to ISO 8573-1 Class 0 standard. Super quiet from 52 dB(A), and compact, they can be installed within any working environment and are ideal for dental and research laboratories. SF+ units incorporate the Elektronikon controller which provides easy to use monitoring and control features helping users get the most out of single or multiple compressor installation.



## INDUSTRIAL ROTARY SCREW COMPRESSORS

The latest-generation G compressor range brings the power and reliability of a leading industrial screw compressor to small and medium sized industries. The G series comes with Atlas Copco's powerful rotary screw element and an advanced electronic controller to go above and beyond the call of duty. Quiet operation and reliability make them suitable for continuous duty on a work site. These receiver- or floor-mounted machines are ideal for anything from automotive workshops to light manufacturing.

Order online at [www.thecompressorstore.co.uk](http://www.thecompressorstore.co.uk)



## PREMIUM EFFICIENCY ROTARY SCREW COMPRESSORS: FIXED SPEED, VSD, VSD+ AND VSD<sup>5</sup>

The ultimate in premium efficiency, the Atlas Copco GA and GA VSD+ oil injected screw compressors from 5-500kW keep your production running smoothly. From tank-mounted workshop solutions with easy plug and play concept, through to workplace compressors with integrated air treatment equipment and Elektronikon Touch or Swipe controller for easy monitoring and control. Most models are also available with Variable Speed Drive technology which saves on average 35% on energy consumption.

Our brand-new, third generation GA VSD<sup>5</sup> raises the bar once again. It continues a proud tradition of ground-breaking energy savings with 60% lower energy use on average compared to similar sized fixed-speed models. The VSD<sup>5</sup> is more than the most energy-efficient compressor on the market today. Featuring a next generation Ferrite-Assisted Synchronous Reluctance Motor meeting IE5 standards, an intelligent zero-loss drain and a Neos Next inverter, it is a comprehensive re-invention of VSD technology that leads the way for future production sustainability.



## OIL-FREE COMPRESSORS: ROTARY SCREW, TOOTH & TURBO

Atlas Copco is a pioneer in oil-free compressors, the ultimate solution for users who need guaranteed Class 0 compressed air. The latest range of VSD+ premium efficiency oil-free compressors can help reduce energy bills by up to 35%.

Most requirements of industry could be met by the time tested and reliable rotary screw and tooth ranges of air-cooled ZT compressors and water-cooled ZR compressors. It is easy to match any demand with fixed speed and VSD models from 15-900kW and flows up to 2456 l/s.

Atlas Copco MD/ND heat of compression dryers paired with Atlas Copco ZT/ZR compressors provide efficient low dew point oil-free air. Some models have the option to include the energy efficient Full-Feature integrated dryer, providing a simple and easy to maintain all-in-one compressed air solution.

Further enhance the energy saving potential of your oil-free compressed air system but utilising hot water heat recovery.



## OIL-FREE TURBO COMPRESSORS

For applications where large volumes of air are required for extended times, such as in the glass or steel industries, the Atlas Copco ZH+ centrifugal range is a superior oil-free turbo compressor with optimised air ends, delivering low energy consumption and flows up to 30,000m<sup>3</sup>/h. The built to last plug & play design includes everything you need to deliver oil-free air without compromise. Used in conjunction with a heat of compression dryer, the ZH provides the most energy efficient compressor/dryer solution on the market today.





## WATER-INJECTED ROTARY SCREW COMPRESSORS

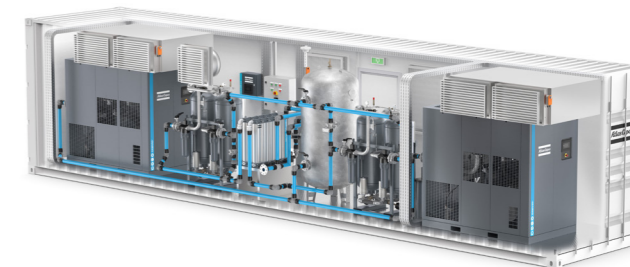
The pioneering AQ water-injected rotary screw VSD compressors deliver 100% oil-free air to ISO 8573-1 CLASS 0 standard. Available in water-cooled or air-cooled versions, AQ compressors meet your precise needs for pure oil-free air up to 13 barg, in a compact and easy to service package. The AQ 15-55kW VSD can include an optional integrated refrigerant dryer, for applications where dry air is needed and space is at a premium.



## AIRCUBE

The Atlas Copco AIRCUBE, a Containerized Compressor Room, is the perfect plug-and-play solution for companies that are planning to expand, and need a new compressor plant room or for companies that don't have space for a new compressor room inside their factory premises.

The AIRCUBE gives businesses the ability to quickly add or extend their compressed air capacity and provides a solution many resource sector operations face: How do you get a dependable, high-quality air supply to some of the most remote places on this planet?



## LOW PRESSURE COMPRESSORS AND BLOWERS

Atlas Copco offers a wide range of air blowers and low-pressure compressors, specifically designed for applications which require compressed air with a pressure between 0.3 and 4 bar(g). With seven low-pressure blower technologies available, we can match the most efficient blower solution to every blower user's application.

The need for oil-free air between 0.3 and 1.2 bar is served by the ZS screw blowers which provide reliability and energy efficient low pressure air, reducing costs by an average of 30% when compared to more traditional lobe blower technology, making it the ideal solution for water and waste water treatment applications and material conveying. The ZS+ VSD offers a state-of-the-art ready to run package with completely integrated VSD and proven Elektronikon® controller.

For applications that require a lower capital cost, the ZL tri-lobe blower guarantees a high process uptime. It also has VSD as an option to give better energy efficiency.

For applications where a high flow is required, such as wastewater treatment, the Atlas Copco ZB turbo blower comes as a fully integrated, easy to install package, complete with premium efficiency VSD, offering a combination of high reliability and energy savings.

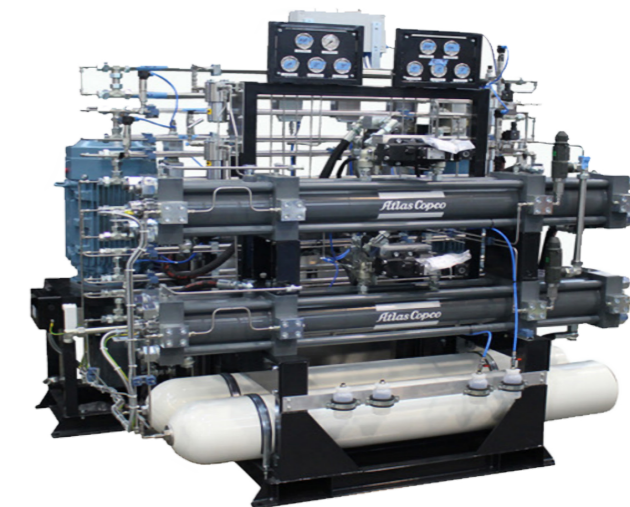
For low pressure oil-free air between 1 and 4 bar, the ZE/ZA compressor range offers a combination of high reliability and energy efficiency, providing a 100% certified supply of oil-free air for a broad spectrum of industrial applications.



## HYDROGEN BOOSTERS

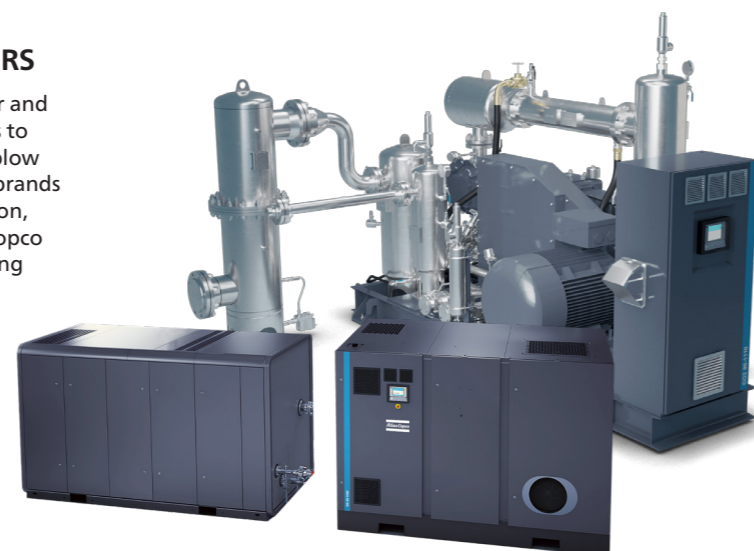
Atlas Copco has built bespoke hydrogen compressors for many years, recently expanding capabilities to include hydraulic boosters within the product range which allows us to provide a solution for a wide range of flow (10 to 14,000 Nm<sup>3</sup>/Hr) & pressure (0.4 to 1000 bar) requirements.

The current product range is an ideal fit for Hydrogen Power to Gas, Mobility, Distribution and Industrial applications.



## HIGH PRESSURE COMPRESSORS AND BOOSTERS

Atlas Copco provides solutions for compressing and boosting air and industrial gases up to 500 bar. From 11kW off the shelf boosters to 3MW engineered solutions, Atlas Copco has experience in PET blow moulding, CO<sub>2</sub> recovery and nitrogen boosting, with specialist brands such as Crepelle, Greenfield and Intermech for seismic exploration, CNG refuelling and handling other industrial gases. The Atlas Copco ZD combines a variable speed screw compressor and reciprocating booster to achieve impressive energy savings and reliability for applications up to 40bar.



## OXYGEN GENERATION

Atlas Copco OGP and OGP+ oxygen generators using Pressure Swing Adsorption (PSA) technology allow you to produce your own oxygen on site by using compressed air. With purities from 90 to 95% and flows up to 200 Nm<sup>3</sup>/h the generators are a cost-efficient alternative to delivered bottled oxygen.





## NITROGEN GENERATION

Atlas Copco Nitrogen Generation systems with either Membrane or Pressure Swing Adsorption (PSA) technology allow you to produce your own nitrogen on site by using compressed air. Our NG products provide nitrogen to meet a wide range of flow, purity and pressure requirements, from 1 to 5000 Nm<sup>3</sup>/h and 95 to 99.999% purity. Onsite nitrogen generation eliminates the need for storing, reordering or changing bottles as nitrogen is available on tap 24/7. All in one, plug and play skid packages offer a solution for high pressure nitrogen requirements, with 40 Bar and 300 Bar variants. Our PSA units are the lowest energy consumption, lowest air factor in the industry and represent the lowest cost for nitrogen gas, compared to other generators, liquid and bottles.



## INSTALLATION AND PIPEWORK

Atlas Copco's innovative AIRnet™ compressed air piping system, delivers compressed air exactly where you need it, at the right pressure and at the lowest possible installed cost. No corrosion, leak resistant and supported by a 10 year guarantee. A complete range of Point of Use accessories are also available. AIRnet™ pipework comes in aluminium and stainless steel, and is simple and quick to install.



## PROCESS COOLING SOLUTIONS

The Atlas Copco TCX & TCA ranges of chillers are specially designed for cooling water (or mixture of water and glycol) for multiple industrial purposes. The TCX4-90 series is a compact, all-in-one water chiller with an air-cooled condenser and integrated hydraulic module, with the ability to precisely control the temperature using an Elektronikon® MkV controller. The pump housing, tank and evaporator are made in stainless steel and the entire chiller is designed for easy maintenance with easily accessible safety components.

For large industrial applications the Atlas Copco TCA55-215 series offers a high level of energy efficiency and supplies complete safety for your day-to-day operations. Reliable and robust, equipped with proven scroll compressors in a twin circuit configuration, air-cooled microchannel condensers and integrated hydraulic module, it provides easy and cost-effective installation and maintenance.



## HEALTH CHECKS, AUDITS AND LEAK DETECTION

Our engineer makes a free visual inspection of your entire compressed air, nitrogen or oxygen system, from air compressor/gas generator to point of use, all of the ancillary equipment along the line and even the compressor/plant room environment. Equipment is checked for condition, appropriate capacity, ISO compliance, unproductive running and for air leaks, to name but a few areas.

After we have checked your system, you will receive a no-obligation written report, outlining where running efficiency improvements or energy savings could be made, and highlighting any non-conformance with ISO standards or wasteful practices.

Upon checking your visual inspection report, our engineer may recommend a free energy assessment and recommendations through data logging (iiTrax), which we recommend for compressed air installations above 11kW. This will tell you the actual running hours and calculated air usage of your air compressors. This will help calculate a realistic energy savings potential, make simulations and provide recommendations to achieve optimal energy efficiency. The data logger is non-intrusive and will monitor performance typically over a 7-day period.

If needed, a full AIRScan will be quoted. This will cover flow testing, air leak detection, air quality testing, measurement and analysis of pressure and dew point throughout your whole system from compressor room to production processes. This will show you the most suitable method for your company to reduce energy costs and CO<sub>2</sub> emissions.



## PROCESS FILTRATION

Atlas Copco serves the filtration and purification needs of customers in food & beverage, microelectronics, pharmaceutical, cosmetics and chemical industries by offering a high-quality range of filter bags, cartridges and housings.

Whether they are edible liquids such as wine, beer, cider, bottled water, soft drinks and milk, non-edible liquids like process water, alcohols, solvents, inks, resins and oils, or gases such as compressed air, carbon dioxide, nitrogen and others, we have the solution for you.



## QUALITY AIR PRODUCTS

Air treatment products to remove moisture, oil aerosols, vapour and dust particles to ensure clean, dry air to expand the life of your equipment and ensure the quality of your end product. The wide range includes oil-water separators, filters, Atlas Copco's revolutionary built-in bypass inPASS filters, breathing air, aftercoolers and air receivers, as well as refrigerant, heatless and heat regenerated desiccant adsorption air dryers, membrane and heatless and heat reactivated adsorption air dryers and the world's first solid desiccant dryers.



## GENUINE PARTS AND MAINTENANCE

Genuine Atlas Copco parts are manufactured to meet the same exacting standards as our products. They have passed the same endurance tests and have been proven to provide the best protection of your investment. Genuine function-specific parts offer the best value.

A portfolio of service plans is available to ensure the continuous operation of your compressed air, industrial gas or cooling system. It is easy to plan, budget and control your maintenance programme and you can choose the service option to match your needs. We also offer spare parts and service for any brand of air compressor, and can service any rotating equipment in the utility room. Atlas Copco also offers a comprehensive range of oils to help you maintain your compressed air machines.



## CONNECTIVITY AND OPTIMISATION

As energy consumption can represent more than 80% of the cost of compressor operation, Atlas Copco Connectivity and Optimisation services can help to balance your consumption and maximise efficiency. SMARTLINK gathers, compares and analyses data on the fly. When needed, it sends out warnings in time, allowing you to carefully plan and prepare service interventions. It provides you with the transparency you need to intelligently assess system performance.

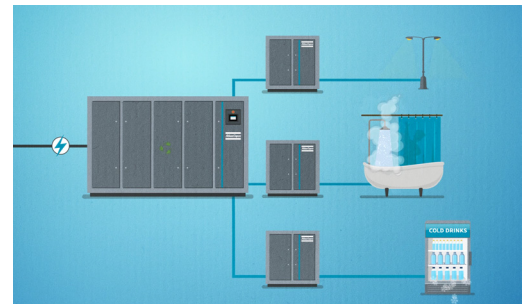
The Atlas Copco Optimizer 4.0 is aptly named. It optimises the operation of your compressed air and blower system while set pressure and flow are being met. It maximises energy savings and keeps the units in good running condition, with a pro-active approach to maintenance through online monitoring. The central controller is ready for Industry 4.0, or the Internet of Things, and is designed for smart factories.



## HEAT RECOVERY

Our range of integrated and retrofit energy recovery units enable up to 94% of the energy from wasted compression heat to be recovered in the form of hot outlet water, at temperatures of up to 90°C, both reducing the use of traditional energy sources and lowering the amount of CO<sub>2</sub> emissions.

Without energy recovery, this heat is lost into the atmosphere. The amount of energy that can be recovered depends on the size of the compressor and the running hours. Typical recoveries are between 50% and 94%. As many industrial processes include the use of hot water or steam, energy recovery units can reduce both fuel and maintenance costs of alternative equipment.



Find out more  
[www.atlascopco.com/en-uk/compressors](http://www.atlascopco.com/en-uk/compressors)  
0800 181 085

