

BroomWade

AIR TECH MADE EASY

Big on Quality. First on Price!



www.broomwade.com

BIG ON QUALITY. FIRST ON PRICE.



BroomWade offers a **wide range of compressed air solutions** using a **variety of technologies** including rotary screw, piston, vane, scroll and portable, plus a **complete air treatment range**.

Our fixed and variable speed compressed air solutions are perfect for the industrial needs of small and medium sized businesses.

The complete and comprehensive compressed air solutions product range is designed for continuous use under the most severe conditions, paying particular attention to modularity, performance, energy efficiency, low operating and maintenance costs, plus ease of installation and use.

More than just a financial investment, compressors are a key component in manufacturing and service processes and BroomWade delivers consistent, high quality, low cost air.



Why BroomWade?

We provide the smart and affordable choice for our customers.

As a Customer

We continuously invest in our product development to ensure that we are always able to deliver:

- Quality and functional products
- High level of customer care
- Competitive pricing
- Local presence
- Quick delivery
- Cost effective functionality aimed at small to medium sized businesses

As a Distributor

For decades, our philosophy has been to use local, independent distributors and resellers for our products as they are proven to be:

- Highly responsive and customer focused
- Involved in the local community
- Flexible to customer requirements
- Well trained and fully staffed
- Service oriented



FIXED & VARIABLE SPEED

ROTARY SCREW COMPRESSORS 2.2 - 75kW

Overview

- Oil flooded
- Single stage rotary screw compressor
- Belt drive
- Star-Delta starting
- Pressure range 5 - 13 bar
- Electric motor 2.2kW to 75kW - IE3
- User-friendly C-PRO 1.0 and C-MASTER controllers
- Energy efficient airend design
- From 2 - 5 year extended warranties available



KA / KA Plus Series (2.2 - 7.5kW)

The decision to buy a screw compressor has just become much easier thanks to the introduction of this range. With the KA / KA Plus Series from screw compressor specialist BroomWade, even customers who require less air pressure can now enjoy the benefits of a screw compressor.

- Stand alone unit
- With attached refrigeration dryer
- Horizontal air receiver
- Horizontal air receiver with attached refrigeration dryer

Benefits

- Reliable
- Energy efficient
- Easy to install
- Easy to maintain
- Durable



KSA / KSB and KSV / KBV (11 - 22kW)

This range of screw compressors has been specifically designed and manufactured to meet the needs of customers who require a highly efficient and robust compressor package, without high-cost service and long downtimes. Cost-effective service and low running costs are top features of these compressors.

- Stand alone unit
- With attached refrigeration dryer
- Horizontal air receiver
- Horizontal air receiver with attached refrigeration dryer



KSA / KSV Series (30 - 45kW)

KSA / KSV compressors are compact, easy to install, and deliver high performance with low maintenance. Accessibility of all components makes service and cleaning very easy. This series is the best choice for low-maintenance, economical compressed air in your workplace.



KSA / KSV Series (55 - 75kW)

These rotary screw compressors with belt transmission provide high performance for all demanding applications. Moreover the BroomWade ranges deliver low maintenance combined with energy efficiency which result in substantial savings up to 30%.



The **correct** response to changing air demand

Variable speed compressor: One smart solution

Variable speed compressors can efficiently and reliably handle the varying air demand found in most plant air systems. These compressors speed up and slow down to match air supply to air demand as it fluctuates.

The right variable speed compressor in the right application delivers significant energy savings and a stable, consistent air supply.

Compressor energy cost example

NOMINAL kW	OPERATING COST PER YEAR (5000 HOURS) AT COST PER kWh (€)					
	0.06	0.08	0.10	0.12	0.14	0.16
55	€16.500	€22.000	€27.500	€33.000	€38.500	€44.000
75	€22.500	€30.000	€37.500	€45.000	€52.500	€60.000

Reduced Maintenance Costs

The design of these compressors provides easy access to components requiring maintenance. The limited number of moving parts also reduces overall service costs.

Our approved service network ensures the smooth running of your compressor and the swift supply of original and genuine parts to save you time and money over the life of the compressor.

PISTON COMPRESSORS 1.5 - 10 HP



Overview

- Coaxial version, single phase
- Belt driven, with canopy version
- Belt driven, three phase
- Pressure range 8 - 12 bar
- Electric motor 0.75kW - 7.5kW
- Voltage 230v / 50Hz & 400v / 50Hz

Benefits

- Durable high quality pistons
- Wide range to suit all applications
 - Oil-free models available
 - Silenced models available

Piston compressors: **reliable, strong, suitable** for professional use

Our company has always been associated with long-lasting, high-quality products.

- Single-cylinder, single-stage with direct transmission for small power outputs suitable for semi-professional uses
- Two-cylinder, single-stage with belt transmission for use in workshops
- Two-cylinder, two-stage with belt transmission for industrial use

This series of piston compressors includes a vast range of solutions:

SUNNY: Compressors from 0.75 to 7.5kW on tank and silent version. This range includes models for non-heavy duty use.



LUBRICATED COMPRESSORS: Pumping units with a cast-iron cylinder, providing excellent wear resistance which guarantees a long working life and very high reliability. They are suitable for heavy-duty use.



POLAR: Compressors from 1.5 to 7.5kW on tank and silent version. This range satisfies the needs of the most demanding end users and differing applications and industries.



SILENT COMPRESSORS: Have been developed to satisfy market demand for compressors that are silenced, reliable, economic and easy to maintain.



OIL FREE: Small models for specific uses, with air guaranteed to be free from impurities. Made entirely of die-cast aluminium incorporating special stainless steel valves.



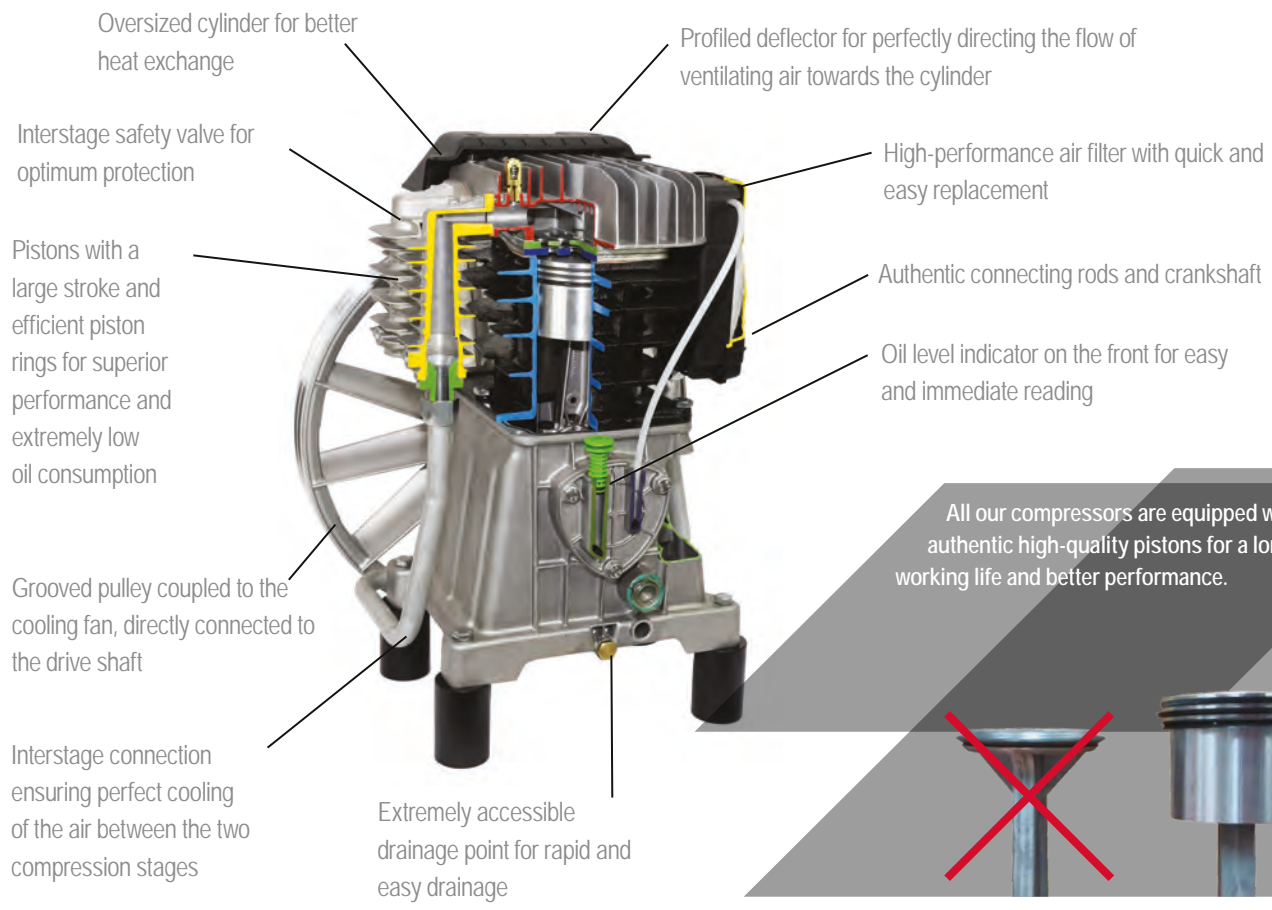
ENGINE DRIVEN COMPRESSORS: Available in both petrol and diesel versions, these portable compressors are robust with low energy consumption. Carry and portable versions are ideal for commercial, automotive and agricultural applications. Featuring self-adjusting acceleration function, easy start-up, cast iron cylinder pump units and, for portable versions, rear rubber and front swivel wheels.





All our compressors are equipped with **authentic, high-quality pistons** for **longer working life** and **better performance**.

BroomWade: the reliability of authentic pistons



All our compressors are equipped with authentic high-quality pistons for a longer working life and better performance.



ROTARY VANE AIR COMPRESSORS 1.1 - 4kW

Benefits

- Small and compact
- High quality clean dry air
- No gears or belt
- Low noise levels
- Pro electronic controller (4kW)
- Tripod or receiver mounted



Reliable air supply, day after day

The open, fixed speed CMPV01 - CMPV04 models are small and compact and with noise levels as low as 62 dB(A). They are ideally suited to light industrial and workshop applications where the compressed air outlet needs to be situated close to the point of use.

Designed and built with the highest levels of efficiency and energy savings in mind, our engineers have developed rotary vane compressors for the twenty first century, whilst retaining features that have helped build BroomWade's reputation for quality and reliability around the world.

Tripod or Receiver mounted:

- 50 / 60Hz
- 1.1 - 4kW
- 10 bar
- 0.1 - 0.6 m³/min
- 4 - 20 cfm

Designed for you... built to last

Providing up to 100,000+ operating hours due to their simple and integral direct drive design, these rotary vane compressors deliver clean, dry and pulse free, quality air straight from the outlet – requiring less downstream equipment. Operating at low speeds (1,450 - 1,760rpm) results in low noise, low stresses and long life.

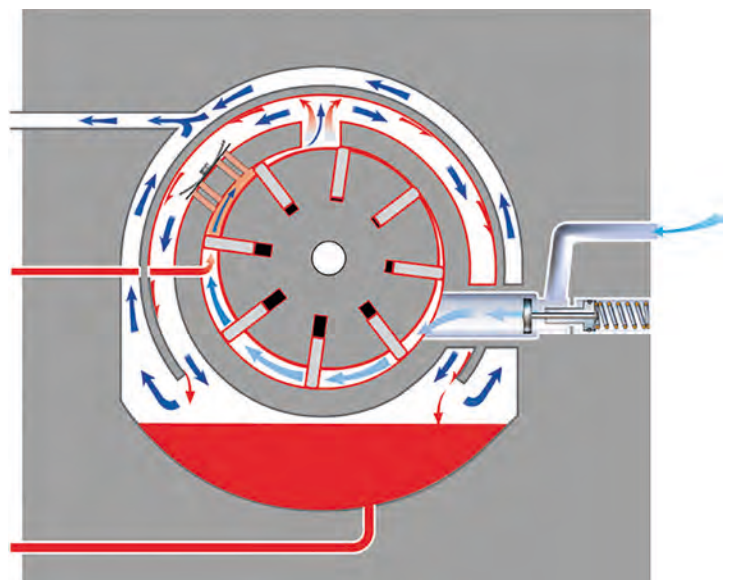


The Rotary Vane Principle

- Air is drawn in through the intake valve
- Air is contained between the rotor and the stator wall
- Air is compressed by decreasing volume, oil is continually injected to cool, seal and lubricate
- High pressure air passes into the primary oil separator
- Remaining traces of oil are removed in a final separator element, providing high quality air
- System air passes through the aftercooler, removing most of the condensate
- Oil is circulated by differential internal air pressure – it passes through an air-blast
- Oil cooler and filter before being returned into the compressor
- Air flow is regulated by an inbuilt modulation system

Lowest noise levels

There's quiet and then there's rotary vane quiet. Our rotary vane's noise levels are as low as 62 dB(A), even in an unclosed unit. Our compressors are often located at the point of use with little impact on the working environment.



PREMIUM OIL-FREE

ROTARY SCROLL AIR COMPRESSORS 4 - 15kW

Benefits

- 100% oil-free design
- High reliability
- Continuous operation, 100% duty cycle
- Energy efficient
- Low vibration and sound levels
- Compact design
- Low maintenance due to less moving parts



Cutting edge technology development

Setting new standards for air purity, these oil-free scroll compressors are ISO 8573-1 CLASS 0 compliant. Offering not only 100% oil-free air, but also improved energy efficiency, these compressors deliver extremely quiet operation and contain less moving parts which means lower maintenance and higher reliability.

Superior compressor package

Designed to meet the strict requirements for contaminant free, oil-free, clean air applications, the scroll compressor range is made up of Simplex units at 4, 6 and 8kW, and Duplex units at 7, 11 and 15kW – all featuring a very clean, simple and serviceable layout.

- Oil & contaminant free air
- Motor power from 4 to 15kW
- Volume flow from 21.2 to 106.0 m³/hr
- 8 or 10 bar options

Scroll compression explained

- An orbiting (rotating) scroll and fixed scroll housing are mated to create the compression chambers
- The continual movement of the orbiting scroll moves atmospheric air from the intake toward the centre, compressing the air into progressively smaller areas
- The compressed air is directed to the centre discharge port of the compressor
- Discharge pressure is accomplished during multiple stages of compression, resulting in a continuous intake suction and discharge



OIL FREE CLASS: ZERO

Everything under control

Different controller options are available for the scroll compressors. A basic relay panel is fitted as standard to Simplex models, or the optional deluxe HMI electronic controller can be installed, with easy-to-use navigation and friendly graphics, delivering interactive and intuitive information to your fingertips.

With integral web server built in, via ModBus TCP ethernet connection, the HMI controller provides visibility to the compressor system from any computer or mobile device with internet connection.



Simplex basic relay panel

- NEMA 1, UL508A Labelled Panel
- Magnetic Contactor with Overload Protection
- 115V Control Circuit Transformer with Fusing
- Door Mounted TOA Switch
- Green Power On Light
- Emergency Stop
- Reset Button
- Run Time Meter
- Pressure Gauge



Deluxe HMI

- 3.5" Full Colour Touch Screen
- PLC Controlled
- Lead/Lag Control with Forced Alternation
- System Capacity and Operation Trending
- 26 Language Options
- 24VDC Power Supply with Fusing
- System Run Time Meter
- Alarm/Fault Log
- System Discharge Pressure
- Pump Discharge Temperature
- System Maintenance Timers
- Integral Webserver
- Modbus TCP Interface over Ethernet

PORTABLE ROTARY SCREW COMPRESSORS

15.5kW

Benefits

- Portable
- Tailored compressor solutions
- High energy efficiency
- Low emissions
- Compact & lightweight design
- Numerous options and accessories



Designed for **the most demanding conditions**

High-precision construction projects demand that the efficiency and reliability of compressors is of the highest calibre. BroomWade's portable compressors have a reputation within the industry for just that – compressors that meet the requirements of numerous mobile compressed air applications.

The CMP series from BroomWade is constantly evolving and guarantees high energy efficiency, low emissions and many other innovations, which make daily operations and maintenance tasks much easier.

Powerful alternative to electrical tools

Small, compact and lightweight, at only 165kg weight with 1.4 m³/min at 7 bar. Perfect for a wide-range of repair and installation jobs.

Electric start as standard

Easy to start and flexible operation.

Honda GX 630V

Air cooled petrol engine.



Ensure the efficiency of your air station

Genuine BroomWade parts

BroomWade compressed air systems are specifically designed and developed to provide smart and affordable air solutions, wherever and whenever you need them.

The long-term reliability and efficiency of your compressed air system depends upon using only genuine BroomWade parts and consumables. With BroomWade service partners providing a fast and reliable service, optimum efficiency of your compressed air system is ensured for years to come.

Extended 5 year warranty programme

For lubricated screw compressors (11 - 75kW).

- Total commitment to quality and worry free ownership
- Simple and free of charge extended warranty scheme



BroomWade Genuine Parts

Enjoy complete peace of mind.

Genuine BroomWade parts and lubricants ensure best performance and reliability is maintained.

- Minimum losses contributing to energy savings
- Long service life, even under harsh conditions
- High reliability



AIR TREATMENT PRODUCTS



Complete range of compressed air treatment products

- Filters
- Condensate separators
- Differential pressure indicators & accessories
- Refrigeration dryers
- Adsorption dryers
- Condensate drains
- Activated carbon towers
- Generators
- Aftercoolers
- Oil/water separators



Why is compressed air treated?

Compressed air is known as “the fourth utility” – just like electricity or water, it is an essential input across all fields of industrial manufacturing, necessary to keep production lines moving.

When air is initially pulled into a compressor, it often contains pollutants, dirt particles and water vapour, which condenses into liquid water when the air is compressed. These impurities can cause disruptions in your operations, leading to substantial but avoidable

costs. To avoid expensive production breakdowns, compressed air must be oil-free, clean and dry. An efficient and smart air solution is more than a line of high-quality compressors. It is a combination of air generation, filtering, drying, condensation and purification expertise and products. BroomWade's complete compressed air systems provide not only compression packages, but a full range of air treatment systems.



Refrigeration Dryers

The use of clean, dry compressed air, ensures high levels of reliability, guarantees that quality standards are met and can reduce production costs. BroomWade compressors offer a range of drying solutions, utilising state of the art cooling technology.



Compressed Air Filters / Separators

Installed to reduce or remove contaminants from compressed air, water separators and filters are essential to the health and performance of a compressed air network. The primary function of any filter is to improve air quality, although modern demands mean this performance should not be at the expense of energy efficiency.



Adsorption Dryers

BroomWade has a broad range of adsorption dryer technologies, each of which are designed to match the specific needs of the user. At the heart of any smart air solution is the dryer, used to remove water vapour, stop condensation and prevent corrosion. Adsorption dryers additionally inhibit the growth of micro-organisms.



Condensate Drains

Removing liquid condensate from the system can be a highly energy inefficient process if not managed correctly. Most drains allow valuable compressed air to escape, forcing the compressor to produce more compressed air and waste more electrical energy. BroomWade condensate drains allow for substantial energy savings.



COMPRESSED AIR SOLUTIONS

BroomWade

YOUR COMPRESSED AIR PARTNER



BroomWade's piston compressor range is designed to cover all the possible professional uses of compressed air. Our piston compressors come in various forms and sizes, providing a truly complete range of choices.



BroomWade stationary rotary screw compressors, both fixed and variable speed drive, are the answer to the needs of small and medium-sized companies.



A modern production system and process demands increased levels of air quality. Our complete Air Treatment Range ensures product quality and efficient operation.



BroomWade also design and manufacture an enviable range of Rotary Scroll, Rotary Vane and Portable Rotary Screw compressors. All designed to provide efficiency and reliability in the most demanding applications and conditions, these compressors set new standards.

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For additional information please contact
your local representative.
Specifications subject to change without notice.

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