SCREW COMPRESSORS 30-45 kW

KSA fixed speed

KSV flexiAIR Variable Speed Technology variable speed

BOTTARINI

SCREW COMPRESSORS

GD 4 SCREW AIR END

The new GD 4 air end benefits from our policy of continuous improvement in engineering function expertise of over 50 years. We pay utmost attention to the manufacturing of our screw air ends, and we test and monitor every single item that we make. Representing the core of all our GD 4 air ends, rotors are accurately and thoroughly checked and measured by a computerized control system.

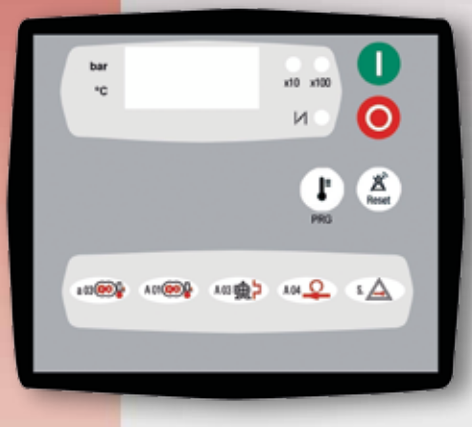
HIGH EFFICIENCY COOLING SYSTEM UP TO 45°C AMBIENT TEMPERATURE

Proper sizing of the combined radiator and CENTRIFUGAL ventilation system ensure optimum cooling of the air/oil blend and output compressed air at a temperature that is only 8 / 10 °C higher than ambient temperature.

Valid for KSA 37-45 and KSV 30-45

QUIETNESS

Appropriate canalization of the air flow provides maximum quietness for the benefit of the environment and machine operators. It also ensures optimized cooling.



Valid for KSA models only

AIR BASIC 2 CONTROL UNIT

This electronic control unit is easy to use and allows the compressor to be fully controlled. It manages and controls, in fact, the star-delta motor, the rotation direction, the ON OFF operation with automatic discharge of pressure when the machine is stopped, the remote controls, all protection and warning alarms, as well as a complete series of messages connected with ordinary maintenance.

EASY TO INSTALL

Pallet structure for safe, easy handling. No anchoring needed. Factory supplied with a fill of oil. Electrical connections are afforded via a terminal block inside the electric panel that is extremely easy to reach. An opening for the cooling circuit is provided on the cover of the housing to facilitate the natural flow of hot air and reduce the overall size of the cooling lines.

KSA

LOW MAINTENANCE COSTS

The panel structure provides easy access from all sides. All the components which need periodical maintenance - air cartridge, oil cartridge, air/oil separator, belts, oil fill and drain - can be reached from one and the same side.

Valid for KSA 37-45 and KSV 30-45

BELT TRANSMISSION WITH AUTOMATIC TENSIONING SYSTEM

Equipped with POLY-V belt with automatic tensioning system, high flexibility, minimum diameter, suitable for high speed and providing 20,000 working hours, noiseless, maintenance-free.

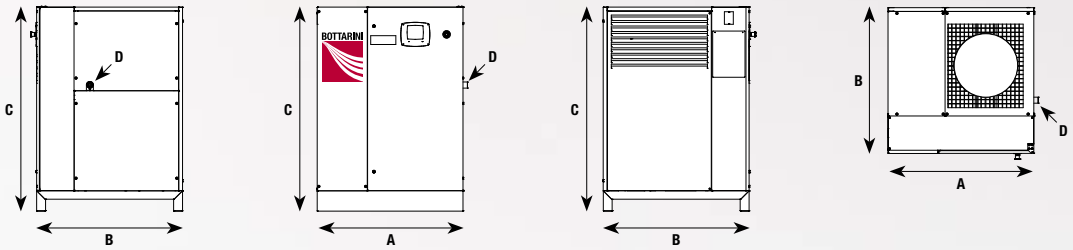
SUCTION VALVE

Improved fluid-mechanical efficiency is ensured by a new vertical design suction valve. Intake-air flows through a straight-line path, which guarantees lower load loss. ON/OFF operation and unloading is controlled via a solenoid valve. This valve concept has been specially designed to keep the number of components down to a minimum, so as to ensure long-lasting durability and low maintenance requirements.

Valid for KSA models only

ELECTRIC CONTROL BOARD

Star delta starting. Control working pressure trough pressure transducer. Electrical components from leading brands.



Technical data

IP 55 Class F

MOD.	REF.	m³/min Max.	Bar	KW	dB(A)	Weight	Dimensions A	B	C	OUT BSP D
KSA 30	CC1110088	5,00	7,5							
KSA 30	CC1110089	4,19	10	30	71	640	1150	1150	1610	1"
KSA 30	CC1110090	3,43	13							
KSA 37	CC1110091	6,35	7,5							
KSA 37	CC1110092	5,65	10	37	68	784	1150	1150	1610	1 - 1/4"
KSA 37	CC1110093	4,71	13							
KSA 45	CC1110094	7,01	7,5							
KSA 45	CC1110095	6,10	10	45	72	800	1150	1150	1610	1 - 1/4"
KSA 45	CC1110096	5,20	13							

* Air flow rate measured according to standards ISO 1217, ed.4, ANNEX E – 2009 and test code / Pneurop/Cagi PN 2 CPTC2 at the following working pressure: 7 bar versions at 7,5/8/8,5 bar; 9 bar versions at 10 bar; 12 bar versions at 13 bar.
** Sound pressure level measured according to standards ISO 2151 and ISO 3744 at 1 m distance in a free field.
WARNING: in particular indoor installation environments, the noise may increase by as much as 6_10 dB(A) due to sound reflections against the walls.

The manufacturer may change the above-mentioned technical specifications without prior notice.

KSA

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flexiAIR Variable Speed Technology

THE CORRECT RESPONSE TO THE CHANGE OF AIR DEMAND

Valid for KSV models only

ELECTRICAL COMPONENTS

Completing the equipment of the KSV range is a set of leading-brand electrical components that are extremely easy to find on the market worldwide, and IP 55 electric motors (class F).

AIRSMART™ CONTROLLER

Complete, simple and intuitive. Combined with our inverter provides excellent energy savings.

INVERTER

Generously sized and reliable. Are the result of long experience.

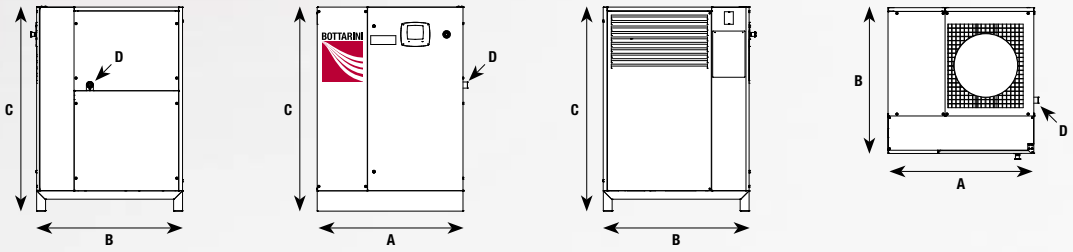
THE AIRSMART™ CONTROLLER ORCHESTRATING YOUR COMPRESSED AIR SYSTEM.

Simplicity. The AirSmartTM Controller was designed to make the operators' interface with the variable speed drive transparent. You don't need to be an expert on variable speed drives to operate our compressor. The controller takes care of the details. The controller automatically adjusts the compressor performance to meet your changing air system demands - saving you energy euro. Changing the discharge pressure is as easy as pressing a button.

Communication & Sequencing. The optional communication module allows the KSV Series units to talk to each other and other compressors to optimize system efficiency. This isn't just an hour balancing, on/off sequencing scheme. Our controller allows the system to truly optimize efficiency because it knows the capabilities of other machines and orchestrates their operation.

Advanced Display. The controller has a four line display with menus and tactile buttons for easy navigation. Two lines display operating information such as pressure, temperature, operating hours, etc. while the other two lines display advisory messages, shutdown messages, and service contact information.

Valid for KSV models only



Technical data

MOD.	REF.	m³/min Max.	m³/min Min.	Bar	KW	dB(A)	Weight	A	B	C	D
					IP 55 Class F			Dimensions			OUT BSP
KSV 30	CC1110088V	5,09	1,14	7,5							
KSV 30	CC1110089V	4,48	0,90	10	30	63	760	1150	1150	1610	1"
KSV 30	CC1110090V	3,76	0,54	13							
KSV 37	CC1110091V	5,91	1,39	7,5							
KSV 37	CC1110092V	5,01	1,04	10	37	64	820	1150	1150	1610	1 - 1/4"
KSV 37	CC1110093V	4,26	0,74	13							
KSV 45	CC1110094V	6,89	1,76	7,5							
KSV 45	CC1110095V	6,29	1,44	10	45	65	836	1150	1150	1610	1 - 1/4"
KSV 45	CC1110096V	5,24	1,05	13							

* Air flow rate measured according to standards ISO 1217, ed.4, ANNEX E – 2009 and test code / Pneurop/Cagi PN 2 CPTC2 at the following working pressure: 7 bar versions at 7,5/8/8,5 bar; 9 bar versions at 10 bar; 12 bar versions at 13 bar.

** Sound pressure level (at 70% load) measured according to standards ISO 2151 and ISO 3744 at 1 m distance in a free field.

WARNING: in particular indoor installation environments, the noise may increase by as much as 6_10 dB(A) due to sound reflections against the walls.

The manufacturer may change the above-mentioned technical specifications without prior notice.

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KSV

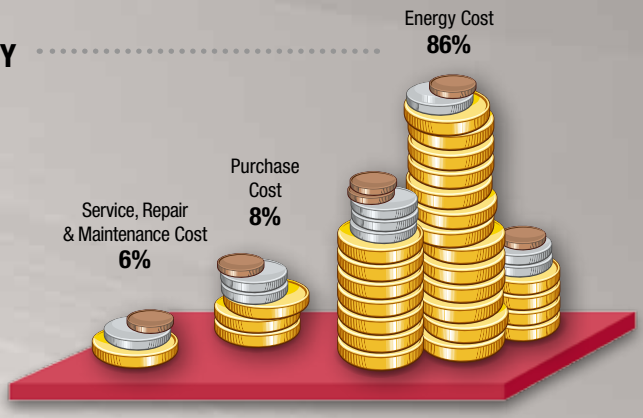
flexiAIR Variable Speed Technology

The result is an extremely quiet and environment friendly compressor with reduced electrical input and easily recyclable materials.

= Energy savings and lower CO2 emissions into the environment

THE RIGHT SOLUTION SAVES YOU MONEY

Compressed air is not free and has a big impact on plant productivity.
The wrong air system is costly - in the form of excessive energy, repair and maintenance costs, downtime, poor compressed air quality, unacceptable noise levels and more.
System design and compressor choice are important decisions with long lasting implications.



COST OF COMPRESSED AIR OVER 5 YEARS

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
30	€ 9.000	€ 12.000	€ 15.000	€ 18.000	€ 21.000	€ 24.000
37	€ 11.100	€ 14.800	€ 18.500	€ 22.200	€ 25.900	€ 29.600
45	€ 13.500	€ 18.000	€ 22.500	€ 27.000	€ 31.500	€ 36.000

Note: Hours of operation based on two 8hrs-shifts, 6 days per week. Calculations based on nominal kW.

KSV flexiAIR Variable Speed Technology

Allows substantial energy savings of at least 25% of the energy cost

Maintenance is as easy as ever.

FAST AND EASY SERVICE

These compressors are designed to ensure easy access to maintenance points.
All panels on the structure can be easily removed to allow full access to all service points. Also, the limited number of moving parts reduces service costs.

SERVICE NETWORK

Our large network of approved Gardner Denver dealers is always at your service to ensure the smooth running of your compressor.
Gardner Denver can ensure the swift supply of replacement parts to respond to different system needs.

AFTER-SALES SERVICE

Gardner Denver offers a full range of after-sales services to fulfil all client needs.
Using original spare parts will allow customers to save time and money in the long run.

KSV

van Elewout Kompressoren

Bottarini is a brand of Gardner Denver

Gardner Denver

Your Ultimate Source for Vacuum and Pressure