

CHAMPION

BIG ON QUALITY. CHAMPION ON PRICE!



June 2019

www.ChampionAirtech.com

KSA / KSV SCREW COMPRESSORS

At a glance...

 **Nominal Pressure**
5 - 10bar g

 **Motor Power**
90kW

 **Volume Flow**
4.3 - 15.6 m³/min



The **New** Generation

Industries across the globe rely on Champion rotary screw compressors for the supply of high quality compressed air

The KSA / KSV 90 Series air compressor range incorporates the best of Champion technology, design and quality, to deliver reliable, economical and efficient performance in a completely new package.

High efficiency air end

KSA / KSV Series screw compression elements are manufactured in-house using the latest CNC rotor grinding machinery, coupled with on-line laser technology, in order to maintain precise manufacturing tolerances.

Champion's commitment to quality ensures KSA / KSV Series compressors offer the highest levels of reliability and performance with low operating costs throughout the compressor's life.

Maximum durability

We maximise service life and durability by eliminating elastomer and thermoplastic pipe and tube in system pressure lines, replacing them with corrosion resistant stainless steel tubing and passive zinc coated carbon steel piping. For ease of maintenance we complete the connection with viton sealed, grooved couplings and self-sealing high pressure compression fittings.

Optimised drive concept

With direct or gear drive coupling, the belt free drive KSA / KSV 90 Series compressor range not only reduces transmission losses, it improves efficiency and reduces noise. Most importantly, it delivers greater reliability and reduced maintenance costs.

Energy efficient motor

High efficiency TEFC IE3 electric motors are fitted as standard to the entire KSA / KSV 90 Series screw compressor range, reducing not only your power consumption but also your CO₂ emissions.





KSV flexiAIR

Variable Speed Technology

Variable speed technology allows substantial energy savings of at least 25% of the energy cost

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.

Heavy duty inlet filter

Dirt and dust that enter the compressor can adversely impact lubricant and machine life. An inlet filter with an efficiency rating of 99% is standard equipment on the KSA / KSV Series compressor range.

Designed for serviceability

Maintenance personnel welcome the KSA / KSV series compressor range. Service access is quick and easy with all doors able to be removed in seconds.

We've also made sure serviceable components including filters are easily accessible and no piping needs to be disconnected to service the separator.

C-MASTER controller

The control system ensures reliable operation and protects your investment by continuously monitoring the operational parameters, essential to reducing your running costs.



The controller also has the capability to have programmable inputs and outputs, control additional equipment, as well as providing the following features with clear readable instructions.

- Smart energy cost calculation
- Clear text indicator display
- Multiple languages
- Microprocessor controller
- Pressure, temperature & runtime display
- High temperature, high pressure & reverse-phase protection function
- Filter and oil change reminder
- Low 24V / DC control voltage.
- Intelligent protection in extreme environments
- Safe operation protection
- Multiple pressure/temperature input points
- Integrated sequence control (up to 8 compressors)
- RS-232 series communications for local monitoring
- Optional RS-485 ethernet communications for remote monitoring via Airbus485™ or Modbus RTU



KSA / KSV 90 SERIES

KSA 90 Series: Screw Compressors, Fixed Speed

Design: Oil flooded, single stage rotary screw compressor, direct drive, star / delta starting

Pressure Range: 7.5 - 10 bar

Electric motor: 90kW - IE3



KSA SERIES CODE	TYPE	KSA 90	
		CMP1165285	CMP1165286
Maximum pressure	bar	7.5	10
Capacity at working pressure	m³/min	15.3	13.8
Operating Voltage, 50 Hz	400V	•	•
C-Master Controller		•	•
Noise Level	dB(A)	75	75
Weight	kg	1500	
Dimensions (LxWxH)	mm	2100 x 1300 x 1580	
Compressed Air Delivery Connection		EN 10226 G2"	

OPTIONAL

Altern. Voltage 380V/60Hz	
Extended 5 years Warranty	CC1180793
Anti- corrosion %	
Food Grade Oil	
Kit for external heat recovery (heat recovery unit not included)	
iConn retrofit kit	ZS1185504
Oil Heater	

SERVICE & PARTS

Standard Service Kit KSA90	CC1154033
Advanced Service Kit KSA90	CC1154034
ChampLUBE Screw Lubricant 20Lt (2x20Lt needed)	CC1180020

* Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

KSV 90 Series: Variable Speed Screw Compressors

Design: Oil flooded, Single stage rotary screw compressor, direct drive

Pressure Range: 5 - 10 bar

Electric motor: 90kW - IE3



KSV SERIES CODE	TYPE	KSV 90 CMP1164880
Pressure range	bar	5 - 10
Flow rate min - max	m ³ /min	4.3 - 15.6
Operating Voltage, 50 Hz	400V	•
Control voltage	24V	•
C-Master Controller		•
Noise level at 100% load	dB(A)	77
Weight	kg	1640
Dimensions (LxWxH)	mm	2104 x 1300 x 1580
Compressed Air Delivery Connection		EN 10226 G2 "

OPTIONAL	
Altern. Voltage 380V/60Hz	
Extended 5 years Warranty	CC1180793
Anti- corrosion %	
Food Grade Oil	
Kit for external heat recovery (heat recovery unit not included)	
iConn retrofit kit	ZS1185504
Oil Heater	
SERVICE & PARTS	
Standard Service Kit KSV90	CC1154035
Advanced Service Kit KSV90	CC1154036
ChampLUBE Screw Lubricant 20Lt (2x20Lt needed)	CC1180020

* Service intervals are defined by calendar months or operating hours, whichever occurs first. In dirty ambient conditions service interval must be halved.

COMPRESSED AIR SOLUTIONS

CHAMPION

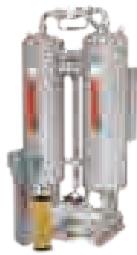
YOUR COMPRESSED AIR PARTNER



Champion'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.



Champion 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.



Champion 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.