CHAMPION
by Gardner Denver

Screw Compressor 55 kW

KS 97 model

Smart and affordable

KS 97 Compressor Features

ENDURO® Air End

Reliability and effectiveness are the strong points of our ENDURO® air ends, which are the result of a process of continuous research sover many decades ago and aimed at enhancing the production process.

Gardner Denver pay the utmost attention to the production of our air ends, testing and monitoring every single piece we manufacture. The rotors, which are the heart of all the ENDURO® air ends, are carefully and thoroughly checked and measured by a computerised control system. The quality of our air end is assessed by means of modern 3D measurement systems that are installed in a special environment at monitored temperature.

AirSmart™ Control Unit – How to control your compressed air plant

All the compressor settings are adjusted by means of the AirSmart™ electronic control unit which allows adjustment of the operation parameters of the compressor. The control unit has a 4-line display with menu and touch buttons for ease of use. Two lines provide information such as pressure, temperature and operation hours, etc. while the other two lines show warning messages in case of breakdown, messages regarding suggested spare parts and information about the nearest technical service office. The following variables have been set within the control unit:

- Reference pressure, operation pressures
- Service intervals
- Programmable I/O
- Operation parameters
- Alarm and stop limits

Easy to install

Pallet structure for safe, easy handling with no anchoring needed. Electrical connections are 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.

Low maintenance costs

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

Base components

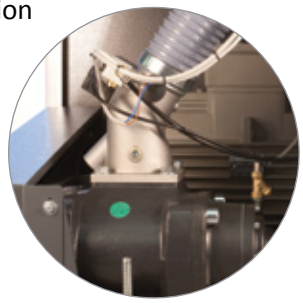
- ENDURO® Plus screw
- Suction filter
- Start-delta starting
- Protection relay
- Automatic capacity control
- Electronic Control Unit (Air Smart)
- On/Off switch with emergency button
- IP55, class F Electric motors
- Rotation control
- Oil level monitoring
- Electropneumatic suction valve
- Belt drive with automatic tension system
- Safety devices for:
  - Motor overtemperature
  - Compressor overtemperature
  - Compressor overtemperature (safety valve)
- Alarms for:
  - Wrong rotation
  - Motor overload
  - Compressor overtemperature, alarm at 105°C, stop at 110°C
  - Standard maintenance intervals
- Indicators:
  - Pressure
  - Temperature
  - Hour meter indicating total number of hours in operation and at full load
- Epoxy powder paint
- Output compressed air coolant
- Thermostatic mixing valve

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 and 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.



Electric control board

Star delta starting with controlled working pressure through a pressure transducer and market leading electrical componants.

Maintenance is as easy as ever

Fast and easy service

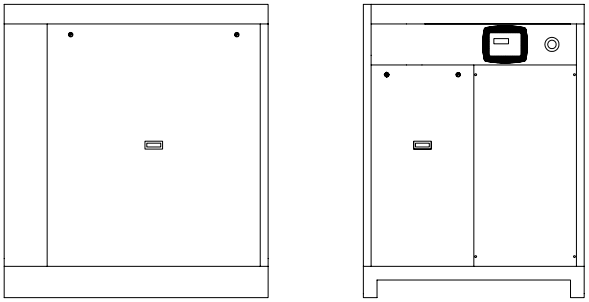
These compressors are designed to ensure easy access to maintenance points. All panels on the structure can be easily removed to allow full access to all service points. Also, the limited number of moving parts reduces service costs.

Service network

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

After-sales service

Champion offers a full range of aftersales services to fulfil all customer requirements. Using original and genuine parts will allow customers to save time and money over the life of the compressor.



Technical data

Model	Reference	FAD[1]		IP 55 ClassF	Nominal Pressure	Noise Level	Volt	Weight	Dimensions L x W x H mm			OUT BSP
		m³/min	cfm	kW	Bar	dB(A)[2]	Hz	kg	Length	Width	Height	D
KS 97	CMP1031282	9.65	341	55	7.5	76	VOLT 400 +-5%/50 - 60 Hz	1100	1130	1350	1500	1½"G
KS 97	CMP1031283	9.50	336	55	8.5	76		1100	1130	1350	1500	1½"G
KS 97	CMP1031284	8.30	293	55	10	76		1100	1130	1350	1500	1½"G
KS 97	CMP1031285	6.75	239	55	13	76		1100	1130	1350	1500	1½"G

* 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.

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For additional information please contact your local representative.

Specifications subject to change without notice.

G7 12.GB.09/15.CI