



 **BOTTARINI**

# KS

**Screw compressors**  
**30 - 90 Kw**



# COMPRESSORS **KS**



## **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 started various decades ago and aimed at enhancing the production process.

Here at Gardner Denver we pay our 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 computerized control system. The quality of our air end is assessed by means of modern 3D measurement systems that are installed in a special room 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. The control unit allows to adjust the operation parameters of the compressor.

The control unit has a 4-line display with menu and touch buttons for a simple use. Two lines provide different information, such as: pressure, temperature, operation hours, etc. while the other two lines show warning messages in case of breakdown, messages regarding the 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. 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.



## **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.

## **BASE COMPONENTS**

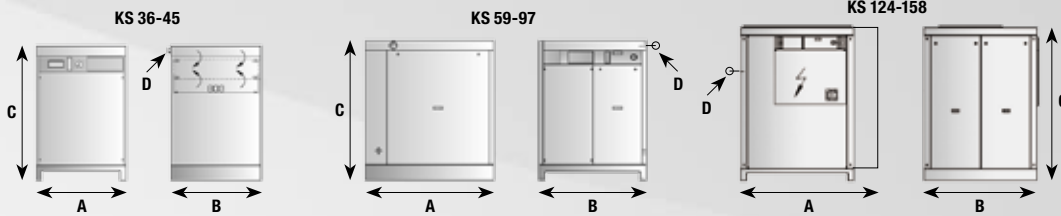
- ENDURO® Plus screw
- Suction filter
- Start-delta starting
- Protection relay
- Automatic capacity control
- Electronic Control Unit (Air Smart)
- On/Off switch with emergency button
- Electric motors, IP55, class F
- Rotation control
- Oil level monitoring
- Electropneumatic suction valve
- Belt drive 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



EXTERNAL SPIN-ON AIR/OIL FILTER SEPARATOR (KS 36-45)  
Quick to replace.



AUTOMATIC BELT TENSION SYSTEM (KS 59-158)  
For proper, consistent operation of belts.



## Technical data

MOD.	REFERENCE	m <sup>3</sup> /min	cfm	HP	KW	Bar	dB(A)	VOLT/Hz	Weight	Dimensions				OUT BSP
										A	B	C	D	
KS 45	221295E	5,00	176,5	40	30	7,5	76	VOLT 400 +5% / 50 - 60 Hz	450	1300	850	1300	1"	
KS 45	221299E	4,50	159	40	30	8,5	76		450	1300	850	1300	1"	
KS 45	221294E	4,10	145	40	30	10	76		450	1300	850	1300	1"	
KS 45	221300E	3,30	116,5	40	30	13	76		450	1300	850	1300	1"	
KS 59	221389E	5,84	206,5	50	37	7,5	76		650	1130	1350	1500	1 1/2"G	
KS 59	221388E	5,60	198	50	37	8,5	76		650	1130	1350	1500	1 1/2"G	
KS 59	221390E	5,10	180	50	37	10	76		650	1130	1350	1500	1 1/2"G	
KS 59	221391E	4,40	155,5	50	37	13	76		650	1130	1350	1500	1 1/2"G	
KS 68	CC1031277	6,95	245,5	60	45	7,5	76		770	1130	1350	1500	1 1/2"G	
KS 68	CC1031278	6,80	240,5	60	45	8,5	76		770	1130	1350	1500	1 1/2"G	
KS 68	CC1031279	6,20	219	60	45	10	76		770	1130	1350	1500	1 1/2"G	
KS 68	CC1031280	5,55	196	60	45	13	76		770	1130	1350	1500	1 1/2"G	
KS 97	CC1031282	9,65	341	75	55	7,5	76		1100	1130	1350	1500	1 1/2"G	
KS 97	CC1031283	9,50	336	75	55	8,5	76		1100	1130	1350	1500	1 1/2"G	
KS 97	CC1031284	8,30	293	75	55	10	76		1100	1130	1350	1500	1 1/2"G	
KS 97	CC1031285	6,75	239	75	55	13	76		1100	1130	1350	1500	1 1/2"G	
KS 124	501471B	12,20	431	100	75	7,5	76		2000	1850	1400	1930	2"	
KS 124	501472B	10,50	371	100	75	10	76		2000	1850	1400	1930	2"	
KS 124	501473B	8,70	307	100	75	13	76		2000	1850	1400	1930	2"	
KS 158	501474B	15,40	544	125	90	7,5	76		2500	1850	1400	1930	2"	
KS 158	501475B	12,90	456	125	90	10	76	2500	1850	1400	1930	2"		
KS 158	501476B	10,80	382	125	90	13	76	2500	1850	1400	1930	2"		

\* 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.

## 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.



## Product range

KA .....



KSA .....



KDV .....



GDP .....



Accessories ...



Piston  
Compressors



# KS 45 - 158