

FIXED & VARIABLE SPEED

SCREW COMPRESSORS

2.2 - 90kW

- Oil flooded
- Single stage rotary screw compressor
- Fixed and variable speed models
- Star / Delta starting
- Pressure range 5 13 bar
- Electric motor 2.2kW to 90kW IE3
- · Modular design including receivers and dryers
- C-PRO 1.0, C-PRO 2.0 & C- MASTER
- Extended warranties available





KA SERIES

SMART COMPRESSOR DESIGN

At a glance...



Nominal Pressure

10 bar g



Motor Power 2.2 - 5.5kW



Volume Flow 0.24 - 0.67 m³/min



A series of technologically advanced compressors, resulting from an accurate research and development process

The result is an extremely quiet compressor, environmentally friendly thanks to a reduced power consumption and the use of easily recyclable materials.

Noise levels

Very low noise levels have been reached (61 - 66 dB(A)) thanks to optimised air and cooling, allowing the installation of the compressor at the point of use.

Start/Stop operation

The Start/Stop mode reduces the energy consumption as the compressor runs only when needed.

C-PRO 1.0 control unit (optional for KA 4 and 5)

The C-PRO 1.0 electronic controller provides the user with data on total hours of operation, operating temperature and additional information such as:



- Air filter replacement
- · Oil filter replacement
- Separator filter replacement
- Oil change

- Regular maintenance advice
- Pressure setting adjustment can be easily adjusted via the controller



KAS

KA5

CHAMPION

Increased reliability combined with reduced piping and connections is made possible by an integrated block acting as air-oil separation and filter. The effectiveness of filtering ensures extremely low levels of residual oil, equal to 3 ppm max. This block houses oil filter, oil separation filter, minimum pressure valve, safety valve, oil thermostat and check valve.



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 to a minimum, so as to ensure long-lasting durability and low maintenance requirements.





Transmission

The pre-tested belt transmission is installed with balanced cast iron pulleys and bevel bearing. Belts are of quality construction to ensure the utmost reliability. The belt tensioning system has been simplified thanks to a single adjustment screw, which guarantees easier control and replacement.

Standard equipment

- Star / Delta start (Premium versions)
- C-PRO 1.0 control unit (Premium versions)
- Overload relay
- Start / Stop control key with pressure switch (KA2-KA5)
- Start / Stop push-button. ON / OFF main switch (premium versions)
- IE 3 electric motors, insulation class: F
- Oil level monitoring, visual level indicator
- Transmission belt
- Oil thermostat
- Safety devices for:
 - Motor overheating
 - Compressor overheating, automatic stop at 110 °C
- Indicators of the operating conditions:
- Pressure
- Hour meter
- Enclosure with epoxy powder coating

KA package compressors with cooling cycle dryer, filters and tank

The KA package compressors can be easily and quickly installed in any environment.

Optional

A series of options are available to ensure a complete and integrated solution. The KA Package compressors can be fitted with a kit of filters complete with by-pass, which guarantee that air is treated before entering the plant, in turn reducing the creation of condensate in the network.





CT: Energy saving refrigeration dryers

With the introduction of CT, the new generation of energy-saving refrigeration dryers, our industry not only redeveloped its product offering for the compressed air treatment but also the concept of thermal storage operation, that led to the international success of the CT dryers. The new FlexiDry offers important advantages in terms of energy saving, reliability and operating costs as the CT dryer is able to adapt itself to the real needs of the compressed air system. The dryers regulation system controls the dryer operation, ensuring the most effective method of compressed air drying, in turn achieving high energy saving and excellent dew point stability in dynamic conditions.

- · New high efficiency heat exchanger
- · Highest energy savings
- Minimum pressure drops
- Lowest environmental impact
- Reduced carbon footprint
- Easy installation
- · Easy serviceability
- · Maximum reliability



Maintenance is as easy as ever

Fast and easy service

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



Technical data

KA 2-5 Series: Screw Compressors

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

Pressure Range: 10 bar

Electric motor: 2.2 to 5.5kW – IE3



KA SERIES	TYPE	KA2 230V	KA 2	KA 3	KA 4	KA 5
CODE		AC-50 hz - 1 Phase CMP1049082B1	CMP1026757B1	CMP1026766B1	CMP1026767B1	CMP1026756B1
	hor	10	10	10	10	10
Maximum pressure	bar m³/min	0.24	0.24	0.36	0.53	0.67
Capacity at maximum pressure Drive motor IP 55 / class F – IE3	kW	2.2	2.2	3	0.55	
		Z.Z _	2.2		•	5.5
Operating voltage, 50 – 60Hz	380 – 400V			-		-
Noise level	dB(A)	61	61	61	62	66
Air cooled	Lan	400	400	400	400	440
Weight	kg	106	106	106	106	119
Dimensions [L x W x H]	mm	620 x 600 x 840	620 x 600 x 840	620 x 600 x 840	620 x 600 x 840	620 x 600 x 840
OUT BSP		1/2"	1/2"	1/2"	1/2"	1/2"
COMPRESSOR MOUNTED ON 270 LT TANK						
Code		CC1049084B1	CMP1026758B1	CMP1026759B1	CMP1026760B1	CMP1026761B1
Weight	kg	191	191	191	191	204
Dimensions [L x W x H]	mm		1,540 x 600 x 1,400		-	1.540 x 600 x 1.400
	11111	1,0 10 X 000 X 1, 100	1,6 16 X 666 X 1,166	1,0 10 X 000 X 1, 100	1,6 16 X 666 X 1,166	1,0 10 X 000 X 1,100
COMPRESSOR MOUNTED ON 500 LT TANK					0110400070004	0110400074004
Code		-	-	_	CMP1026739B1	CMP1026740B1
Weight	kg	_	_	_	251	264
Dimensions [L x W x H]	mm	-	_	-	1,950 x 680 x 1,520	$ 1,950 \times 680 \times 1,520$
PACKAGE VERSION, KA / CT / 270 ¹						
Code		CMP1194504	CMP1026762BE2	CMP1026763BE2	CMP1026764BE2	CMP1026765BE2
Weight	kg	213	213	213	220	231
Dimensions [L x W x H]	mm	1,540 x 600 x 1,400	1,540 x 600 x 1,400	1,540 x 600 x 1,400	1,540 x 600 x 1,400	1,540 x 600 x 1,400
PACKAGE VERSION, KA / CT / 500 ¹		, ,	,	,	,	,
Code	_				CMP1026741BE2	CMD4026742DE2
	lea		_	_	280	291
Weight	kg		_	_		
Dimensions [L x W x H]	mm	-	_	-	1,950 x 680 x 1,520	1,950 X 000 X 1,520
PREMIUM VERSION [COMPLETE WITH C-PRO	1.0 ELECTRO	NIC CONTROLLER]				
COMPRESSOR BASE LOAD						
Code		-	-	_	CMP1031244B1	CMP1031242B1
COMPRESSOR MOUNTED ON 270 LT TANK						
Code		_	_	_	CMP1034065B1	CMP1034068B1
COMPRESSOR MOUNTED ON 500 LT TANK					OIIII 1004000B1	OIIII 100-1000B1
		_			OMD4004000D4	0140400400004
Code		-	-	-	CMP1034066B1	CMP1034069B1
PACKAGE VERSION, KA / CT / 270 ¹						
Code		-	_	_	CMP1034071BE2	CMP1034074BE2
PACKAGE VERSION, KA / CT / 500 ¹						
Code		_	_	_	CMP1034072BE2	CMP1034075RF2
			_	_	OWN 1034072DL2	OWN 1054075DL2
OPTIONAL						
Alternative voltage, 230V / 50 - 60Hz ³						
Filter Kit with bypass for dryer CT ^{2] 4]}	CC1179488					
Filter Kit with bypass for dryer CT ^{2] 4]}	CC1179489					
Retro Fit Filter Kit	CC1199110					
Retro Fit Filter Kit	CC1199111					
Food grade Oil (19 Litres) 3)						
Automatic drain discharge for tank	CC1032413					
Anti-corrosion %						
SERVICE & PARTS						
Service Kit for every 4000h or 12 months	CC1089649					
Service Kit for every 8000h or 24 months	CC1089650					
Champl LIRE Screw Food grade lubricant	22100000					

¹ Compressor mounted on tank with refrigeration cycle dryer (CT). Dew point + 3° C with compressor air inlet temperature + 35° and per ISO 7183. 2 Kit includes ceramic filter.

CC1180019

ChampLUBE Screw Food grade lubricant

4 x 4 Litres

^{3]} Only for KA 2–3 and KA 4–5 Premium. ^{4]} Factory fitted or retrofit kit.

COMPRESSED AIR SOLUTIONS





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.



www.championairtech.com

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

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