

## B - KOOL refrigerant dryer

### Models




**B-KOOL 680i | B-KOOL 680s | B-KOOL II 680i**

- Significantly extended filter cartridge life
- Dries the air before getting into the filter
- Saves money and protects the environment



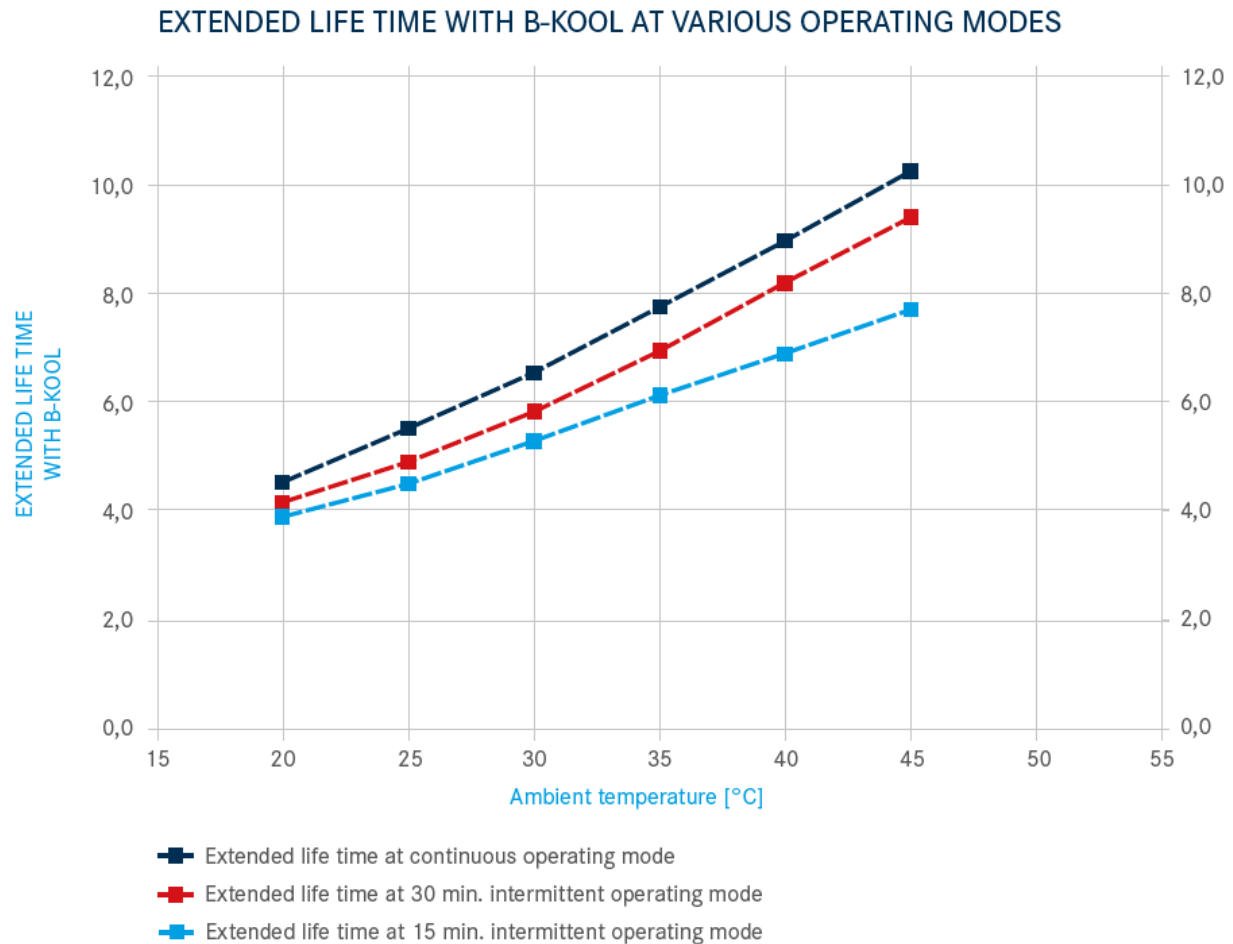
The refrigerant type dryer B-KOOL by BAUER cools the compressed air and extends the filter cartridge life time. The B-KOOL unit is integrated into the high pressure piping of the compressor after the final oil and water separator. It can be mounted on top of an unit with Super Silent housing or placed separately.

### VERSIONS

Model		Pressure range	Application	Voltage/ Frequency
B-KOOL II 680i		100-350 bar 350-550 bar	New MINI-VERTICUS & VERTICUS only (Super Silent version)	200-240 VAC 50/60 Hz (1ph)  100-127 VAC 60 Hz (1ph)
B-KOOL 680i		100-350 bar 350-500 bar	PE-VE and (old) VERTICUS 5 only (Super Silent version)	
B-KOOL 680s		100-350 bar 350-500 bar	Compressor units in open version with purification system P41 or P61	

It cools the hot, saturated and compressed air to a temperature of approx. +3°C. Consequently a larger proportion of the water vapour condenses in the oil and water separator, extending the lifetime of the filter cartridge. Depending on the ambient temperature, the life time of the cartridges can be significantly extended. As the ambient temperature increases, B-KOOL works more efficiently.

## FILTER CARTRIDGE LIFE TIME EXTENSION WITH B-KOOL



The “B-KOOL CONTROL” controls and monitors the most important functions (operation indication, failure message, temperature indication, test condensate drain, etc.).

## TECHNICAL DATA

Model	B-KOOL
Medium	Air and Nitrox (up to 40% O <sub>2</sub> )
Ambient temperature range	+5 °C to +45°C
Refrigerant	R 134 a
Max inlet temperature	max. 60°C
Max working pressure	350 bar / 500 bar / 550 bar (only B-KOOL II 680i) Max. final safety valve pressure of compressor!
Min working pressure	100 bar
Permissible compressor charging rate	200 – 700 l/min (10 l cylinder filling 0-200 bar ) 200 – 650 l/min (according to ISO 1217)
Power supply	200 – 240 VAC 50/60 Hz (single phase)
Power consumption	max. 550W at 50 Hz, 600 W at 60 Hz

## DIMENSION, WEIGHT AND CONNECTION

Model	B-KOOL II 680i	B-KOOL 680i	B-KOOL 680s
Dimension (L x W x H)	792 x 550 x 390 mm	760 x 346 x 535 mm	386 x 695 x 565 mm
Weight approx.	58 kg	50 kg	48 kg
Air inlet connection	8S (bulkhead fitting)	8S (bulkhead fitting)	8S (bulkhead fitting)
Air outlet connection	8S (bulkhead fitting)	8S (bulkhead fitting)	8S (bulkhead fitting)
Condensate outlet connection	8 mm hose	8 mm hose	8 mm hose

## MOUNTING KITS

Compressor units	Purification system	Pressure range	B-KOOL II 680i (integrated)	B-KOOL 680i (integrated)	B-KOOL 680s (stand-alone)
MINI-VERTICUS & VERTICUS	P41, P61	365 bar	x	--	x
		420 bar	x	--	x
PE-VE	P41, P61	350 bar	--	x	x
		420 bar	--	x	x
MARINER 200/250/320	P41/350	350 bar	--	--	x

Installation kit is mandatory and to be ordered separately.

## RULES, STANDARDS AND GENERAL INFORMATION

### Relevant EU Directives (where applicable)

- › EC Machinery Directive (2006/42/EC)
- › EU Pressure Equipment Directive (2014/68/EU)
- › EU Low Voltage Directive 2014/35/EU
- › EU Electromagnetic Compatibility (EMV) 2014/30/EU

### Applied national standards and technical specifications, in particular

- › Betriebssicherheitsverordnung - BetrSichV (German Industrial Safety Regulation)
- › AD 2000
- › Unfallverhütungsvorschrift (BGR; German Accident Prevention Regulations) BGR 500
- › All BAUER filter housings are designed, manufactured and tested in line with Accident Prevention Regulations and regulations under AD-2000 provisions and PED2014/68/EU.

**Documentation:** 1 x operating manual and parts list with exploded view drawing on DVD

**Design:** In line with the state of the art according to DIN, VDE, TÜV and Accident Prevention regulations

**Testing:** In line with Bauer Standard as per DIN EN 10204 - 3.1

Otherwise the **General Terms and Conditions of BAUER KOMPRESSOREN (AGB)** in the version valid at the time of contract conclusion apply. These Terms & Conditions can be viewed and downloaded at the website [www.bauer-kompressoren.com](http://www.bauer-kompressoren.com), or sent by BAUER on request.

All information is given without assumption of liability and subject to technical changes.