

## B – KOOL 680i and 680s refrigerant dryer

Models:

### B-KOOL 680i | B-KOOL 680s

- Up to 11 times 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 a VERTICUS 5 (Super Silent housing), on an extended base frame or placed separately.

#### VERSIONS

- The B-KOOL 680i on top integrated in the compressor unit (VERTICUS 5 with Super Silent housing)
- The B-KOOL 680s to be placed separately alongside the compressor



Integriert auf einem VERTICUS 5:  
 B-KOOL 680i



Stand-alone B-KOOL 680s

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 extended by a factor of 11 compared to none B-KOOL operation. As the ambient temperature increases, B-KOOL works more efficiently.

## FILTER CARTRIDGE LIFE TIME EXTENSION WITH B-KOOL

Ambient temperature	Lifetime extension
20°C	4,8 x
30°C	7,2 x
40°C	9,7 x
45°C	11 x

(The mentioned values are average values. The real lifetime extension depends on several factors, such as the installation situation and the operating conditions.)

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 680i and B-KOOL 680s
Medium	Air
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
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	100 – 127 VAC 50 Hz or 200 – 240 VAC 50/60 Hz
Power consumption	max. 550W at 50 Hz, 610 W at 60Hz

## DIMENSION, WEIGHT AND CONNECTION

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

**MOUNTING KITS**

Compressor	Purification system	B-KOOL 680i	B-KOOL 680s
PE-VE F03	P 42*	129014	129015
PE-VE F03	P 61	129016	129018
PE-VE F03 - 420 bar	P 41 & P 61	129056	129060
VERTICUS 5	P 41 & P 61	129016	129018
VERTICUS 5	P 81	129017	129019
MINI VERTICUS III	P 41 & P 61	-	160028
MARINER 320	P 41	-	129021

\*B-KOOL + P 42: not possible: instead of P 42, a P 41 will be supplied.

Installation kit is mandatory and to be ordered separately.

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**Relevant EC Directives (where applicable)**

- › EC Machinery Directive (2006/42/EC)
- › EC Pressure Equipment Directive (97/23/EC)
- › EC Low Voltage Directive 2006/95/EC
- › EC Electromagnetic Compatibility (EMC) 2004/108/EC

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

- › Betriebssicherheitsverordnung (German Industrial Safety Regulation) of 27 September 2002
- › AD 2000
- › Technische Regeln Druckgase (TRG; **Technical Regulations for Compressed Gases**): TRG 400, 401, 402 (w/o permanent premises) and TRG 790
- › 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 DGRL97/23EG.

**Documentation:** 1x 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.

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