

BEKOKAT®

**TOP-QUALITY,
OIL-FREE COMPRESSED AIR**



BEKOKAT® FOR EXACTING SPECIFICATION

With highly sensitive applications, conventional compressed air treatment has certain technical and economic limits - especially in respect of residual oil content.

This calls for a fresh approach and different technology. BEKO's catalyst technology sets new standards in compressed air quality.

Intensive development work to exploit the potential of catalyst technology has resulted in the BEKOKAT® – a device that combines superior efficiency with high reliability.

The new BEKOKAT® represents a real breakthrough offering truly oil free compressed air from lubricated compressors without compromise.



+ 1 :

**OIL FREE COMPRESSED AIR,
EVERY TIME. BETTER THAN
ISO8573-1, CLASS 1 OIL CONTENT**

+ 2 :

**INDEPENDENT OF AMBIENT
CONDITIONS**

+ 3 :

**ENVIRONMENTALLY FRIENDLY,
NO HAZARDOUS WASTE.
NO CARTRIDGES.
CLEAN, OIL-FREE CONDENSATE**

+ 4 :

**PARTIAL LOAD OPERATION
WITHOUT RESTRICTION.
GRANULATE LIFETIME
≥ 20,000 OPERATING HOURS**

+ 5 :

**FOR ABSOLUTE PROCESS SAFETY.
FAST RESPONSE TO ANY CHANGE**



BEKOKAT®

FUNCTION

COMPLETE CONVERSION

The compressed air of oil-lubricated compressors contains hydrocarbons in the form of lubricants and oil as well as air constituents in the form of gas, vapour and aerosols. The BEKOKAT® system completely transforms hydrocarbons by total oxidation to produce carbon dioxide and water. The air is then cooled down on its way out of the BEKOKAT® by a heat exchanger

CONSTANT, EVEN TEMPERATURE

For compressed air treatment using a BEKOKAT® unit, a pressure vessel is filled with a specially developed granulate. The entire vessel is heated to an operating temperature of 150 °C. The oil particles in the compressed air that flows through the heated vessel are completely transformed inside the pores of the catalyst granulate, resulting in water and carbon dioxide.



OIL-FREE COMPRESSED AIR COOLS, PROTECTS AND SECURES

For the automobile industry, the shipbuilding industry, and for the machine-, plant- and tool construction branch, metal parts are produced to demanding specifications. Laser cutting machines are also employed here to cut stainless-steel plates.

Constantly oil-free compressed air, provided by BEKOKAT®, has an important share in the process-reliable operation of laser technology. Compressed air processed in this manner protects gold- or molybdenum-coated mirrors against oil or aerosols, and cools sensitive components.

With this new method, the product quality lies at a constantly high level.



ALSO DURING PARTIAL-LOAD OPERATION: TOP-QUALITY COMPRESSED AIR

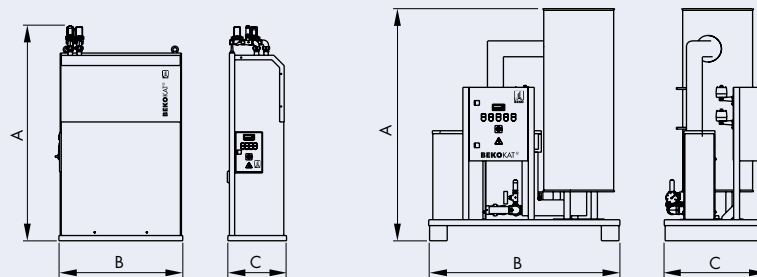
BEKOKAT® allows consistently oil-free compressed air with a maximum residual oil content of down to a barely measurable 0.001 milligrams per cubic metre of compressed air - a quality that is required in extremely demanding production processes.

The condensate which accumulates during the cooling of the compressed air is also absolutely oil-free and can be introduced into the sewerage system without being processed.

The enormously long service life of the special BEKOKAT® granulate is also extremely advantageous as far as profitability is concerned: it only needs to be replaced after a good 20,000 operating hours.

BEKOKAT®

TECHNICAL DATA



TECHNICAL DATA

Model	Volume flow			max. pressure bar (psi)	Connection	Weight kg (lb)	Dimensions mm (inch)			Installed capacity kW
	Nm ² /min	Nm ² /h	scfm				A	B	C	
CC - 060	1	60	35	16 (232)	1"	130 (290)	1440 (57)	800 (32)	420 (17)	1,15
CC - 120	2	120	75	16 (232)	1"	200 (440)	1440 (57)	950 (38)	450 (18)	1,6
CC - 180	3	180	106	16 (232)	1"	275 (610)	1540 (61)	1200 (48)	520 (21)	2,1
CC - 360	6	360	212	12 (174)	1½"	315 (695)	1600 (63)	1300 (52)	750 (30)	3
CC - 720	12	720	424	12 (174)	2"	515 (1160)	1700 (67)	1500 (60)	880 (35)	6,5
CC - 1200	20	1200	706	11 (160)	DN65	805 (1775)	2175 (86)	1800 (71)	1200 (48)	13

Attainable oil residue ≤ 0.003 mg/m³, under optimum conditions 0.001 mg/m³

The residual oil content can be monitored continuously using BEKO's METPOINT® OCV

Mains voltage: type 060-120: 230 V/1Ph./50Hz, type 180-1200: 400 V/3Ph./50Hz

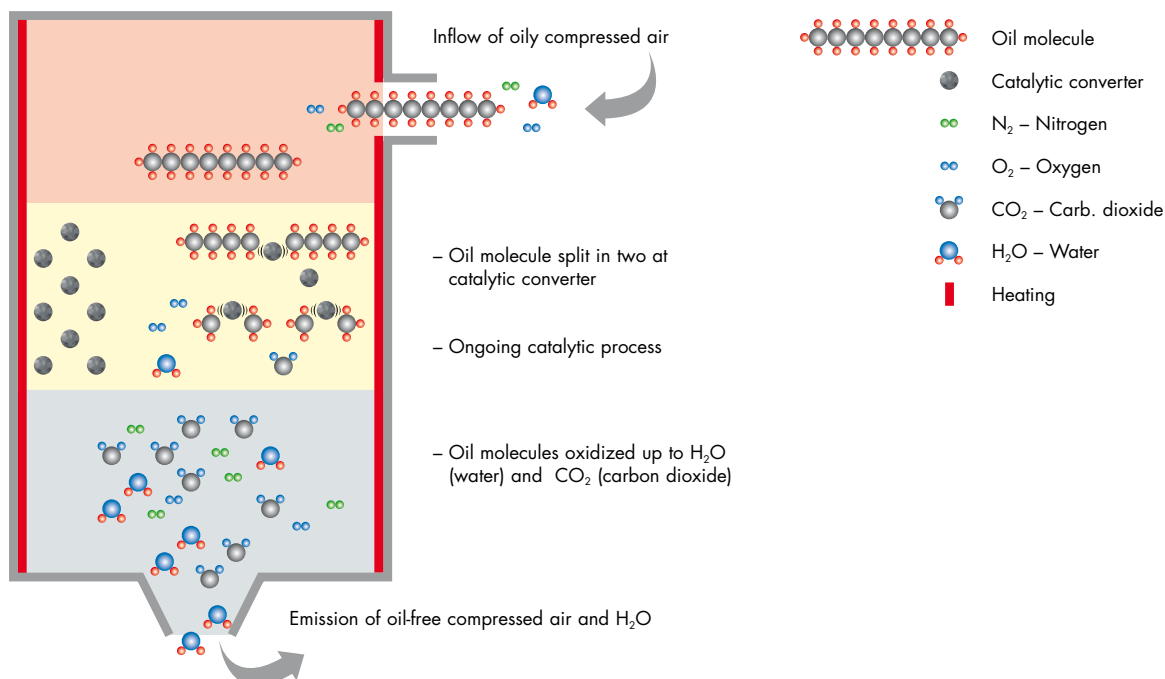
Other models or voltages upon enquiry. Model CC - 360 or higher without housing.

Operating pressure bar (e)	4	5	6	7	8	9	10	11	12	13	14	15	16
Operating pressure psi (g)	58	72.5	87	101.5	116	130.5	145	159.5	174	188.5	203	217.5	232
Correction factor (coefficient)	0.63	0.75	0.88	1	1.13	1.25	1.36	1.5	1.63	1.75	1.88	2	2.1

As a standard, all BEKOKAT® devices are sized on an operating pressure of 7 bar (g).

The performance values refer to an inlet pressure of 7 bar (g). At a deviant inlet pressure, please multiply by the correction factor above.

CATALYST FUNCTION



BEKOKAT® -

CONSTANT SUPPLY OF OIL-FREE COMPRESSED AIR FOR:



ALWAYS ACCURATELY INFORMED: METPOINT® OCV ALLOWS PERMANENT MONITORING OF THE OIL CONTENT IN COMPRESSED AIR FLOWS.



PHARMACEUTICAL INDUSTRY



CHEMICAL INDUSTRY



FOOD, BEVERAGES AND TOBACCO INDUSTRY



MEDICAL TECHNOLOGY



SURFACE TECHNOLOGY



PACKAGING INDUSTRY

BEKO

HIGH-QUALITY COMPRESSED AIR

BEKOMAT®

The convincing concept for condensate discharge

ÖWAMAT®

Clean and safe oil/water separation

BEKOSPLIT®

Splitting plants for the reliable, economic and environmentally friendly treatment of oil-water emulsions

CLEARPOINT®

Flow-optimised, reliable filters and water separators for compressed air and industrial gases

DRYPOINT®

Refrigeration dryers, adsorption dryers, membrane dryers

EVERDRY®

Compressed air drying for large volume flows

BEKOKAT®

Catalytic compressed-air processing for reliable oil-free compressed air.

BEKOBLIZZ®

Optimised cooling processes using deep-cooled, dry compressed air

METPOINT®

For the monitoring, control and optimisation of the compressed-air system

BEKOFLOW®

Innovative, cost-reducing compressed air pipe system



BEKO TECHNOLOGIES GMBH

Im Taubental 7
41468 Neuss
www.beko.de

Telefon +49 2131 988-0
Telefax +49 2131 988-900
beko@beko.de



Subject to technical changes without prior notice. Specifications do not represent physical characteristics in the sense referred to in the German Civil Code.

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