

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.



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.



OIL-FREE COMPRESSED AIR COOLS, PROTECTS AND SECURES

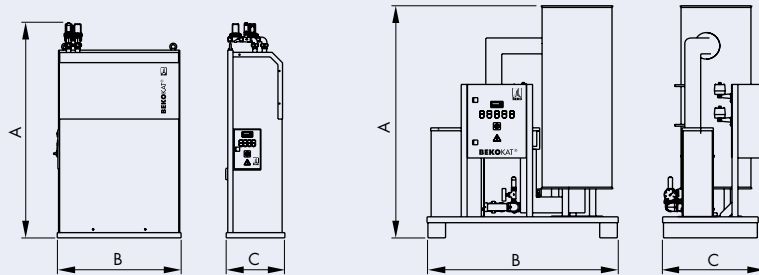
For the automobile industry, the shipbuilding industry, and for the machine-, plant- and tool construction branch, metal parts are produced to demanding specifications. Laser cutting machines are also employed here to cut stainless-steel plates.

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.

BEKOKAT®

TECHNICAL DATA



TECHNICAL DATA

CC - 060, CC - 120, CC - 180

CC - 360, CC - 720, CC - 1200

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

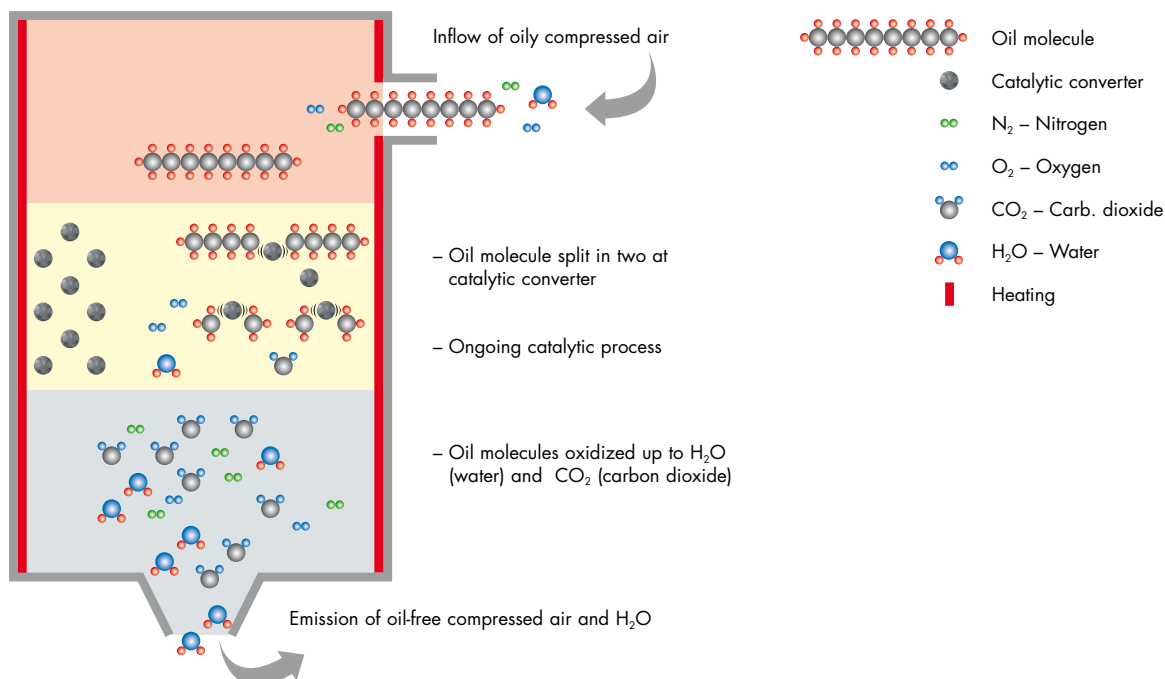
Other models or voltages upon enquiry. Model CC - 360 or higher without housing.

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



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