



## BEKOKAT®

for generating oil-free and bacteria-free compressed air



# BEKOKAT® Hydrocarbon Catalytic Systems



## Oil-free Air

The exclusive technology used in the BEKOKAT continuously produces oil-free compressed air from any compressor type down to 0.003 mg/m<sup>3</sup> and exceeds ISO Class 1 standards.



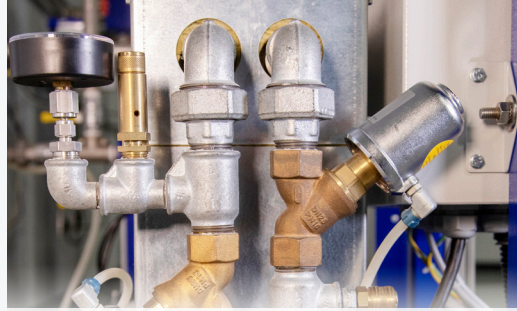
## Germ-free Air

The additional benefit of the operating principle is that the compressed air output is also amicrobic and spore-free compressed air in accordance with ISO 8573-7.



## Performance

Process reliability is guaranteed where the flow of oil-free compressed air maintains a stable residual oil content level independent of any ambient hydrocarbon conditions even under partial loads.



## Controls

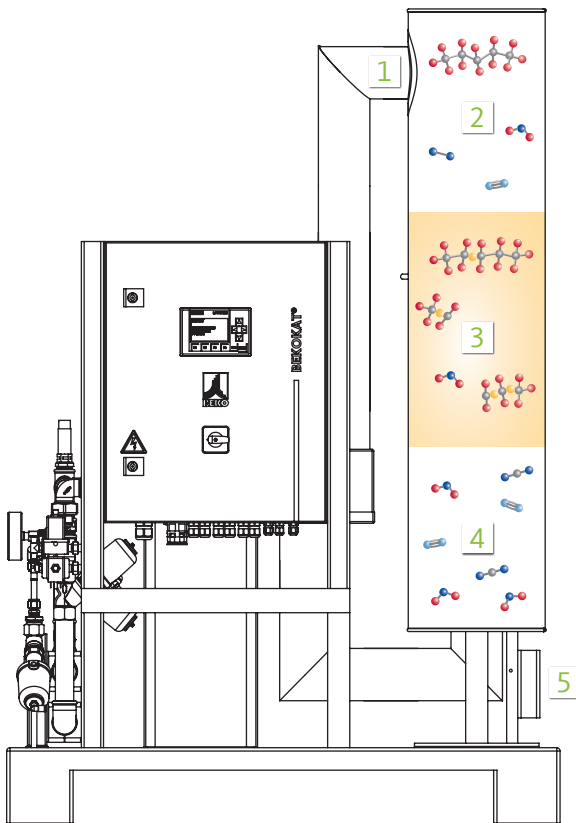
Using advanced and responsive machine controls together with our valving system we ensure machine and plant safety providing you with a true hydrocarbon firewall.



## Lifecycle Costs

With maintenance intervals of 24,000 hours and without the need to worry about oil filter or seal failures, users gain low lifecycle costs, quick ROI, and maximum protection.

## How it Works



1. Compressed air containing oil from air compression and/or ambient hydrocarbons, bacteria, and viruses
2. Oil molecules will be cracked into smaller molecular chains in the catalytic converter. This process needs only oxygen and heat.
3. Oil molecules will be cracked into smaller and smaller molecular chains as they continue to interact with the catalytic material
4. Hydrocarbon molecules are oxidized into H<sub>2</sub>O and CO<sub>2</sub>
5. Oil and germ-free compressed air in accordance with the ISO 8573 standard

Click or scan to watch on



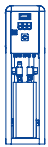
YouTube

Oil molecule (carbon and hydrogen)	
Catalytic material	
N (nitrogen)	
O <sub>2</sub> (oxygen)	
CO <sub>2</sub> (carbon dioxide)	
H <sub>2</sub> O (water)	

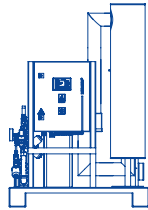
# BEKOKAT<sup>®</sup> Hydrocarbon Catalytic Systems

Hydrocarbons are present in every compressed air stream even if you use oil-free compression due to the re-entry of hydrocarbons from the ambient air. Additionally, oil-free compressors are costly and not without potential failures (e.g. main crankcase seal failure) that can be catastrophic to an application. The only way to truly guarantee oil-free air (ISO 8573-1, Class 1) is through supplementary processing and assistance from a catalyst to break down hydrocarbon molecules in the compressed air stream.

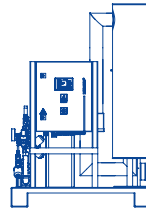
## Compare



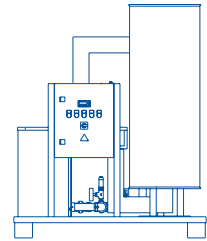
iCC 010 Line  
Compact Series



iCC 035 - iCC 070 Line  
Low Volume Series



iCC 105 - iCC 425 Line  
Midrange Volume Series



iCC 705 Line  
Large Volume Series

### Flow Rates

10 scfm

35 - 70 scfm

105 - 425 scfm

705 scfm

### Standard Operating Pressure

160 psig

232 psig

232 psig

160 psig

### Standard Operating Voltage

230 Vac | 1 Ph | 60 Hz

230 Vac | 1 Ph | 60 Hz

460 Vac | 3 Ph | 60 Hz

460 Vac | 3 Ph | 60 Hz

### Power Consumption

Installed: 0.58 kW  
Average: 0.20 kW

Installed: 1.0 - 1.64 kW  
Average: 0.52-0.86 kW

Installed: 2.64 - 8.74 kW  
Average: 1.33 - 3.26 kW

Installed: 13.80 kW  
Average: 3.75 kW

### ISO 8573 Air Quality Class | TÜV Certified to Meet Class 1

Class 1 | Yes

Class 1 | Yes

Class 1 | Yes

Class 1 | Yes

### Available Options

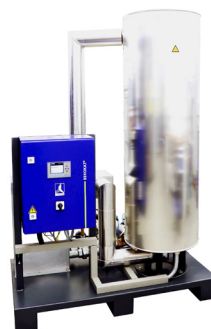
Cover3More extended warranty

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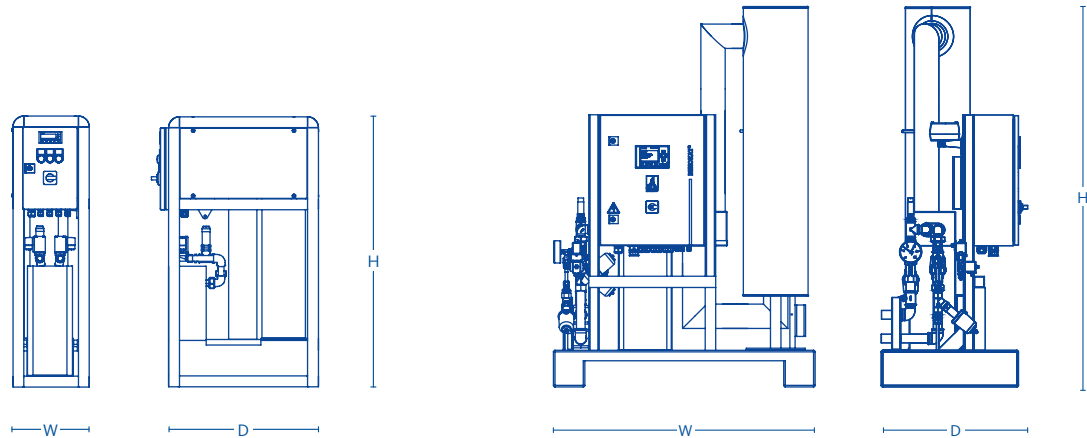
## Product Family



## BEKOKAT® Catalytic Conversion Systems

for complete oil and germ removal from compressed air up to 700 scfm with a single unit

- › Attainable residual oil at outlet:  $\leq .003 \text{ mg/m}^3$
- › Oil-free air independent from ambient conditions
- › Produces germ-free, sterile air
- › ISO 8573-1, Class 1 certified
- › Min. / max. ambient conditions: 41 °F / 113 °F
- › Min. / max. inlet air temperature: 41 °F / 131 °F
- › Max. operating pressure: CC 035-425: 232 psig | CC 10 & CC 705: 160 psig



BEKOKAT®	CC 010	iCC 035	iCC 070	iCC 105	iCC 210	iCC 425	iCC 705
Flow Rate (scfm)	10	35	70	105	210	425	705
Pipe Size (NPT)	1/2"	1"	1"	1¼"	1½"	2"	2½"
Installed power (kW)	0.58	1.00	1.64	2.64	5.14	8.74	13.84
Average Power (kW)	0.20	0.52	0.86	1.33	2.17	3.26	3.75

### Dimensions and Weight

H x W x D (inches)	39 x 11 x 24	57 x 40 x 22	60 x 40 x 22	60 x 40 x 22	49 x 69 x 28	75 x 60 x 30	69 x 80 x 36
Weight (lbs)	135	309	386	441	717	1,169	1,636

### Correction Factors

Operating Pressure (psig)	20	40	60	80	90	100	110	120	130	140	160	180	200	230
Correction Factor	.30	.48	.65	.82	.91	1.00	1.09	1.17	1.26	1.35	1.52	1.70	1.87	2.13

### Differential Pressure

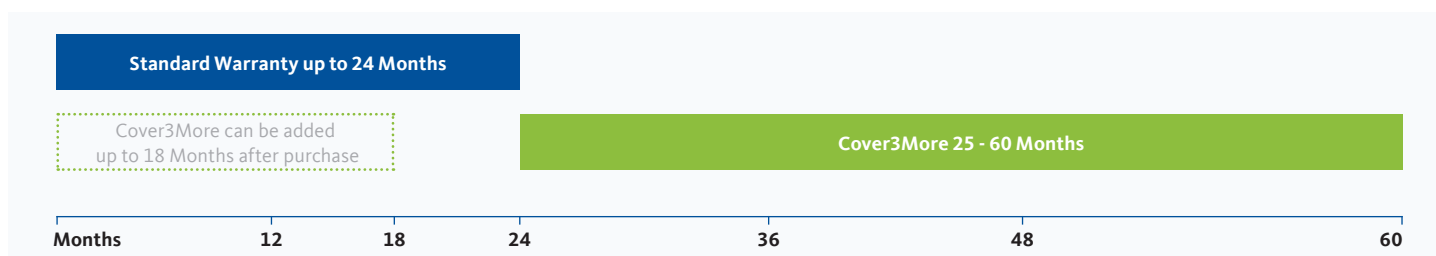
Differential Pressure at 100% Load	CC 010	iCC 035	iCC 070	iCC 105	iCC 210	iCC 425	iCC 705
psid	4.3	3.63	3.63	8.7	6.35	5.8	5.8

Differential Pressure at 50% Load	CC 010	iCC 035	iCC 070	iCC 105	iCC 210	iCC 425	iCC 705
psid	-	1.16	1.16	2.61	2.03	1.74	1.45

**+3**  
Years on all  
Products

ask your  
**sales representative**  
for complete details  
and extend your full  
warranty today

## At a Glance



Cover3More is available on all our product lines			
DRYPOINT® RA	Refrigerant Air Dryers	BEKOMAT®	Zero Air Loss Drains
DRYPOINT® X / AC	Desiccant Air Dryers	QWIK-PURE®/ÖWAMAT®	Oil-water Separators
DRYPOINT® M	Membrane Air Dryers	METPOINT®	Instrumentation
CLEARPOINT®	Filters and Water Separators	BEKOKAT®	Hydrocarbon Removal Systems

## How it Works

1. Select the product or products that you wish to cover with the extended warranty.
2. Simply add 8% to the net price of each product or call your sales representative if you need help calculating your final net price.
3. Include this information as a line item with your purchase order or purchase the warranty extension up to 18-months post-sale.

**What we need from you:** It's not much. In fact, if you are purchasing the Cover3More extended warranty with a new equipment purchase, all you have to do is include a line item on your order indicating which items you wish you cover, and we will take care of the rest. If you happen to be adding coverage to a product you've already taken delivery of, then all we need is the company name and contact information of the original purchaser, the product model number of the product to be covered, serial number, and original purchase order number or BEKO Technologies invoice number, and we will apply coverage appropriately. **Please feel free to contact us at +1 (800) 235-6797 to get started.**

All maintenance procedures, including filter element changes, must be carried out in accordance with the manual in order to maintain any warranty.

## ■ Compare

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**We give you more:** In addition to a robust, standard 2-year warranty on BEKO Technologies products, we offer our customers the option of extending the standard warranty even further with the **Cover3More** program – a low cost, all-encompassing, and simple warranty extension program.

- › Extends the standard factory warranty for an additional 3-years
- › May be purchased at any time up to 18-months post-sale
- › No hassle and easy to calculate without any hidden costs

Secure your future with a minimal investment. The **Cover3More** extended warranty program from BEKO Technologies ensures that your investment is covered for a total of 5-years at a nominal cost.

- › 2-year standard warranty covers parts and labor
- › 3-year extended warranty covers parts only, no parts restrictions
- › Significantly reduces your risk of having unexpected costs

**Reliability you can count on:** With the Cover3More extended warranty program, BEKO Technologies not only lengthens the standard warranty period by 3-years from the installation date, but also draws on the company's vast compressed air industry experience to quickly resolve any product problems you may experience in the least disruptive way possible, thereby keeping downtime to an absolute minimum. Should a repair be required, it will be handled by qualified, authorized personnel, and only original parts will be used.

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**What's in the fine print:** The optional 36-month warranty extension (i.e. Cover3More) is a limited extended warranty that covers parts only from months 25-60.

However, all of the aforementioned installation, performance, and quality requirements must still be met in order to maintain extended warranty coverage. Failure to do so will render all warranties null and void.

The limited extended warranty coverage may be purchased and applied to any of the BEKO Technologies product lines included in the scope of the Cover3More extended warranty program from the original date of purchase from BEKO Technologies to 18-months thereafter.

Extended warranty coverage may not be purchased during the final 6-months of the standard warranty coverage, which are months 19-24 from the date of shipment or at BEKO Technologies' discretion, the date of installation.

The purchase price of the Cover3More limited extended warranty is not prorated and the current published purchase price is always applied.

Should the extended warranty coverage be purchased post-delivery or post-sale, then the serial number of all products to which the warranty shall be extended must be provided to BEKO Technologies at the time of purchase of the extended warranty.



Reliable | Efficient | Innovative

What can we do for you?



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