





Cost-effective and reliable: volume-controlled condensate discharge with the BEKOMAT®

During compressed air generation and processing, the optimum quality for the application should be achieved. It is important to remove contaminants and humidity from the compressed air as these can lead to quality problems, failures or loss of production.

Condensate discharge without compressed air loss

The BEKOMAT® drains off condensate without loss of compressed air, thus reducing energy costs and CO_2 emissions. This is made possible by the integrated capacitive sensor, smart electronics for volume-controlled condensate discharge and a proven pilot-controlled solenoid valve with a special discharge diaphragm.

Suitable models for all applications

The standard model is made in corrosion-resistant aluminium, making the BEKOMAT® particularly reliable and sturdy. A special

Standard model

CO – hard-coated housing for oil-free and aggresive

silver-coloured coating protects the outside of the housing. For oil-free or aggressive condensate, we recommend the BEKOMAT® hard coated models that come in a in a glass bead blasted housing with a high-grade hard coating.

No loss of compressed air during draining

Low operating costs

> Outstanding reliability

- > Durable and resistant to dirt
- Large valve diameters prevent the formation of emulsions
- > No delicate mechanical components
- > Suitable for up to +60 °C and 63 bar (gauge)

Easy to install and virtually maintenance-free

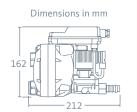
> Versatile connection options

Automated operation and monitoring

- Ready for integration into modern system monitoring installations
- Automatic start of self-cleaning process based on dirt load



Technical data	ВЕКОМ	AT® 12	ВЕ	EKOMAT® 12 C	:0	BEKOMAT® 1	L2 CO PN 63	
Max. compressor capacity*	■ 8 m³/min ▲ 6.5 m³/min ● 4 m³/min							
Max. refrigeration dryer performance*		■16 m³/min ▲ 13 m³/min • 8 m³/min						
Max. filter performance*		■ 80 m³/min ▲ 65 m³/min ● 40 m³/min						
Min./max. operating pressure		0.8 16 bar (gauge) 1.2 63 bar (gauge						
Housing	alumii	aluminium aluminium, hard-coated						
Diaphragm	AU FKM						M	
Ambient temperature				+1°C +60°C				
Weight (empty)			0.8 kg			0.9	kg	
Condensate inlet	1 x G½ (inside) [optional: NPT thread]							
Condensate discharge	$1 \times G$ % (outside); hose connector, hose $\emptyset = 10-13$ mm (inside)							
Operating voltage		230 / 200 / 115 / 100 / 48 / 24 VAC ± 10%, 50 60 Hz / 24 VDC ± 10%						
Power consumption		P < 8.0 VA (W)						
Protection class				IP 65				
Wire cross-section (mains connection)		recommended 3 x 0.75 1.5 mm ² (AWG 16 18)						
Protection		recomm	ended for AC: 1	L A slow / man	datory for DC:	1 A slow		
Contact load		ma	x. AC 250 V, D	C 30 V / 1A; m	in. DC 5V / 10	mA		
Condensate	oil-contaminated con- densate oil-contaminated condensate; oil-free, potentially aggressive condensate						lly	
Discharge performance								
Operating pressure bar (gauge)	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	> 7 bar	
Max. discharge rate (short-term) I/h	20	23	27 30				0	
Ø discharge rate I/h	0.95	1.10	1.29 1.43					



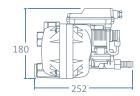
Depth: 93 Depth: 197 (PN25 | 40 | 50)

Technical data	BEKOMAT® 13 BEKOMAT® 13 CO					BEKOMAT® 13 CO PN 25 40 50		
Max. compressor performance*	■ 35 m³/min ▲ 30 m³/min ● 20 m³/min							
Max. refrigeration dryer performance*		■70 m³/min ▲ 60 m³/min ● 40 m³/min						
Max. filter performance*		■350 m³/min ▲ 300 m³/min ● 200 m³/min						
Min./max. operating pressure		0.8	3 16 bar (gau	ge)		1.2 25 or 40 bar or 50 bar (gauge)		
Housing	alumin	ium		alum	inium, hard-co	ated		
Diaphragm			AU			FKM		
Ambient temperature				+1 °C +60 °C				
Weight (empty)			2 kg			2.:	2.2 kg	
Condensate inlet			2 x G½ (insi	de) [optional:	NPT thread]			
Condensate discharge	$1 \times G\frac{1}{2}$ (outside); hose connector, hose $\emptyset = 13 \text{ mm}$ (inside) connector,					L x G% (inside); hose onnector, hose Ø = 13 mm (inside)		
Operating voltage	2	230 / 200 / 115 / 100 / 48 / 24 VAC ± 10%, 50 60 Hz / 24 VDC ± 10%						
Power consumption				P < 8.0 VA (W)				
Protection class		IP 65						
Wire cross-section (mains connection)		recommended 3 x 0.75 1.5 mm ² (AWG 16 18)						
Protection		recomm	ended for AC: 1	1 A slow / man	datory for DC:	1 A slow		
Contact load		ma	x. AC 250 V, D	C 30 V / 1A; m	in. DC 5V / 10	mA		
Condensate	oil-contaminated con- densate oil-contaminated condensate; oil-free, potentially aggressive condensate					ially		
Discharge performance								
Operating pressure bar (gauge)	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	> 7 bar	
Max. discharge rate (short-term)** I/h	50	60	80	90	100	120		
Ø discharge rate l/h	3.17 4.12 5 5.7 6.35 7.61					.61		

Technical data	BEKOMAT® 14 BEKOMAT® 14 CO				BEKOMAT® 14 CO PN 25					
Max. compressor capacity*	■150 m³/min ▲ 130 m³/min ● 90 m³/min									
Max. refrigeration dryer performance*	■ 300 m³/min ▲ 260 m³/min ● 180 m³/min									
Max. filter performance*		■ 1500 m³/min ▲ 1300 m³/min ● 900 m³/min								
Min./max. operating pressure		0.8 16 bar (gauge) 1.2 25 bar (
Housing	alum	inium		alumir	nium, hard-coat	ed				
Diaphragm	AU					FKM				
Ambient temperature			+1	1 °C +60 °C						
Weight (empty)			2.9 kg			3.1 k	L kg			
Condensate inlet			3 x G¾ (insid	e) [optional: NI	PT thread]					
Condensate discharge	$1 \times G\frac{1}{2}$ (outside); hose connector, hose $\emptyset = 13 \text{ mm}$ (inside)					1 x G3/8 (insignon) connections of the connection of the connectio	ector,			
Operating voltage	4	230 / 200 / 115 / 100 / 48 / 24 VAC ± 10%, 50 60 Hz / 24 VDC ± 10%								
Power consumption			Р	< 8.0 VA (W)						
Protection class		IP 65								
Wire cross-section (mains connection)		recommended 3 x 0.75 1.5 mm² (AWG 16 18)								
Protection		recomme	nded for AC: 1	A slow / manda	tory for DC: 1	A slow				
Contact load		max	. AC 250 V, DC	30 V / 1A; min.	DC 5V / 10 mA	1				
Condensate	oil-contaminated con- densate oil-contaminated condensate; oil-free, potentially aggressive condensate									
Discharge performance										
Operating pressure bar (gauge)	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	> 7 bar			
Max. discharge rate (short-term)** I/h	170		250 350					250		
Ø discharge rate I/h	29.10	31.74 33.33								

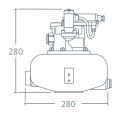
Technical data		BEKOMAT® 16 CO							
Max. compressor performance*		■ 1700 m³/min ▲ 1400 m³/min • 1000 m³/min							
Max. refrigeration dryer performance*		■3400 m³/min ▲ 2800 m³/min ● 2000 m³/min							
Max. filter performance*		- - -							
Min./max. operating pressure		0.8 16 bar (gauge)							
Housing			alum	inium, hard-co	ated				
Diaphragm				AU					
Ambient temperature				+1 °C +60 °C					
Weight (empty)				5.9 kg					
Condensate inlet		2 x G¾ (inside), 1 x G1 (inside) [optional: NPT adapter]							
Condensate discharge		1 x G½ (inside)							
Operating voltage		230 / 200 / 115 / 100 / 48 / 24 VAC \pm 10%, 50 60 Hz / 24 VDC \pm 10%							
Power consumption		P < 8.0 VA (W)							
Protection class		IP 65							
Wire cross-section (mains connection)		recommended 3 x 0.75 1.5 mm ² (AWG 16 18)							
Protection		recommended for AC: 1 A slow / mandatory for DC: 1 A slow							
Contact load		max. AC 250 V, DC 30 V / 1A; min. DC 5V / 10 mA							
Condensate	oil-contaminated condensate / oil-free, potentially aggressive condensate / aggressive condensate from compressed air compressors (after prior testing)						condensate		
Discharge performance									
Operating pressure bar (gauge)	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	> 7 bar		
Max. discharge rate (short-term)** I/h	950	1150	14	00	1700				
Ø discharge rate I/h	226	226 243 263 274							

Dimensions in mm



Depth: 120 Depth: 242 (PN25)

Dimensions in mm



Depth: 260

Climate – a key factor



The general climate and the ambient temperature are important factors for the formation of condensate in compressed air systems. That is why we quote separate performance data of our BEKOMAT® models for three climate zones:

- e.g. Northern Europe, Canada, Northern USA, Central Asia
- ▲ e.g. Central and Southern Europe, Central America
- e.g. South-East Asian coastal regions, Oceania, Amazon and Congo regions
 Temperature range: 1 to + 60 °C

Matching maintenance kit

Like all high-performance devices, the BEKOMAT® needs to be serviced from time to time. Our maintenance kits make this an easy task. If you require assistance, contact our service technicians, who are also qualified to examine and assess your entire compressed air system for further optimisation.



For BEKOMAT®	12	12 CO	12 CO PN 63	13	13 CO	13 CO PN 25 40 50	14	14 CO	14 CO PN 25	16 CO
Wearing parts kit	2000049	2000049	2000748	2000067	2000067	2000366	2000731	2000731	2002556	2000087

Do you have questions about the best way of processing your compressed air?

We have the answers! We offer efficient solutions for any type of processing chain. Please contact us with all your queries. We would be delighted to tell you more about our condensate

treatment, filtration, drying, measuring and process technology, and our comprehensive services.

Visit us at



BEKO TECHNOLOGIES GMBH

Im Taubental 7 | D-41468 Neuss

Tel. +49 2131 988 - 1000 info@beko-technologies.com www.beko-technologies.de



