



Condensate technology | BEKOMAT® 12 | 13 | 14 | 16

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 CO₂ 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 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.



Aluminium
Standard model

CO – hard-coated housing
for oil-free and aggressive
condensates

› 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)

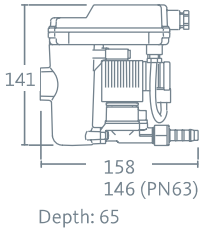
› Easy to install and virtually maintenance-free

- › Versatile connection options

› Automated operation and monitoring

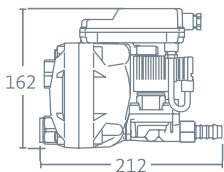
- › Ready for integration into modern system monitoring installations
- › Automatic start of self-cleaning process based on dirt load

Dimensions in mm



Technical data	BEKOMAT® 12	BEKOMAT® 12 CO	BEKOMAT® 12 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	aluminium	aluminium, hard-coated	
Diaphragm	FKM		FKM
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 x G¾ (outside); hose connector, hose Ø = 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 mm² (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-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) l/h	20	23	27 30
Ø discharge rate l/h	0.95	1.10	1.29 1.43

Dimensions in mm



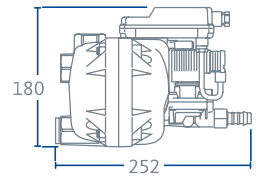
Depth: 93
Depth: 197 (PN25 | 40 | 50)

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 ... 16 bar (gauge)		1.2 ... 25 or 40 bar or 50 bar (gauge)
Housing	aluminium	aluminium, hard-coated	
Diaphragm	FKM		FKM
Ambient temperature	+1 °C ... +60 °C		
Weight (empty)	2 kg		2.2 kg
Condensate inlet	2 x G½ (inside) [optional: NPT thread]		
Condensate discharge	1 x G½ (outside); hose connector, hose Ø = 13 mm (inside)	1 x G¾ (inside); hose connector, hose Ø = 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 mm² (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-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)** l/h	50	60	80 90 100 120
Ø discharge rate l/h	3.17	4.12	5 5.7 6.35 7.61

* For more information on climate zones (■ | ▲ | ●) see reverse
** Short-term peak volume can only be achieved if the device is correctly installed according to the operating manual.
If in doubt, install a venting line.

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 (gauge)	
Housing	aluminium		aluminium, hard-coated				
Diaphragm	FKM					FKM	
Ambient temperature	+1 °C ... +60 °C						
Weight (empty)	2.9 kg					3.1 kg	
Condensate inlet	3 x G¾ (inside) [optional: NPT thread]						
Condensate discharge	1 x G½ (outside); hose connector, hose Ø = 13 mm (inside)					1 x G¾ (inside); hose connector, hose Ø = 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 mm² (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-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)** l/h	170	250			350		
Ø discharge rate l/h	29.10	31.74			33.33		

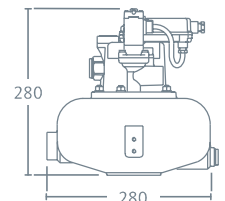
Dimensions in mm



Depth: 120
Depth: 242 (PN25)

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	aluminium, hard-coated						
Diaphragm	FKM						
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 ± 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 mm² (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)						
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)** l/h	950	1150	1400		1700		
Ø discharge rate l/h	226	243	263		274		

Dimensions in mm



Depth: 260