

Condensate Drainage

BEKOMAT® intelligent condensate drainage with true zero air loss



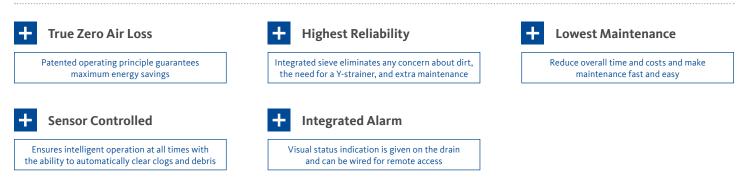


BEKOMAT® Condensate Drains

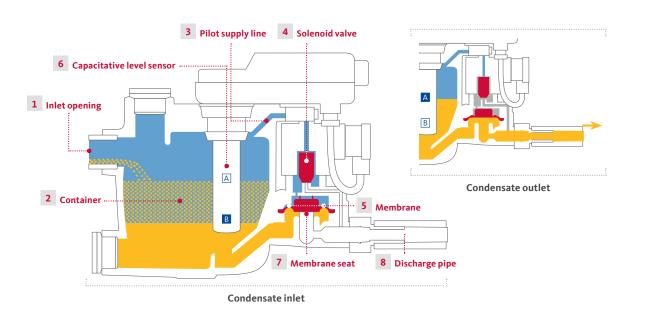
At a Glance

Condensate is a by-product of the air compression process and can be aggressive, pollutant-loaded, and/or contain oil. It exists in every compressed air application and is something that must be continuously managed. Condensate drains remove the liquids and are an often overlooked component of the compressed air chain, yet when left unchecked can cause poor part quality, machine damage, and even bodily injury to employees. Drainage points are also one of the system areas where energy waste is highest.

Features and Benefits



How it Works



The condensate trickles through the inlet opening (1) and collects in the container (2). Initially, the valve is closed as, via the pilot supply line (3) and the solenoid valve (4), pressure differential above the membrane (5) is effected. The larger surface area above the membrane results in a high closing force. The membrane seat remains closed and leak-proof. When the container is filled with condensate, so that the capacitive level sensor (6) gets a signal at the maximum point **A**, the solenoid valve switches over and the area above the membrane is vented. As a result of the decreasing pressure above the membrane, the membrane lifts off the membrane seat (7) and the overpressure in the housing forces the condensate into the discharge pipe (8).

Compare			
Standard Series	PN and E Series	CV, NLV and V Series	Specialty Series
Standard Minimum / Maximu	um Operating Pressure		
12 - 232 psig	12 - 912 psig	0 - 360 psig	12 - 232 psig
Standard Minimum / Maximu	um Operating Temperature		
33 - 140 °F	33 - 140 °F	33 - 140 °F	33 - 140 °F
Compressor Flow Rate			
100 - 50,000 scfm	280 - 50,000 scfm	2,000 - 50,000 scfm	4,500 - 50,000+ scfm
Typical Application Areas			
At the compressor, dryer, and filter	High pressure systems or with highly aggressive condensate	For use with centrifugal compressors or vacuum systems	Explosive atmospheres, moisture indication, and level sensing
Diaphragm Material			
Viton®	Viton®	Viton®	Viton®
Maintenance Part Type			
Service Unit	Wearing Parts Kit	Wearing Parts Kit	Wearing Parts Kit
Available Options			
Heater, Insulation sleeve or shell, Cover3More extended warranty	Heater, Insulation sleeve or shell, Cover3More extended warranty	Heater, Cover3More extended warranty	12 Vdc intrinsicly safe power supply, Isolation amplifier, Heater, Cover3Mor extended warranty

Product Family



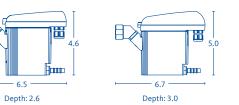
BEKOMAT[®] Standard Units

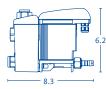
BEKOMAT[®] Specialty Units

BEKOMAT® Standard Condensate Drains

for standard pressure

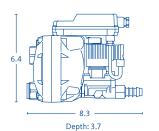
- › Automatic zero loss drain
- Standard Viton[®] diaphragm
- UL/CSA approved
- > Min. / max. operating temperature: 33 °F / 140 °F
- Standard voltage: BEKOMAT[®] 31-33: 95-240 VAC 50/60 Hz BEKOMAT[®] 13-16: 115 VAC
- Optional voltages:
 - BEKOMAT[®] 31-33: 18 72 VDC, 24 48 VAC, 100 125 VDC BEKOMAT[®] 13-16: 24 VAC/DC, 48 VAC, 230 VAC 50/60 Hz

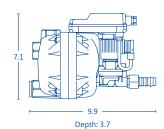


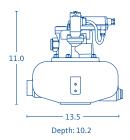


Depth: 2.9

	Aluminum housing - without dry contact	Aluminum housing	Aluminum housing	Aluminum housing + hard coating
BEKOMAT®	31	32	33	33 CO
Connection (NPT)	1 x ½"	1 x ½"	3 x ½"	3 x ½"
Min. / Max. Pressure (psig)	12 / 232	12 / 232	12 / 232	12 / 232
Compressor Flow Rate (scfm)	100	225	500	500
Dryer Flow Rate (scfm)	200	450	1000	1000
Filter Flow Rate (scfm)	1000	2250	5000	5000





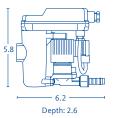


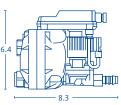
	Aluminum housing	Aluminum housing + hard coating	Aluminum housing	Aluminum housing + hard coating	Aluminum housing + hard coating
BEKOMAT®	13	13 CO	14	14 CO	16 CO
Connection (NPT)	2 x ½"	2 x ½"	3 x ¾"	3 x ¾"	2 x ¾" / 1 x 1"
Min. / Max. Pressure (psig)	12 / 232	12 / 232	12 / 232	12 / 232	12 / 232
Compressor Flow Rate (scfm)	1300	1300	5400	5400	50000
Dryer Flow Rate (scfm)	2600	2600	10800	10800	100000
Filter Flow Rate (scfm)	13000	13000	54000	54000	500000

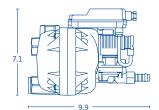
BEKOMAT® PN and E Series Condensate Drains

for high pressure systems

- › Automatic zero loss drain
- Standard Viton[®] diaphragm
- > Min. / max. operating temperature: 33 °F / 140 °F
- Standard voltage: 115 VAC
- Optional voltages:
 - 24 VAC/DC, 48 VAC, 230 VAC 50/60 Hz



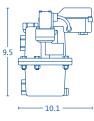




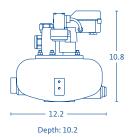
Depth: 3.7

Depth: 4.7

	Aluminum housing + hard coating & high pressure	Aluminum housing + hard coating & high pressure	Aluminum housing + hard coating & high pressure
BEKOMAT®	12 CO PN 63	13 CO PN 50	14 CO PN 25
Connection (NPT)	1 x ½"	2 x ½"	3 x ¾"
Min. / Max. Pressure (psig)	12 / 912	12 / 725	12 / 360
Compressor Flow Rate (scfm)	280	1300	5400
Dryer Flow Rate (scfm)	560	2600	10800
Filter Flow Rate (scfm)	2800	13000	54000



Depth: 6.3

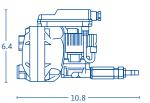


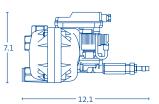
	Stainless Steel housing + high pressure	Stainless Steel housing + high pressure	Stainless Steel housing + high pressure
BEKOMAT®	3 E 25	3 E 63	6 E 25
Connection (NPT)	3 x ³ / ₄ "	3 x ³ / ₄ "	2 x ¾" / 1 x 1"
Min. / Max. Pressure (psig)	12 / 360	12 / 912	12 / 360
Compressor Flow Rate (scfm)	4500	4500	50000
Dryer Flow Rate (scfm)	9000	9000	100000
Filter Flow Rate (scfm)	45000	45000	500000

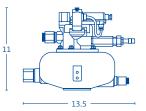
BEKOMAT® CV and NLV Series Condensate Drains

for centrifugal compressors

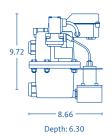
- > Automatic zero loss drain
- > Standard Viton[®] diaphragm
- $\,$ Min. / max. operating temperature: 33 °F / 140 °F
- Standard voltage: 115 VAC
- > Optional voltages:
 - 24 VAC/DC, 48 VAC, 230 VAC 50/60 Hz

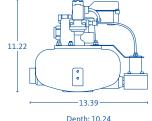




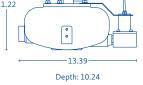


	Aluminum housing + check-valve set	Aluminum housing + check-valve set	Aluminum housing + check-valve set & hard coating
BEKOMAT®	13 CV	14 CV	16 CO CV
Connection (NPT)	2 x ½"	3 x ³ / ₄ "	2 x ¾" / 1 x 1"
Min. / Max. Pressure (psig)	12 / 232	12 / 232	12 / 232
Compressor Flow Rate (scfm)	2000	8000	50000
Dryer Flow Rate (scfm)	4000	16000	100000
Filter Flow Rate (scfm)	20000	80000	500000





Aluminum housing o load valve & hard coating

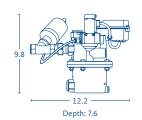


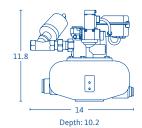
Aluminum housing load valve & hard coating

		+ no load valve & hard coating	
BEKOMAT®	3 CO NLV	6 CO NLV	
Connection (NPT)	3 x ¾"	2 x ¾" / 1 x 1"	
Min. / Max. Pressure (psig)	0 / 360	0 / 232	
Compressor Flow Rate (scfm)	6000	50000	
Dryer Flow Rate (scfm)	12000	100000	
Filter Flow Rate (scfm)	60000	500000	

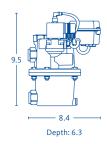
BEKOMAT® Specialty Condensate Drains for low pressure and vacuum systems, and explosive atmospheres

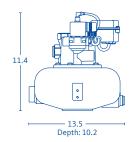
- > Automatic zero loss drain
- > Standard Viton[®] diaphragm
- $\,$ Min. / max. operating temperature: 33 °F / 140 °F
- > Standard voltage: 115 VAC or 12 VDC (EX series only)
- > Optional voltages: 24 VAC/DC, 48 VAC,
 - 230 VAC 50/60 Hz





	Aluminum housing + hard coating	Stainless steel	Aluminum housing + hard coating	Stainless steel
BEKOMAT®	3 CO V	3EV	6 CO V	6EV
Connection (NPT)	3 x ¾"	3 x ¾"	3 x ¾"	3 x ¾"
Min. / Max. Pressure (psia)	1.45 / 26	1.45 / 26	1.45 / 26	1.45 / 26
Compressor Flow Rate (scfm)	4500	4500	50000	50000
Dryer Flow Rate (scfm)	9000	9000	100000	100000
Filter Flow Rate (scfm)	45000	45000	500000	500000

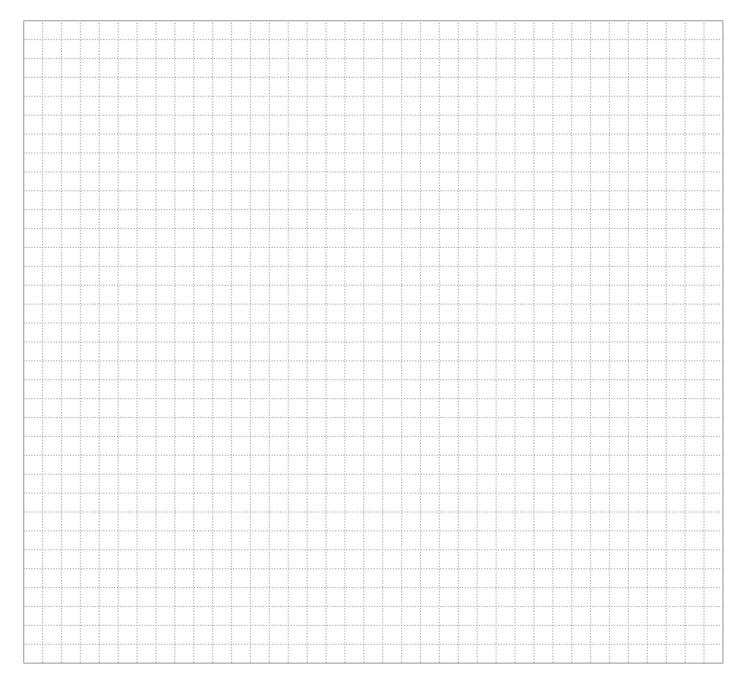




	Aluminum housing + hard coating	Stainless Steel housing	Aluminum housing + hard coating	Stainless Steel housing
BEKOMAT®	3 CO EX	3 E EX	6 CO EX	6 E EX
Connection (NPT)	3 x ³ /4"	3 x ¾"	2 x ¾"/1 x 1"	2 x ¾" / 1 x 1"
Min. / Max. Pressure (psig)	12 / 232	12 / 232	12 / 232	12 / 232
Compressor Flow Rate (scfm)	4500	4500	50000	50000
Dryer Flow Rate (scfm)	9000	9000	100000	100000
Filter Flow Rate (scfm)	45000	45000	500000	500000

Reliable | Efficient | Innovative

What can we do for you?





BEKO TECHNOLOGIES CORP. 900 Great Southwest Pkwy SW Atlanta, GA 30336 USA

Phone +1 (404) 924-6900 Fax +1 (404) 629-6666 www.bekousa.com





Subject to technical changes without prior notice; the information provided does not represent characteristics of state at the time of sale. (a) Registered Trademarks of BEKO TECHNOLOGIES GmbH, Neuss, Germany and BEKO TECHNOLOGIES CORP, Atlanta, GA USA.