



Condensate Drainage

BEKOMAT®

intelligent condensate drainage with true zero air loss

Truth in Compressed Air.



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

+ True Zero Air Loss

Patented operating principle guarantees maximum energy savings

+ Highest Reliability

Integrated sieve eliminates any concern about dirt, the need for a Y-strainer, and extra maintenance

+ Lowest Maintenance

Reduce overall time and costs and make maintenance fast and easy

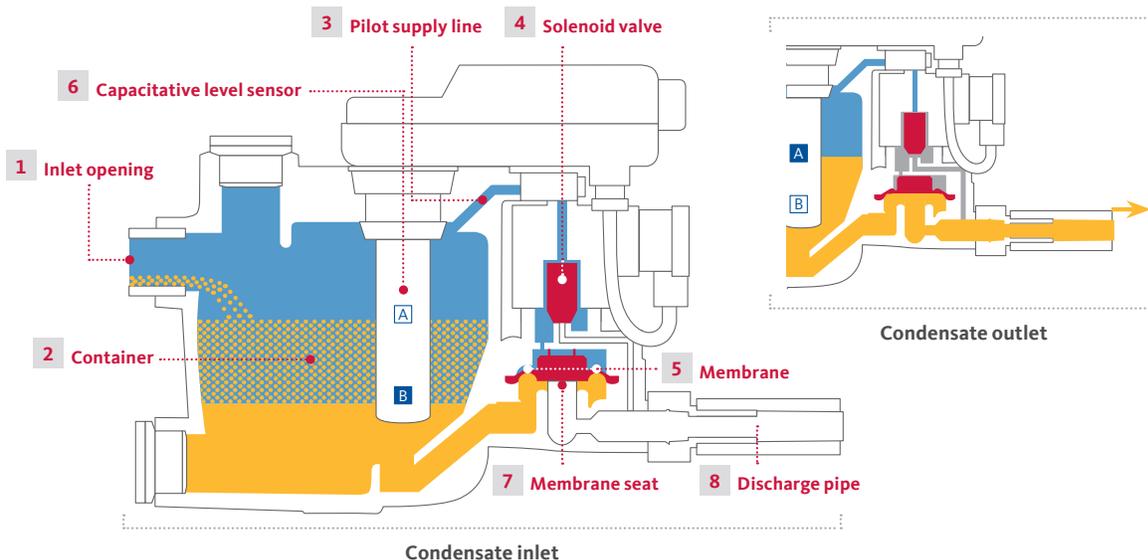
+ Sensor Controlled

Ensures intelligent operation at all times with the ability to automatically clear clogs and debris

+ Integrated Alarm

Visual status indication is given on the drain and can be wired for remote access

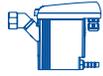
How it Works



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).

BEKOMAT® Condensate Drains

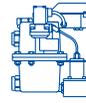
Compare



Standard Series



PN and E Series



CV, NLV and V Series



Specialty Series

Standard Minimum / Maximum Operating Pressure

| | | | |
|---------------|---------------|--------------|---------------|
| 12 - 232 psig | 12 - 912 psig | 0 - 360 psig | 12 - 232 psig |
|---------------|---------------|--------------|---------------|

Standard Minimum / Maximum Operating Temperature

| | | | |
|-------------|-------------|-------------|-------------|
| 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 intrinsically safe power supply, Isolation amplifier, Heater, Cover3More extended warranty |
|--|--|--------------------------------------|---|

Product Family



BEKOMAT® Standard Units



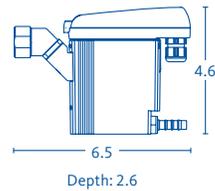
BEKOMAT® Specialty Units

■ Technical Details

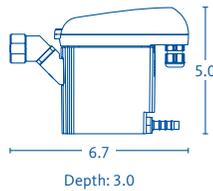
BEKOMAT® Standard Condensate Drains

for standard pressure

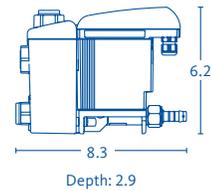
- › Automatic zero loss drain
- › Standard Viton® diaphragm
- › UL/CSA approved
- › Min. / max. operating temperature: 33 °F / 140 °F
- › Standard voltage:
 - BEKOMAT® 31-33: 95-240 VAC 50/60 Hz
 - BEKOMAT® 13-16: 115 VAC
- › Optional voltages:
 - BEKOMAT® 31-33: 18 - 72 VDC, 24 - 48 VAC, 100 - 125 VDC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



Depth: 2.6

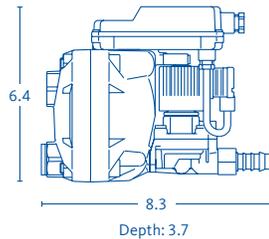


Depth: 3.0

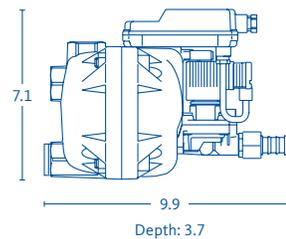


Depth: 2.9

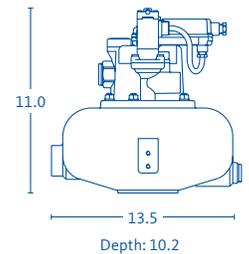
| | Aluminum housing - without dry contact | Aluminum housing | Aluminum housing | Aluminum housing + hard coating |
|-----------------------------|---|------------------|------------------|------------------------------------|
| BEKOMAT® | 31 | 32 | 33 | 33 CO |
| Connection (NPT) | 1 x 1/2" | 1 x 1/2" | 3 x 1/2" | 3 x 1/2" |
| 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 |



Depth: 3.7



Depth: 3.7



Depth: 10.2

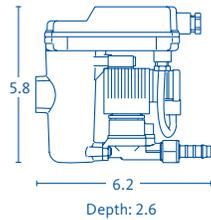
| | Aluminum housing | Aluminum housing + hard coating | Aluminum housing | Aluminum housing + hard coating | Aluminum housing + hard coating |
|-----------------------------|------------------|------------------------------------|------------------|------------------------------------|------------------------------------|
| BEKOMAT® | 13 | 13 CO | 14 | 14 CO | 16 CO |
| Connection (NPT) | 2 x 1/2" | 2 x 1/2" | 3 x 3/4" | 3 x 3/4" | 2 x 3/4" / 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 |

■ Technical Details

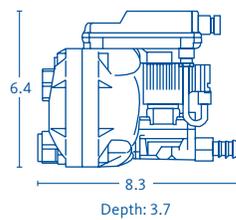
BEKOMAT® PN and E Series Condensate Drains

for high pressure systems

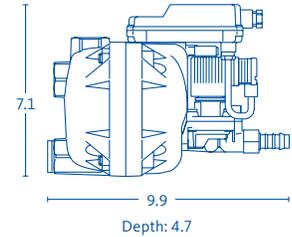
- › Automatic zero loss drain
- › Standard Viton® diaphragm
- › Min. / max. operating temperature: 33 °F / 140 °F
- › Standard voltage: 115 VAC
- › Optional voltages:
24 VAC/DC, 48 VAC,
230 VAC 50/60 Hz



Aluminum housing
+ hard coating & high pressure

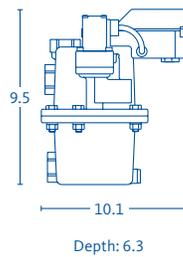


Aluminum housing
+ hard coating & high pressure

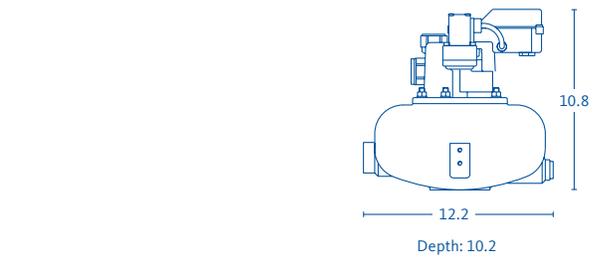


Aluminum housing
+ hard coating & high pressure

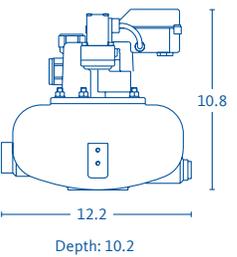
| BEKOMAT® | 12 CO PN 63 | 13 CO PN 50 | 14 CO PN 25 |
|-----------------------------|-------------|-------------|-------------|
| Connection (NPT) | 1 x 1/2" | 2 x 1/2" | 3 x 3/4" |
| Min. / Max. Pressure (psig) | 12 / 912 | 12 / 725 | 12 / 360 |
| Compressor Flow Rate (scfm) | 280 | 1300 | 5400 |
| Dryer Flow Rate (scfm) | 560 | 2600 | 10800 |
| Filter Flow Rate (scfm) | 2800 | 13000 | 54000 |



Stainless Steel housing
+ high pressure



Stainless Steel housing
+ high pressure



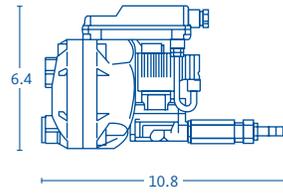
Stainless Steel housing
+ high pressure

| BEKOMAT® | 3 E 25 | 3 E 63 | 6 E 25 |
|-----------------------------|----------|----------|-------------------|
| Connection (NPT) | 3 x 3/4" | 3 x 3/4" | 2 x 3/4" / 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 |

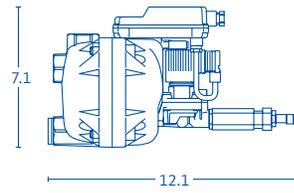
■ Technical Details

BEKOMAT® CV and NLV Series Condensate Drains for centrifugal compressors

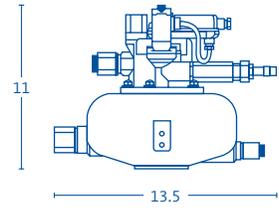
- › Automatic zero loss drain
- › Standard Viton® diaphragm
- › Min. / max. operating temperature: 33 °F / 140 °F
- › Standard voltage: 115 VAC
- › Optional voltages:
24 VAC/DC, 48 VAC,
230 VAC 50/60 Hz



Aluminum housing
+ check-valve set

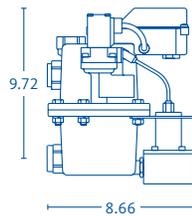


Aluminum housing
+ check-valve set



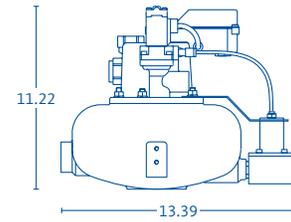
Aluminum housing
+ check-valve set & hard coating

| BEKOMAT® | 13 CV | 14 CV | 16 CO CV |
|-----------------------------|----------|----------|-------------------|
| Connection (NPT) | 2 x 1/2" | 3 x 3/4" | 2 x 3/4" / 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 |



Depth: 6.30

Aluminum housing
+ no load valve & hard coating



Depth: 10.24

Aluminum housing
+ no load valve & hard coating

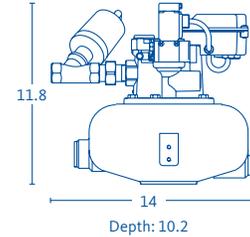
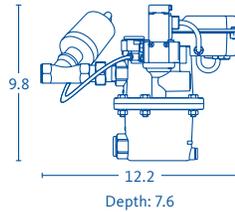
| BEKOMAT® | 3 CO NLV | 6 CO NLV |
|-----------------------------|----------|-------------------|
| Connection (NPT) | 3 x 3/4" | 2 x 3/4" / 1 x 1" |
| Min. / Max. Pressure (psig) | 0 / 360 | 0 / 232 |
| Compressor Flow Rate (scfm) | 6000 | 50000 |
| Dryer Flow Rate (scfm) | 12000 | 100000 |
| Filter Flow Rate (scfm) | 60000 | 500000 |

■ Technical Details

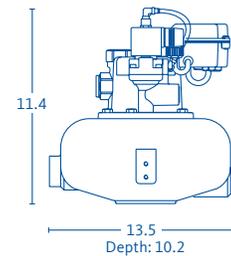
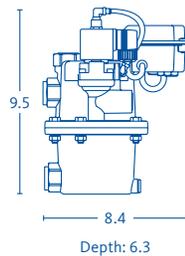
BEKOMAT® Specialty Condensate Drains

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 3/4" | 3 x 3/4" | 3 x 3/4" | 3 x 3/4" |
| 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 3/4" | 2 x 3/4" / 1 x 1" | 2 x 3/4" / 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 |



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

Cover3More Extended Warranty Program

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.

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.

- › Extends the standard factory warranty for an additional 3-years
- › May be purchased at any time up to 18-months post-sale
- › Can be applied to stocked or installed products
- › No hassle and easy to calculate without any hidden costs
- › Applicable to all product lines
- › 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

Cover3More on the Following Product Lines

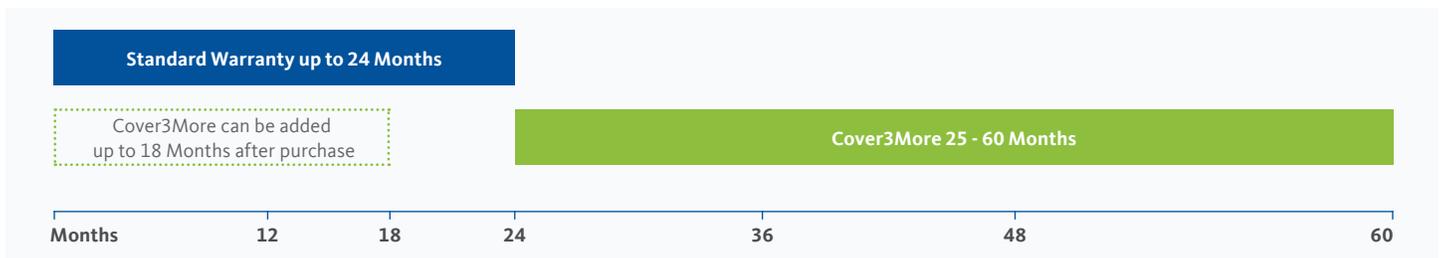
| | | | |
|------------------|------------------------------|--------------------|-----------------------------|
| DRYPOINT® RA | Refrigerant Air Dryers | BEKOMAT® | Zero Air Loss Drains |
| DRYPOINT® X / AC | Desiccant Air Dryers | QWIK-PURE®/ÖWAMAT® | Oil-water Separators |
| DRYPOINT® M | Membrane Air Dryers | METPOINT® | Instrumentation |
| CLEARPOINT® | Filters and Water Separators | BEKOKAT® | Hydrocarbon Removal Systems |

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.

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

Cover3More Extended Warranty Program

Compare



How it Works

- 1 Select the product or products that you wish to cover with the extended warranty.
- 2 Contact your BEKO Technologies sales representative to help calculate your final net price for extended coverage.
- 3 Include the information received along 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.**

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.

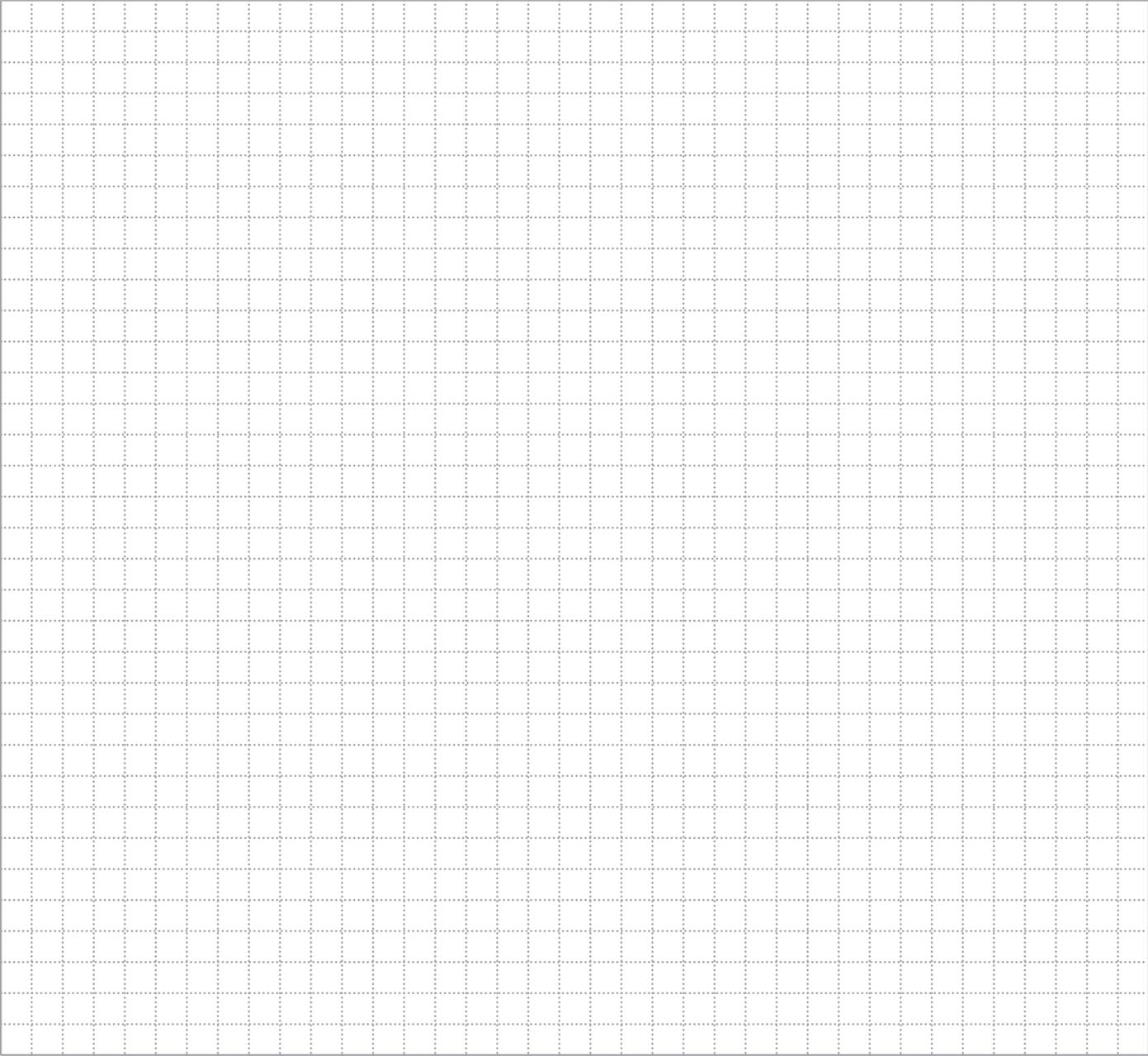
Extended warranty coverage may not be purchased during the final 6-months of the standard warranty coverage, which are months 19-24 from the date of shipment or at BEKO Technologies' discretion, the date of installation.

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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