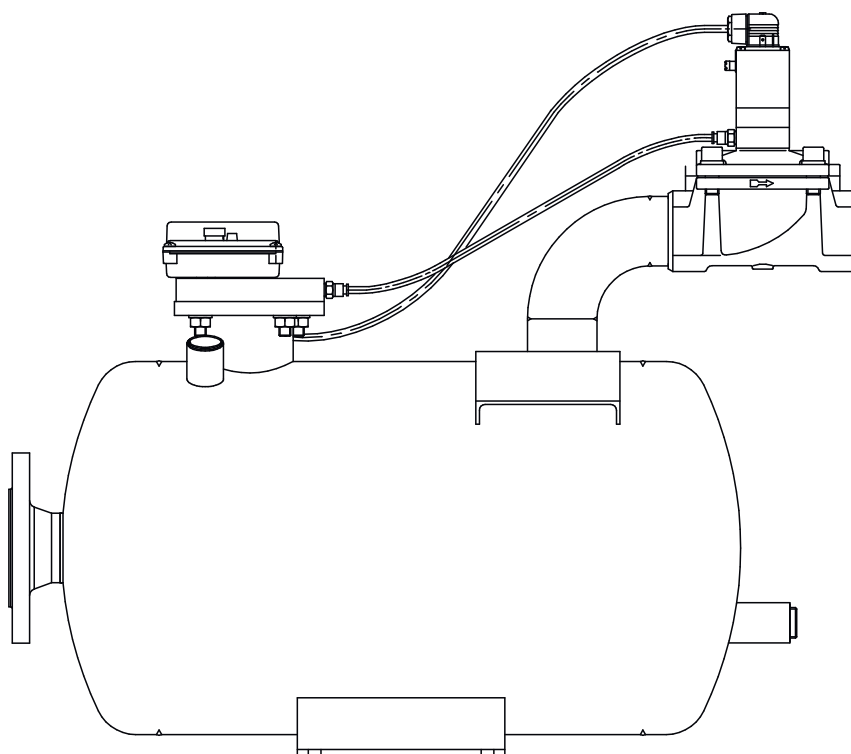


Installation and operating manual

Condensate drain

BEKOMAT® 8

BEKOMAT® 9



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1. Safety information

1.1. Pictograms and symbols

1.1.1. In this documentation



General instructions



Observe installation and operating instructions



General hazard symbol (danger, warning, caution)



General hazard symbol (danger, warning, caution) relating to mains voltage and powered machine parts

1.1.2. On the device



Observe installation and operating instructions
(on type plate)

1.2. Signal words according to ISO 3864 and ANSI Z.535

DANGER

Imminent danger

Consequences of non-compliance: serious or even fatal injury

WARNING

Potential danger

Consequences of non-compliance: serious or even fatal injury

CAUTION

Imminent danger





Consequences of non-compliance: injury and/or damage to property

NOTICE

Additional notes, tips and hints



Consequences of non-compliance: inefficient operation, extra maintenance;
no risk to persons

1.3. General safety instructions

DANGER	Insufficient qualification
	Improper handling and operation of the device might result in serious or even fatal injury, and/or serious damage to property.
	<ul style="list-style-type: none"> • All tasks described in this installation and operating manual must be performed by specialist technical personnel¹ who meet the criteria outlined below: • Before carrying out any work with or on the device, all specialist technical personnel¹ must have read and understood the contents of this installation and operating manual.
DANGER	Escaping compressed gas
	Risk of serious or even fatal injury from suddenly released compressed gas or condensate at bursting and/or unsecured device components.
	<ul style="list-style-type: none"> • Before carrying out any assembly, installation or maintenance work, depressurise the system. All electrical work must be carried out by authorised specialist technical personnel¹. • Use only pressure-resistant installation materials and suitable tools that are in proper working order. • Before pressurising the system, check all unit parts and repair them, if necessary. Open valves slowly to prevent pressure blows during operation. • Make sure that no persons can be injured or objects can be damaged by condensate or escaping compressed gas. • Protect the device parts against vibration and impact. • Perform a leakage test.
DANGER	Mains voltage
	Risk of serious or even fatal injury from electric shock when coming into contact with non-insulated, powered components.
	<ul style="list-style-type: none"> • For the electrical installation of the device, adhere to all applicable regulations (e.g. VDE 0100 / IEC 60364). • Before carrying out any maintenance work, de-energize the system. • All electrical work must be carried out by authorised specialist technical personnel¹.
WARNING	Operation of device outside limit range
	If the specified limits are exceeded, there is a risk of device malfunction, potentially resulting in injury and/or damage to property.
	<ul style="list-style-type: none"> • The device must only be operated for the intended purpose and within the permissible limits specified on the type plate and in the technical data. • Strictly adhere to the prescribed operating times and maintenance intervals.

¹Specialist technical personnel

Specialist technical personnel are persons who, due to their professional qualification and knowledge in the field of measuring, control and pneumatic technology, and their knowledge of the applicable statutory regulations, guidelines and standards are in a position to foresee potential dangers in relation to the use of the device and are qualified to perform the tasks described in this manual. Special operating conditions (e.g. aggressive media) require additional knowledge. It is the responsibility of the device owner to ensure that the instructions in this manual are adhered to.


NOTICE	Warranty and liability for defects
	<p>Claims made with reference to warranty and liability for defects shall only be deemed valid, if the following instructions are strictly adhered to:</p> <ul style="list-style-type: none"> • Do not make any modifications to the device! • Use only original spare parts and accessories! • Strictly observe the installation and operating instructions! • Use the device only for the intended purpose. <p>For more information on warranty and liability, see 1.6 auf Seite 8.</p>
NOTICE	Installation and operating manual
	<p>First make sure that the installation and operating manual actually refers to your device type. This document contains important information and instructions for the safe operation of the device. Before carrying out any work with or on the device, all specialist technical personnel¹ must have read this manual.</p> <p>A copy of this installation and operating manual must be kept near the device where it is at all times accessible to staff.</p> <p>In addition to the instructions in this document, always comply with the statutory regulations for machine operation, accident prevention and safety. This also applies to the use of accessories and spare parts.</p>

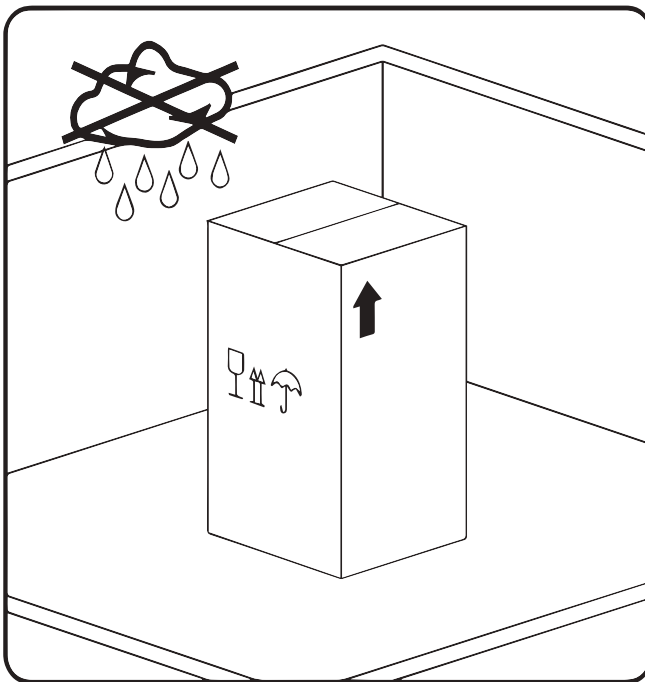
¹Specialist technical personnel

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1.4. Transport and storage

Despite our best efforts regarding packaging, etc., the device might be damaged during transport. Upon delivery, please remove all packaging material and inspect the device for visible damage. If you detect such damage, immediately notify the carrier company and BEKO TECHNOLOGIES GMBH or one of its agents.



CAUTION	Damage caused during transport or storage
	<p>Incorrect transport or storage, or the use of unsuitable lifting equipment might cause damage to the device.</p> <ul style="list-style-type: none"> • The device must only be transported and stored by authorised and suitably trained technical personnel. • If you detect any damage, do not start the device. • Always adhere to the specified transport and storage temperatures. • Protect the device against direct sunlight and heat radiation.



The device must be stored in the original packaging. Seal the packaging and store it in a dry and frost-free room. Ensure that the storage temperature does not exceed the limits specified on the type plate.

Even when packaged, take suitable measures to protect the device against the elements.

While in storage, secure the device so that it cannot topple over or fall, and protect it against vibration.

NOTICE	Recycling of packaging material
 	<ul style="list-style-type: none"> • The packaging material is recyclable. Dispose of the packaging material according to the applicable statutory regulations.

1.5. Intended use

The BEKOMAT® is an electronically level-controlled condensate drain for compressed air systems. It is able to drain condensate from the plant components at operating pressure and with virtually no compressed air loss.

- The device must only be operated when equipped with original spare parts and accessories.
- Do not install the BEKOMAT® 8/9 in areas with a potentially explosive atmosphere.
- Permissible media: condensate, oil-contaminated or oil-free

Operate the BEKOMAT® only for the intended purpose and within the limit ranges specified in the technical data. Do not operate the device with any media (fluids, gas/vapour mixtures) other than those listed above. Any other use of the device is deemed improper and poses a risk to persons, property and the environment.

1.6. Warranty and liability

All warranty shall be voided, if the BEKOMAT® is used improperly, for a purpose other than the intended or is operated outside the limits specified in the technical data. In such cases, the manufacturer shall also reject any liability for damages. Improper operation includes:

- Incorrect installation, commissioning or operation; insufficient maintenance
- Operation with defective components
- Non-compliance with the instructions in this document, in particular the safety instructions
- Modification of the device
- Use of third-party spare parts that have not been approved by the manufacturer


2. Product information

2.1. Type plate

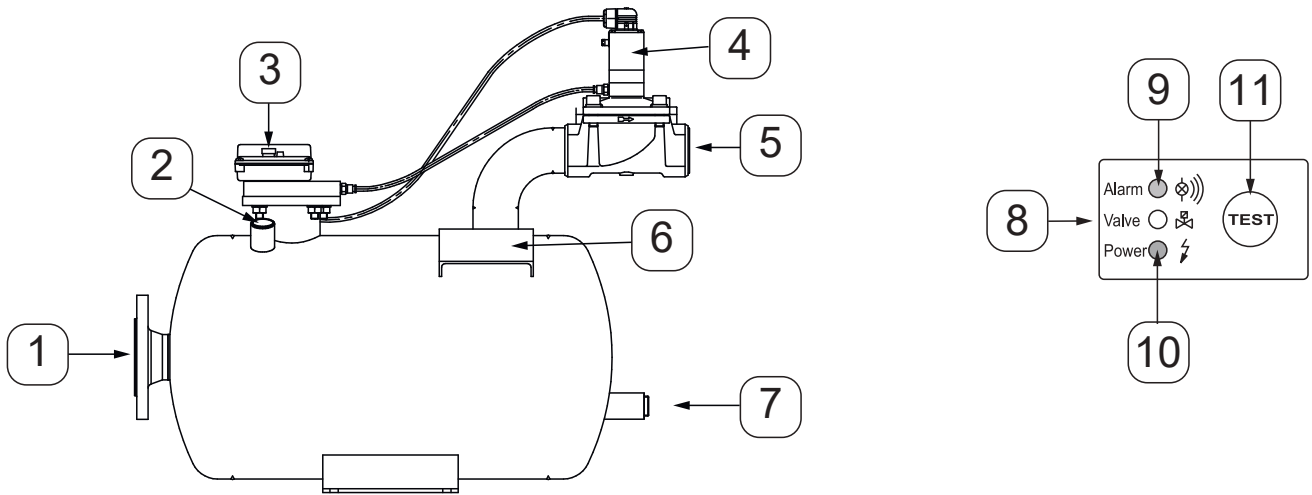
The type plate is attached to the device housing. It contains all key data of the BEKOMAT®. Please have these details to hand when contacting the manufacturer or supplier.



Designation	Description
Hersteller: BEKO TECHNOLOGIES GmbH	Name of manufacturer
Baujahr: 2016	Year of manufacture
zul. Betriebsdruck: 0.5 ... 10 bar	Max. permissible operating pressure
zul. Betriebstemp.: +1°C/+60°C	Max. permissible operating temperature
Medium: Compressed air / condensate	Permissible media
Inhalt: 19.5 l	Capacity of container
Behälternr.	Container number

NOTICE	Handling of type plate
	Do not remove or cover the type plate, and protect it against damage.

2.2. Product overview and description



- 1 Condensate inlet

2 Venting line

3 Control elements / electrical control

4 Solenoid valve

5 Condensate discharge/solenoid valve


6 Type plate
- 7 Manual drain

8 Valve LED

9 Alarm LED

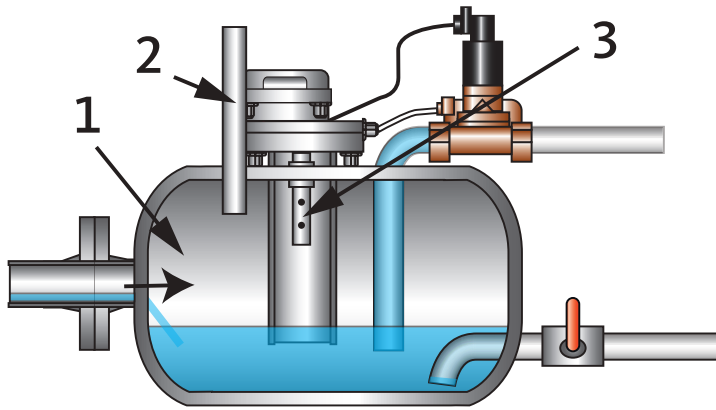
10 Power LED

11 Test button

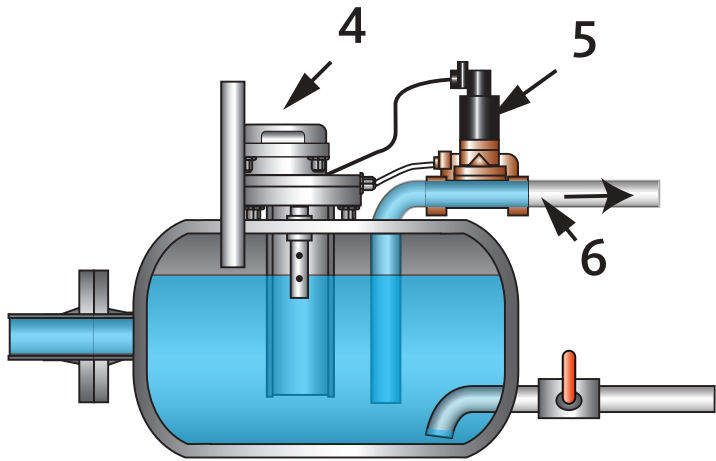
NOTICE	No permanent drainage
	<p>Do not use the test button for permanent drainage!</p>

2.3. Function

Discharge



The condensate enters the container (1) through the condensate inlet.
 The container can be filled to the limit, as the pressure is equalised through the venting line (2).
 The capacitive dual sensor (3) constantly monitors the filling level in the container.



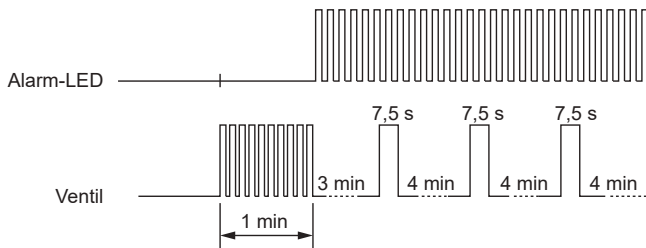
As soon as the container is full, the sensor sends a signal to the electric control (4). The electric control actuates the solenoid valve (5), and a large outlet diaphragm is opened to allow the condensate to be discharged.

While the container is under system pressure (min. 0.5 bar), all condensate in the container is drained off through the condensate drain (6).
 The sensor measures the discharge rate, which is used to control the maximum valve opening time.

Should the condensate fail to drain off, the valve is closed after 2.5 seconds and automatically opened again after 2 seconds. This procedure is repeated for 1 minute as the control system tries to resolve the problem.

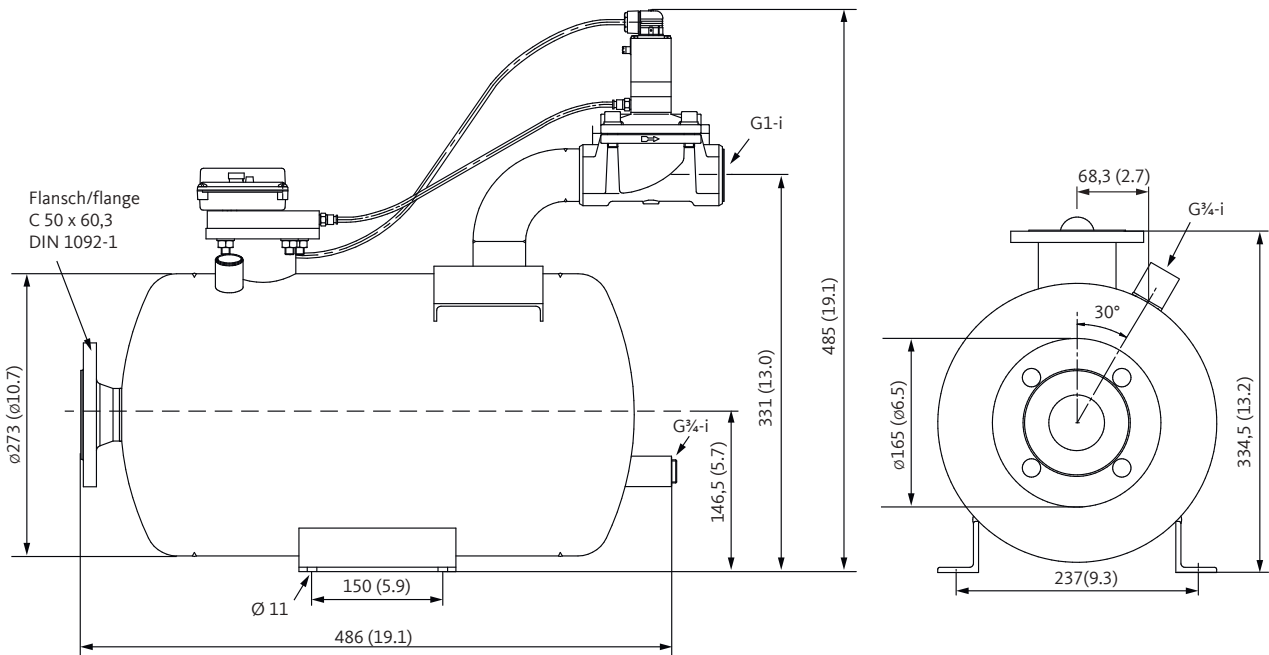
2.3.1. Alarm mode

The BEKOMAT® is continuously monitored by electronic and sensory devices. If a fault or malfunction occurs, the BEKOMAT® is automatically switched to alarm mode (e.g. due to blocked condensate discharge, or overload). In alarm mode, the solenoid valve is automatically opened, starting in cycle mode in order to eliminate the problem. If the problem persists for more than one minute, the red alarm LED flashes and the optocoupler output is switched. The valve is then repeatedly opened every four minutes for 7.5 seconds, until the problem is resolved automatically or by servicing the device. After the problem has been resolved, the BEKOMAT® automatically switches to normal operating mode.

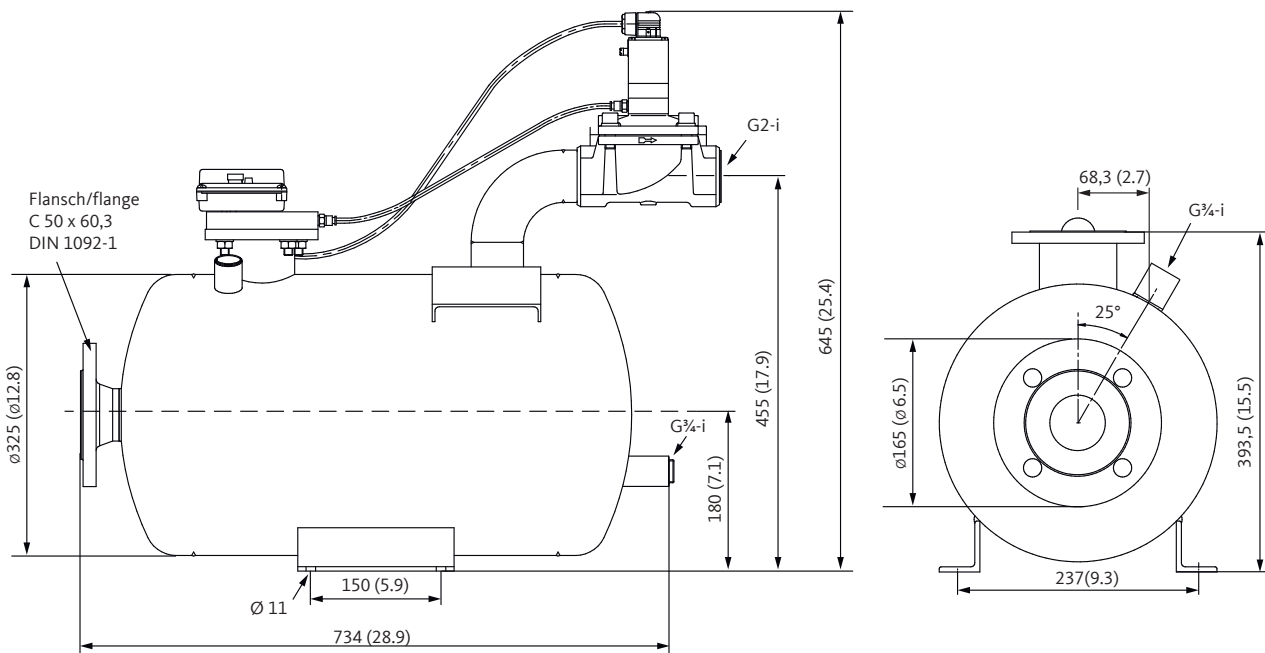


2.4. Dimensions


2.4.1. BEKOMAT® 8



2.4.2. BEKOMAT® 9



2.5. Technical data



		
General data	BM 08	BM 09
Min./max. storage/transport temperature	+1 ... +60 °C	
Min./max. medium/ambient temperature	+1 ... +60 °C	
Min./max. operating pressure	0.5 ... 10 bar	0.5 ... 4 bar
Condensate inlet	C50 x 60.3 DIN 1092-1 flange	
Condensate discharge	G1	G2
Venting connection	G $\frac{3}{4}$	
Manual drain	G $\frac{3}{4}$	
Condensate	oil-contaminated or oil-free condensate	
Weight	28.0 kg (empty)	38.0 kg (empty)
Container capacity	19.5 l	44 l
Discharge volume per cycle	15 l	36 l
Materials	Housing: Stainless steel (1.4541) Valve: Brass	
Electrical data	BM 08	BM 09
Operating voltage	230/200/110/100/48/24 VAC $\pm 10\%$, 50 - 60 Hz ; 24 VDC (see type plate)	
Power consumption	< 10 VA	
Recommended wire cross-section	\varnothing 5.8 ... 11 mm; 3 x 0.75 mm ²	
Fuse (medium time lag)	0.5 A	
Alarm relay: Contact rating	P < 125 W/VA ; I = 0.1... 0.5 A U < 250 VAC ; U > 12 VDC	

2.5.1. Performance data

	BM 08		BM 09	
Betriebsdruck Operating pressure	Jahres-Nennleistung Condensate discharge capacity	Maximalleistung(kurzzeitig) Short-term max. condensate discharge	Jahres-Nennleistung Condensate discharge capacity	Maximalleistung(kurzzeitig) Short-term max. condensate discharge
[bar]	[m ³ /a]	[l/h]	[m ³ /a]	[l/h]
0.5	9,360	1,400	24,000	3,600
1.0	10,700	2,250	29,200	6,130
2.0	11,100	3,330	29,600	8,880
4.0	11,400	4,800	30,000	12,600
6.0	12,700	5,580	--	--
8.0	13,700	6,000	--	--
10.0	14,400	6,300	--	--

3. Installation

3.1. Warning


DANGER	Insufficient qualification, explosion
	<p>Improper handling and operation of the device can result in serious or even fatal injury, and/or damage to property.</p> <ul style="list-style-type: none"> • All tasks described in this installation and operating manual must be performed by specialist technical personnel¹ who meet the criteria outlined below: • Before carrying out any work with or on the device, all specialist technical personnel¹ must have read and understood the contents of this installation and operating manual.
DANGER	Escaping compressed gas
	<p>Incorrect installation and device parts that are not properly secured and protected can cause serious or even fatal injury.</p> <ul style="list-style-type: none"> • Before carrying out any assembly or installation work, depressurise the system. • Use only pressure-resistant installation materials and suitable tools that are in proper working order. • Before pressurising the system, check all unit parts and repair them, if necessary. Open valves slowly to prevent pressure blows during operation. • Make sure that no persons can be injured or objects can be damaged by condensate or escaping compressed gas. • Protect the device parts against vibration and impact. • Perform a leakage test.

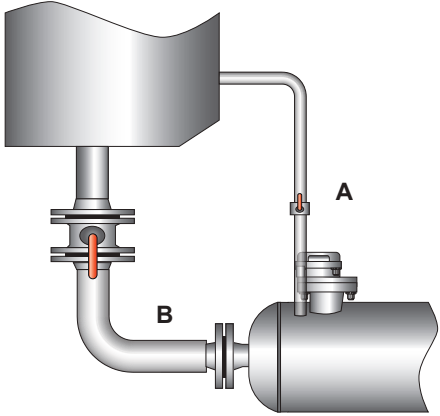
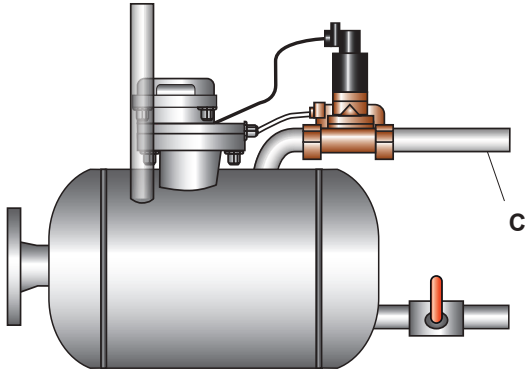
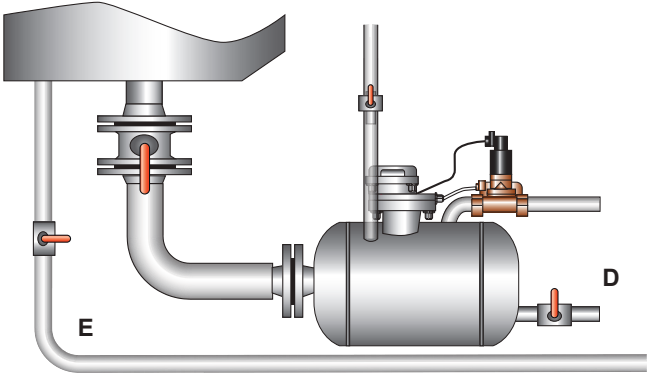
¹Specialist technical personnel

Specialist technical personnel are persons who, due to their professional qualification and knowledge in the field of measuring, control and pneumatic technology, and their knowledge of the applicable statutory regulations, guidelines and standards are in a position to foresee potential dangers in relation to the use of the device and are qualified to perform the tasks described in this manual. Special operating conditions (e.g. aggressive media) require additional knowledge. It is the responsibility of the device owner to ensure that the instructions in this manual are adhered to.

3.2. Installation


The diagrams below show examples of BEKOMAT® 8/9 installation options.


NOTICE	Installation instructions
	<ul style="list-style-type: none"> • Install a separate BEKOMAT® at each point where condensate might be produced. • Do not use cone-shaped fittings. • Keep the pipes as short as possible. • Do not install filters/dirt traps in the condensate inlet. • Only install ball valves in the condensate inlet line. • The venting line must be installed above the highest possible condensate level. • Observe the minimum installation heights.

Installation of BEKOMAT® 8/9	
	<p>Venting line A: Lines $\geq \frac{3}{4}$" must be equipped with ball valve</p> <p>Condensate inlet B: Pipes ≥ 2" (DN 50) must be installed with flange and ball valve:</p> <ul style="list-style-type: none"> • short inlet pipe! • Condensate inlet slope $>1\%$! • No filter in condensate inlet!
	<p>Condensate discharge C: Install pipe ≥ 1" (for BEKOMAT® 9: ≥ 2"):</p> <ul style="list-style-type: none"> • Do not feed to a manifold! • Max. incline 5 m! • If the pipe is installed at an incline, the minimum operating pressure is increased by 0.1 bar per metre!
	<p>For maintenance:</p> <p>Manual drain D:</p> <ul style="list-style-type: none"> • Lines $\geq \frac{3}{4}$" must be equipped with ball valve <p>Bypass line E:</p> <ul style="list-style-type: none"> • Lines ≥ 1" must be equipped with ball valve

4. Electrical installation

4.1. Installation instructions

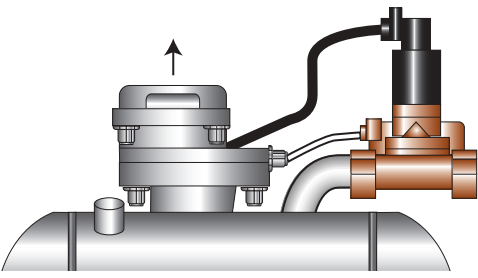
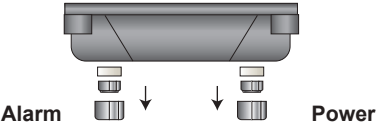
DANGER	Insufficient qualification
	Improper handling and operation of the device might result in serious or even fatal injury, and/or serious damage to property.
	<ul style="list-style-type: none"> • All tasks described in this installation and operating manual must be performed by specialist technical personnel¹ who meet the criteria outlined below: • Before carrying out any work with or on the device, all specialist technical personnel¹ must have read and understood the contents of this installation and operating manual.

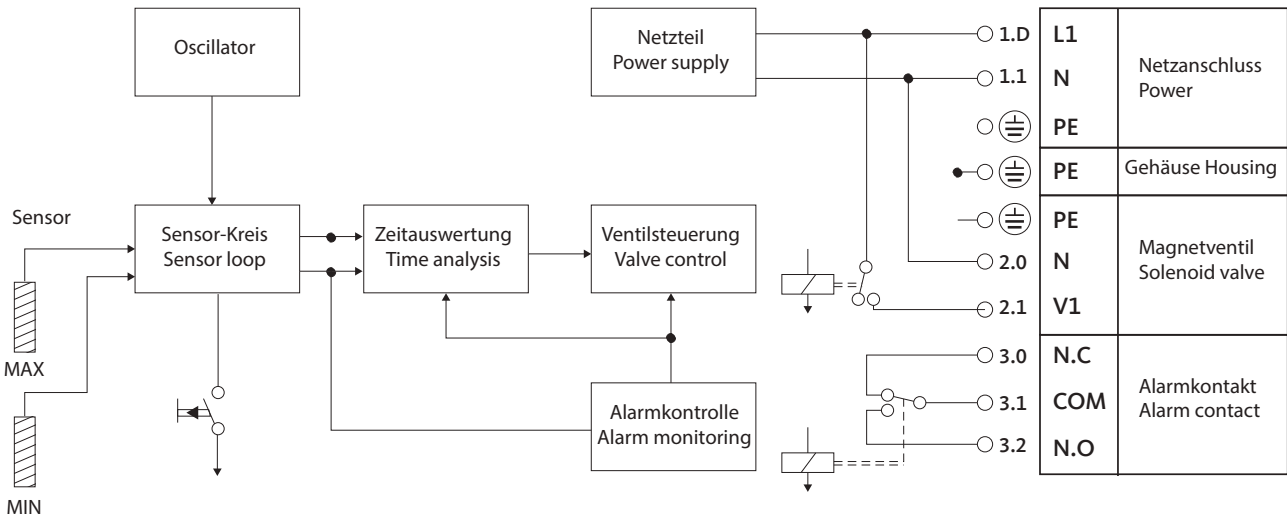
DANGER	Mains voltage
	Risk of serious or even fatal injury from electric shock when coming into contact with non-insulated, powered components.
	<ul style="list-style-type: none"> • For the electrical installation of the device, adhere to all applicable regulations (e.g. VDE 0100 / IEC 60364). • Before carrying out any maintenance work, de-energize the system. • All electrical work must be carried out by authorised specialist technical personnel¹.

¹Specialist technical personnel

Specialist technical personnel are persons who, due to their professional qualification and knowledge in the field of measuring, control and pneumatic technology, and their knowledge of the applicable statutory regulations, guidelines and standards are in a position to foresee potential dangers in relation to the use of the device and are qualified to perform the tasks described in this manual. Special operating conditions (e.g. aggressive media) require additional knowledge. In addition, observe the requirements for "qualified persons" as laid down in the Technical Rules on Operational Safety (TRBS). It is the responsibility of the device owner to ensure that the instructions in this manual are adhered to.

4.2. Electrical connections

	<p>Opening top part of cover:</p> <ul style="list-style-type: none"> • Loosen the 4 screws • Remove the lid
	<p>For power cable connection (or alarm signal line): Disconnect the cable terminals at the bottom</p>



Connecting power cable:

- Push the cable through the cable screw and connect it to terminals **L1, N, PE**

Alarm signal line:

The device is equipped with a floating alarm relay (changeover) for the transfer of alarm signals in the event of a fault:

- push the cable through the second cable screw and connect it

N.C. – COM:

Contact is made in the event of a fault or power failure (fail-safe contact)

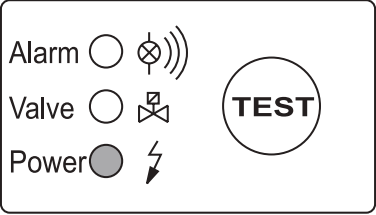
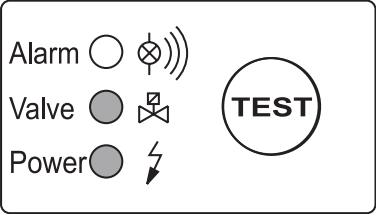
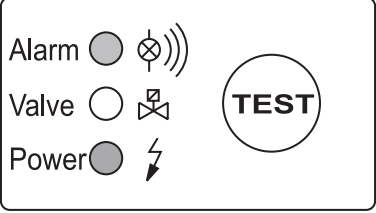
N.O. – COM:

Contact is made during normal operation

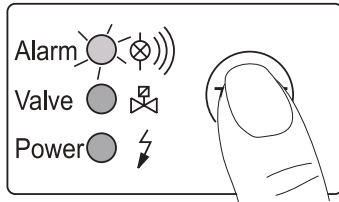
- Tighten cable screw(s)
- Mount the top part of the cover and tighten the screws
- Mount the housing cover and tighten the screws

5. Operation

The operating state of the BEKOMAT® is indicated as follows.

Normal status:	
 <p>Alarm ○ ⊕))) Valve ○ ⊕))) Power ● ⚡</p>	<p>Normal operation:</p> <ul style="list-style-type: none"> Green "POWER" LED is lit: Power OK, BEKOMAT® in operation
Error status:	
 <p>Alarm ○ ⊕))) Valve ● ⊕))) Power ● ⚡</p>	<ul style="list-style-type: none"> Yellow "VALVE" LED is lit: Max. filling level reached → Valve opens, condensate is discharged <p>The valve opening time is sensor-controlled (based on the actual discharge rate)</p> <p>After condensate has been discharged:</p> <ul style="list-style-type: none"> - BEKOMAT® is empty - Valve closes - No unnecessary compressed air loss
Alarm status:	
 <p>Alarm ● ⊕))) Valve ○ ⊕))) Power ● ⚡</p>	<p>ALARM:</p> <ul style="list-style-type: none"> Insufficient pressure to open valve Too much condensate being produced ⇒ see "Technical data" Inlet or drain pipe blocked or closed Excessive dirt (valve blocked) Solenoid valve defective → see "Maintenance" Piping frozen Incorrect installation → see "Installation" <p>The alarm is automatically reset when the problem that has caused it is resolved.</p>

5.1. Function test



Testing normal function

To test the solenoid valve, press the test button briefly (for approx. 2 seconds).

→ Red "ALARM" LED flashes, yellow "VALVE" led is lit

→ Valve to condensate discharge is opened

Testing alarm function

To test the solenoid valve alarm function, close the condensate inlet and press and hold the test button for approx. 1 minute.


→ Alarm relay switches over

Release TEST button

→ BEKOMAT® returns to normal mode operation

- Condensate inlet is again open!
- Min. operating pressure 0.5 bar!

6. Maintenance and servicing

DANGER	Insufficient qualification
	<p>Improper handling and operation of the device might result in serious or even fatal injury, and/or serious damage to property.</p> <ul style="list-style-type: none"> All maintenance tasks must be performed by service personnel of BEKO TECHNOLOGIES GmbH or an authorised BEKO partner.

Recommended interval: 1x per year

Wearing parts kit to be used:

BEKOMAT® 8 2000450

BEKOMAT® 9 4005382

Preparation:

- Close inlet
- Press TEST button until BEKOMAT® is depressurised
- Disconnect BEKOMAT® from power supply


6.1. Maintenance schedule

Maintenance	Interval
<p>Function test</p> <ul style="list-style-type: none"> • Press the TEST button • Visual inspection 	daily
<p>Maintenance</p> <ul style="list-style-type: none"> • Replace wearing parts (kit) • Perform leakage test • Perform function test • Check adhesive label and replace, if necessary • Check valve core length • Check cable connections • Clean 	annually

Function test:

We strongly recommend performing a daily function test of the BEKOMAT®.

- To test the solenoid valve, press the test button briefly (for approx. 2 seconds).
→ The BEKOMAT® starts a manual drain cycle.
- To test the alarm function, close the condensate inlet and press and hold the test button for approx. 1 minute.
→ The BEKOMAT® starts a manual drain cycle and triggers an alarm.

 During this test, large volumes of compressed gas might enter the condensate collection line.


Maintenance:

For more information regarding the maintenance of the device, contact the manufacturer.

6.2. Cleaning

To clean the BEKOMAT®, use a damp (but not wet) cotton cloth or disposable tissue and a mild conventional detergent.

Spray a little detergent onto the clean cotton cloth or tissue and carefully wipe the component. Dry the device with a clean cloth or let it dry at room temperature. Observe all hygiene instructions applicable on the site.

NOTICE	Damage caused by improper cleaning
	<p>Cleaning with a wet cloth, pointed implement or aggressive detergent can cause damage to the device components and integrated electronic components.</p> <ul style="list-style-type: none"> • Never clean the device with a wet cloth. • Do not use aggressive detergents. • Do not clean or operate the device with hard or pointed implements.

Cleaning

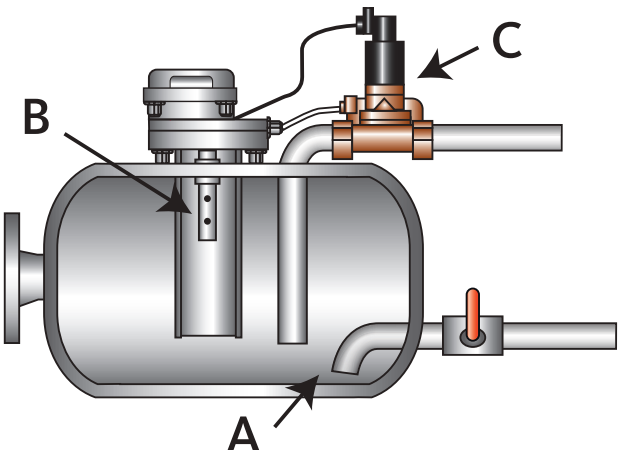
A. Cleaning container:
Do not actuate the test switch, but:

- Close inlet
- Carefully open manual drain at container
- Residual pressure flushes container

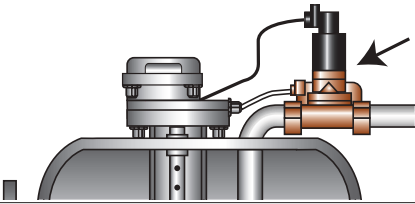
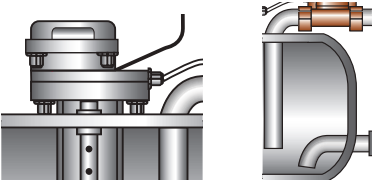
B. Cleaning sensor tube:

- Remove the flange at the top of the container (loosen hose connector, cable plug and flange screws; lift flange with electronic assembly and sensor tube from the container)
- Clean only the outside of the sensor tube, not the inside
- Reassemble and install the flange

C. Cleaning valve:
Do not attempt to open the screws marked in colour! The coloured screws are factory-set and must not be interfered with!

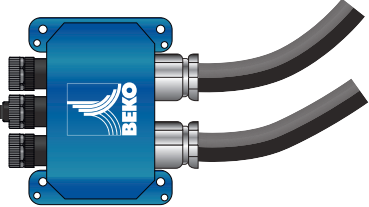


6.3. Spare parts

	<p>Wearing parts kit</p> <ul style="list-style-type: none"> 1x Solenoid valve, complete 2x Hose connector 1x Hose piece 	<p>BEKOMAT® 8 230 VAC 2000450</p> <p>BEKOMAT® 9 230 VAC 4005382</p> <p>Other voltage ratings: on request</p>
	<p>Gasket kit</p> <ul style="list-style-type: none"> 8x gaskets for sensor 1x gasket for manual drain 	<p>BEKOMAT® 8/9 2000683</p>
	<p>PCB 230 VAC 1x PCB 230 VAC</p>	<p>BEKOMAT® 8 2000763</p> <p>BEKOMAT® 9 4005381</p>
	<p>PBC 110 VAC 1x PCB 110 VAC</p>	<p>BEKOMAT® 8 2002768</p> <p>BEKOMAT® 9 4013115</p>
	<p>PCB 24 VDC 1x PCB 24 VDC</p>	<p>BEKOMAT® 8 2000231</p> <p>BEKOMAT® 9 2001970</p>

6.4. Accessories

Table of available accessories

Picture	Description	Order number*
	<p>Trace heating system</p>	<p>BEKOMAT® 8/9 2801233</p>
	<p>Heater tape extension 3m</p>	<p>BEKOMAT® 8/9 2801232</p>

7. Troubleshooting and repair

In the event of a malfunction of the device, return it to the manufacturer for repair. Clean the device carefully and pack it so that it is protected against impact. Return the device to the manufacturer, enclosing a return declaration with a detailed description of the fault/malfunction. If your device has come into contact with a hazardous substance, also enclose a declaration of decontamination. The relevant templates can be downloaded from our homepage at www.beko-technologies.com. If your device arrives at our service workshop without a declaration of decontamination, and should our personnel be concerned about any media with which it might have come into contact, we will contact you. A repair will only be performed after we have received the relevant declaration of decontamination. If the device has been exposed to a hazardous substance, take all necessary safety precautions when cleaning it!

8. Declaration of Conformity

BEKO TECHNOLOGIES GMBH
Im Taubental 7
41468 Neuss

GERMANY

Tel: +49 2131 988-0
www.beko-technologies.com



EU-Konformitätserklärung

Wir erklären hiermit, dass die nachfolgend bezeichneten Produkte den Anforderungen der einschlägigen Richtlinien und technischen Normen entsprechen. Diese Erklärung bezieht sich nur auf die Produkte in dem Zustand, in dem sie von uns in Verkehr gebracht wurden. Nicht vom Hersteller angebrachte Teile und/oder nachträglich vorgenommene Eingriffe bleiben unberücksichtigt.

Produktbezeichnung:	Kondensatableiter
Modelle:	BEKOMAT® 8 ..., 9 ...
Spannungsvarianten:	24 VDC, 24 VAC, 100 VAC, 110 VAC, 200 VAC, 230 VAC
Max. Betriebsdruck	10 bar (g) (nur BEKOMAT® 8) 4 bar (g) (nur BEKOMAT® 9)
Produktbeschreibung und Funktion:	Kondensatableiter zur elektronisch niveaugeregelten Ableitung von Kondensat im Druckluftnetz für Fluidgruppe 2.

Druckgeräte-Richtlinie 2014/68/EU

Angewandtes Konformitätsbewertungsverfahren: Modul A: Interne Fertigungskontrolle, Kategorie I

Niederspannungs-Richtlinie 2014/35/EU

Angewandte Normen: EN 61010-1: 2010
Kapitel 1-14, 16, 17, Anhang A-D, F, G, I-L, ZA

Die Geräte mit einer Betriebsspannung von 24 VAC und 24 VDC fallen nicht in den Anwendungsbereich der Niederspannungs-Richtlinie.

EMV-Richtlinie 2014/30/EU

Angewandte Normen: EN 61326-1: 2013

ROHS II-Richtlinie 2011/65/EU

Die Vorschriften der Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten werden erfüllt.

Der Hersteller trägt die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung.

Unterzeichnet für und im Namen von:

Neuss, 04.08.2016

BEKO TECHNOLOGIES GMBH

i.V. Christian Riedel
Leiter Qualitätsmanagement International

BEKO TECHNOLOGIES GMBH
 Im Taubental 7
 41468 Neuss, GERMANY
 Phone: +49 2131 988-0
 www.beko-technologies.de



EC / EU Declaration of Conformity

We herewith declare that products named below conform to the applicable directives and technical standards. This declaration applies exclusively to the products as delivered. It does not cover components added at a later stage or modifications made after delivery.

Product designation:	Condensate drain
Type:	BEKOMAT 8, BEKOMAT 9
Voltage options:	24VAC/ 100VAC/ 110VAC 200VAC, 230VAC:
Pressure options:	0,5 - 10 bar (g) (only BEKOMAT 8) 0,5 - 4 bar (g) (only BEKOMAT 9)
Product description and function:	Condensate drain for the electronically level-controlled discharge of condensate in the compressed-air system.

Pressure Equipment Directive PED 97/23/EC

Applied conformity assessment procedure: Module A Internal production control, Category I

Low-Voltage Directive 2006/95/EC

Applied standards: EN 61010-1 2010
Section 1-14, 16, 17 Annex A-D, F, G, I-, ZA

Year of CE-labeling 2003

The devices with working voltage of 24VDC and 24VAC are not in the scope of the Low-Voltage Directive.

EMC-Directive 2004/108/EC

Applied standards: EN 55011: 2009, group 1, class B; EN 61326: 2013

RoHS II Directive 2011/65/EU

The products meet the requirements laid down in European Directive 2011/65/EU concerning the restriction of the use of certain hazardous substances in electrical and electronic devices.

Neuss, 21/09/2015

BEKO TECHNOLOGIES GMBH

ppa Christian Riedel
 Head of Quality Management

Headquarters**Germany**

BEKO TECHNOLOGIES GMBH
Im Taubental 7
D - 41468 Neuss
Phone +49 2131 988 0
beko@beko-technologies.de

United Kingdom

BEKO TECHNOLOGIES LTD.
Unit 11-12 Moons Park
Burnt Meadow Road
North Moons Moat
Redditch, Worcs, B98 9PA
Phone +44 1527 575 778
info@beko-technologies.co.uk

France

BEKO TECHNOLOGIES S.à.r.l.
Zone Industrielle
1 Rue des Frères Rémy
F - 57200 Sarreguemines
Phone +33 387 283 800
info@beko-technologies.fr

Benelux

BEKO TECHNOLOGIES B.V.
Veenen 12
NL - 4703 RB Roosendaal
Phone +31 165 320 300
benelux@beko-technologies.com

中华人民共和国 / **China**

BEKO TECHNOLOGIES (Shanghai)
Co. Ltd.
Rm. 606 Tomson Commercial Building
710 Dongfang Rd.
Pudong Shanghai China
P.C. 200122
Phone +86 21 508 158 85
info.cn@beko-technologies.cn

Czech Republic

BEKO TECHNOLOGIES s.r.o.
Na Pankraci 58
CZ - 140 00 Praha 4
Phone +420 24 14 14 717
info.cz@beko-technologies.cz

Spain

BEKO Tecnológica España S.L.
Torruella i Urpina 37-42, nave 6
E - 08758 Cervelló
Phone +34 93 632 76 68
info.es@beko-technologies.es

中華人民共和國香港特別行政區 /

Hong Kong SAR of China

BEKO TECHNOLOGIES LIMITED
Unit 1010 Miramar Tower
132 Nathan Rd.
Tsim Sha Tsui Kowloon Hong Kong
Phone +852 5578 6681 (Hong Kong)
Phone +86 147 1537 0081 (China)
tim.chan@beko-technologies.com

India

BEKO COMPRESSED AIR
TECHNOLOGIES Pvt. Ltd.
Plot No.43/1 CIEEP Gandhi Nagar
Balanagar Hyderabad
IN - 500 037
Phone +91 40 23080275
madhusudan.masur@bekoindia.com

Italy

BEKO TECHNOLOGIES S.r.l.
Via Peano 86/88
I - 10040 Leini (TO)
Phone +39 011 4500 576
info.it@beko-technologies.com

日本 / **Japan**

BEKO TECHNOLOGIES K.K.
KEIHIN THINK Building 8 Floor
1-1 Minamiwatarida-machi
Kawasaki-ku, Kawasaki-shi
JP - 210-0855
Phone +81 44 328 76 01
info@beko-technologies.jp

Poland

BEKO TECHNOLOGIES Sp. z o.o.
Ul. Pańska 73
PL - 00-834 Warszawa
Phone +48 22 314 75 40
info.pl@beko-technologies.pl

South-East Asia

BEKO TECHNOLOGIES S.E.Asia
(Thailand) Ltd.
75/323 Soi Romklao, Romklao Road
Sansab Minburi
Bangkok 10510
Phone +66 2-918-2477
info.th@beko-technologies.com

臺灣 / **Taiwan**

BEKO TECHNOLOGIES Co.,Ltd
16F.-5 No.79 Sec.1
Xintai 5th Rd. Xizhi Dist.
New Taipei City 221
Taiwan (R.O.C.)
Phone +886 2 8698 3998
info.tw@beko-technologies.tw

USA

BEKO TECHNOLOGIES CORP.
900 Great SW Parkway
US - Atlanta, GA 30336
Phone +1 404 924-6900
beko@bekousa.com

Translation of the original instructions. Original instructions are in German. Subject to technical changes without prior notice. Errors and omissions excepted.

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