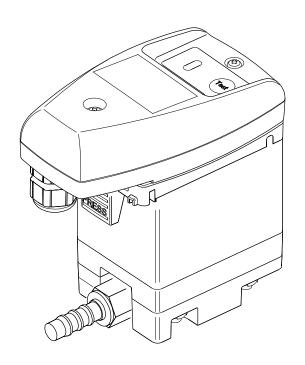


EN-US - english US

Instructions for installation and operation

Condensate drain

BEKOMAT® 31U built-in F (BM31UBIF)



Dear customer,

Thank you for deciding in favor of the BEKOMAT® 31U built-in F condensate drain. Please read the installation and operating instructions carefully before mounting and starting up the BEKOMAT® 31U built-in F, and follow our directions. Perfect functioning of the BEKOMAT® 31U built-in F, and thus reliable condensate discharge, can only be guaranteed when the provisions and notes stipulated here are strictly adhered to.

1	Pictograms and symbols	4
2	Safety instructions	4
3	Proper use	6
4	Exclusion from the scope of application	6
5	Technical data	7
6	Electrical data	7
7	Dimension drawing	8
8	Function	9
9	Installation	
10	Electrical installation	14
11	Control and maintenance	17
12	Troubleshooting and fault elimination	21
13	Elements and components	
14	Recommended spare parts	23
15	Accessories	
16	Declaration of conformity	24

1 Pictograms and symbols



Observe the installation and operating instructions



Observe the installation and operating instructions (on the type plate)



General danger symbol (danger, warning, caution)



General danger symbol (danger, warning, caution) for supply voltage and supply voltage-carrying plants components

2 Safety instructions



Please check whether or not these instructions correspond to the device type.

Adhere to all advice given in these operating instructions. They include essential information which must be observed during the installation, operation and maintenance. Therefore it is imperative for the service technician and the responsible operator / technical staff to read these operating instructions prior to installation, start-up and maintenance.

The operating instructions must be accessible at any time at the place of application of the BEKOMAT® 31U.

In addition to these operating instructions, local or national regulations must be complied with, if necessary.

Make sure that the BEKOMAT® 31U is operated only within the permissible limit values indicated on the type plate. Any deviation involves a risk for persons and materials, and may result in malfunction and service failures.

If you have any queries regarding these installation- and operating instructions, please contact BEKO TECHNOLOGIES CORP.



Danger!

Compressed air!

Risk of serious injury or death through contact with quickly or suddenly escaping compressed air or through bursting plant components or plant components which are not secured.

Measures:

- Do not exceed the maximum operating pressure (see type plate).
- Only carry out service measures when the system is pressure less.
- Use pressure-resistant installation material only.
- The feed pipe must be tubed firmly. Discharge pipe: short, fixed pressure hose onto pressure-resistant pipe.
- Make sure that persons or objects cannot be hit by condensate or escaping compressed air.



Danger!

Supply voltage!

There is the risk of an electric shock involving injury or death when coming into contact with non-insulated components carrying supply voltage.

Measures:

- During electric installations, all regulations in force need to be adhered to (e.g. VDE 0100 / IEC 60364).
- When the control unit is open, service and installation works must only be undertaken when the system is deactivated.
- The removed control unit has no IP degree of protection.
- All types of electrical works must be carried out by authorized and qualified personnel only.

Further safety instructions:

- For installation and operation, the national regulations and safety codes in force must also be adhered
 to.
- Do not use the BEKOMAT® 31U in hazardous areas.
- Regarding the inlet screw joints, excessive tightening forces must be avoided. This applies in particular to conical screw joints.
- The BEKOMAT® 31U will only function when voltage is applied.
- Do not use the test button for permanent drainage.
- Use genuine spare parts only. This is imperative to ensure perfect functioning.

Additional advice:

- The removed control unit has no IP degree of protection.
- During installation, use spanner flat at the feed pipe (wrench size SW27) as a back rest.
- The service unit must not be dismantled.

Caution!



Malfunction during operation!

Through incorrect installation and poor maintenance, malfunction may occur at the BEKOMAT.

Condensate which is not discharged may cause damage to plants and in production processes.

Measures:

- Condensate drainage which is reliable in performance directly optimizes the compressed-air quality.
- To prevent damage and breakdowns, it is imperative to observe the following:
 - Exact compliance with the specifications of use and with the performance parameters of the BEKOMAT, in connection with the case of application (see "Proper use" section)
 - Exact compliance with the installation- and operation instructions in this manual
 - Regular maintenance and control of the BEKOMAT in accordance with the instructions in this
 operating manual

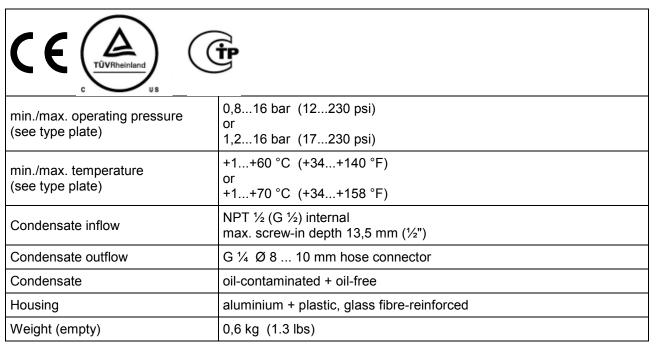
3 Proper use

- The BEKOMAT® 31U built-in F is an electronically level-controlled condensate drain for compressed-air plants.
- The device is employed within the permissible performance parameters (see "Technical data").
- The BEKOMAT® 31U built-in F is able to drain condensate under operating pressure from the plant components virtually without compressed-air loss.
- For its function, the BEKOMAT® 31U built-in F requires an supply voltage and an operating pressure (see "Technical data").
- As far as the employment in plants with increased demands on compressed air is concerned (food industry, medical technology, laboratory equipment, special processes etc.), the operator must decide on measures for the monitoring of the compressed-air quality. These have an effect on the safety of the subsequent processes and may prevent damage to persons and plants.
- It is the task of the operator to ensure that the indicated conditions are met during the entire operating time.

4 Exclusion from the scope of application

- The BEKOMAT® 31U built-in F as a condensate drain **alone cannot** guarantee a defined compressed-air quality, for this purpose, other additional technical devices are required.
- BEKOMAT® 31U built-in F is **not** suitable for use in plants carrying vacuum or atmospheric ambient pressure or in ex-areas.
- The BEKOMAT® 31U built-in F must not be exposed to permanent direct solar or thermal radiation.
- The BEKOMAT® 31U built-in F must not be installed and operated in areas with an aggressive atmosphere.
- The BEKOMAT® 31U built-in F is not heatable and, therefore, not suitable for the use in areas where
 frost is likely to occur.
- The BEKOMAT® 31U built-in F is not suitable for CO₂ plants.

5 Technical data



This product has been tested to the requirements of CAN/CSA-C22.2 No. 61010-1-12, third edition, including a later version of the same standard incorporating the same level of testing requirements.

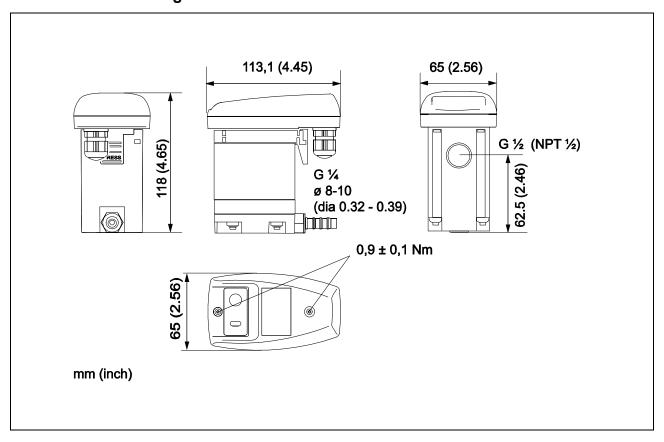
6 Electrical data

Supply voltage (see type plate)	95240 VAC ±10% (5060 Hz) /100125 VDC ±10% or 2448 VAC ±10% (5060 Hz) / 1872 VDC ±10%
Power consumption	P = 0,6 3 VA (W)
Recommended cable-jacket diameter	Ø 5,010 mm (0,20"0,39")
Recommended wire cross-section Spring-loaded terminal	0,751,5 mm² (AWG 1620)
Recommended wire cross-section Screw terminal	0,752,5 mm² (AWG 1420)
Recommended stripping of cable jacket	~ 50 mm (~ 1.97")
Recommended length of the wire end tube Spring-loaded terminal	~ 8 mm (~ 0.31 inch)
Recommended length of the wire end tube Screw terminal	~ 6 mm (~ 0.24 inch)
Protection class	IP 67
Overvoltage category (IEC 61010-1)	11

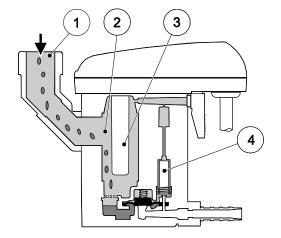
VAC = V alternating current

VDC = V direct current

7 Dimension drawing

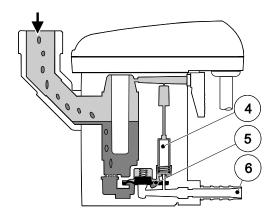


8 Function

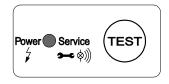


Via the inlet line (1) the condensate flows into the BEKOMAT $^{\$}$ 31U built-in F and accumulates in the housing (2).

A capacitive functioning sensor (3) continuously registers the filling level and relays a signal to the electronic control as soon as the container is filled.

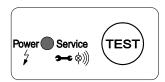


The pilot valve (4) is activated and the membrane (5) opens the outlet line to discharge the condensate (6). When the BEKOMAT® 31U built-in F is empty, the outlet line is reclosed tightly in time before unnecessary compressed-air losses occur.

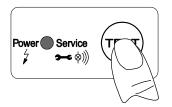


When applying supply voltage, the BEKOMAT® 31U carries out a **self-test**.

The LED is lit orange for 1 second; subsequently, the device changes over to the "**ready-to-operate**" state and the LED is lit green.



Ready to operate, voltage is applied.



Test of the valve function (manual drainage): Press and hold the push-button for approx. 2 s.

Do not use for permanent drainage.

The BEKOMAT® 31U built-in F releases a maintenance message for a service that is to be carried out.

Depending on the operating mode, a visual maintenance message (service) is activated which signalizes the replacement of the service unit.

The maintenance message is indicated by the flashing supply voltage-LED "Power".

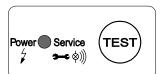
The maintenance message is released after 2 x 8.760 h or one million switching cycles.

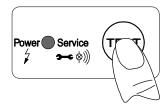
The maintenance signal is released when one of these two values is reached.

In the event of a power outage or when the energy supply is deactivated, the status of the timer will be maintained.

The activities to be carried out regarding maintenance are described in the chapter entitled "Check and maintenance".

Prior to the replacement of the service unit, a reset needs to be carried out. The control unit is released by actuating the arresting hook. When removed, the TEST button must be pressed and held for at least five seconds.





9 Installation

Danger!



Compressed air!

Risk of serious injury or death through contact with quickly or suddenly escaping compressed air or through bursting plant components or plant components which are not secured.

Measures:

- Do not exceed the maximum operating pressure (see type plate).
- Only carry out service measures when the system is pressure less.
- Use pressure-resistant installation material only.
- The feed pipe must be tubed firmly. Discharge pipe: short, fixed pressure hose onto pressure-resistant pipe.
- Make sure that persons or objects cannot be hit by condensate or escaping compressed air.

Caution!



Malfunction during operation!

Through incorrect installation and poor maintenance, malfunction may occur at the BEKOMAT.

Condensate which is not discharged may cause damage to plants and in production processes.

Measures:

- Condensate drainage which is reliable in performance directly optimizes the compressed-air quality.
- To prevent damage and breakdowns, it is imperative to observe the following:
 - Exact compliance with the specifications of use and with the performance parameters of the BEKOMAT, in connection with the case of application (see "Proper use" section)
 - Exact compliance with the installation- and operation instructions in this manual
 - Regular maintenance and control of the BEKOMAT in accordance with the instructions in this
 operating manual



Note

It is imperative to observe all hazard statements and warnings listed here.

Please also observe all regulations and notes regarding industrial safety and fire prevention at the place of installation.

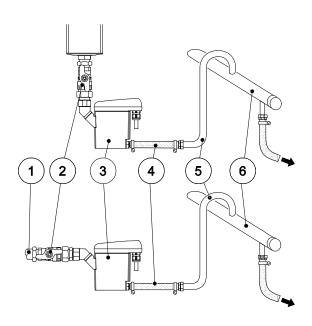
As a matter of principle, only use suitable and appropriate tools and materials in a proper condition.

Do not use aggressive cleaners and improper devices such as high-pressure cleaners.

Please note that condensates may contain aggressive or harmful components. Therefore, skin contact should be avoided.

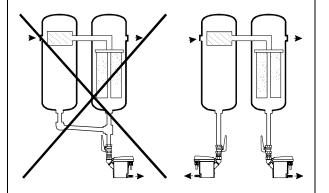
Condensate is subject to mandatory waste disposal. As such, it must be collected in suitable containers, and disposed of or processed properly.

Installation instructions:



- Only the displayed installation position of the BEKOMAT (3) is permissible. Never install in a horizontal or any other tilted position.
- Feed pipe (1) and ball valve (2) at least G½.
- · No filter or screen in the inlet line.
- Slope in the inlet line >1%.
- · Use ball valves (2) only.
- Operating pressure: min. 0,8/1,2 bar (12/17 psig), max. 16 bar (230 psig). See type plate.
- Short pressure hose (4) fixed on a pressure-resistant pipe.
- The required minimum pressure increases by 0,1 bar (1,4 psi) per metre gradient in the discharge pipe (5).
- Discharge pipe (5) rising by max. 5 m (16,4ft).
- Install manifold (6) ½" with a slope of 1%.
- Introduce the discharge pipe (5) from the top into the manifold (6).
- Prior to the start-up, always carry out a leak test and verify the correct engagement of the control unit.

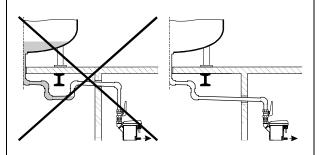
wrong correct





Pressure differences!

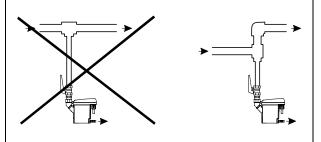
Each condensate accumulation point must be drained separately.





Continuous slope!

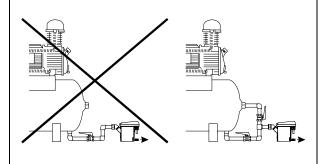
Avoid a water pocket when installing the feed pipe





Deflector area!

If drainage is to be carried out directly from the pipe, deflection of the air flow will be useful.





Ventilation!

If the slope in the inlet line is not sufficient or if any other inflow problems occur, a venting line needs to be installed.

10 Electrical installation



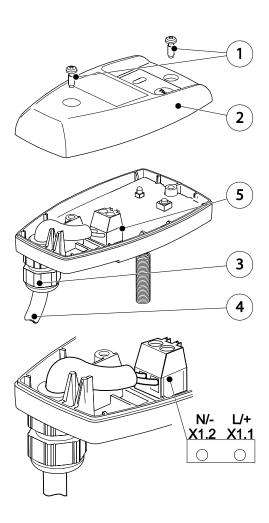
Danger!

Supply voltage!

There is the risk of an electric shock involving injury or death when coming into contact with non-insulated components carrying supply voltage.

Measures:

- During electric installations, all regulations in force need to be adhered to (e.g. VDE 0100 / IEC 60364).
- When the control unit is open, service and installation works must only be undertaken when the system is deactivated.
- The removed control unit has no IP degree of protection.
- All types of electrical works must be carried out by authorized and qualified personnel only.





Note:

- 1. Read the permissible supply voltage on the type plate and make sure this voltage is observed.
- 2. For the supply voltage, a reliably accessible separator must be provided close-by (e.g. power plug or switch), which separates all current-carrying conductors.
- At a low-voltage supply (< 50 VAC / < 75 VDC), only use a protective extra-low-voltage.
- 4. Carry out installation in accordance with VDE 0100 / IEC 60364.
- 5. Observe the terminal assignment.
- 6. Do not install when the device is energized.
- 7. Unscrew the screws (1) and remove the upper part of the cover (2).
- 8. Unscrew the threaded cable connection (3), remove the plug (if there is one), and lead the cable (4) for the power supply through.
- 9. Connect the cable (4) with terminals X1 (1.1, 1.2) (5).
- 10. Install the cables as shown (see also terminal assignment in the following text).
- 11. Tighten the threaded cable connection (3) with a slightly sealing effect.
- 12. Put on the upper part of the cover (2) and tighten the screws (1) fingertight.

14

Terminal assignment supply voltage (operating voltage)

Х	1
+	Ż
phase	neutral
1.	1.2

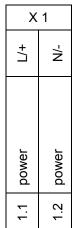
Power supply

- X 1.1 L/+
- X 1.2 N/-

L = Outer conductor

N = Neutral conductor

Terminal assignment low voltage (operating voltage)



Power supply

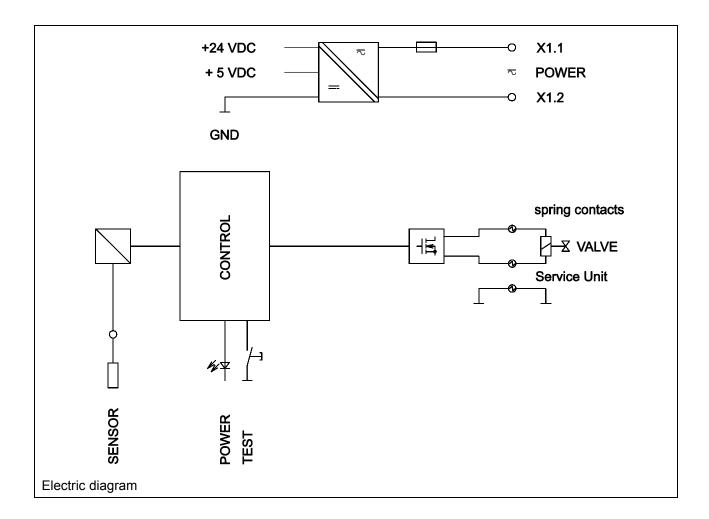
- X 1.1 L/+
- X 1.2 N/-





Note:

At a low voltage supply (< 50 VAC / < 75 VDC), only use a protective extra-low-voltage. Tighten the threaded cable connection with a slightly sealing effect.



11 Control and maintenance

Danger!



Compressed air!

Risk of serious injury or death through contact with quickly or suddenly escaping compressed air or through bursting plant components or plant components which are not secured.

Measures:

- Do not exceed the maximum operating pressure (see type plate).
- Only carry out service measures when the system is pressure less.
- Use pressure-resistant installation material only.
- The feed pipe must be tubed firmly. Discharge pipe: short, fixed pressure hose onto pressure-resistant pipe.
- Make sure that persons or objects cannot be hit by condensate or escaping compressed air.



Danger!

Supply voltage!

There is the risk of an electric shock involving injury or death when coming into contact with non-insulated components carrying supply voltage.

Measures:

- During electric installations, all regulations in force need to be adhered to (e.g. VDE 0100 / IEC 60364).
- When the control unit is open, service and installation works must only be undertaken when the system is deactivated.
- The removed control unit has no IP degree of protection.
- All types of electrical works must be carried out by authorized and qualified personnel only.

Caution!



Malfunction during operation!

Through incorrect installation and poor maintenance, malfunction may occur at the BEKOMAT.

Condensate which is not discharged may cause damage to plants and in production processes.

Measures:

- Condensate drainage which is reliable in performance directly optimizes the compressed-air quality.
- To prevent damage and breakdowns, it is imperative to observe the following:
 - Exact compliance with the specifications of use and with the performance parameters of the BEKOMAT, in connection with the case of application (see "Proper use" section)
 - Exact compliance with the installation- and operation instructions in this manual
 - Regular maintenance and control of the BEKOMAT in accordance with the instructions in this
 operating manual



Note

It is imperative to observe all hazard statements and warnings listed here.

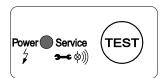
Please also observe all regulations and notes regarding industrial safety and fire prevention at the place of installation.

As a matter of principle, only use suitable and appropriate tools and materials in a proper condition.

Do not use aggressive cleaners and improper devices such as high-pressure cleaners.

Please note that condensates may contain aggressive or harmful components. Therefore, skin contact should be avoided.

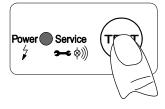
Condensate is subject to mandatory waste disposal. As such, it must be collected in suitable containers, and disposed of or processed properly.



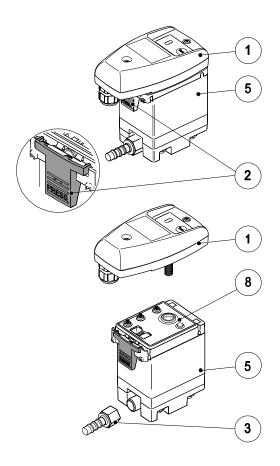
Maintenance recommendation:

After 2 x 8,760 operating hours or one million switching cycles, a maintenance message is released.

The green power LED flashes. Afterwards, or at the latest after two years (2 x 8,760 operating hours), the service unit (5) needs to be replaced.

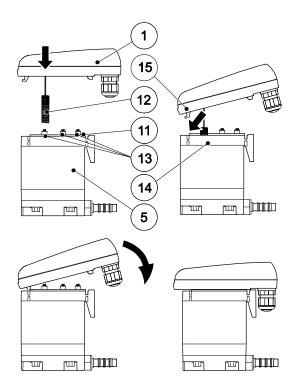


 Prior to the replacement of the service unit, a reset needs to be carried out. The control unit is released by actuating the arresting hook. When removed, the TEST button below the LED must be pressed and held for at least five seconds.



- 2. Remove the control unit (1) by pressing the arresting hook (2).
- 3. Unfasten the BEKOMAT® 31U from the outlet (3).
- 4. Detach the service unit (5) from the tubing at the inlet by removing the union nut.

- Check whether or not the new service unit (5) goes with the control unit (1) (model designation and color of the arresting hook (2)).
- 6. Installation of the new service unit (5) in reverse order.



Installation of the control unit on the service unit:

- 1. Check whether or not the service unit (5) goes with the control unit (1) (model designation and color of the arresting hook).
- 2. Check whether or not the sealing mat (11) and the contact springs (13) are clean, dry, and free from impurities.
- 3. Introduce the sensor (12) into the sensor tube plate (14).
- 4. Hang the hook (15) of the control unit (1) in the sensor tube plate (14).
- 5. Press the control unit (1) against the service unit (5) and snap into place

Start-up subsequent to maintenance measures:

Always carry out prior to the start-up:

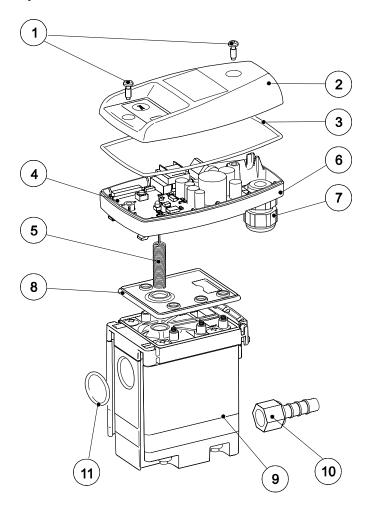
- · Leak test of the screwed connector
- · Check of the electrical connections
- Check of the correct engagement of the control unit

20

12 Troubleshooting and fault elimination

Symptoms	Possible reasons	Measures
Power ○ Service (TEST) ∠ LED does not light up	Supply voltage incorrect Circuit board defective	Check voltage on the type plate Check the connections and the supply voltage Check the circuit boards for possible damage
Power Service (TEST) Z → (♦))) LED lights continuously orange	Failure during the start of the programme Circuit board defective	Separate the device from the supply voltage and reactivate after > 5 s Check the circuit boards for possible damage
Power Service (TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	Feed pipe and/or discharge pipe blocked or obstructed Wear and tear Circuit board defective Service unit defective Minimum pressure not reached Maximum pressure exceeded	Check feed and discharge pipe Check whether or not the valve opens audibly (press the test button several times for > 2 seconds) Check the circuit board for possible damage Check the operating pressure
Power Service (T)	Feed pipe without sufficient slope Cross section not large enough Condensate accumulation too high (surge) Service unit extremely dirty	Install feed pipe with a slope Replace the service unit
Condensate discharge only when the test button is pressed		
Power Service TEST (TEST) Device blows off continuously	Service unit defective or dirty	Replace the service unit

13 Elements and components



- 1 Screw 3.5 x 10
- 2 Upper part of the cover
- 3 Moulded gasket
- 4 Circuit board
- 5 Sensor
- 6 Lower part of the cover

- 7 Cable bushing
- 8 Sealing mat
- 9 Service unit
- 10 Hose connector
- 11 O-ring 20 x 2

14 Recommended spare parts

Available sets of spare parts	Contents	Order number
Service unit F	8, 9, 11*	4023608
Gasket kit	3, 8, 11*	4024386
Design shell*	16*	4010164
Connection adapter G* Connection adapter NPT*	11*, 12*, 13*, 14*, 15*	4010155 4012610

^{*} Not for BEKOMAT 31U built-in F

15 Accessories

Available accessory sets	Contents	Order number
Outlet set With a hose and installation material	Tubing piece 10x3x800 Grommet 9-G½ Ms Hose clamp 12-22/9 A2	2000045

16 Declaration of conformity

BEKO TECHNOLOGIES GMBH 41468 Neuss, GERMANY Tel: +49 2131 988-0

www.beko-technologies.com



EG-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 31U, 32U, 32UV, 33U, 33UV

Spannungsvarianten: 95...240 VAC ±10% (50...60 Hz) / 100...125 VDC ±10%

oder

24...48 VAC ±10% (50...60 Hz) / 18...72 VDC ±10%

Betriebsdruckbereich: 0,8...16 bar (12...230 psi)

oder

1,2...16 bar (17...230psi)

Produktbeschreibung und Funktion: Kondensatableiter zur elektronisch niveaugeregelten

Ableitung von Kondensat im Druckluftnetz.

Niederspannungs-Richtlinie 2006/95/EG

Angewandte harmonisierte Normen: EN 61010-1:2010

Anbringungsjahr der CE-Kennzeichnung: 1

Die Geräte mit einer Betriebsspannung von 24...48 VAC und 18...72 VDC fallen nicht in den

Anwendungsbereich der Niederspannungs-Richtlinie.

EMV-Richtlinie 2004/108/EG

Angewandte harmonisierte Normen: EN 61326-1:2006

EN 55011:2009 + A1: 2010, Gruppe 1, Klasse B

RoHs Richtlinie 2011/65/EU

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

Neuss, 21.08.2013 BEKO TECHNOLOGIES GMBI

i.V. Christian Riedel Leiter Qualitätsmanagement

BEKO TECHNOLOGIES GMBH

41468 Neuss, GERMANY Tel.: +49 2131 988 0 www.beko-technologies.com



EC Declaration of Conformity

We hereby declare that the products indicated hereafter comply with the stipulations of the relevant directives and technical standards. This declaration only refers to products in the condition in which they have been placed into circulation. Parts which have not been installed by the manufacturer and/or modifications which have been implemented subsequently remain unconsidered.

Product designation: Condensate drain

Types: BEKOMAT 31U, 32U, 32UV, 33U, 33UV

Voltage options: 95...240 VAC ±10% (50...60 Hz) / 100...125 VDC ±10%

or

24...48 VAC ±10% (50...60 Hz) / 18...72 VDC ±10%

Operating pressure range: 0.8...16 bar (12...230 psi)

or

1.2...16 bar (17...230psi)

Product description and function: Condensate drain for the electronically level-controlled

discharge of condensate in the compressed-air system.

Low-Voltage Directive 2006/95/EC

Harmonized standards applied: EN 61010-1:2010

Year of CE labeling: 13

The devices with a supply voltage of 24...48 VAC and 18...72 VDC do not come under the scope of the Low-Voltage Directive.

EMC Directive 2004/108/EC

Harmonized standards applied: EN 61326-1:2006

EN 55011:2009 + A1: 2010, group 1, class B

RoHs Directive 2011/65/EU

The stipulations of the 2011/65/EU Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment are observed.

Neuss, 21 August 2013 BEKO TECHNOLOGIES GMBH

p.p. Christian Riedel

Head of Quality Department

.

A	L
Accessories 23	LED does not light up 21
Accessory sets 23	LED lights continuously orange 21
В	Lower part of the cover 22
Blows off 21	М
C	Maintenance 17
Circuit board 22	Maintenance recommendation 18
Components 22	Malfunction 21
Condensate discharge disturbed 21	Membrane 9
Control 17	Mounting 11
Control unit 19	N
D	No condensate discharge 21
Danger compressed air 4, 11, 17	0
Danger supply voltage 5, 14, 17	Order number 23
Data 7	Outlet line 9
Declaration of conformity 24	P
Deflector area 13	Piktogramme 4
Degree of protection 5, 14, 17	Pilot valve 9
Dimension drawing 8	Pressure differences 13
Dimensions 8	Proper use 6
E	Q
Electric diagram 16	Qualified personnel 5, 14, 17
Electrical data 7	R
Electrical data 7	Recommended spare parts 23
Electrical installation 14	·
Elements 22 Exclusion from the scope of application 6	S
Exclusion of a field of application 6	Safety instructions 4
	Self-test 9
	Sensor 22 Sensor tube plate 20
Failure 21	Service measures 4, 11, 17
Fault clearance 21 Fault diagnosis 21	Service unit 18, 22
Fault elimination 21	Sets of spare parts 23
Feed pipe 13	Slope 13
Field of application 6	Spare parts 5, 23
Filling level 9	Symbole 4
Function 9	Т
н	Technical data 7
Hose connector 22	Troubleshooting 21
	U
nlet line 9	Upper part of the cover 22
Installation 11	V
nstallation and operating instructions 4	
nstallations- und Betriebsanleitung 4	Venting line 13
nstructions, safety instructions 4	W
-	Water pocket 13

BEKOMAT® 31U built-in F

Headquarter:

Deutschland / Germany

BEKO TECHNOLOGIES GMBH Im Taubental 7 D-41468 Neuss Tel. +49 2131 988 0

Tel. +49 2131 988 0

beko@beko-technologies.com

India

BEKO COMPRESSED AIR TECHNOLOGIES Pvt. Ltd.

Plot No.43/1, CIEEP, Gandhi Nagar, Balanagar, Hyderabad - 500 037, INDIA

Tel. +91 40 23080275

eric.purushotham@bekoindia.com

Benelux

BEKO TECHNOLOGIES B.V.

Veenen 12

NL - 4703 RB Roosendaal Tel. +31 165 320 300

benelux@beko-technologies.com

España / Spain

BEKO Tecnológica España S.L. Torruella i Urpina 37-42, nave 6

E-08758 Cervello

Tel. +34 93 632 76 68

info.es@beko-technologies.es

Česká Republika / Czech Republic

BEKO TECHNOLOGIES s.r.o.

Na Pankraci 1062/58

CZ - 140 00 Praha 4

Tel. +420 24 14 14 717

info@beko-technologies.cz

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

Tel. +86 21 508 158 85

info.cn@beko-technologies.cn

Italia / Italy

BEKO TECHNOLOGIES S.r.I

Via Peano 86/88

I - 10040 Leinì (TO)

Tel. +39 011 4500 576

info.it@beko-technologies.com

Polska / Poland

BEKO TECHNOLOGIES Sp. z o.o.

ul. Chłapowskiego 47

PL-02-787 Warszawa

Tel +48 22 855 30 95

info.pl@beko-technologies.pl

South East Asia

BEKO TECHNOLOGIES S.E.Asia

(Thailand) Ltd.

75/323 Romklao Road

Sansab, Minburi

Bangkok 10510

Thailand

Tel. +66 2-918-2477

info.th@beko-technologies.com

United Kingdom

BEKO TECHNOLOGIES LTD.

2 & 3 West Court

Buntsford Park Road

Bromsgrove

GB-Worcestershire B60 3DX

Tel. +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

Tél. +33 387 283 800

info@beko-technologies.fr

日本 / Japan

BEKO TECHNOLOGIES K.K

KEIHIN THINK 8 Floor

1-1 Minamiwatarida-machi

1- i Minamiwatanda-machi

Kawasaki-ku, Kawasaki-shi JP-210-0855

Tel. +81 44 328 76 01

info@beko-technologies.jp

Scandinavia

www.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.)

Tel. +886 2 8698 3998

peter.huang@beko-technologies.tw

USA

BEKO TECHNOLOGIES CORP.

900 Great SW Parkway

US - Atlanta, GA 30336

Tel. +1 404 924-6900

beko@bekousa.com

Translation of the original manual/instructions.

Original instructions are in German

Subject to technical modifications without notice / errors accepted.

BM31U_built_in_F_uc_manual_en-us_2014_08.

Printed in Germany