

Operating Instructions

for the MEIKO disposal system for organic kitchen waste

WasteStar CC, Compact Concept

Translation of the "Original operating instructions"



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1 Introduction and general instructions

Dear customer,

we are delighted about the confidence you have shown in our products.

It is very important to us that you should obtain a great deal of pleasure and usefulness from MEIKO products and that they should make your work easier.

If you follow the instructions in this document carefully, your machine will always give you total satisfaction and will have a long service life.

After assembly at our factory, this machine was put through a thorough inspection. This helps us make sure, and gives you the guarantee that you always receive a mature product.

We would therefore ask you to read these operating instructions carefully before using the installation. Any further related operating instructions for accessories and incorporated third-party products must be strictly observed!

These operating instructions are designed to familiarise the owner/operator of this system with its installation, modes of operation, use, safety instructions and servicing.

In the event of any damage caused by non-observance of these operating instructions, any guarantee claims are invalid. We accept no liability for any additional damage caused as a result.

MEIKO operates a policy of continuous development on all its appliances.

As a result of this, please understand that we thus reserve the right to make changes to the scope of supply concerning the design, equipment and technical features at any time.

No claims may therefore be based on the details, the images or the descriptions contained in these operating instructions.

Should you require any further information, or in case any particular problems should arise that are not dealt with in great detail in the operating instructions, you may contact the relevant MEIKO branch to obtain the information you require.

Further, we draw your attention to the fact that the content of these instructions does not form part of a former or existing agreement, promise or legal relationship and does not modify such a point.

All MEIKO's obligations arise from the relevant purchase contract which also contains the entire and only valid guarantee provisions. These contractual guarantee rules shall be neither extended nor restricted as a result of any explanations given in the instructions.

The operating instructions must exist in the local language for each EU country. If this is not the case, the installation must not be commissioned.

The original operating instructions in German and all operating instructions in all languages for EU countries can be downloaded from the following address:
<https://partnetnet.meiko.de>

You receive all this technical documentation free of charge. Any additional copies required are available for a nominal fee.

MEIKO wishes you much pleasure and success!

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1.1 Storage

Keep the operating instructions in the vicinity of the installation in a location that is easily accessible to all users.

1.2 Name and address of manufacturer

In case of further questions or technical problems, contact directly:

MEIKO Maschinenbau GmbH & Co. KG
Englerstrasse 3
D - 77652 OFFENBURG
Phone + 49 (0)781 / 203-0
<http://www.meiko.de>
info@meiko.de

or:

Name and address of the MEIKO branch, manufacturer's agent or from MEIKO authorised Service Partners.

(Enter company's stamp or address)

1.3 Authorisation for service technicians of our service partners

MEIKO exclusively authorises authorised Service Partners for commissioning, inductions, repairs, maintenance, assembly and installation of the corresponding product groups within MEIKO devices.

1.4 Designation of installation

Please provide the following information on any query and/or when ordering spare parts:

- Machine type
- Serial number
- Year of manufacture



1.5 Type label



Machine type
Serial number
Power supply
Electrical connection
Year of construction

2 Explanation of the safety symbols used

The following safety symbols will appear throughout these operating instructions. These symbols are designed to draw the reader's attention to the text next to the safety instructions.

DANGER

Refers to a dangerous situation which results in death or serious bodily injury.

WARNING

Refers to a dangerous situation which can result in death or serious bodily injury.

NOTE

Refers to a situation which can result in damage to property.











Application information and other useful information

2.1 Graphic reference symbols

The following notes and risk symbols can occur wholly or in part in the operating manual and on the installation. These symbols (or symbols on the installation) must be observed without fail!

The symbols have the following functions:

			
Caution! Electric shock!	Caution! Hand injuries!	Caution! Heavy loads!	No splashing water!
			
Access prohibited for persons with pacemakers!	Use protective gloves!	Wear protective glasses!	Mouth protection

3 General description and intended use

3.1 General description

The WasteStar CC is designed to dispose of incidental organic waste with a compact system. The WasteStar disposal system fulfills the most recent legal stipulations with regard to waste management for organic materials in industrial kitchens.

The WasteStar CC makes possible the economical, environmentally-friendly and rational preparation / disposal of kitchen waste and food waste.

The organic waste that occurs is fed into the funnel.

The leftovers slide into the grinder unit where they are comminuted via a pipe union with a diameter of 100.

The pumping process starts as soon as the set filling level in the grinder unit has been reached.

Comminuted leftovers are pumped into the locally available collection tank via a locally available pipeline (≥ 50 mm).

The MEIKO WasteStar system complies with the quality and safety requirements of EC directives as well as the ISO 9001 quality management system.

3.2 Intended use

The installation must be deployed and operated only for its intended use only.

This WasteStar system is designed for the disposal of shredded organic kitchen waste **only** and any other use is not permitted.

Leftovers and the following waste types are suitable for the grinder:

- Organic particles (grain size ≤ 80 mm)
- Leftovers
- Food waste
- Raw organic waste (raw fruit/vegetables)

If you do not operate this WasteStar system in line with its intended use, safe operation cannot be guaranteed!

In case of injury or damage arising from the unintended use of the system, the manufacturer accepts no liability; the operator of the WasteStar system shall be liable in this case.

Any other use is not considered intended.

This installation is intended solely for use in a commercial environment!



The intended use of the system specifies that qualified and instructed personnel operates the system **only**!

Qualified personnel must be older than 14 years of age. Personnel must have been adequately qualified, instructed and authorised by the operator!

3.3 Foreseeable use

The installation **must not** be used for the following foreseeable uses:

- Leftovers, waste and bones with a grain size in excess of $\geq 80\text{mm}$
- Larger quantities of leftovers and waste with temperatures above $\geq 55^\circ\text{C}$ at the same time (\geq approx. 10 l)
- Metal parts
- Cutlery pieces
- Glass/porcelain
- Living creatures
- Plastics e.g.: polystyrene, foamed polystyrene etc.
- Disposable crockery and plastic cutlery
- Yoghurt cups
- Plastic film (bags) etc.
- Curing fats

Non-intended use includes filling hazardous materials (harmful materials, particularly poisonous, corrosive, highly flammable and explosive substances).

Non-intended use includes operating the machine in explosive work environments.

4 EC Declaration of Conformity

Muster / Example / Exemple / Esempio / Ejemplo / Voorbeeld

EG-Konformitätserklärung

EC Declaration of Conformity / Déclaration de conformité CE / Dichiarazione di conformità CE / Declaración de conformidad CE / CE-conformiteitsverklaring

Firma / Company / Société / Ditta / Empresa / Fabrikant

Adresse / Address / Adresse / Indirizzo / Dirección / Adres

MEIKO Maschinenbau GmbH & Co. KG

Englerstraße 3
77652 Offenburg
Germany

Kontakt

Contact / Contact / Contatto / Contacto / Contact

Internet: www.meiko.de

E-mail: info@meiko.de

Telefon: +49(0)781/203-0

Auftrag Nr.

Order no. / No. de commande / No. d'ordine / No. de pedido / Opdracht nr.

Speiserestbehandlungsanlage Typ

Food waste system, model / Installation d'élimination des déchets, modèle /
Impianto smaltimento rifiuti, modello / Instalación de restos de comida, modelo /
Afvalverwerkingsinstallatie, model

Konformitätserklärung

Declaration of Conformity / Déclaration de conformité / Dichiarazione di conformità / Declaración de conformidad / Conformiteitsverklaring

Hiermit bescheinigen wir in alleiniger Verantwortung die Konformität des Erzeugnisses mit den grundlegenden Anforderungen der folgenden EG-Richtlinien, harmonisierten Normen, nationalen Normen.

We hereby declare at our sole responsibility that the product conforms to the essential requirements of the following EC Directives, harmonized standards, national standards.

Par la présente nous certifions sous notre seule responsabilité la conformité du produit avec les exigences fondamentales des directives CE, normes harmonisées et normes nationales suivantes.

Con la presente dichiariamo sotto la nostra responsabilità la conformità del prodotto con i regolamenti basilari delle seguenti direttive CE, normative armonizzate e normative nazionali.

Por la presente declaramos bajo nuestra sola responsabilidad que nuestros productos están en conformidad con las exigencias básicas de las siguientes directivas de la CE, normas homologadas y normas nacionales.

Hiermee verklaren wij onder geheel eigen verantwoordelijkheid de conformiteit van het product met de fundamentele en gestelde eisen volgens EG-richtlijnen, geharmoniseerde normen en nationale normen.

EG-Richtlinie / EC Directive / Directive CE / Regolamento CE / Directiva CE / EG-richtlijn

2006/42/EG

Dokumentationsbevollmächtigter

Responsible for documentation / Responsable de la documentation / Responsabile della documentazione / Responsable de la documentación / Voor deze documentatie verantwoordelijk

Viktor Maier

MEIKO Maschinenbau GmbH & Co. KG
Englerstr. 3 - 77652 Offenburg - Germany

MEIKO Maschinenbau GmbH & Co. KG

ppa.
(per procura)

Dr. Thomas Peukert

Leiter Entwicklung und Konstruktion

Head of Development-Design / Responsable Développement-Construction / Direttore Sviluppo-Costruzione / Jefe de la sección de desarrollo y diseño / Chef Ontwikkeling-Constructie



5 General safety instructions



NOTE

The following safety instructions are for your protection as well as the protection of others and the installation. Compliance with the instructions is therefore absolutely necessary.

5.1 Operator's duty of care

This installation has been constructed and designed based on a risk assessment and careful selection of the applicable harmonised standards, as well as additional technical specifications.

It is therefore state of the art and guaranteed to provide maximum safety. Safety can only be guaranteed during operation if all necessary measures are taken.

The operator of the installation has an obligation of care to ensure that these measures are planned for, and also to check that they are correctly implemented.

5.2 Measures to ensure safe system operation



The operator must ensure in particular that ...

- the installation is only used in accordance with the regulations
in case of other use or operation, damage or risks may arise for which we accept no liability (cf. chapter "Intended use").
- in order to guarantee functionality and safety, use only original parts supplied by the manufacturer when needed. Any potential claims by the user shall be rendered void if the system was altered using parts other than original spare parts.
- only appropriately qualified and authorised personnel use, maintain, and repair the installation.
- staff is regularly trained in all questions relating to occupational safety and environmental protection and, in particular, that staff is familiar with the operating instructions as well as with the safety instructions they provide.
- the installation is only operated in perfect, operationally efficient condition, all safeguards and cladding panels are installed, and, in particular, that the safety systems and switch elements are regularly checked for their operational efficiency.
- the required personal protective equipment is made available to and used by maintenance and repair personnel.
- a functional test on all safety systems of the installation is carried out during every regular maintenance.
- all the safety, warning and operating instructions provided are not removed and are legible.
- any necessary regular checks on supply parts are carried out. More detailed information, if required, can be found in the relevant operating instructions.
- after the installation, setting in operation and handing-over of installation to the customer/operator further modifications are not allowed (e.g. to electric components or the location). Modifications to the installation and in particular

technical modifications carried out without the manufacturer's written authorisation, or any modifications carried out by unauthorised persons, will lead to the complete loss of any guarantee claims and will invalidate any liability for the product.

5.3 Basic safety measures



DANGER

Risk of injury due to electric shock, damage to property.

Parts carrying electric current as well as moving or rotating parts can cause danger to the user's life and limb and material damage.

Danger can arise from the improper use of the installation or if it is used for purposes for which it was not intended.

The installation may only be operated by adequately qualified staff who have been trained by the operating company and who have been trained about the Hazard and Safety Instructions.

When electrical equipment is in operation, it is inevitable that some parts of this equipment are live with dangerous current.

All current to the whole installation must be switched off before the machine's cladding or electrical equipment is opened.

PLACE THE MAIN SWITCH IN THE "OFF" POSITION and install suitable security measures to prevent the switch from being switched on.

Work and troubleshooting on electrical parts of the installation must be performed by specialists only. Observe accident prevention regulations.

The operator must not restart the installation until **all cover panels** have been put back in place.

- **Qualified staff**, as defined by the Operating Instructions, are persons:
 - over 14 years of age
 - who have read and observe the safety instructions as well as the operating instruction,



DANGER

Danger to life due to permanent magnets

Permanent magnets are installed under the task area (top edge of the machine).

There is a high possibility of eliminating any influence on active implants (e.g. pacers, defibrillators) by maintaining a safety distance of 30 cm (distance of the field source to the implant).

NOTE

Damage to property

The installation, switch cabinets and other electrical components must NOT be sprayed with a hose or a high pressure cleaner.

Avoid flooding the base of the system to prevent damage to components from penetrating water!

Observe all the instructions posted on the installation.

The installation may only be operated under the supervision of trained personnel.
Do not use the machine if you are unsure about system operation.

Always keep hatches and cover panels closed!



NOTE

Wear suitable work clothing

Loose clothing and jewellery increases the risk of being caught on protruding parts.

- Wear closely fitting work clothing.
- Do not wear rings, necklaces, or other pieces of jewellery.
- Wear protective gloves.
- Wear secure, suitable shoes.



5.3.1 Working on the electrical equipment



DANGER

Risk of injury due to electric shock

Any repair work and troubleshooting on the system's electrical equipment must be carried out by a qualified electrician!

Check the electrical equipment regularly!

Tighten any loose connections!

Replace any damaged leads/cables immediately!

6 Delivery, transport, installation and assembly

6.1 Delivery



NOTE

Check that the delivery is complete immediately after receiving it by comparing it to MEIKO's contract confirmation and/or the delivery note.

If necessary, complain about any missing parts immediately to the shipping company and notify MEIKO.

Check the entire installation for any damage that may have occurred during shipping.

In the event of any transport damage, please inform MEIKO immediately in writing, and also send a photo of the damaged parts to us.

6.2 Transport and installation



WARNING

Risk of injury caused by heavy loads!

In order to avoid damaging the system and causing serious injury during transport, the transport procedures must be carried out by qualified personnel only and in accordance with the safety precautions.

Please also read the chapter "General safety instructions".



- The installation must only be transported on the supplied wooden frame. The packing is specifically designed to allow the appliances to be moved safely and securely using a pallet jack or a sack truck.

- For safe transport, the installation is supported by a special square-timber frame.
- Observe transport instructions on the packing.
- Handle with care.
- Unpack the installation.

6.2.1 Installation and assembly

MEIKO created a standard drawing (see Technical data chapter) that features system dimensions as well as connection and consumption values.

The system must be installed as per the information in the installation drawing. It **must** be installed by a licensed and authorised technician.

We do not accept any liability for damage caused by unprofessionally implemented connection work.

System installation steps:

The complete unit must be levelled in both directions using a water level.

Compensate for an uneven floor by adjusting the feet.

Table joints must be sealed with detergent-resistant sealing compound (e.g. silicone).

6.3 Instructions for disposal of packing material

- The four-sided wooden frame consists of untreated, raw pine / spruce. Special country-specific import regulations may also stipulate the use of wood which has been treated against pests.
- The plastic sheeting (PE sheeting) can be recycled.
- The cardboard packaging material used to protect the edges can also be recycled.
- The steel strap from the packaging can be recycled as steel scrap.
- The plastic tensioning strap (PP) can be recycled.

6.4 Operating conditions

It is assumed that the planning of the system, as well as installation, setting in operation and maintenance works are executed by sufficiently instructed staff and that these works are checked by responsible specialists. The details on the system type plate must match those of the standard drawing and the locally available connection conditions.

Conditions to be provided by the customer:

- Frost free storage and installation area
- Electrical connection in accordance with standard drawing (see Technical data chapter). Connect the fixed connection with main switch (design: main switch, red/yellow with emergency off function). The main switch must be easily accessible and in the direct vicinity of operators.
- Water connection with shower in work zone
- Anti-slip floor coverings must be provided in the system's work area.
- Do not place on the mesh base



6.4.1 Requirements to the installation area

Ensure that the storage and installation area is permanently frost free.

If the system is installed in an area where the surrounding temperatures are below 0°C, the water freezing inside may damage the internal water components (pump, solenoid valve, etc.).

6.5 Requirements to the electrical connection



DANGER

Risk of injury due to electric shock!

Work on the electrical machine components may be undertaken by specialist electricians only.

The general electrical regulations must be observed when connecting the machine to the power supply.

The relevant wiring diagram is available behind the front panel of the installation. This wiring diagram must remain in the installation!

The type plate featuring electrical connected loads is available twice, 1 x visible from the outside and 1 x behind the front cover panel.

The customer must guarantee the following points relating to the connection:

- The correct voltage and type of current must be available
- The power supply must be fused according to regulations with a mains separator in the permanently wired electrical installation.
- If an unearthed neutral (N) is used with alternating current, the power disconnection device must have 4-poles (with alternating current 2-poles).
- The installation must be connected to a potential equalisation system!
- If the neutral line (N) is not earthed, you must use a 4-pin master switch. Mains connecting leads must be oil-resistant, shielded cables no lighter than an H 07 RN-F cable.
- For connection to three-phase current a 5-pole terminal strip (L1, L2, L3, N, PE) must be used.
- Electricity supply without neutral conductor (N): when connecting to three-phase current, use a 4-pole clamping strip (L1, L2, L3, PE).
- Conductor colours: live conductor L1 = black/1, L2 = brown/2, L3 = gray/3, neutral conductor N = blue/4, ground wire conductor PE = green-yellow.
- The potential equalisation connection must be carried out in accordance with the requirements of the local electricity supply company and all applicable local regulations (in Germany VDE 0100 Part 540 must be observed).
- The products are intended for permanent connection to the on-site power supply and have been tested for the market accordingly. Any other form of electrical connection is to be established by a licensed electrician.
- Do not connect any additional consumers to the fuse protecting the installation.
- Re-tighten all terminal fixing screws before the setting in operation.

7 System settings by authorised Service technician upon initial commissioning

7.1 Commissioning



Commissioning and training will be handled and provided by MEIKO authorised service technician. The operator must not use the installation before completing training.

To avoid damage or dangerous injuries during the setting in operation of the installation, please observe the following points:



WARNING

Risk of injury, damage to property!

As a result of unintended work on the system.

All persons involved in operation, maintenance or repair work must have read and understood the **General safety instructions** section.



DANGER

Risk of fatal electrical shock or fatal injuries caused by rotating parts!

All cladding must be intact before commissioning!

Before the first start, check if all tools and foreign parts are removed out of the installation.

Check any escaped fluids have been removed.

Activate all safety systems and switches on the front cladding before commissioning.

Check that all screw connections are tight.

Please also read the chapter "General safety instructions".

7.2 General operating instructions

- Fill the funnel max. 2/3! (max. throughput: 3l/min)
- Do not pour off deep frying oil or any other hardening oils into the funnel!
- Large pieces (grain size > 80mm) must be ground before being put in!
- Larger amounts of the same organic kitchen waste and food waste (chops, coffee grounds etc.) are to be mixed with other organic kitchen and food waste!
- Do not insert any cutlery or other inappropriate items!
- Avoid feeding in larger quantities (> approx. 10 l) of hot foods (> 55 °C) at the same time as this can cause the pump temperature switch to trip. We recommend allowing larger quantities of hot foods to cool down before feeding in (see Troubleshooting)

If pieces of cutlery or metal parts fall into the funnel, they are caught by magnets positioned below the funnel.

Remove pieces of cutlery or metal parts.




In the event that unsuitable materials reach the grinder unit or following a fault, there is the option to manually drain the tank contents of the grinder unit. For this purpose, de-energise the system and undo the drain sleeve below the grinder unit to manually drain the tank contents.

8 Operating the WasteStar CC

System operators must be very familiar with the Operating Instructions. Incorrect operation may result in personal injury or material damage.

8.1 Operation display



Key/display	Meaning of the symbols
	On/off button
	Grinder on button
	Pumping out button

8.2 Switching on and working with the WasteStar CC



DANGER

Risk of fatal electrical shock or fatal injuries caused by rotating parts!

Operate the device with completely closed casing only. Before removing any cladding, the on-site mains electricity supply must be switched off and secured with a padlock to prevent it from being switched back on. Otherwise there's the risk of fatal injury!



Switch on the locally available power disconnection unit.



Press the on/off button to switch on the machine. This launches a control check of the safety equipment.

After approximately 10 seconds press the button on/off again. The Power key permanently lights up in blue. The system is on now.

Initial filling:

Feed in approximately 10 litres of liquid as the initial fill!

In case of raw organic waste (raw fruit/vegetables): 15 litres.

Feed kitchen waste and leftovers into the funnel.

If required, add water for rinsing off.



Press the grinder on button. The grinder on button permanently lights up in blue. The comminuting process takes approximately 5 minutes and stops automatically. The grinder on button no longer lights up permanently.

Press the grinder on button for approx. 3 sec. The grinder on button permanently lights up in blue. The comminuting process takes approximately 60 minutes and stops automatically. The grinder on button no longer lights up permanently.

8.3 Draining comminuted waste

The pump starts automatically once the grinder tank reaches maximum filling level to pump out waste for 8 seconds.

Simultaneously the grinder unit is also active.

9 Cleaning and switching off the system

WARNING













Material damage

The installation, switch cabinets and other electrical components must NOT be sprayed with a hose or a high pressure cleaner.!

Avoid flooding the base of the system to prevent damage to components from penetrating water!

9.1 Cleaning - daily













 <p>1. Press the Grinder button. → The grinder will run for about 5 minutes.</p>	 <p>2. Press the Drain button. → The pump will run for 8 sec. Press and hold down the Drain button for about 3 seconds. → The pump will run for 30 sec.</p>	 <p>3. Clean the funnel.</p>
 <p>4. Fill the system with approximately 10 litres of hot water.</p>	 <p>5. Press the Grinder button. → The grinder will run for about 5 minutes.</p>	 <p>6. Press the Drain button. → The pump will run for 8 sec. Press and hold down the Drain button for about 3 seconds. → The pump will run for 30 sec.</p>
 <p>7. Fill the system with approximately 10 litres of hot water and 50 ml detergent.</p>	 <p>8. Press the Grinder button. → The grinder will run for about 5 minutes.</p>	 <p>9. Press the Drain button. → The pump will run for 8 sec. Press and hold down the Drain button for about 3 seconds. → The pump will run for 30 sec.</p>
 <p>10. Switch off the WasteStar CC.</p>		


DANGER
Risk of injury due to electric shock! Damage to property!





Switch off the power supply using the locally available mains disconnecter prior to any cleaning or maintenance and care work and secure it with a padlock!

The key for this lock must be kept in the hands of the person carrying out the maintenance and repair work!

Failure to observe these precautions can result in severe injury or damage to property.










		
11. Turn off the local main switch.	12. Remove the front panel.	13. Open the grinder unit door.
		
14. Remove add-on screen.	15. Spray the grinder unit carefully using a water hose (upper corners front).	16. Clean add-on screen.
		
17. Install add-on screen.	18. Close the grinder unit door.	19. Attach the front panel to the grinder unit.
		
20. Switch on the local main switch.	21. Switch on the WasteStar CC.	22. Press the draining button. Perform the pumping process a total of 2x.



		
23. Switch off the WasteStar CC.	24. Install siphon trap. Turn off the local main switch.	
 <p>- option -</p> <p>25. Open the revision drain slide, empty the machine, then close the revision drain.</p>		

Any safety covers that must be removed in order to perform such operations must be returned to their original condition when the work has been completed.

9.2 Weekly cleaning

Repeat cleaning steps 1 - 23 of daily cleaning!			25. Turn off the local main switch.
			26. Remove the front panel. 27. Open the grinder unit door. 28. Remove add-on screen.
29. Spray the complete interior and inside of the door on the grinder unit thoroughly with disinfectant*. ..			
			30. Install add-on screen. 31. Close the grinder unit door. 32. Attach the front panel.
		- option -	
		33. Open the revision drain slide, empty the machine, then close the revision drain.	

Any safety covers that must be removed in order to perform such operations must be returned to their original condition when the work has been completed.

* Detergent / disinfectant:

- MEIKO recommends brand cleaning products from leading manufacturers.
- Frequent changing from acidic-neutral-alkaline can lead to faster wear on the installed components.

If you use several cleaning products in your facilities, we recommend always using the same product (avoid frequent changes of cleaning products).

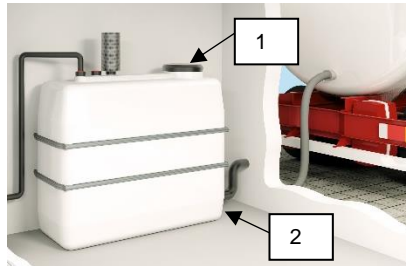
9.3 Cleaning the collection tank



WARNING

Risk of injury or severe injury!

Always wear a protective mask and goggles during cleaning work on the collection tank.



Before emptying:

- Open cover (1) of collection tank
- Open stop baffle (2)

Thoroughly spray out the collection tank with water during emptying using a water hose.

After emptying:

- Close cover (1) of collection tank
- Close stop baffle (2)

9.4 Maintenance emptying in case of malfunction



NOTE

Before opening the slide valve, place a collection recipient (for example: GN 1/1 container) underneath the WasteStar CC unit. Empty container as required.



Open the slide valve for maintenance emptying

Once the unit is empty, close the maintenance slide valve.

9.5 Decommissioning the system for a prolonged period of time (>2 weeks)



NOTE

If you will not be using the system for an extended period (>2 weeks), it is essential to drain the entire system (WasteStar CC ①/ducts ②/collection tanks ③).



Switch on the local main switch.



Switch on the WasteStar CC.



Fill the empty system with approximately 10 litres of hot water.



Press the draining button. Perform the pumping process a total of 2x.



Perform the "Filling and draining" processes approximately 4x.



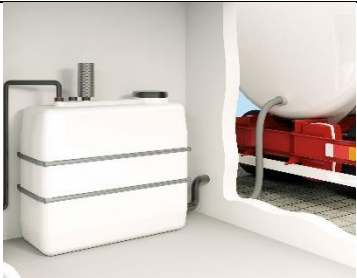
Switch off the WasteStar CC.



Install siphon trap.



Turn off the local main switch.



Have the collection tank drained

10 Maintenance and care

10.1 Care, general

The installation has been designed to keep the need for cleaning, care and maintenance to a minimum.

However, for reliable, safe and long-term function of the installation, and in the interest of hygiene and cleanliness, correct care and maintenance is necessary.

10.2 Care of stainless steel surfaces

We recommend cleaning the stainless steel surfaces only when needed with cleaner and care products suitable for stainless steel.

Lightly soiled parts can be wiped with a (possibly damp) cloth or sponge.

Be sure to wipe dry after cleaning to avoid traces of scale. Use demineralised water if possible.

Do not use aggressive cleaning or scouring agents.

The care products must not attack the stainless steel, form deposits, or cause discoloration.

Never use cleaning agents that contain hydrochloric acid or bleaches based on chlorine.

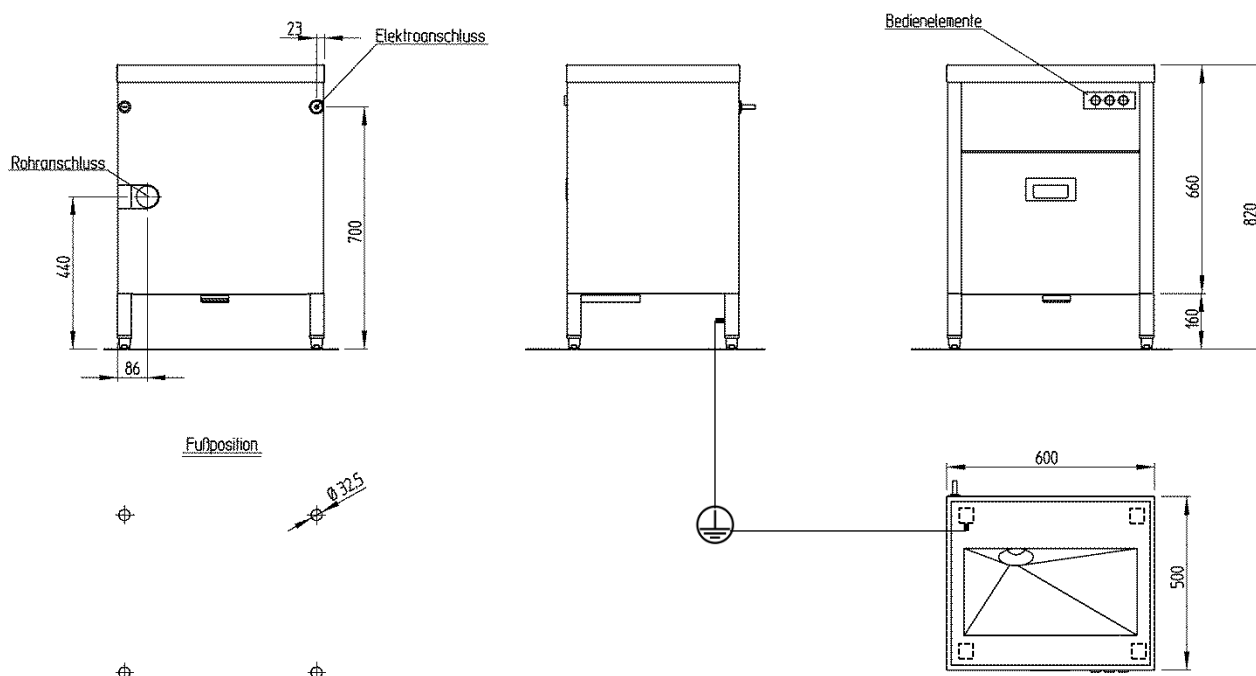
Never use cleaning equipment that you have used previously by non-stainless steel to avoid external corrosion.

Aggressive, external influences due to cleaning and care products that evaporate in the vicinity of the system, or direct application, may lead to system damage and put the material at risk (e.g. aggressive tile cleaners).

Caution!

Observe the manufacturers' hazard warnings on the original containers and safety data sheets.

10.3 Technical data



Width	600 mm
Depth:	500 mm
Height:	820 mm
Floor clearance:	150 mm
Filling quantity:	approx. 30 litres
Transport quantity:	at minimum approximately 3 litres/minute
Weight, empty:	approx. 115 kg
Weight, filled:	approx. 160 kg
Connecting values:	400V 3 /NPE, 50/60 Hz, 2.45 kW, 5.9 A Fixed connection with main switch at customer. (Design: main switch, red/yellow with emergency off function) With enclosed cable 3 m free cable ends.
Pipe connection	2" / DN 50
The floor load per leg (with a loaded area Ø=30 mm per leg) is approx. 40 kg	

11 Staff training

Only trained and instructed personnel are allowed to work at the machine. Staff responsibilities for operation, maintenance and repairs must be clearly defined.

Any personnel undergoing training are only allowed to work at the installation under the supervision of an experienced person.

Persons	Trained operating personnel	Authorised trained persons	Authorised service technician
Activity			
Installation and assembly			◆
Commissioning			◆
Operation, use	◆	◆	◆
Cleaning	◆	◆	◆
Check safety devices		◆	◆
Troubleshooting		◆	◆
Troubleshooting, mechanical		◆	◆
Troubleshooting, electrical		◆*	◆
Maintenance		◆	◆
Repairs		◆	◆

* trained electrician.

The instructions must be acknowledged in writing.

12 Operating errors

Despite being expertly designed, the machine may develop minor faults which are usually easy to eliminate. This section explains a number of possible problems and how you can deal with them yourself.



DANGER

Risk of injury due to electric shock! Damage to property!

Always de-energise the system before carrying out work on the open system.





For this purpose, switch off the system power supply using the locally available mains disconnect and secure it using a padlock.

The key for this lock must be kept in the hands of the person carrying out the maintenance and repair work!

Failure to observe these precautions can result in severe injury or damage to property.

Should any of the operational faults described arise repeatedly, their cause must be established in each case.

12.1 Help yourself in case of faults

	Malfunction:	Cause, remedy
	Impurities in the grinder unit <u>Appraisal:</u> Operator identifies loud noise	<ul style="list-style-type: none"> • Pumping If necessary, manually drain tank (slide, slide valve) Remove front panel Open the door Remove impurities Close the door Attach front panel
	All LEDs off: Unable to switch system on	<ul style="list-style-type: none"> • Re-attach front panel • Test power supply and switch system back on
	POWER LED key lights up and Draining LED key flashes: (System can be switched on/off):	<ul style="list-style-type: none"> • Fill level switch fault • Potentially add water and repeat draining • Food residue pulp too viscous? • Contact the authorised service technician
	POWER LED button and draining button flashing: Unable to switch system on	<ul style="list-style-type: none"> • Motor protecting switch off OR pump temperature >55°C • Too hot food residues supplied? • Allow the system to cool down, switch on the system and repeat draining • Contact the authorised service technician
	Grinding equipment blocked No fault messages on the device!	<ul style="list-style-type: none"> • Drive belt whizzes/slips • Contact the authorised service technician

As a rule, faults that are not described herein require assistance from an authorised Service technician. Please contact your factory representative or authorised dealer.

13 Maintenance, servicing

Regular maintenance is a prerequisite for the long-term reliable and safe operation of a machine. Maintenance which is neglected or improperly carried out increases the residual risk of unforeseen damage to property and persons, for which no liability will then be assumed.

We recommend you conclude a maintenance contract with our agency to guarantee a long service life of the installation.

Observe the maintenance intervals prescribed in the operating instructions!

Observe the maintenance instructions for the individual components!

A functional test on all safety systems of the installation is carried out during every regular maintenance.

Carefully dispose of any cleaning products that could harm the environment!

13.1 Basic safety measures during normal operation



DANGER

Risk of injury due to electric shock! Damage to property!

Before carrying out any maintenance and repair work, switch off the power supply at the main electrical power isolator switch and secure the switch with a padlock! The key for this lock must be kept in the hands of the person carrying out the maintenance and repair work!

Failure to observe these precautions can result in severe injury or damage to property.



WARNING

Risk of injury or severe injury!

Caused by unauthorised access.

Set up a safety fence during maintenance procedures to prevent unauthorised access.

Existing safety systems must not be removed!

As a matter of principle, no safety systems may be disassembled or decommissioned (except in the event of maintenance and repair work)!



Danger of scalding!

Before carrying out any maintenance and repair work, ensure that all the parts of the machine that may be touched have cooled down to room temperature!

13.1.1 Before setting in operation - after maintenance and repair works

For all work on or with the installation, observe legal requirements relating to the avoidance of waste materials and to their recycling/removal!

In particular, during installation, repair and maintenance work, materials that could pollute water must not pollute the ground or run into the sewerage system:

- Grease and oils
- Hydraulic oils
- Coolant
- Cleaning fluids containing solvents

These materials must be stored, shipped, collected and disposed of in suitable containers!

14 Maintenance manual



NOTE

Maintenance work should **only** be conducted by authorised MEIKO personnel.

Whenever any electrical components are disconnected and reconnected, replaced or repaired, a safety test must be conducted, at least on these components!!!

Maintenance work	CHECKED	CLEANED	REPLACED	Maintenance requirement
Visual inspection				

1. Drive motor				
Check the transport motor for external damage.				at least once a year
Check the transport motor for bearing noises.				at least once a year
Check current consumption (IN see electrical wiring diagram).				at least once a year
Check ventilation grid for cleanliness.				at least once a year
2. Drive belt wheel, drive belt				
Check drive belt for external damage and wear.				at least once a year
Check drive belt tension.				at least once a year
Replace drive belt wheel bearing if it is leaking and makes noises.				at least once a year
3. Electrical installation				
Check all screw connections, plug-in/terminal connections.				at least once a year
Carry out a visual check on all electrical equipment (e.g. switches / cables / connector, etc.).				at least once a year
Check pump temperature sensor.				at least once a year
Check safety switch.				at least once a year
Check switch box for leak tightness.				at least once a year
4. Pump				
Check pump for leaks and visible damage.				at least once a year
Replace sliding seal if it is leaking.				at least once a year
Check pumps for pump rotor noise and function.				at least once a year
Check impeller for damage and wear.				at least once a year
Spanner for groove nut DN 25-65 (between pump outlet and continuing pipeline): 9706558				

Maintenance work Visual inspection	CHECKED	CLEANED	REPLACED	<u>Maintenance requirement</u>
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5. Tank				
Check tank for damage.				at least once a year
Check screen housing for damage and wear.				at least once a year
Check door seal				at least once a year
Check correct function of float switch (pumping at approx. 29-30 litres).				at least once a year
Visually check tank housing rubber buffers				at least once a year
Check chain for damage and wear.				at least once a year
Check slide valve.				at least once a year
Check holding down device.				at least once a year
Check inspection window.				at least once a year
6. Housing				
Check housing, tank and claddings for damage and, function and completeness.				at least once a year
7. Test run with function test on the installation				
Visual inspection on the entire installation for leaks.				at least once a year
Check machine for correct interaction of all functions.				at least once a year
Test run: check results.				at least once a year
Brief instruction for new personnel				at least once a year

.....
Place, Date:

.....
Authorised service technicians:

15 Disposal of the installation

When you eventually dispose of the machine (removal/scraping), its components should be recycled in line with their materials.

A list of all materials that frequently occur during disassembly follows below:

- Chromium-nickel steel
- Aluminum
- Copper
- Brass
- Electrical and electronic parts
- PP and other plastics

16 Noise emission

The noise level is determined on the basis of: DIN EN ISO 11204 precision class 2

Noise level in the workplace	LpA ≤ 70 dB (measurement uncertainty +/- 2.5 dB)
------------------------------	---

17 Non-ionising radiation



Non-ionising radiation is not produced intentionally but unfortunately comes about due to electrical operating equipment (e.g. electrical motors, high-voltage cables and magnetic coils). There is a high possibility of eliminating any influence on active implants (e.g. pacers, defibrillators) by maintaining a safety distance of 30 cm (distance of the field source to the implant).

18 Abbreviations

LpA	LpA denotes the emission sound pressure levels at the workplace
dB	Abbreviation denoting decibel, the so-called sound pressure level. This designates the so-called noise level.

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The clean solution

MEIKO Maschinenbau GmbH & Co. KG
Englerstraße 3
77652 Offenburg
Germany
Tel. +49 (0)781 / 203-0
www.meiko.de
info@meiko.de