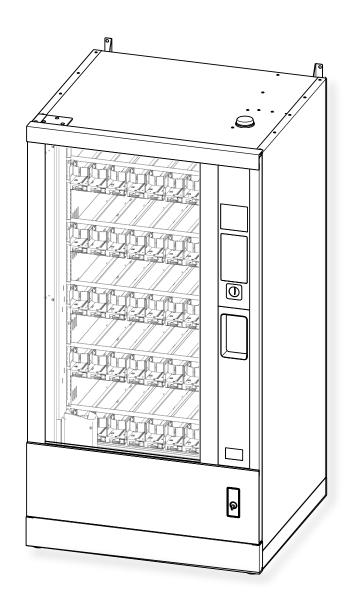


ELEVATE Diamond M, L

Cold drinks vending machine



Original operating instructions GB

Date: 08/08/2017 707 67 020 00 _ 031

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1. General

Modifications

The texts, pictures and data in these Operating Instructions reflect the technical status of the machine at the time of printing. We reserve the right to make changes due to ongoing development.

Versions

Please note that these operating instructions cover various machine versions. For this reason some of the information may not apply to your vending machine.

Complete document

This document consists of 65 pages. If all pages included are in consecutive order, your document is complete.

Availability of instructions

In order to ensure safe use of the machine, the operating instructions must always be accessible to the operator. These should be easily accessible for referral at all times.

This operating guide can also be accessed via the Internet from our secure download centre: (http://www.sielaff.com/download-center/)

Third party documentation

Various payment systems such as coin mechanisms, banknote readers or cashless payment systems can be fitted in this machine.

We would like to point out that special accessories may be required and special settings may need changing in the machine software in order to ensure error-free operation of the payment system being used.

Please refer to the additional third-part documentation from the relevant manufacturer (operating manual, fitting instructions etc.).

1.1 Hotline

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1.2 Performance features

Robimat is a machine for dispensing chilled drinks in cans, PET and glass bottles.

The drinks do not fall into the delivery unit but are transported by lift system. This means that fragile products can also be vended.

Products must fulfil specific criteria, please refer to the relevant chapter for more information

An upright integrated 7 inch touch display for modern machine operation. The software is prepared for EVA DTS 6.1 standard sales and error statistics.

The vending machine is prepared for operation with a coin mechanism as standard. Other payment systems can also be fitted.

1.3 Technical data

Dimensions Robimat L Robimat M	H x W x D 1830 x 1130 x 880 mm 1830 x 990 x 880 mm
Weight:	approx. 360 kg
Electrical connection:	220-230 V ~, 50/60 Hz
Power consumption:	max. 750 kW
Electrical connection:	Protective contact sockets, (installed in accordance with VDE)
Ambient temperature:	5 – 32 °C
On-site fuse protection:	13 A, Characteristic B
Circuit breaker:	$I_{\Delta N} = 30 \text{ mA}$
Maximum sound pressure:	< 70 dB (A)
A-rated sound pressure level emission in the workplace	$L_{pA} < 70 \text{ dB(A)}$
Instability:	$K_{pA} = 6 \text{ dB}$
The values were determined in accordance v+A12:2010 i.V. with EN ISO 11202:2010.	vith EN 60335-2-75:2004+A1:2005+A11:2006+A2:2008
Note:	The sum of noise emission and associated instability represents an upper limit of values which might occur when measurements are taken.

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1.4 Safety Information

- Before commissioning the machine, the operating instructions should be read and understood.
- When transporting, setting up, servicing and repairing the vending machine, strict
 adherence to the following rules and guidelines in their latest version is required:
 EU guidelines, VDE regulations (Association of German Electro-technical Engineers),
 Country-specific regulations, Accident prevention regulations, Industrial code, Trade
 association guide-lines, Regulations of the utility company responsible.
- Machine installation and repairs should only be carried out by trained service engineers.
- This machine can be used by children from 8 years and above and by people with limited physical, sensory or mental abilities or lack of experience and/or knowledge, provided that they are supervised by another person responsible for their safety, or if they have received instructions on how to use the machine and are able to comprehend the dangers resulting thereof. Cleaning and maintenance work on the machine should not be carried out by children without supervision.
- Children should be supervised to ensure that they do not play with the machine. The machine is not suitable for children under 3 years old.
- Damaged power cables must only be replaced by the manufacturer, authorised service centre or equally qualified person in order to prevent serious accidents.
- Appliance plugs should never be inserted in sockets when damp or touched with wet hands.
- It is imperative that an FI-safety cut-out switch with 30 mA maximum leakage current is provided for the machine. No higher than a 16A fuse should be used.
- Prior to all work on electric parts the machine must be unplugged from the mains supply.
- The machine must be fixed to the wall or floor.
- The venting clearance between the back of the vending machine and the wall on site must be observed (5 cm minimum).
- The vending machine in its standard configuration is only suitable for climate class N.
- The machine location must be dry and have heating installed.
- The machine must only be transported when empty.
- Do not clean the machine with a water hose or a high-pressure cleaner.
- Quickly moving the lift system by hand can cause damage. For this reason both axes
 of the lift system should be moved slowly.
- When the product basket is moved manually to the product delivery position (on the right), the sliding drawer unit should not be pulled out. Risk of damage!
- Use only genuine spare parts.
- Any modification to, or conversion of, the machine is prohibited! SIELAFF rejects any liability for any defects resulting in this way!
- Intended use
- The machine should only be used for dispensing beverages in cans and bottles.
- Only products approved by SIELAFF should be used.
- Inflammable or explosive goods must not be vended.

1.5 Explanation of symbols and signs

This vending machine was manufactured in accordance with state-of-the-art technology standards. Nevertheless, even the most expertly designed machine, cannot be without risks.

In order to ensure the highest possible level of operator safety, additional safety guidelines are highlighted by using the following symbols with accompanying detailed definitions.

Adequate safety during operation is ensured only when these safety precautions are observed.

The marked areas in the manual mean the following:



DANGER!

Danger risk which could result in death or severe injury.



CAUTION!

Possible hazardous situation which could result in death or severe injury.



ATTENTION!

Hazardous situation which could result in injury or damage to the vending machine.



NOTE!

Information to facilitate handling and use of the vending machine.

The following danger symbols may also be used in certain instances:



WARNING electricity! Danger to life!

This symbol warns that electrically live components are installed in this area. Covers that are marked with these symbols should only be removed by authorised electricians.



Note the handling instructions for contact with electro-statically-sensitive components and assemblies (ESD)

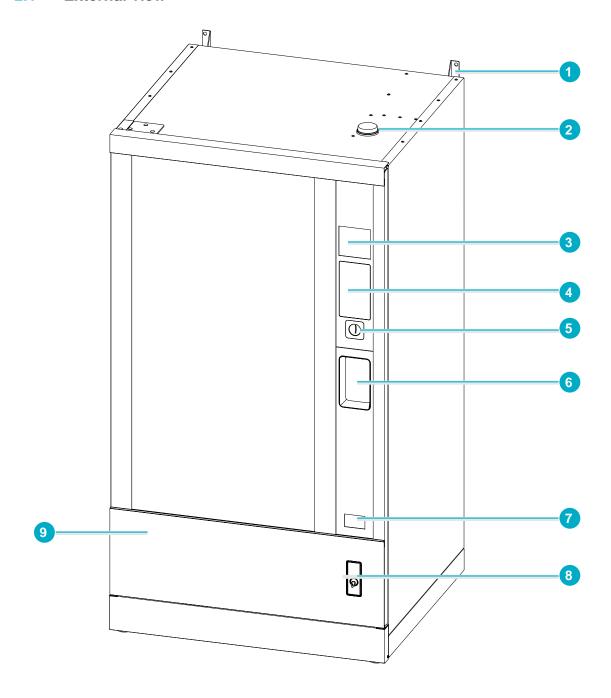
Parts and components that are susceptible to electrical discharge are behind covers marked with this symbol.

It is imperative that plug connections, electrical leads and component pins are not touched. Only specialist personnel with ESD knowledge are authorised to work on the machine!

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2. Machine diagrams

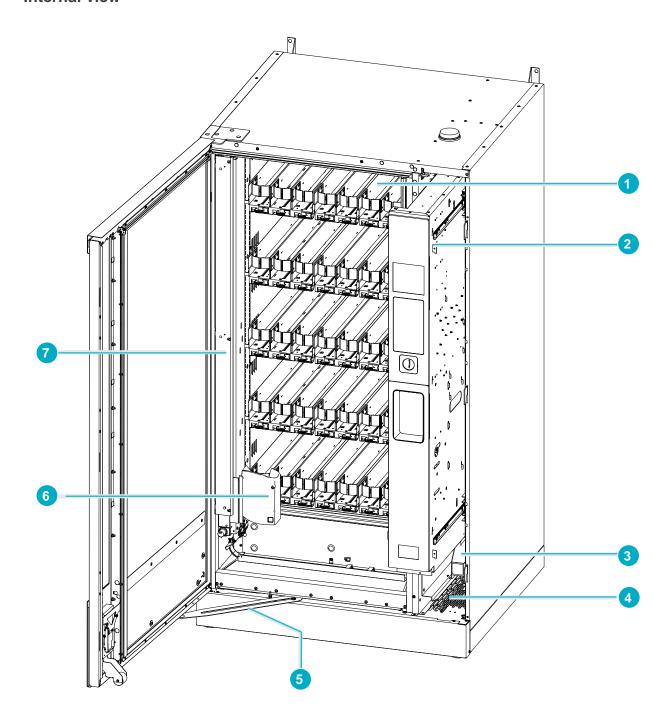
2.1 External view



- 1 Wall fixing bracket
- 2 Aerial (optional)
- 3 EVA-cut out
- 4 Touch Display
- 5 Coin insert

- 6 Delivery unit
- 7 Coin return
- 8 Locking lever with door lock
- 9 Machine door

2.2 Internal view

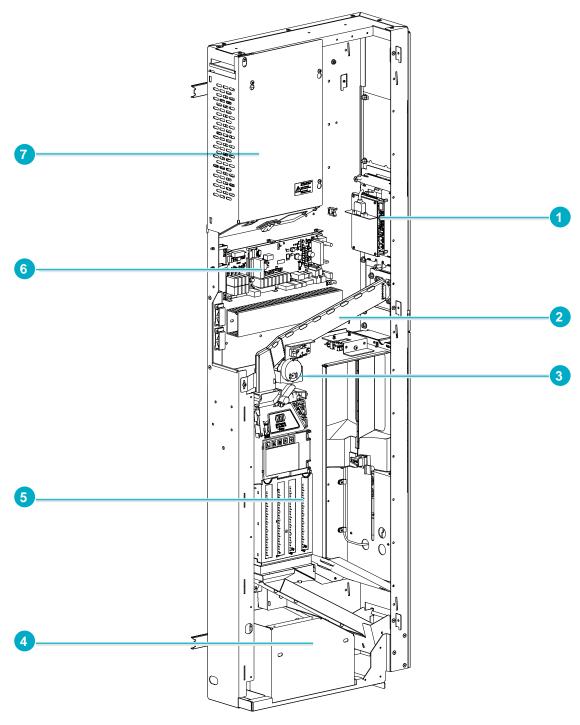


- 1 Product container
- 2 Telescopic slide-out unit
- 3 Removable dust filter
- 4 Air inlet for chiller
- 5 Door stop

- 6 Product basket
- 7 Vertical track

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2.3 Telescopic slide-out unit (drawer)

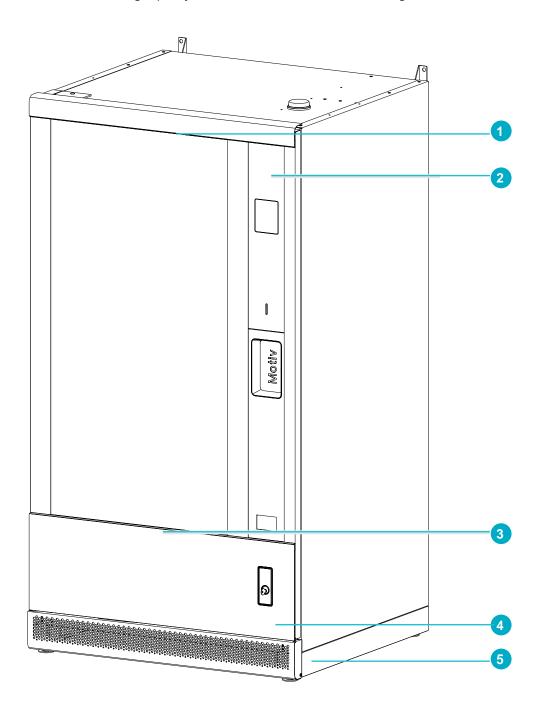


- 1 PC for Touch Display (USB-interface on the back)
- 2 Coin channel
- 3 Eccentric disc for motorised coin return
- 4 Cashbox (removable)

- 5 Coin mechanism, optional
- 6 Control board
- 7 Power supply

2.4 Robimat M SiLine Diamond

The Robimat M SiLine Diamond is high quality and suitable for inclusion in vending machine stations.



- Upper lighting strip
- 2 Glass pane;
- 3 Lower lighting strip
- 4 Stainless steel panel
- 5 Kick plate

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3. Useful information

3.1 Product specifications



CAUTION! Risk of explosion!

Inflammable or explosive goods must not be vended.

- The machine should only be filled with cans, glass and PET bottles.
- A product with dimensions that do not correspond to these requirements may cause malfunctions to occur.
 In addition, suitability also depends on shape and product stability.
 For this reason, please always check that a particular product vends correctly.
- To keep up with market trends and new products, Sielaff continually tests new packaging shapes for their suitability to vend. Please contact our Customer Service Department for assistance.
- Products must comply with the requirements outlined in the following "Specifications" list.

3.2 Specifications

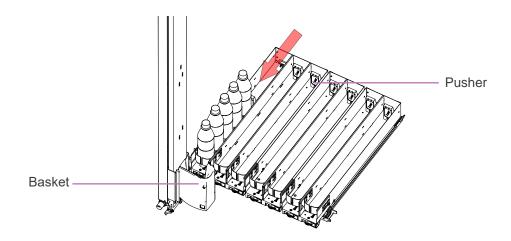
Product (e.g. bottle, can)	Maximum size
Height	max. 270 mm
Diameter	min. 53 mm / max. 72 mm
Weight	max. 700 g standard max. 905 g (shorter service intervals)

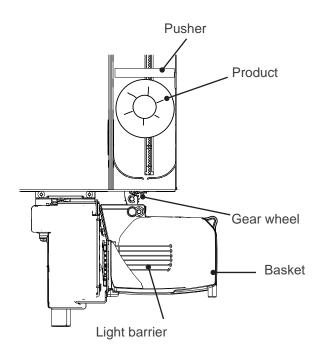
Maximum number of products in the machine

	Robimat L Robimat L Diamond		Robimat M Robimat M Diamond	
Products per Ø 66 mm container	9	9	9	9
Number of shelves in the machine: at a maximum height of 240 mm	5	-	5	-
Number of shelves in the machine: at a maximum height of 115 mm	-	8		8
e.g. standard 0.33 Litre can, Ø 66 mm				
Number of selections per shelf	9	9	7	7
(Container shelf)				
Machine capacity (approx.)	405	648	315	504

3.3 Delivery method

- The products (in this case 5 bottles) are placed by the filler one behind the other in the container.
- In order for a product to be released, the basket must connect with the container.
- Using a gear wheel and toothed belt the pusher behind the products is activated so that it pushes the products forward.
- When the front product falls from the container into the basket, a light barrier is interrupted, which stops the pusher.
- The basket then travels to the delivery unit so that the customer can take the product.





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4. Transportation and Installation



ATTENTION! Risk of damage!

Incorrect transportation can damage the machine.



DANGER! Risk to life!

Incorrect transportation can result in the machine tilting. For this reason the machine must be transported appropriately.

4.1 Transport

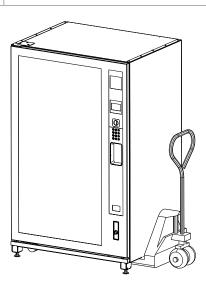
The following safety instructions must be observed during transportation, loading, unloading:

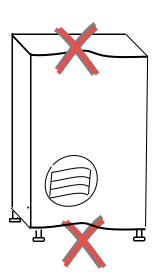
- The machine should only be lifted using a pallet truck or forklift truck. Under no circumstances should the machine be suspended when transported.
- Position the fork arms on the side of the machine and continue to move forwards to increase the area being supported. Remove the kick plates first if possible.
- Always move the machine with care. Ensure that the machine does not slip sideways and lower the machine slowly.
- Observe the machine's centre of gravity. Due to its design the centre of gravity can be high. Risk of tipping over! Do not move the machine on inclined ramps, use stair-walkers.
- The transportation locks prevent the product compartments from unhinging, or the lift system from moving inadvertently. Only remove these when the machine is in position on site.
- Avoid sudden lowering of the machine!



ATTENTION! Risk of damage!

The back of the machine should not be dented, as this causes the compartments to be moved and collision with the basket inside.

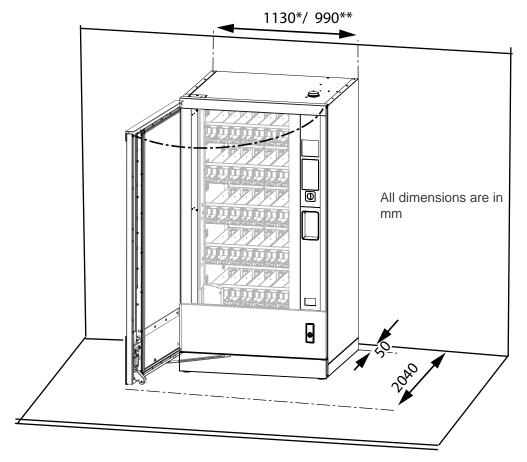




4.2 Choosing the location

When you choose the location for the machine please observe the following:

- The machines are designed for indoor use only. They must not be installed outdoors. Except for special outdoor models.
- The floor must have an adequate load bearing capacity. Note the weight (refer to technical data).
- The machine must not be installed in air containing salt or chlorine, such as in an indoor swimming pool.
- Check that the ambient temperature is in accordance with the climate class of the chiller unit!
- Do not install the machine in places where water hoses or a high-pressure cleaner is used.
- The front window of the machine must not be exposed to direct sunlight. The chiller unit is not designed for this.
- In adverse weather conditions (high humidity, high outdoor temperature) the front panels on the machine may mist up. This is a temporary occurrence and not grounds for complaint.



- * Variant Robimat L
- ** Variant Robimat M

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4.3 Levelling the machine

The vending machine must be levelled, and it is essential that the following requirements are met:

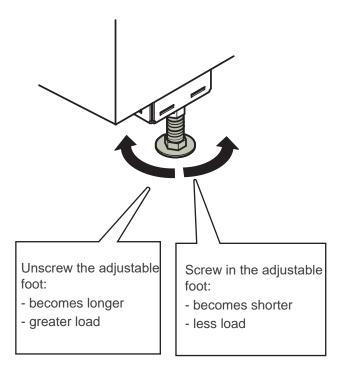
- Horizontal, stable position.
- Correct height adjustment if part of a vending machine station.
- The machine door can be opened and closed without it dragging! When the machine door is closed, the door contact switch is correctly closed by the actuator!

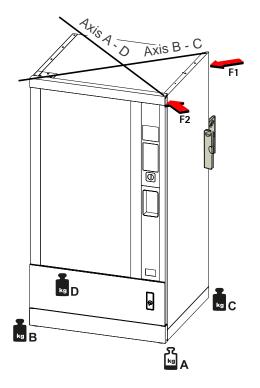
How to proceed

- Place the machine at its desired location.
- Lift the machine if a pallet truck is available. Screw the four feet out evenly. The distance between the floor and the lower edge of the side wall must be approx. 9 cm. Remove the pallet truck.
- Check if the machine rocks over the axis B C when the corner at F2 is pressed down. If it rocks, screw in foot B until it stops.
- Check if the machine rocks over the axis A D when the corner F1 is pressed down. If it rocks, screw in foot A until it stops.
- Place the spirit level on the rear wall and level by adjusting foot A.
- Check if the machine rocks over the axis B C when the corner at F2 is pressed down. If it rocks, screw in foot B until it stops.
- Place the spirit level on the side wall and level by adjusting foot C.

Once the vending machine is installed, it is usual for the door to drag along the floor as it is opened and closed. The weight on **adjustable foot A** just needs to be relieved as **follows**, so that the machine door no longer catches:

- Screw adjustable foot A inwards until the machine rocks over axis B C. Press several times on corner F2
 to check if the machine rocks.
- Press firmly on corner F2 and screw out foot A manually until it is supported
- Make a ½ rotation to foot A using size 24 socket spanner. The machine no longer swings over the corner and the machine door opens and closes smoothly!





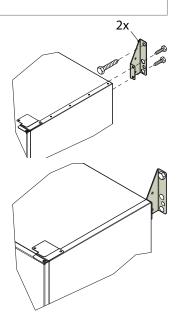
4.4 Wall fixing brackets and spacers



CAUTION! Danger of tipping! Risk to life!

Fix vending machine to the wall or floor:

- The vending machine must be installed at a distance of 50 mm from the wall in order to ensure adequate air circulation. The wall brackets supplied should be used for this purpose, to ensure that this distance is adhered to.
- If it is not possible to secure the machine to the wall, it must be anchored to the floor.
- The wall brackets supplied must be used to fix the machine to the wall.
 They must be fastened to the machine using the screws provided. Use appropriate screws and dowels for the wall.



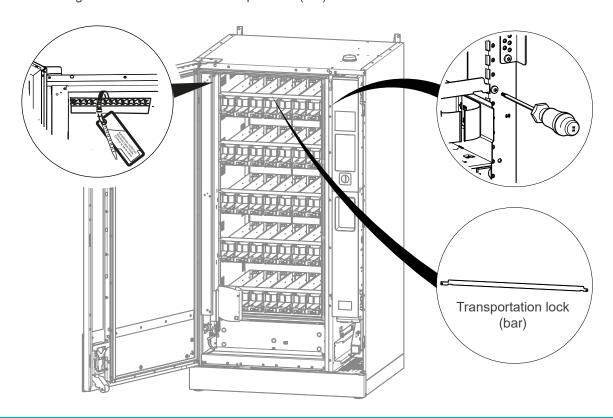
4.5 Removing transportation locks



ATTENTION! Risk of damage!

When the machine is connected, it carries out a reference run. The machine will be damaged if the transportation locks have not been removed.

- Remove the cable tie in the upper left corner. This prevents the lift arm from moving.
- In addition, the product shelves are secured with a transportation safety device. Remove the fixing screw on the right side and remove the transport lock (bar).



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5. Commissioning

5.1 Electric supply

- The machine is delivered ready for connection, with cable and shock-proof plug for a single-phase AC supply of 230 V/50 Hz. It has to be plugged into a properly installed socket with earth connection.
- Do not use extension cables and multiple sockets!
- A permanent installation should only be carried out by a qualified electrician.
- The plug must be easily accessible after installation.

5.2 Attaching the kick plates

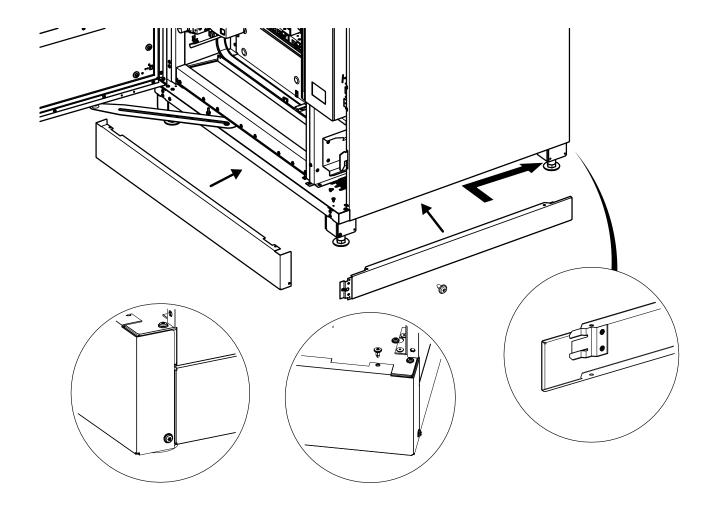
To fit the kick plates proceed as follows:

- 1. Mount the two side kick plates and push them backwards to attach. Insert a screw at the front.
- 2. Fit the front kick plate.
- 3. Open the machine door and screw the front kick plate onto the top of the machine base



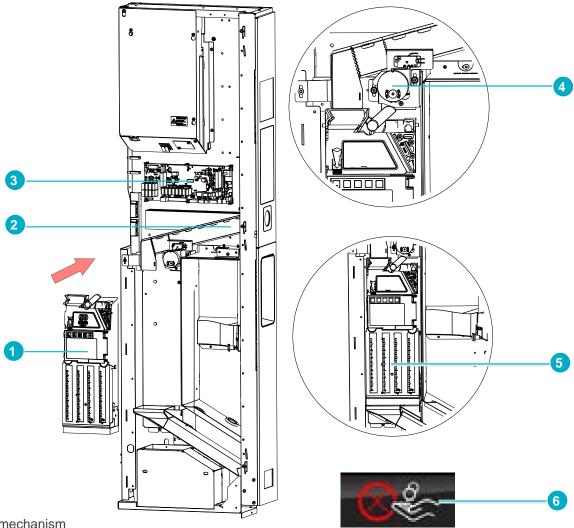
NOTE!

The kick plates can only be fitted if the machine feet are screwed out to a length of at least 4 cm.



5.3 Fitting a coin mechanism (optional)

- The machine is prepared to operate with a coin mechanism (MSG).
- Before fitting, the instructions provided by the coin mechanism manufacturer must be read and understood.
- In accordance with the protocol of the credit system a suitable adapter kit must be ordered. The "BDV"-kit for BDV Protocol has for example part number 310 01 530 00.
- Fit the coin mechanism into the location provided. Connect the electrical cables from the coin mechanism to the control board.
- Set the relevant protocol:
 Tab 5 [Payment systems] [General] [Credit System Protocol]:
 You can choose from [MDB] [BDV] [Executive] [Free Vend]
- Adjust the motorised coin return so that the return lever on the coin mechanism is firmly activated when
 pressing the refund button. When the refund button is activated by the customer, the eccentric disk must
 make a full rotation in order to operate the return lever sufficiently to refund any coins inserted.



- 1 Coin mechanism
- 2 Coin channel
- 3 Control board with MDB-connection
- 4 Eccentric disk
- Coin mechanism mounted
- 6 Refund button

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6. Daily use

6.1 Open and close the machine door

Open the lock and lift the locking mechanism 90°. The vending machine door is now unlocked. The machine door can now be opened by pulling the door lock handle forwards.



RISK OF INJURY!

Be careful when opening the vending machine door! The edges of the locking mechanism can be sharp.

6.2 Using the service key

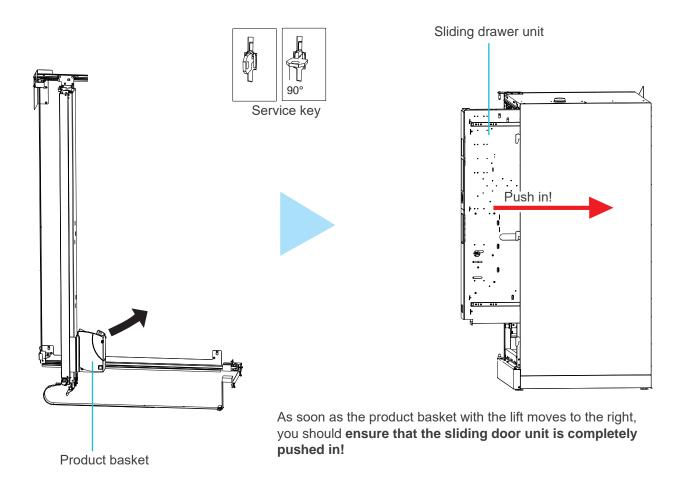


(only service engineers, operators)

- 1. Open the machine door, do not pull out the sliding drawer unit.
- 2. Insert the service key into the door contact switch and turn it clockwise by 90°. Release the service key.
- 3. A few seconds later a check routine will start, during which the illumination is switched on and a reference run carried out. For this reason the sliding unit must remain inside the machine until the reference run is completed!

The reference run is completed when the product basket has returned to home position, bottom left. The chiller unit compressor can be heard starting up (when the chiller is switched on).

4. Never leave the service key in the machine. Do not forget to remove the service key before the machine door is closed.



6.3 Product container

How the product container works

The products are placed one behind the other in each container. When a bottle is to be dispensed from a container, the respective gear wheel at the front of the container must be activated.

The pusher is moved via a toothed belt. This guides all bottles in the container forward until the front bottle has pushed the two retaining springs aside to allow it to fall into the basket. The light barrier is activated. The basket with the bottle inside is then moved to delivery position.



NOTE!

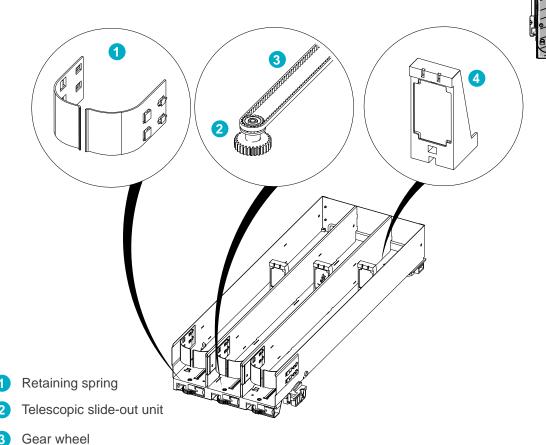
Due to the weight of the bottles and their frictional resistance, the base of the product container should not be soiled with any residue. Therefore, make sure that the surface of the product container is clean at all times! See shaded area in the picture.

Retaining spring

Pusher

The retaining spring has important functions and must not be removed.

- Retaining:
 The first bottle is prevented from tipping over the edge.
- Accelerating/ Flipping
 After the bottle has bent the springs completely open, it is moved by the flicking of the springs. The bottle will be safely transported into the basket.
- Limit stop during filling
 When the bottles are loaded, the first bottle is restrained from tipping.
 Be careful when the product container is tilted! Always support the springs by hand and push back the product container.



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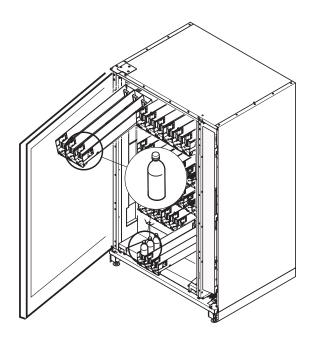
6.4 Pulling the product container out and pushing it back

Lift the product container slightly at the front edge and pull it out until it stops. When it is completely pulled forward, the mechanism should lock. It can now be filled with products.



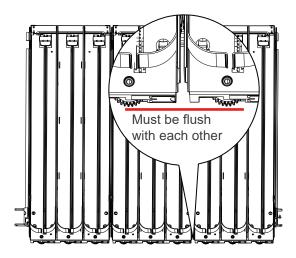
CAUTION! Risk of damage!

Only pull out, fill and push back one product container at a time.



Pushing back the product container

The product container is simply pushed into the vending machine. It clicks into its final position. Check if it has properly clicked into place by pulling it.



6.5 Filling the product containers



NOTE

The machine may only be filled by trained personnel.

Products can fall out of the product containers during the filling process. For this reason please handle carefully and always hold the front product securely.

The service key must not be inserted whilst the machine is being filled.

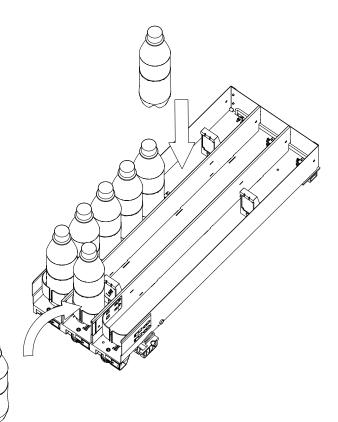
- To fill, pull out the product container to its stop position. The upper-most product container can be tilted.
- There are several product container per shelf. Always pull out, fill and replace only one product container at any one time.
- Always pull out the product containers slowly to their stop position. This is to avoid products tilting and falling out.
- If a product container is empty, push the product pusher right to the back by hand. Press only against the lower part of the product pusher.
- Fill the products loosely. Products must not be compacted.
- In order to avoid products falling out of the product container while it is in a tilt position, hold the front product with one hand and fill with the other hand.
- When filling is complete push the product container slowly backwards until you hear it click into place.
- The product container is in correct vend position when it rests against the rear wall and is flush with the other product compartments at the front.

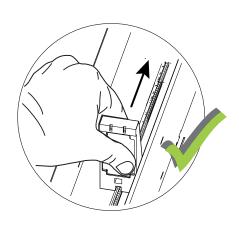


ATTENTION!

It is important that you ONLY press the bottom of the pusher when you push it back so as to avoid tilting and breaking.

If the pusher is handled properly, it can be moved backwards by exerting minimum pressure.







Cleaning and maintenance

7.1 Cleaning list

In addition to the standard cleaning procedures maintenance work should also be carried out on the machine. An overview of the maintenance work to be carried out is to be found in the maintenance plan in your machine's technical manual. This can be downloaded from the customer-only area on the Sielaff Homepage.

Part	Action	Frequency	Resources
External surfaces, delivery unit shutter	clean	if necessary	Detergent, cloth
Product basket	check and clean	if necessary	detergent, cloth, dishwasher
Lint-filter (important)	check and clean	if necessary	compressed air, brush
Containers, container floor (important)	check and clean	if necessary	Detergent, cloth
Vending machine floor	clean	if necessary	Detergent, cloth

7.2 External surfaces

Clean the outer surfaces and the delivery compartment regularly with a mild cleaning agent.

Always use the correct cleaning agent for the respective surface. These surfaces can be made from glass, plastic, painted metal or stainless steel.

Stainless steel

Clean and maintain stainless steel surfaces using a lightly damp cleaning cloth and special stainless steel cleaner. Cleaning cloths and stainless steel cleaner are available from our Customer Service Department.

In order to avoid damaging the effect, for machine fronts made from polished stainless steel never wipe across the polished direction.

The stainless steel cleaning cloths are chargeable and can be ordered under part no. 998 00 119 52.

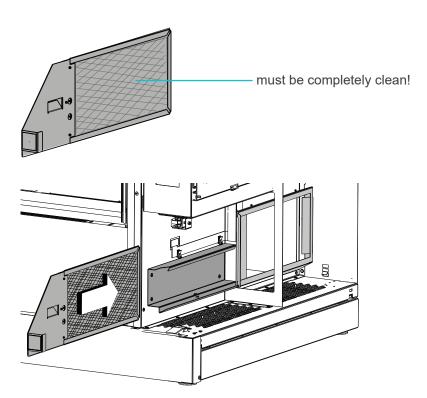
7.3 Menu-guided cleaning

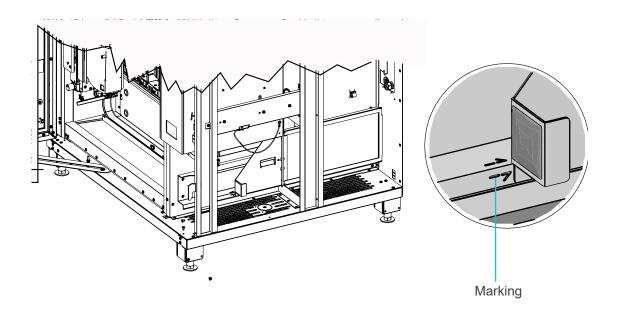
Access the cleaning steps on the display and follow the cleaning and maintenance instructions.

Tab 1 [Start menü] - Menu [Full clean]

7.4 Lint filter

- Open the machine door
- The lint filter is located bottom right underneath the sliding drawer unit. Using the hand grip pull the lint filter out of its holder.
- Clean the lint filter with a brush, compressed air or vacuum cleaner. The lint filter should not be blocked as this can damage the chiller unit.
- Push the lint filter right back into its holder (see marker)).





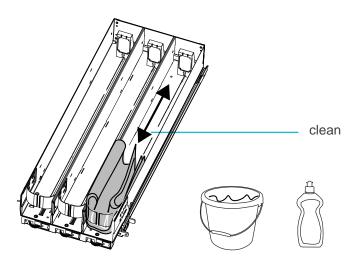
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7.5 Cleaning the product containers

Dirty bottles or cans may lead to soiled (sticky dirt or glue residues) product compartment floors. This means that more effort is required to transport the products. It might also cause motor failure.

Make sure that the surface area of the product containers is free from dirt and residue.

Clean the surfaces with a lint-free, damp cloth and hot water with commercially available detergent. Then wipe the product containers dry.



7.6 Removing and cleaning the basket

The product basket can be removed for cleaning.

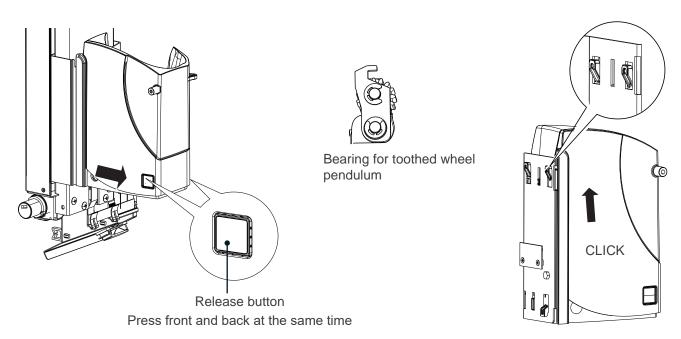
Press both release buttons and pull the basket slightly to the right. Then push it up slightly, so that it hangs out.

Clean the basket by hand using detergent or in a dishwasher at 65°C max.

Installing the basket

Swivel the bearing for toothed wheel pendulum outwards. Place the basket at a slight angle (approx. 10°) . Push the basket to the left, so that the hooks snap correctly into the slot.

Finally, swing the basket back in and push it upwards so that the unlocking buttons can be heard clicking into place ("click"). Malfunctions will occur if the product basket has not clipped in correctly.



8. Software and menu structure

8.1 Touchscreen

The machine is fitted with a touchscreen. The machine is easy to operate using a touchscreen with contextual display and menu navigation. Just touch the screen to select a product.

8.2 Slideshow

If the machine is not used for a certain time, the display changes to slideshow. When the screen is touched, the machine reverts to vend mode.

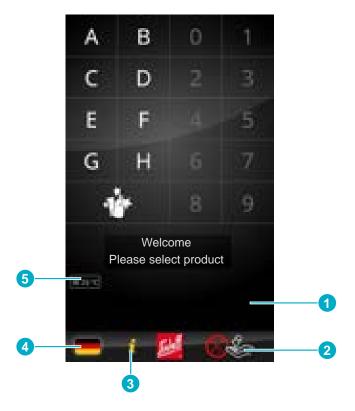
The pictures in the display can be easily stored using a USB-stick in the menu [Machine configuration] - [Multimedia].







8.3 Vend mode



- 1 The actual credit is displayed.

 If a card system is installed the card credit is displayed.
 - If there is no credit, after entering the product number the price is displayed.
- 2 This symbol represents the refund button for coins.
- 3 Product ingredients are displayed if they have been previously downloaded.
- 4 The vend mode language can be temporarily changed for one vend. Once the vend is complete, the screen reverts to the operating language programmed.
- Optional: The temperature of the machine internal cabinet is displayed.

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8.4 Accessing the menu

After opening the machine door, the screen automatically goes into the Start menu. The tabs for the main menus are located the top in the navigation bar.

	Tab 1 [Start menü]
≈	Tab 2 [Statistics/Data]
7	Tab 3 [Cleaning]
Ů	Tab 4 [Products]
	Tab 5 [Payment systems]
Q ₂	Tab 6 [Machine configuration]

8.5 Tab 1 [Start menü]

The filler in daily contact with the machine should have access to the most important sub-menus. These are Cleaning, Test Vending and Filling with Change.

In the [Diagnosis] menu the filler can find important information relating to the chiller unit.



- 1 Tab 1 [Start menü] coloured background; i.e. menu selected
- Main menus
- 3 Role: Here is displayed which role you have logged on with, e.g. engineer, filler or operator.

 If nothing is displayed, you have unlimited rights
- 4 Quick access: Starting from the Start menu you can go directly to selected menu items e.g. [Full clean]
- 5 Status: The machine status is displayed. If there are any warnings or errors, the background charges to yellow(Warning machine remains in use) or red (Error machine is out of operation)
- 6 [Ecomode]: Illumination and chiller unit shut down outside usual vend times in order to save energy
- At a glance: Information regarding sales and service counter are displayed here
- 8 Exit: Changes from the menu into vend mode (only possible if service key is inserted)
- [Login]/[Logout] Shows who has logged in and out in the service menu

Start menu		
[Full clean]		See chapter "8.7.2 Menu [Full clean]" on page 32
[Test vend]		See chapter "8.8 Tab 4 [Products]" on page 33
[Diagnosis]	₹.	Only for service engineers! The menu has an informal nature and assists with fault finding
[Statistics download]		Only shown if a USB-stick is inserted into the USB-interface
[Fill change]		See chapter "8.9.2 [Coin mechanism]" on page 38

8.5.1 Login/ Logout/ Rights and Profile

The machine operator has the possibility to enter some names and to allocate specific roles.

When allocating a role (filler, operator, engineer) it is essential to allocate specific rights to specific persons (e.g. full clean, downloading statistics, filling with change).

There are the following roles

- Filler
- Operator
- Engineer

How is login status recognised?

- 1. Under the symbol in the Start menu the name is shown (e.g.. *Engineer*). If no name is shown you have all the rights ("Administrator").
- 2. Individual main menus cannot be selected because they are greyed-out.



3. The login button bottom right is as shown below:



You are not logged in

4. To log out you must press the following button:



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8.6 Tab 2 [Statistics/Data]





The menu requires that you as filler or operator record and evaluate the sales.

8.6.1 [Summary]

In this menu all sales, test vends and free vends made, together with values can be seen.

The statistics are split into [Short statistics] and [Full statistics].

- The [Short statistics] totals up all vends since they were last deleted
- The [Full statistics] totals up all vends since the machine was installed and commissioned. [Short statistics] can be deleted, [Full statistics] cannot.

8.6.2 [Number of vends]

The number of vends refers to the number of sales in the short statistics.

All selections with the number of [Vends] made and the [Value], since the last deletion, are listed in the short statistics

If you touch a selection, additional lines appear. Example:

[Full vends] + [Free vends] + [Test vends] = [Value]

8.6.3 [Total vends]

The number of total vends refers to the number of sales in the full statistics.

All selections with the number of vends made since the machine was commissioned, are listed.

8.6.4 [Journal]

All the machine's activities are stored in the journal. The purpose of the journal is to provide information.

- The information stored is for the use of service engineers. When fault finding he can extract ideas from this.
- Activities may be vends, errors, warning messages, software updates, login-processes or similar.
- Every action is given a number, date and time, code as well as stored text relating to the intervention.
- There is also a search function [Journal] so that a specific action can be found quicker.
 If required a keypad can be displayed. Enter the search text using the keypad display. By entering a letter or number the search is updated.
- The journal can be deleted.

8.6.5 [Data transfer]

In this menu, statistics and journals such as HMI data can be written to an external data medium. These can then be evaluated on a PC. This menu also makes it possible to update the HMI and control board software as well as being able to load a configuration. For all functions a USB-stick must be inserted to HMI. If this is not the case, no functions can be selected.

[Transferring statistics to the USB-stick (with Reset)]

The short and full statistics are written on a plugged-in USB-stick. After the transfer the short statistics are deleted.

[Transferring statistics to the USB-stick (without Reset)]

The short and full statistics are transferred onto a USB-stick. After the transfer the short statistics are not deleted.

[Loading Journal onto the USB-stick]

The Journal is transferred onto a USB-stick. After the transfer the Journal is not deleted.

[Loading Configuration onto the USB-stick]

The complete configuration is transferred to a USB-stick.

[Loading Log onto the USB-stick]

The complete Log data is transferred to a USB-stick.

[Read configuration from USB stick]

The complete configuration is read from a USB-stick and written to the machine control board.

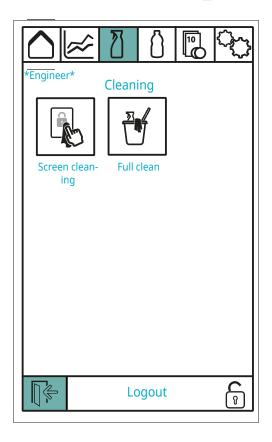
8.6.6 [Cashing-up]

The cashing up process gives the control board the command to delete the short term statistics. Only when the next coin is inserted are the short statistics deleted.

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Tab 3 [Cleaning] 8.7





This menu is required to clean the machine.

- Screen cleaning
- Machine full clean

8.7.1 Menu [Screen cleaning]

You should select this menu to clean the sensitive glass surface. For this purpose a 15 second timer is displayed and during this time the screen does not respond to touch.

8.7.2 Menu [Full clean]

"Step by step" instructions in the display advise you which components are to be cleaned. The buttons [skip], [abort] and [forward] are self-explanatory.

Please note that regular checking and cleaning of the lint filter is essential for the machine operation. A blocked filter causes high energy consumption and damages the chiller unit.





This menu is required essentially if the machine is to be refurbished.

Important key words

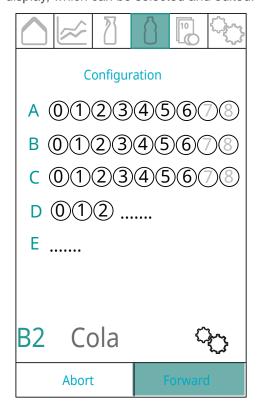
- Specify prices
- Specify price lines
- Carry out trial vend
- Set number of shelves in the machine
- Calibrate the lift
- Programme age verification

8.8.1 Menu [Configuration]

After entering the menu the overview of all the products to be programmed appears.

There is a matrix with 8 container shelves (A-H) each holding 9 products (0-8).

Depending on the type of machine and configuration, programmable products appear in white numbers in the display, which can be selected and edited.



Single selection i.e. select a container

→ touch with the finger



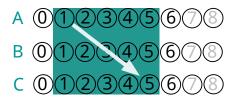
Multiple selection:

→ touch with the finger



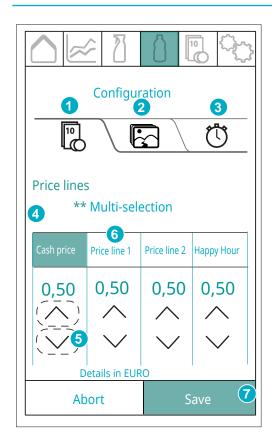
Multiple selection:

→ drag the pointer diagonally



Highlighted in green in the display: selected
Highlighted in black in the display: not selected

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- 1 Price lines tab
- 2 Product picture tab
- 3 Activation times tab
- 4 Both stars ** are place holders for the selection. If a product name is entered, then instead of [Multi selection] e.g. "Cola" appears.
- 5 Then touch the required line (e.g. cash price) so that this is highlighted in green. Immediately underneath the set price is displayed, which can be edited using the arrow higher/lower.
- 6 Cash price, both price lines and happy hour price can be entered here.
- 7 To finish press [Save].

Price lines	Selection B2	
B2		
Price lines	Container shelf A complete	
A*		
Price lines	Column container left	
*0	(complete)	

Price lines tab

Cash price, price line 1 and 2 and happy hour price have been put together under this tab.

Product picture tab

A product picture can be assigned to every product. This picture is then displayed on the screen when a product is being vended. Product pictures can be transferred from a USB-stock to the machine using the menu [Machine configuration] - [Multi media] - [Product pictures].

In order to assign a product picture to your selection, you must touch the preview image followed by [Save].

Activation times tab

Age verification (from 16 to 18 years), free vend, use of happy hour function or simply disabling the selection displayed is activated here.

Every enabled function activates a row of weekday symbols from Monday to Sunday. On the right is a key showing the switch status.

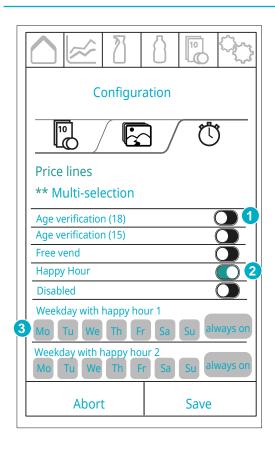


NOTE

Individual selections placed behind the [multi-selection] are not displayed.

- A* means that the whole of line A is selected
- *2 means that the whole of column 2 is selected

Therefore work systematically, so that you assign the most frequently-occurring prices first. Once you have programmed the first machine in full, you can simply download the configuration onto a USB-stick and transfer the information to other machines.



- Age verification at 18 years is switched off
- Happy hour function is on
- Weekdays are represented using symbols (only for visualisation)

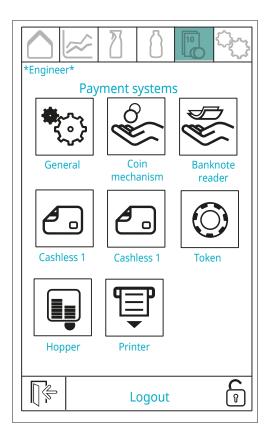
8.8.2 Example: Programming prices

(Assign product picture and activation times)

- 1. Make a selection: a container, shelf or a multi-selection
- 2. The price line tab is already open.
 Using the arrow move the cash price up/down, e.g. 0.50 Euros
- 3. Select a picture from the product picture tab . Select [Save]
- 4. Select activation times tab (1):
- - Age verification 16 on/off
 - Age verification 18 on/off
 - Free vend on/off
 - Happy Hour on/off
 - Disabled on/off
- 5. To finish press [Save]. Your settings have been saved.

8.9 Tab 5 [Payment systems]

The menu Tab 5 (payment system) is assigned to coin mechanism and bank note reader as well as contact-based and contactless cashless systems



The following sub-menus are found here:

- [General]
- [Coin mechanism]
- [Banknote reader]
- [Cashless1], [Cashless2]
- [Token]
- [Hopper]
- [Printer]

8.9.1 [General]

In this menu are the most important functions for installing a coin mechanism. Select sub-menu [Credit system protocol] in order to select a communication protocol [MDB], BDV], [Executive] or [Free vend].

[Display no change]]	The [NO CHANGE] indicator is inhibited. This setting is necessary if it is not possible to give change		
[Happy Hour]	The [Happy Hour] is a price list. If you want to sell products cheaper at specific times, you must switch on [Happy Hour].		
[Price list 1]	Select here if you want to assign [price list 1]		
[Price list 2]	Select here if you want to assign [price list 2]		
[Credit system protocol]	Here you need to select the required protocol between your credit system and machine control board. [Free vend] [BDV] [Executive] [BDV dual] [MDB] - [MDB+EXEC] [MDB+BDV]		

[Currency]	Here you can select the currency to be displayed. The currency on the MDB-equipment must agree with the currency on the machine. If not, the MDB-equipment will be rejected. Using the option [ignore currency] the MDB-equipment can be tolerated with a	
	different currency.	
[Ignore currency]	The currency on the MDB-equipment is tolerated, even if this does not agree with the currency on the machine.	
[Compulsory vend]	If activated and the credit is greater or the same as the minimum product price, the remaining money will only be returned after a vend, or depending on the configuration, after a delivery error.	
	In practice, once a coin has been inserted, at least one product must be bought before coins are returned. Misusing the machine as a coin changer is inhibited.	
[Compulsory purchase Refund Empty selection]	If active, after an empty selection the option [compulsory purchase] is cancelled	
[Compulsory purchase Refund Timeout]	If active, after [Credit timeout] the option [compulsory purchase] is cancelled Any remaining money will automatically be refunded after a certain time.	
[Maximum acceptance]	Here the maximum amount is set which is to be accepted. If the amount set is reached, the acceptance of any more cash is inhibited.	
[Max. refund]	If the credit is greater than MaxCredit, a refund is inhibited. If AutoConfig is active and MaxRefund 0, MaxRefund is set to the sum of MaxCredit and to the maximum amount (largest coin accepted)*2) and (largest note accepted).	
[Multivend]	Multi-vends are possible if sufficient credit is available.	
[PRESEL. TIME]	Time after product selection to insert money and in the case of age verification, to prove age.	
[Abort]	Enables you to move a level backwards without saving	
[Save]	If you have made any changes in this menu you must exit the menu with [Save].	

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8.9.2 [Coin mechanism]

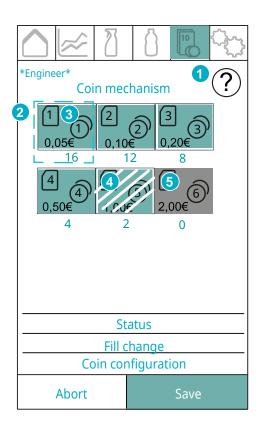
If a coin mechanism is mounted and connected, here is where you can fill with change, enquire about the status and configure the coin mechanism.

You should also refer to the coin mechanism operating instructions.

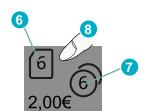
The [coin mechanism] menu is divided into:

- [Status]
- [Fill change]
- [Coin configuration]

Select [Status] if you require specific information. [Fill change] is if you want to fill with coins. [Coin configuration] is for programming special settings relating to payment mode.



- 1 If you touch the question mark, help is given regarding blocking and accepting coins.
- 2 Tube layout icon
- 3 Green background: Accept coin
- 4 Hatched green: Coin disabled, if no change is available
- 5 Black background: Coin disabled, i.e.not accepted
- 6 Symbol for tube collecting coins (i.e. the 1 EUR coin is collected in one tube)
- Cashbox coin: i.e. the two Euro coin is collected in the cashbox.
- 8 Touch the field: green - hatched - black background - green - etc.



Example of coin mechanism with EUR configuration

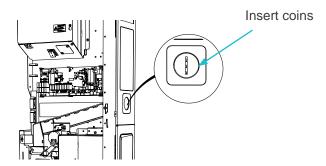
Tube	No. in display	Value
А	1	0.05 EUR
В	2	0.10 EUR
С	3	0.20 EUR
D	4	0.50 EUR
E	5	1.00 EUR
F	6	2.00 EUR

8.9.2.1. [Fill change]

On first-time filling several coins should be inserted into each coin tube (safety coins, sleeping coins). The number of remaining coins depends on the coin mechanism used and it varies generally in everyday use.

Select the menu [Fill change] and insert coins into the coin slot on the front of the machine. The display shows the number of coins inserted, which are registered by the coin mechanism.

Once the coin mechanism has registered the minimum number of coins, the coin mechanism notifies the control board that it is ready for use.



If there is insufficient change, the following appears in the display in vend mode: [No change]

As a rule not all coins are dispensed. The safety coins (sleeping coins) remain in the coin mechanism.

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8.9.2.2. [Coin configuration]

There are 3 tabs in this menu

- Coin configuration tab
- [actual value] tab
- [Set value] tab

Coin configuration tab 🐃



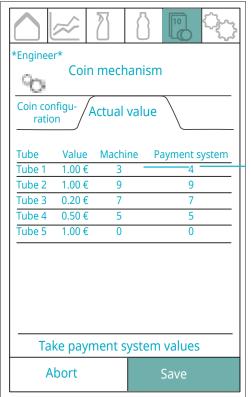
[Alternative payout]	Activates secure payout mode with confirmation of coins paid out, as long as the coin mechanism supports this function. The denomination is determined by the coin mechanism.
[Accepting coins for loading credit]	If active, coins are only accepted if a card is available for loading credit and the coins are generally active.
[No change: however acceptance for loading credit]	If active and no change is available, the coin with no. X is accepted, if the coin is generally active and its value can be credited. Coin numbering results from the sequence of coins reported to the MDB. (X=116)
[Coin mechanism active]	If a coin mechanism is in use, [one] must be selected
[No change: however acceptance for loading credit, if refundable]	If active and no change is available, the coin with no. X is accepted, if the coin is generally active and its value can be refunded. Coin numbering results from the sequence of coins reported to the MDB. (X=116)

[Actual value] tab

Here is an overview of the number of coins in the various tubes, identified by the coin mechanism and machine control board.

It is normal for there to be differences between the [Machine] and [Payment system] because the coin mechanism does not work with absolute measuring methods. The measuring system may be a light barrier or ultra-sound with a deviation of up to three coins.

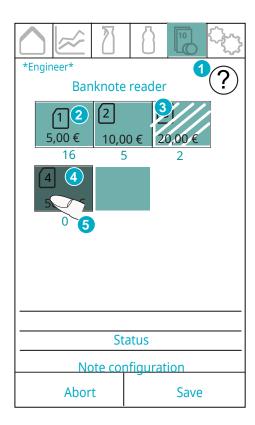
If you press the [Payment system value] button the values are taken and adjusted accordingly.



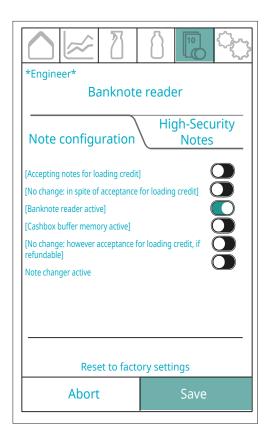
Difference

8.9.3 [Banknote reader]

If you want to use a bank note reader, you must programme the settings in this menu.



- 1 If you touch the question mark, help is given regarding blocking and accepting banknotes..
- 2 Green background: Accept note
- 3 Hatched green: Note disabled, if no change is available
- 4 Black background: not accepted
- Touch the field: green - hatched - black background - green - etc.



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[Note configuration]

[Accepting notes only for loading credit]	If active, notes are only accepted if a card is available for loading credit and the notes are generally active.	
[No change: however acceptance for loading credit]	If active and no change is available, the note with no. X is accepted, if the note is generally active and its value can be credited.	
[Banknote reader active]	If an MDB coin mechanism is in use, [one] must be selected	
[Cashbox buffer memory active]	The note from the cashbox buffer memory can either be accepted or refunded.	
[No change: however acceptance for loading credit, if refundable]	If active and no change is available, the note with no. X is accepted, if the note is generally active and its value can be refunded.	
[Note changer active]	If an MDB note accepter is in use, [one] must be selected	

[High-Security-notes]

[High-Security-note 1]	In the case of high security being activated the note X is only accepted if it has a high compliance with the note features specified.
[High-Security-note2] [High-Security-note3] [High-Security-note4]	as previous
[Abort]	Enables you to move a level backwards without saving
[Save]	If you have made any changes in this menu you must exit the menu with [Save].

8.9.4 Cashless 1/ Cashless 2



A quarter of manufacturers offer cashless payment systems.

On the machine the first payment system [Cashless 1] and the second payment system [Cashless 2] are differentiated. Here is the option to set the following:

[Age verification protocol]	Here the function can be enabled and disabled.	
[Conversion factor]	Conversion factor for monetary values: All monetary values from and to the card are converted using this factor.	
[Credit loading inhibited]	If active, credit loading to card is inhibited. If crediting is permitted, this can only be done automatically if mixed payment with cash is inhibited.	
[Display]	Messages from the card system are displayed on the machine. default [off]	
[Activate always idle]	Activate, if supported, the always idle function. In this way e.g. a vend enquiry can be started without using a card.	
[Activate data entry]	no function	
[Activate expanded currency]	Activate, if supported, the expanded currency function.	
[Activate FTL]	FTL stands for File Transfer Layer Activate, if supported, the FTL function for data exchange between MDB-equipment and/or machine control board	
[Activate negative vend]	This function has no significance.	
[MDB Level]	MDB Level: Level of MDB communication specified with the card system. The card system responds likewise with a level and the smaller of both is the basis for further communication.	
[Acceptance mode]	For voucher acceptance the card system must provide secure card credit, which is then treated like a value token. If necessary mixed payment must be permitted	
[Mixed payment cash inhibited]	Inhibit mixed cash payment: If active, mixed payment from card system 1 is not permitted with cash	
[Mixed payment cashless inhibited]	Inhibit mixed payment with other card system: If active, mixed payment from card system 1 is not permitted with another card system.	
[Price list Happy Hour]	Activate Happy Hour price list: If activated, the vend price during Happy Hour is determined by the Happy Hour price list. If not, the standard price list applies.	
[Mixed payment price list]	Activate standard price list for mixed payment: If activated, for mixed payment the standard price list will apply. If not, the cash price list will apply the Happy Hour price list, if active and activated.	

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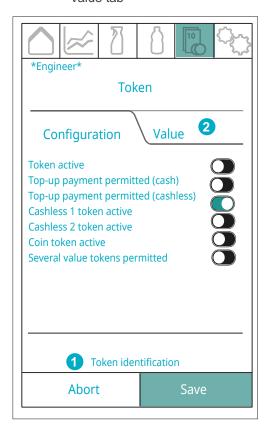
[Standard price list]	[Cash], [List 1], [List 2], [Medium) Specify the standard price list for the card system. The [Medium] option as standard price list permits the card system to determine the price list. If this is not active, the cash price list will apply.
[Delete credit after refund error]	Refund card system charge back error Some card systems are not able to refund an already debited sales price after an empty selection/vend error. If permitted, the cash credit is increased by the vend price.
[Vend request timeout]	Respond time for the credit card system to sales enquiry: This takes the maximum from the Application Maximum Response time of the card system and the response time.

8.10 Token

If you want to use a token, you must programme the settings in this menu.

There are 2 tabs in this menu

- Configuration tab
- Value tab



- 1 Using the [Token identification] tab you can insert the token and the coin mechanism analyses and parameterises the token. This ensures that only this type of token is accepted.
- 2 Assign the value to the token

[Token active]	If activated, bill tokens are permitted Otherwise these are inhibited even if they are activated in note acceptance.	
[Top-up payment permitted (cash)]	The token can be used in conjunction with cash	
[Top-up payment permitted (cashless)]	The token can be used in conjunction with a card system. The option mixed payment with cash must be permitted. See sec. "8.9.4 Cashless 1/ Cashless 2" on page 43	
[Cashless 1 token active]	If activated, a vend token from card system 1 is permitted. Otherwise the sale will not be authorised for registered vend tokens and recorded as an error on the card.	
[Cashless 2 token active]	If activated, a vend token from the card system is permitted. Otherwise the sale will not be authorised for registered vend tokens and recorded as an error on the card.	
[Coin token active]	If activated, coin tokens are permitted Otherwise these are inhibited even if they are activated in note acceptance.	
[Several value tokens permitted]	Several value tokens permitted	

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Tab 6 [Machine configuration] (8.11



8.11.1 [Service functions]

- In this menu all important machine parameters are displayed. All machine components can be activated directly. This menu provides support for locating errors and machine maintenance. Service work can only be carried out if the machine door is open and the service key inserted into the door contact switch.
- Service numbers are divided into function categories, M, double M, and L.
- M functions are used for testing the control board outputs which communicate with a motor or similar actu-

The L-functions can be used to read out machine data.



DANGER!

Moving parts in the machine. When carrying out service functions, always keep hands clear of the machine!

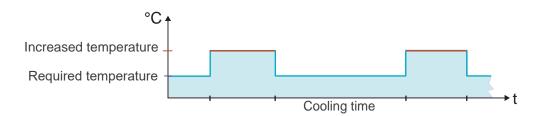
[Service codes]	In this sub-menu, service functions can be entered directly. Enter the service number followed by (L,M or double-M). To initiate the service function touch [OK] The service function can then be carried out if the control board recognises the service function.
[Payment system]	Only service functions with number and description referring to the payment system are displayed.
[Control board]	Only service functions with number and description referring to the control board are displayed.
[Data base]	Only service functions with number and description referring to the database are displayed.

8.11.2 [Date & Time]:

[Date & Time]:	Enter the system date and time using the arrow keys. The date must be entered in the format DD-MM-YYYY.
	entered in the format DD-MM-1111.

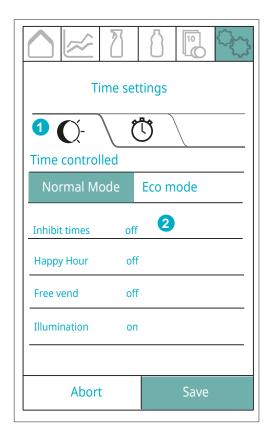
8.11.3 [Chiller unit]

[Mode]	off: the chiller unit is permanently switched off on: the chiller unit is permanently switched on time controlled: you can set the time the chiller is switched on
[Required temperature]	The required temperature is the temperature inside the machine.
[Increased temperature standby]	Increased temperature indicates what temperature is held outside the cooling time.
[Active days]	only when set [time controlled] Activate or deactivate the days when the machine should chill to the required temperature. Activated days have a turquoise background. Enter the time period during which the set temperature should be held.
[Start time]	only when set [time controlled] See [Active days]
[Stop time]	only when set [time controlled] See [Active days]



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8.11.4 [Time settings]



- Time control tab
- 2 Switch the [inhibit times] [on] and [off] here

8.11.4.1. Time control setting ()

In the [Normal Mode] menu you can switch the following functions on and off:

- [Use locking]
- [Happy Hour]
- [Free vend]
- [Illumination]

8.11.4.2. Date/Time tab (1)

Using the up/down arrow you can set the actual time and date. After making the entries, select [Save].

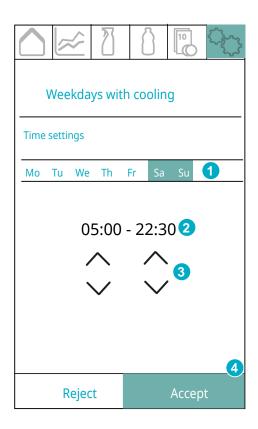
8.11.4.3. Time zone tab

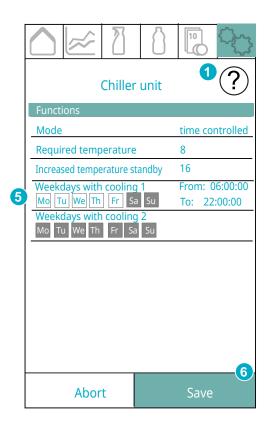
Select the required time zone for the location.

8.11.5 [Chiller unit] **A**

Here you are able to operate the time control for the chiller unit on and off.

If you select [time controlled], you must first of all touch the line [weekday with chiller 1].



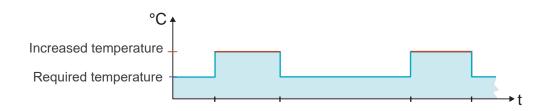


- 1 Select the days from the line showing the days of the week, which are to be timed.
 - green background weekday selected
 - black background weekday not selected

This is where you specify when the chiller unit is to be switched on. Outside these times the increased temperature applies.

- 2 Time interval: from ... to
- 3 The time is set by using the up/down arrows.
- To finish press [Save].
- In this line the setting is understood as follows:

 The chiller unit is switched on from Monday to Friday from 6 to 23 hours with a set temperature of 8°C Outside these times the chiller unit will have a higher temperature of 16°C.
- 6 To finish press [Save].



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8.11.6 [General] *



Here you will find general information relating to the machine and how to set the illumination.

[General settings] Tab (General)	
[Machine number]	The operator can assign a machine number here.
[Serial number]	The [serial number] is allocated at the factory.
[Machine configuration]	Retain factory settings
[Machine variants]	Retain factory settings
[Max. no. of hours before the next clean must be carried out]	Here the counter goes backwards to zero You will then be advised that the machine requires cleaning.
[Service telephone number]	Programme a telephone number in here to be displayed when there is a fault.
[Service telephone number 2]	Programme a second telephone number here to be displayed when there is fault (usually data processing centre)
[Temperature display]	Temperature indicator in display (visible to the customer)
[Time out removal time]	Time in seconds between opening and re-closing of the product delivery pocket (Product removal time)

[General settings] tab [Display/Lighting strips]				
[Illumination]	LED lighting strips outside (optional) Here the function can be enabled and disabled.			
[Colour change]	Colour changing feature chosen for the lighting strips: continuous or static			
[Colour changing interval]	Select the interval in seconds			
[Display brightness]	Select the display brightness			
[Number of colour changes]	Choose the number of colours.			
[Colour 1], [Colour 2] [Colour 5]	On the colour gradient, set the desired colour in the display.			

8.11.7 [Version information]

This menu contains all types of information.

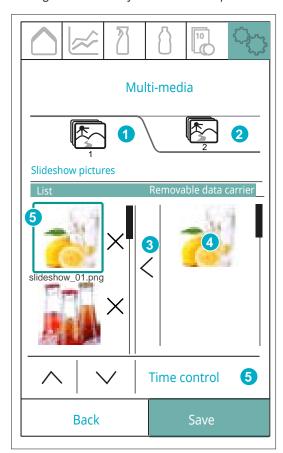
[Machine type]	o a CE stands for Class Front (-Pohimat)
[Machine type]	e.g. GF stands for Glass Front (=Robimat)
[Serial number]	e.g. SIEO
[Machine variants]	e. g. 77777700
[HMI Hardware]	e.g. armv71
[HMI Kernel]	e.g. 3 .10.17_hmi-siline_1.1.0
[HMI Software version]	Software revision number
[VMI Variant]	e.g. HAEs
[VMI Version]	e.g. H331
[VMI Serial number]	e. g. 123456789

8.11.8 [Multi-media]

This menu is required for loading [Slideshow pictures] and [product pictures].

If you insert a USB-stick into the USB-port, the contents appear in the right hand side selection window under [Removable storage device].

Using the arrow key "on the left" a picture can be copied into the left selection window [list].



- 1 The [Slide show pictures] from the [removable storage device] are assigned in the [list]
- 2 The [Product pictures] from the [removable storage device] are assigned in the [list].
- 3 Arrow key to the left = to assign
- Copy the pictures from left to right
- 5 If you select [Time Control], you can set [Slideshow timer], [Time Control], [Time] and [Fade effect] in the next screen.
- 6 The active frame is green:: X = Delete picture; Arrow up/down = scroll



NOTE!

The pictures must be saved on the USB-stick under /hmi/media/.

Supported picture formats: jpg and png Size of slideshow pictures: 480 x 480 pixel Size of product pictures: 480 x 480 pixel

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8.11.9 [Network settings]

If you access [Network settings] two network addresses are shown:

- eth0 192.168.xxx.xxx (cannot be edited, no significance for the customer)
- eth1 192.168.xxx.xxx

Select [eth1] and then [Forward].

You can edit the following [Network settings]:

- IP-Address
- Broadcast-Address
- Gateway-Address
- Network mask

8.11.10 [Set languages]



There are three tabs here for setting the languages:

Tab [Customer menu]

The operating language for vend mode is set in the [Customer menu]. This is symbolised by the flags in the display at the top. Underneath additional languages can be selected.

When selecting another language you must press [Save] and [Accept].

Tab [Service menu]

The operating language for the operator or service engineer is set in the [Service menu].

This is symbolised by the flags in the display at the top. Underneath additional languages can be selected.

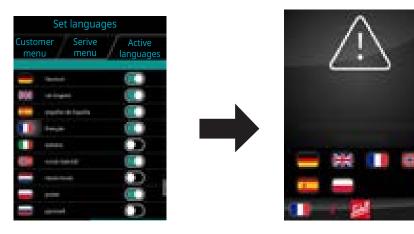
When selecting another language you must press [Save] and [Accept].

Tab [Active languages]

The tab [Active languages] relates to the languages which are temporarily available for one vend.

These are located bottom left in the vend mode (see "8.3 Vend mode" on page 27), symbolised by a flag and can be selected by the customer.

You can switch the active languages on \(\bigcirc\) or off \(\bigcirc\), so that they are displayed to the customer or not.



Tab [Active languages]

Language for the customer in vend mode

8.11.11 [Access control]



NOTE!

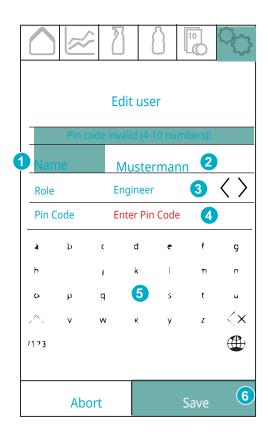
Please note that when the machine leaves the factory the [Access control] is switched off, so that the operator can set up the new machine.

All menus are then shown and are available.

You can switch the access control on or off:

Access control	Display
switched off	[Activate access control]
switched on	[Activate access control]

If you have activated access control, certain menus require a code.



- 1 Enter the user name. The keypad is inserted below
- 2 Example name: Mustermann
- 3 You must assign "Mustermann" a role.
 - Filler
 - Operator
 - Engineer

Permission for these roles can be found in section 8.11.12 on page 54.

- 4 Enter the code here; ; it must have 4 to 10-digits.
- 6 Keypad
- 6 To confirm press [Save]

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8.11.12 Authorisation Table

Tab	"Menu	Function	Role		Role	
			User	Filler	Operator	Engineer
Description of role						Cus- tomer's service engineer
Start menu	Whole page	Navigation	1	1	1	1
	Full clean				1	1
	Test vend				1	1
	Module test		1	1	1	1
	Read out statistics		1	1	1	1
	Tube inventory				1	1
	Display and delete errors				1	1
	Switch on EcoMode				1	1
Statistics	Whole page	Navigation	1	1	1	1
	Summary		1	1	1	1
	Vends				1	1
	Total number of vends:				1	1
	Journal		1	1	1	1
	Data transfer	Download statistics without reset	1	1	1	1
		Download statistics with reset			1	1
		Download journal			1	1
		Download configuration			1	1
		Download logs			1	1
		Input configuration			1	1
		SW-Update			1	1
	Cleaning processes				1	1
	Tube levels				1	1
	Telemetry				1	1
Cleaning	Whole page	Navigation	1	1	1	1
	Screen cleaning		1	1	1	1
	GF Full clean		1	1	1	1
Product configu- ration	Whole page	Navigation	2	2	1	1
	Price/product assignment				1	1
	Calibrate lift				1	1
Payment system configuration	Whole page	Navigation	2	2	1	1
	General				1	1
	Coin mechanism				1	1
	Note changer				1	1
	Cashless 1				1	1
	Cashless 2				1	1
	Token				1	1
	Hopper				1	1
	Printer				1	1

Tab	"Menu	Function	Role			
			User	Filler	Operator	Engineer
Description of role						Cus- tomer's service engineer
Machine configuration	Whole page	Navigation	1	1	1	1
	Service codes				1	1
	Date & Time:				1	1
	Chiller unit		1	1	1	1
	General				1	1
	Version information		1	1	1	1
	Multi-media				1	1
	Network settings				1	1
	Country settings				1	1
	Access configuration				1	1

0 = not displayed

1 = full access

2 = displayed but cannot be used ("greyed out")



NOTE!

Depending how up-to-date your software is, there may be some differences in the software terms displayed.

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9. Examples of usage

You want to set up access control, i.e. activate?

- → The access control is switched off a the factory so that the customer is able to access all menus when setting up the machine.
- → Tab 6 [Machine configuration] [Access control] : You must [activate the access control]

You would like to switch off the chiller unit software?

→ Tab 6 [Machine configuration] - [Cooling] You must switch the [Mode] to [off].

You want to change the chiller temperature (set temperature)?

→ Tab 6 [Machine configuration] - [Cooling] : You must change the [set temperature].

You want to know the software version number?

→ Tab 6 [Machine configuration] - [Version information]

You want to switch the machine over to free vend

→ Tab 5 [Payment systems] - [General]: In the menu [Credit system protocol] you must set [Free vend].

You do not want to display the temperature in vend mode

→ Tab 6 [Machine configuration] - [General] : In the [General] tab you will find the [Temperature Display], which you can switch on of.

You would like to check a coin dispensing from the coin mechanism tube

→ Tab 5 [Payment systems] - [Coin mechanism]: In the menu [Fill change] you must press the tube layout icon x1.

If you press and hold, the tube is emptied after pressing [Yes].

10. Error messages

Yellow error messages, red error messages

As soon as the machine door is opened, the display changes from vend mode in the start menu. The filler or service engineer finds important information in the status window there:

- Window with red background: Machine out of operation
- Window with yellow background: Machine working, but warnings highlighted

Example of use: [No payment system found]

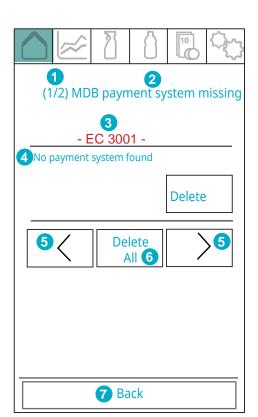
In the following example the error text [-EC 3001 -] is represented in red writing. The relevant text [No payment system found] helps the filler or service engineer.

Background is as follows: In the settings [MDB] is set, however the coin mechanism has been removed and the MDB-plug taken out.

The software searches for communication via the MDB-protocol with the coin mechanism and cannot find any. This is a serious error which will lead to the machine ceasing to function.

What must you do now?

- 1. Log in i.e. register yourself as *Operator" or "Engineer"
- 2. Press Tab 5 [Payment systems] and then [General]. In the menu [Credit system protocol] you must set [Free vend].
- 3. Select [Save]
- 4. If you eliminate the error using the [Delete] button, then the cause of the error is removed (incorrect communication protocol) and the machine functions again.



- 1 The error number is displayed here.
- The error number is also displayed as error text.
- 3 The internal error number is displayed here.
- 4 Information for removing the error is given here.
- Use the left and right key to scroll through the error list Using the key [Delete All] the errors can be deleted in one go.
- 6 If the cause of the error is not removed, the error will re-appear.
- 7 Back to start menu

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Example of error messages

EC_2073	Lift motor Z not connected	Check cable and plug to the lift motor up/down or check the motor
EC_2072	Lift motor X not connected	Check cable and plug to the lift motor left/right or check the motor
EC_2071	Lift has not yet referenced	Please start reference run for lift using service code "40M"

11. Maintenance schedule



ATTENTION! Risk of injury!

Maintenance work may be carried out only by a service engineer or trained specialists.

This maintenance schedule is to inform the machine operator about maintenance work and intervals

Machine: Robimat SiLine	Solution Spare part reference number	1 = clean 2 = test/ co 3 = lubrica			OK
Housing	Hamboi	12 months or 30.000 ¹⁾	24 months or 60.000 1)	36 months or 90.000 1)	
Is the machine standing safely, no tilting, fixings fitted?		2	2	2	
Does the glass door close without any resistance?		2	2	2	
Housing exterior		1	1	1	
Bearing studs at top and bottom glass door	Special grease e.G. Microlube GL 261 part no. 998 90 037 01	2+3	2+3	2+3	
Locking hook	Special grease e.G. Microlube GL 261 part no. 998 90 037 01	3	3	3	
Flap to delivery unit		2	2	2	
Torsion spring Seal		2	2	2	
		_	_	_	
Locking function		2	2	2	

Cooling unit	Solution Spare part reference number	Action/ operation 1 = clean 2 = test/ control 3 = lubricate 4 = replace/ exchange			ОК
		12 months or 30.000 ¹⁾	24 months or 60.000 1)	36 months or 90.000 1)	
Lint filter	Brush, air	1	1	1	
(directly under the drawer)		-	-		
Condensor	Brush, air	1	1	1	
Compressor	Rinsing water	1	1	1	
Evaporation tray	Rinsing water	1	1	1	
Connection gaskets, front, rear + left, right in the housing	Vaseline, rubber care	1 +2 +3	1 +2 +3	1 +2 +3	

Glass door	Solution Spare part reference number	Action/ operation 1 = clean 2 = test/ control 3 = lubricate 4 = replace/ exchange			OK
		12 months or 30.000 ¹⁾	24 months or 60.000 ¹⁾	36 months or 90.000 ¹⁾	
Insulating glass pane	Rinsing water	1+2	1+2	1+2	
Door gasket	Vaseline, rubber care	2+3	2+3	2+3	
Lock bearing studs	Special grease e.G. Microlube GL 261 part no. 998 90 037 01	2+3	2+3	2+3	
Lock	according to manufacturer's specifications	2+3	2+3	2+3	

Illumination	Solution Spare part reference number	Action/ operation 1 = clean 2 = test/ control 3 = lubricate 4 = replace/ exchange 12 months or 24 months or 36 months or			ОК
		30.000 1)	60.000 ¹⁾	90.000 1)	
LED function		2	2	2	
Swing function, light strip left		2	2	2	
Laying of cables upper left		2	2	2	

Drawer	Solution Spare part reference number	1 = clean 2 = test/ co 3 = lubrica		36 months or 90,000 ¹⁾	OK
Vending machine control board M32: minimum tension buffer battery 2.8V	Voltmeter	2	2	2	
Coin channels	Rinsing water	1+2	1+2	1+2	
Selection keypad, outside	Rinsing water	1+2	1+2	1+2	
Display	Rinsing water	1	1	1	
Coin return tray	Rinsing water	1	1	1	
Coin return motor function		2	2	2	
Coin mechanism, card reader, banknote reader	Cleaning according to manufacturer's specifications	-	-	-	
Product removal unit Interior	•	1	1	1	
Smooth operation of the locking pusher incl. spring		2	2	2	
Delivery unit flap Easy movement of motor drive	movable by hand	2	2	2	
Lifting force at least 250 g	e. g. can 0,25l	2	2	2	
Sliding clutch function	e. g. can 0,25l	2	2	2	

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Product shelves	Solution Spare part reference number	1 = clean 2 = test/ co 3 = lubrica		36 months or 90.000 1)	OK
Catching function of the product shelf		2	2	2	
Inside of the product shelf 2)	Check if clean and clean if necessary	1+2	1+2	1+2	
Product pusher movable with even force		2	2	2	
Catch mechanism of pusher/sliding piece		2	2	2	
Position of the belt in the pusher		2	2	2	
Positioning of belt deflexion at rear		3	3		
Damaged toothed belt		2	2	2	
Front drive wheel		2	2	2	
Front drive wheel, bearing	Multifunction grease Berulub FR 43 998 90 064 00	3	3	3	
Hooking-in position of the pendulum hook	333 33 33 . 33	2	2	2	
Legibility of the price/selection labels		2	2	2	
Retaining spring	Correctly snapped in; no damage?	2	2	2	
Horizontal linear rail, top	Special grease e.G. Microlube GL 261 part no. 998 90 037 01	1+3	1+3	1+3	
Horizontal guide rail below	Rinsing water	1	1	1	
Damage to horizontal toothed belt		2	2	2	
Damage to vertical toothed belt		2	2	2	
Deflexion rollers belt drives (7x)		2+3	2+3	2+3	
Belt tensions: horizontal drive: Checkpoint: middle above; I-rail right left. 1N with 15mm excursion or 20 Hz	Dynamometer	2	2	2	
vertical drive: Checkpoint in centre, with lift arm right down at the bottom. 1N with 15mm travel or 15 Hz	Dynamometer	2	2	2	
Displacement forces I-rail left/right: max. 15 N	Dynamometer	2	2	2	
Basket upwards: max. 9 N		2	2	2	
Basket downwards: max. 6 N		2	2	2	
Movable ribbon cable loop, bottom: without kink/damage?		2	2	2	
Fork light barrier for height recognition + Y-reference	Brush, air	1+2	1+2	1+2	
Micro switch for X reference		2	2	2	
Upper part of basket	Rinsing water	1	1	1	
Light bar	Brush, air	1	1	1	
Light bar: Flashing mode at 5 second intervals?		2	2	2	

Product basket	Solution Spare part reference	Action/ operation 1 = clean 2 = test/ control 3 = lubricate 4 = replace/ exchange			OK
	Humber	12 months or 30.000 ¹⁾	24 months or 60.000 1)	36 months or 90.000 1)	-
Damage on drive belt		2	2	2	
Damage on toothed wheel pendulum		2	2	2	
toothed wheel bearing incl. intermediate wheels	Multifunction grease Berulub FR 43 998 90 064 00	3	3	3	
Constant accruement of force when the pendulum is swung to and fro		2	2	2	
Damage to pendulum hook		2	2	2	
Bearing of pendulum hook	Special grease e.G. Microlube GL 261 part no. 998 90 037 01	3	3	3	
Gear motor, upper shaft bearing	Special grease e.G. Microlube GL 261 part no. 998 90 037 01	3	3	3	
Stop positions of selections 10, 18, 30, 38, 50, 58: X-direction: Toothed wheel					
for pendulum drive aligned with toothed wheel of product compartment Y-direction: Pendulum hook catches in centre of hooking-in position of the product compartment		2	2	2	

2) It is vital that the compartment surface is in a clean condition if the machine is to function correctly. Products with sticky, sugary contents tend to be also soiled accordingly on the outside of the packaging. Drink residue on bottles will soil the product compartments and thereby impede the smooth transportation of the bottles.

The condition of the product compartment surface must be recorded and, if it is not clean, a complaint should be filed with the operator!

3) Attention, changed interval (six-monthly)

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12. Storage, Shutdown, Decommissioning and Disposal

The vending machine should be stored in a clean and dry location. Use a suitable cover to protect it from dirt, humidity and damage.

Remove the products and leave the machine door slightly ajar to allow the humidity to escape.

Temporary Shutdown

The vending machine may be shut down temporarily.

- Remove power plug
- Remove the products
- Cleaning the product containers
- · Leave the machine door ajar
- For recommissioning see Commissioning

Decommissioning and disposal

If the vending machine cannot be operated any longer, it must be decommissioned:

- Disconnect the mains plug.
- Disconnect the power supply leads.

For the correct disposal of the vending machine please contact our Customer Service on +49 (0) 09825 25 - 18 - 5102.

The machine can be sent at your own expense to the manufacturer (headquarters in Herrieden, Germany), who will arrange for proper disposal.

If required, you can ask the manufacturer to provide details on appropriate waste management companies to take care of the complete machine disposal process on your behalf.

13. Index

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D	-	Set date	
	00	Set language	
Detaching the product basket		Set price lines	
Determine number of shelves			
Dimensions		Set prices	
Display sales	30	Set product removal time	
E		Set time	
Electrical connection	. 5	Set timing for chiller	
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Electric supply	18	Software Version	
Enter code		Spacer block	
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M			. 0
	10		
Machine capacity			
Main menu			
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Mounting site	15		
N			

14. Abbreviations, glossary

MDB	Multi Drop Bus	Communication protocol between vending machines, internal interface
EVA-DTS:	EVA data transfer standard	Communication protocol for data transfer to/from vending machine (mostly based on IR)
IR	Infrared light	Here: Data transfer via infrared light
EVA	European Vending Association	European Association of vending machine manufacturers and operators
IRDA	Infra Red Data Association	Organisation and protocol for data transfer via infrared light
FTL	File Transport Layer	Extended function in MDB for file transfer between MDB machines
MDE	Mobile data capture device	Normally a small portable computer for outdoor use to transfer data to/from vending machines or components
Coin mechanism	Coin mechanism	
VMC	Vending Machine Control board	Machine control board



EU/EC Declaration of Conformity for Machines

Sielaff GmbH & Co. KG Automatenbau Münchener Str. 20 D-91567 Herrieden

We, the manufacturer, hereby confirm that the vending machine type specified below complies to the EC directive for machinery and the EU directive to electromagnetic compatibility in its design and manufacture relating to health and safety requirements as well as in conformity on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Any modification without our prior written consent to the machine specified herein, will automatically invalidate this Declaration.

Description: Glas front vendor

Machine Type: GF ...

EU/EC directives applicable:

EC machinery directive: 2006/42/EC The following standards also apply: EN 60335-1:2012

EU directive to electromagnetic compatibility: 2014/30/EU

The following standards also apply:

EN 55011:2016

EN 55014-1:2006 + A1:2009 + A2:2011

EN 55014-2:2015 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 62233:2008

EU directive RoHS: 2011/65/EU

The objectives of the low voltage directive 2014/35/EU will be fulfilled in accordance with Appendix I, no. 1.5.1 of machine directive 2006/42/EC.

Authorised representative responsible for the documentation:

Mr. Dr.-Ing. Walther Spies, Managing Director, Sielaff GmbH & Co. KG, Münchener Str. 20, D-91567 Herrieden.

Aufkleber für Seriennummer

Aufkleber für Typenschild

Herrieden, 19.04.2017

Place, Date

Mr. Dr.-Ing. Walther Spies Managing Director 1/2/

Mr. Dipl.-Ing. (FH) Peter Mayer Managing Director SELAF GMSH & CO: KG AUCHACENSALI Poteloch 20 915ct Hamilton Münchweir Brobe 20 915ch Hemischen 92 0 93 6 1940 For 0 95 21 1 84 For 0 95 21 1 84

Company stamp