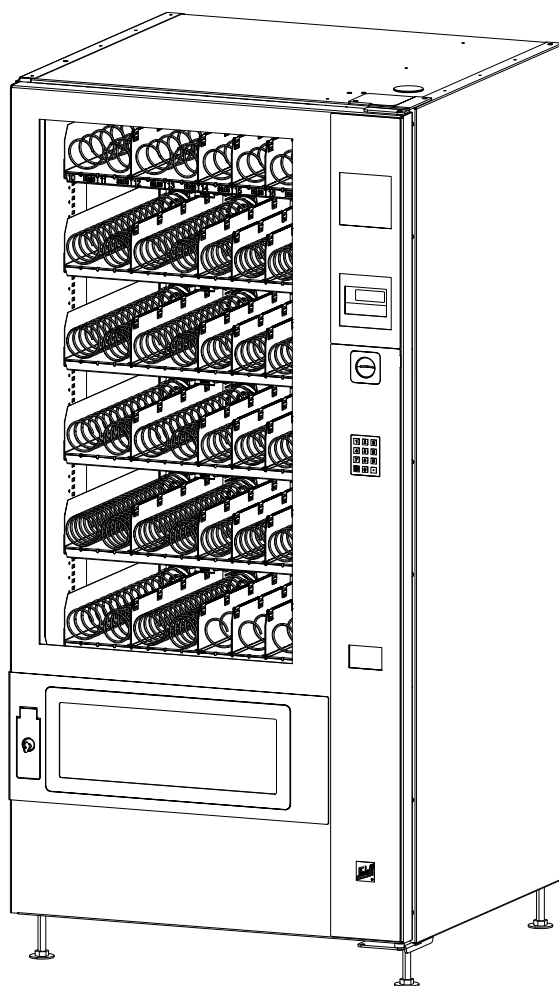




Original operating instructions

SN 48 EB04; SN 48 RB04



en

18/12/2024

3396702014_001



1.	General information	4
1.1	... Safety information	6
1.2	... Explanation of signs and symbols	8
2.	Vending machine diagram.....	9
3.	Transport.....	15
4.	Vending machine installation.....	16
4.1	... Requirements at the installation site	16
4.2	... Installation and commissioning	17
4.3	... Installing the coin mechanism (optional)	18
4.4	... Filling the coin mechanism (optional).....	19
4.5	... Requirement for the products.....	19
5.	Daily operation	20
5.1	... Notes for the filler	20
5.2	... Opening the vending machine door	20
5.3	... Pulling out the drawers.....	20
5.4	... Filling the spiral drawers	20
5.5	... Spiral placement rules.....	21
5.6	... Spiral adjustment	21
6.	Cleaning, care.....	22
6.1	... Caring for the external surfaces	22
6.2	... Cleaning the drawers	22
6.3	... Cleaning the dispense outlet.....	22
7.	Maintenance safety checks.....	23
7.1	... Checking and cleaning the gas sensor	23
7.2	... Shut-off device - Activating a self-test	23
7.3	... Testing the sensor	23

8.	Software	24
8.1	...Service keypad and display	24
8.2	...Structure of the main menu	25
8.3	...[CHECK] M0.....	26
8.4	...[PROGRAMMING MODE] M1	26
8.5	...refrigeration unit[COOLING] M2.....	27
8.6	...[TEST VEND] M3	28
8.7	...[SHOW STATISTICS] M4.....	28
8.8	...[SHOW FULL STAT] M5.....	28
8.9	...[PROG. TIME/LOCKS] M6.....	29
8.10	...[INSTALLATION] M7	30
8.11	...[SERVICE MODE] M8.....	37
8.12	...[TUBE INVENTORY] M9.....	38
9.	Storage, decommissioning, permanent shutdown and disposal.....	39
10.	Maintenance schedule.....	40
11.	Technical data	42
12.	CENELEC measurement.....	43
13.	Index.....	44
14.	EC Declaration of Conformity	47

1. General information

Changes

The text, images and data in these operating instructions reflect the technical status of the vending machine at the time of printing. We reserve the right to make changes in the interest of ongoing development.

Complete document

This document has a total of 48 pages. If all the pages are present in consecutive order, your document is complete.

Availability of the operating instructions

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

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

Third-party documentation

Different payment systems can be installed in this vending machine, for example coin mechanisms, banknote readers or cashless payment systems.

Please note that special accessories may be required and special settings in the vending machine software may have to be changed in order to ensure error-free use of connected payment systems. Please refer to the additional third-party documentation of the respective manufacturer.

Manufacturer

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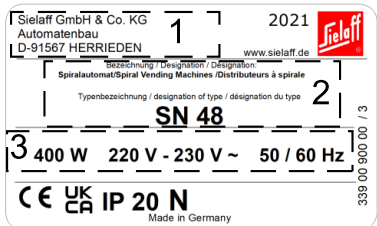
Variants

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

These instructions apply to the following versions:

Model	Part no.
SN 48 EB04.....	339 00 000 14
SN 48 RB04.....	339 00 000 34

Identification

	1. Manufacturer 2. Type designation 3. Electrical supply ratings
---	--

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Performance features

The SN 48 is a spiral vending machine used to dispense pre-packaged, chilled fresh food items. Products that do not require chilling can also be dispensed by spiral vending machines as long as they fit into the spirals.

The vending machine is available in both Food and 2T Food versions.

A two-line (LCD) display provides selection and system information.

All vending machine functions are managed and checked via a microprocessor module. Sales and error data is stored on the control board.

In service mode the selection keypad is used along with the programming keys to programme the control board.

The vending machine is prepared for operation with a coin mechanism as standard.

SIELECTOR software for PC-supported programming, based on Windows, can be used to configure the vending machine. The software supports the duplication, creation, saving and printing out of all parameters.

1.1 Safety information

General information

- The operating manual must be read and understood before commissioning the vending machine.
- The operating manual must be kept at the place of use in an easily accessible place where it can be consulted at any time.
- During transport, installation, operation, maintenance and repair of the vending machine, it is vital to observe the latest versions of the following regulations and directives: Regulations of the responsible power supply company, UVV - accident prevention regulations, guidelines of the employers' liability insurance association, trade regulations, EC directives, VDE regulations, observance of the usual hygiene regulations, country-specific regulations; Industrial Safety Ordinance - Workplace Ordinance.

Transport, installation

- Due to its high centre of gravity, there is a risk of the vending machine tipping over. Therefore, always proceed with caution. Do not lower the vending machine in a jerky manner.
- The vending machine must be set up on a stable, level base. It must be fixed to the wall or floor.
- Only install the vending machine in locations corresponding to its IP protection class. The vending machine's IP protection class is shown on the identification plate.
 - IP20 The vending machine is suitable for installation in dry areas and within the limits specified for permitted environmental conditions (see Technical data).
 - IP24 The vending machine is suitable for installation outdoors and within the limits specified for permitted ambient conditions (see Technical data).
- Vending machine installation and repairs are only to be carried out by trained service technicians.
- The venting distance between the rear panel of the vending machine and the installation site must be maintained.
- Do not place the vending machine with R-290 refrigeration unit directly next to a depression in the ground (basement drain, pit, trough, etc.).

Operation

- The vending machine can be used by children aged 8 and above and by people with limited physical, sensory or mental abilities or a lack of experience and/or knowledge, provided that they are supervised by another person responsible for their safety or have been instructed in how to use the vending machine safely and are able to comprehend the resulting dangers. Cleaning and maintenance work must not be carried out by children without supervision.
- Children should be supervised to ensure that they do not play with the vending machine. The vending machine is not suitable for use by children under 3 years old.
- The mains plug must be easily accessible. Appliance plugs must never be touched with wet hands or inserted into sockets when damp.
- In addition to the cleaning work, maintenance work must be carried out on the vending machine.

Cleaning

- The vending machine dispenses food products. To avoid any health hazards for the consumer, the vending machine must be cleaned at regular intervals.
- Only use authorized, food grade cleaning agents for cleaning.

- Do not clean the vending machine with a water hose or a high-pressure cleaner.

Repairs

- There may be sharp edges and corners inside the vending machine. Wear protective gloves when carrying out maintenance work.
- Use original spare parts only.
- Only products approved by SIELAFF may be used.
- Any modification or conversion of the vending machine is prohibited. SIELAFF excludes all claims caused by failing to follow the aforementioned instructions.

Maintenance safety checks

- The operator must carry out annual safety checks in order to operate the vending machine safely.

Intended use

- The vending machine must only be used to sell self-service packaged food and similar items.
- No highly flammable or explosive products may be sold.

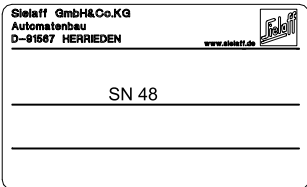
Refrigeration unit with refrigerant R-290 (propane)

- After plugging in the mains plug or switching on the FI circuit breaker, the safety shut-off device needs approx. 2 minutes to start.
During this time, no further vending machine functions are operable.
If the vending machine still does not start, the shut-off device may have switched off the vending machine due to a faulty refrigeration unit.
In this case, naked flames and red-hot objects within a radius of 5 metres of the vending machine must be removed.
- The gas sensor installed in the cooling area must not be tampered with because it may endanger persons and the environment.
- After applying the shut-off device, the vending machine may only be put into operation by trained personnel.
- Do not damage the refrigerant circuit.

Identifying the cooling with refrigerant R-290

- Units with refrigeration systems in which the refrigerant R-290 (propane gas, C₃H₈) is used are equipped with a gas sensor system in conjunction with a shut-off device for safety reasons. In the event of refrigerant leakage from the cooling system, an explosive mixture could occur inside the unit under unfavourable circumstances. The shut-off device ensures that the vending machine is disconnected from the mains supply in good time in this case and that as a result there are no longer any ignition sources inside.
- The identification plate of the vending machine contains information about the built-in cooling system.
- In most vending machines, the identification plate is located inside in the upper right-hand corner. The warning symbol shown below is also attached (warning flammable substances, DIN 4844-21).

Identification

 Sieleff GmbH & Co. KG Automatenbau D-9167 HERRIEDEN www.sieleff.de SN 48	 If a chiller unit uses R-290: Symbol for "Warning: flammable substances"
--	---

1.2 Explanation of signs and symbols

The vending machine has been manufactured in line with current technological standards. Nevertheless, even the most expertly designed vending machine cannot be without risks.

In order to ensure sufficient safety for the operator, additional safety instructions are provided. Attention is drawn to these using the conventions described below.

Observing this information is the only way to ensure adequate operational safety.

Text passages labelled with the following symbols have different meanings:

**DANGER**

Indicates immediate danger that could result in death or severe injury.

**WARNING**

Indicates a possibly dangerous situation that could result in death or severe injury.

**CAUTION**

Indicates a dangerous situation that could result in minor injury or damage to the vending machine.

**NOTE**

Note that should be observed to avoid damaging the vending machine.

**TIP**

Information to facilitate handling and use of the vending machine.

In addition, the following symbols are used in some places:

**WARNING! Electrical energy. Danger to life!**

This symbol warns technicians that electrically live components are installed in this area. Covers marked with this symbol may only be removed by a qualified electrician.

**Observe handling regulations when dealing with electrostatically sensitive devices (ESD)**

Covers marked with this symbol have electrostatically sensitive devices located behind them. Contact with plug-in connections, conductor tracks and component pins must be avoided at all costs. Only specialist personnel with ESD knowledge are authorised to carry out work!

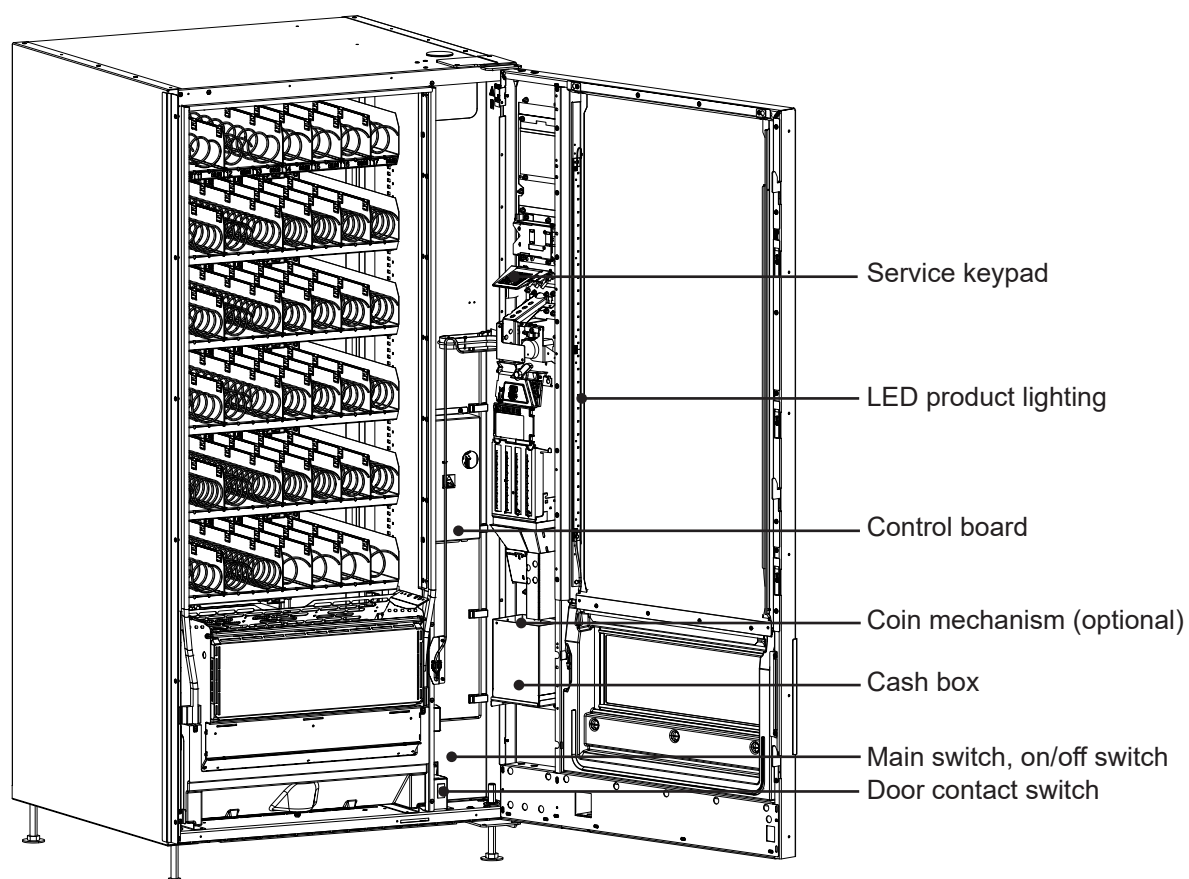
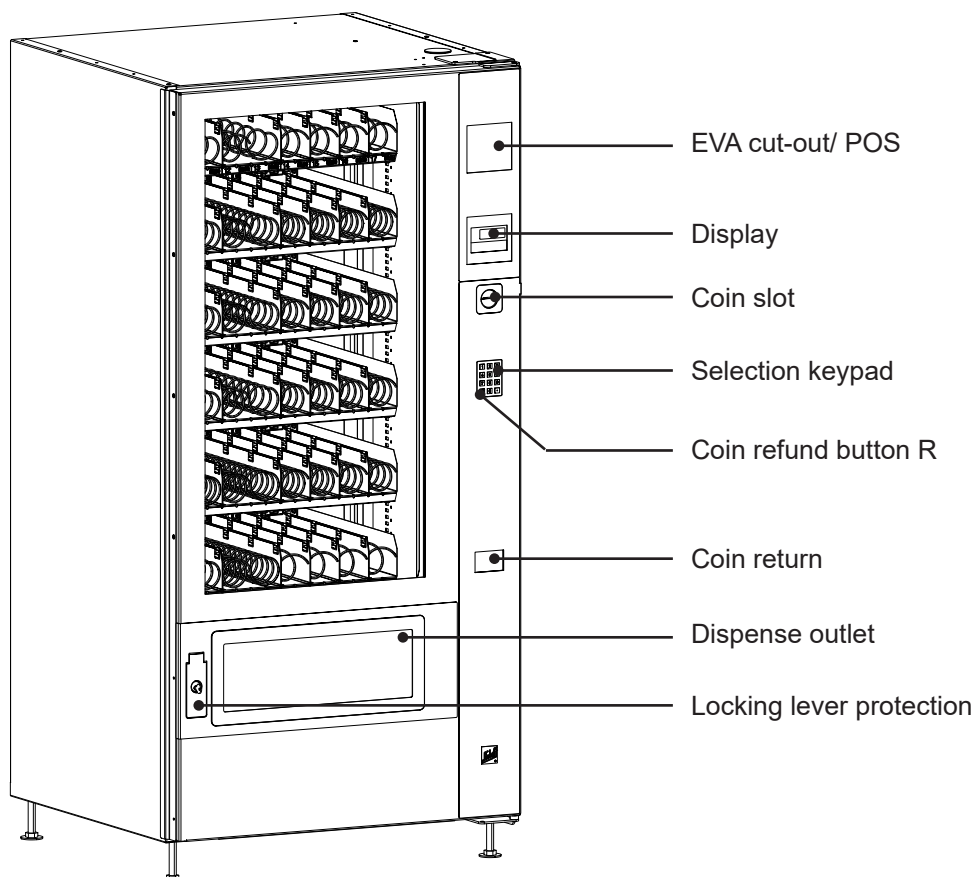
**DANGER! Flammable substances!**

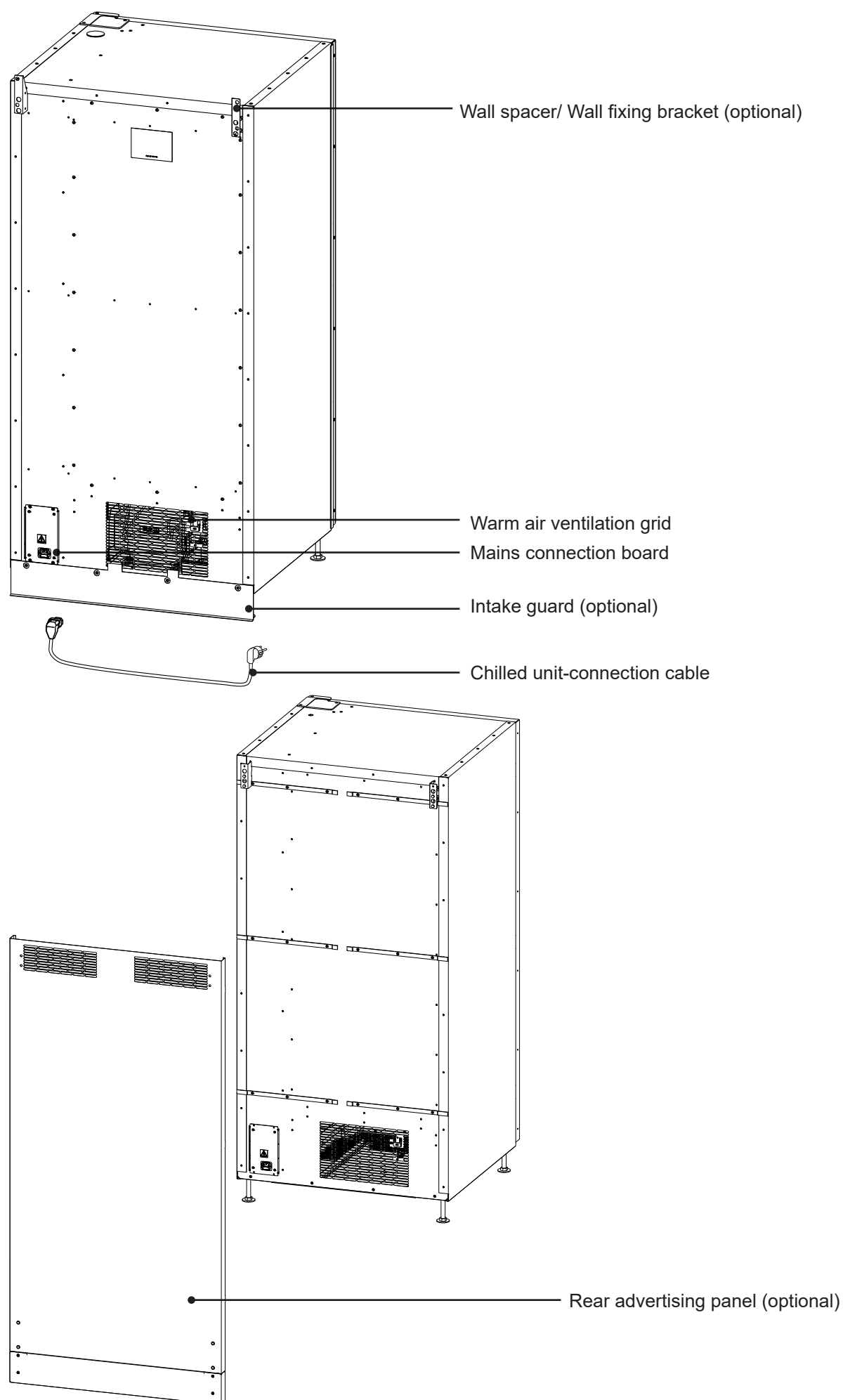
This symbol warns of flammable substances. There is a risk of serious injuries or death. Ignition sources, such as burning cigarettes or lighters, must be kept away when opening the vending machine door.



This symbol means that the marked product must not be disposed of together with household waste at the end of its life. Instead, it must be separated and taken to a collection point for the relevant type of waste. Details may differ in your country.

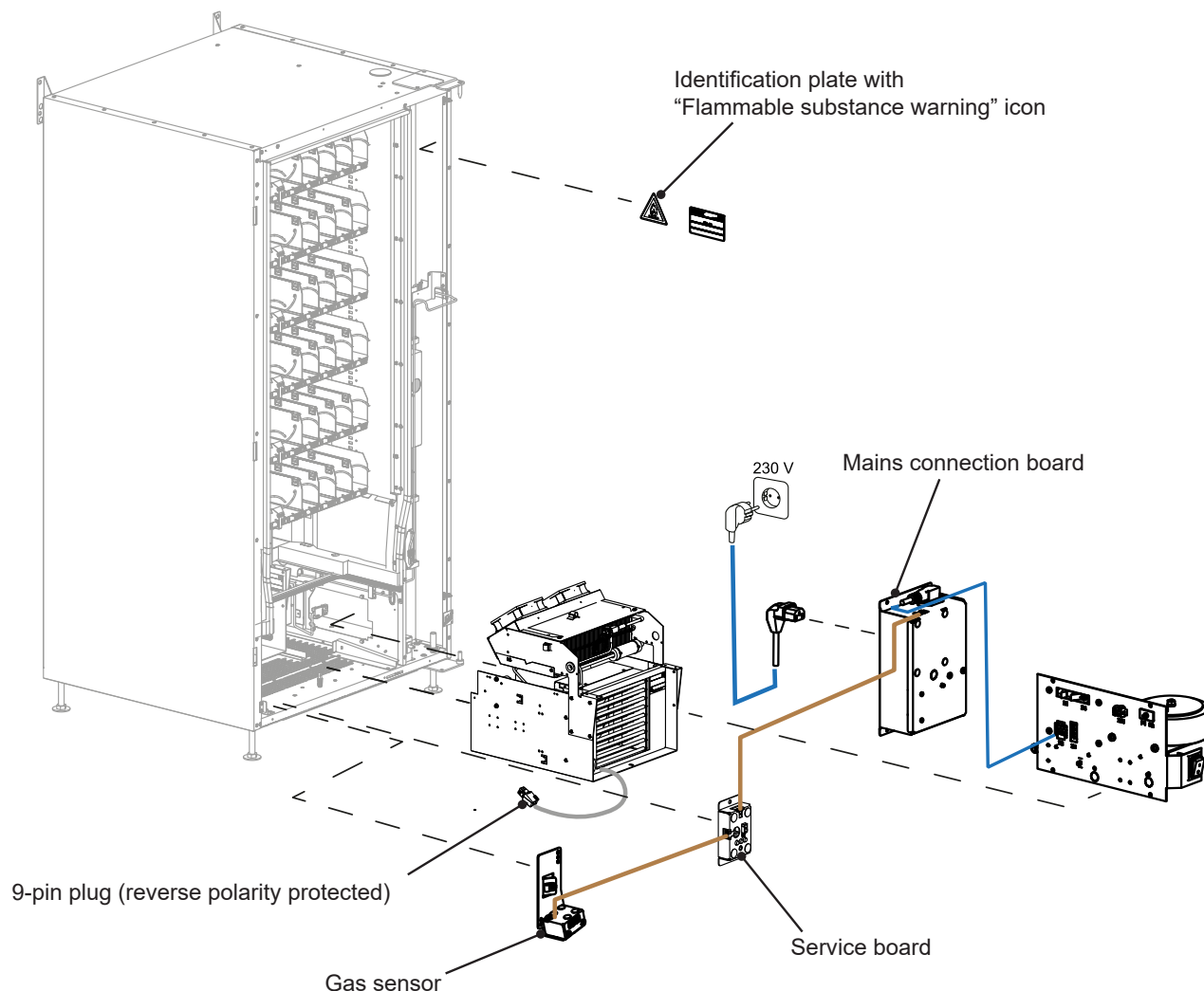
2. Vending machine diagram





R-290 refrigeration unit

Units with refrigeration systems in which the refrigerant R-290 (propane gas, C₃H₈) is used are equipped with a gas sensor system in conjunction with a shut-off device for safety reasons.



Red lights up 1 sec.

Self-test in progress

Red lights up permanently

Self test failed

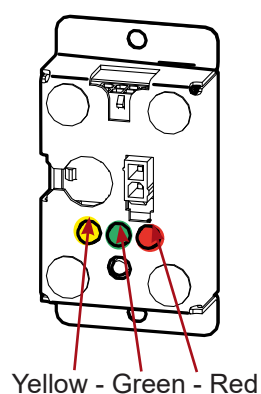
Green lights up permanently

Self-test successful

Yellow lights up permanently

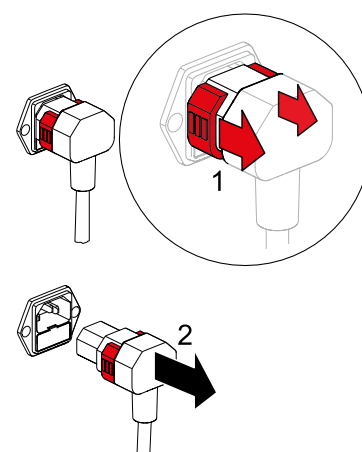
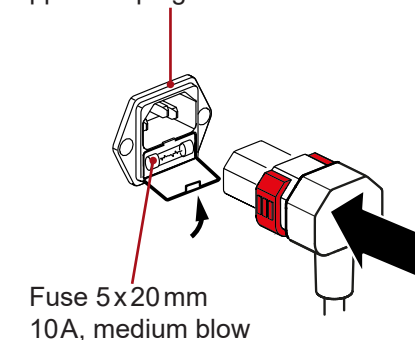
The mains voltage for the vending machine has been released.

Service board

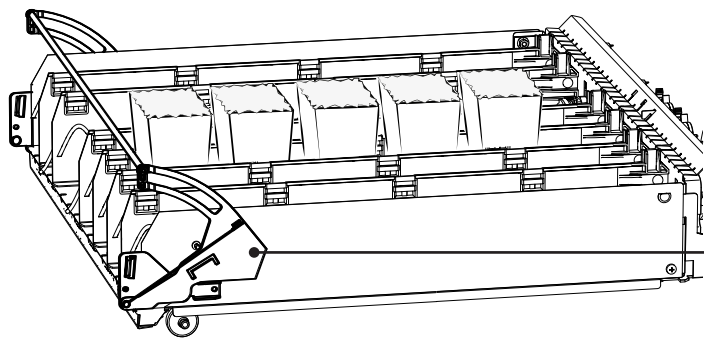


Yellow - Green - Red

Appliance plug with C14 fuse



Product retainer swing (optional)

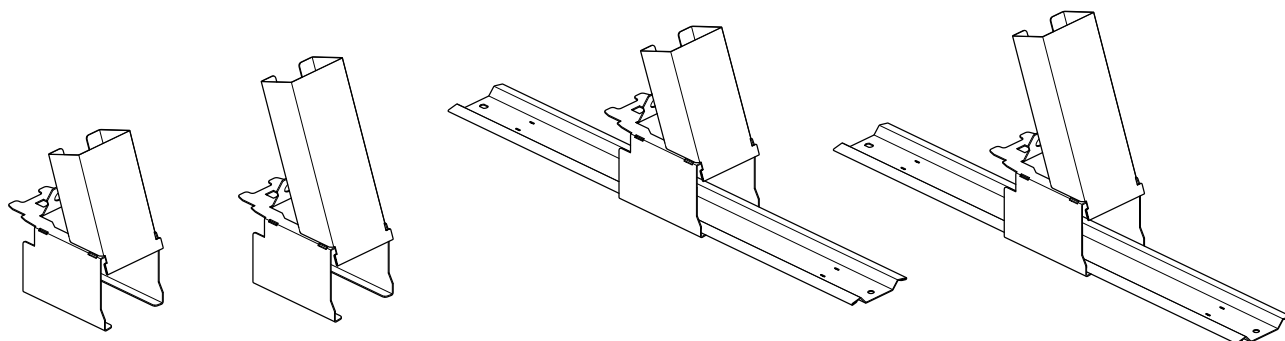


Product retainer swing (optional): for dispensing certain products that can be problematic when dropping.

Product holders for spiral drawers

Various product holders are available for dispensing tall products from spirals. This prevents the products from falling backwards or slipping due to the high centre of gravity.

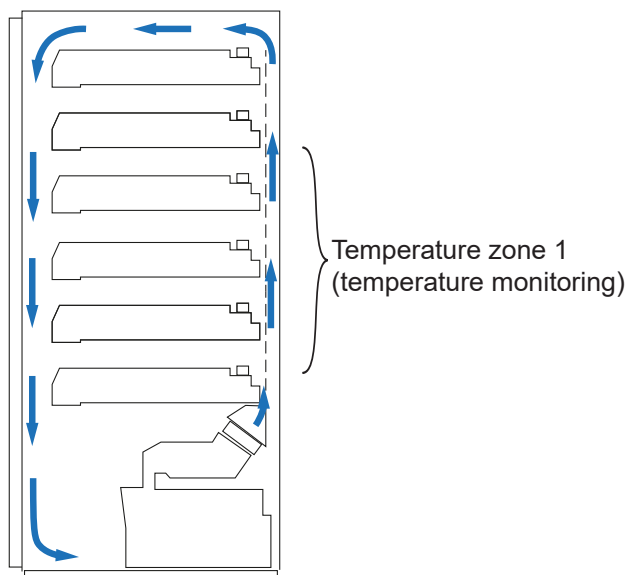
Move the product holder backwards to release it. It can then be pushed easily to the back.



Food or 2T food versions

Food version

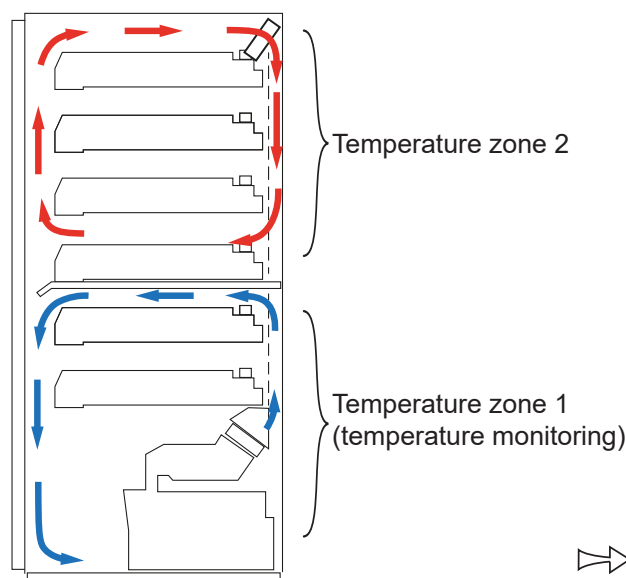
For food safety product storage the legal requirements regarding food product safety must be adhered to. The products' chilling cycle must not be interrupted.

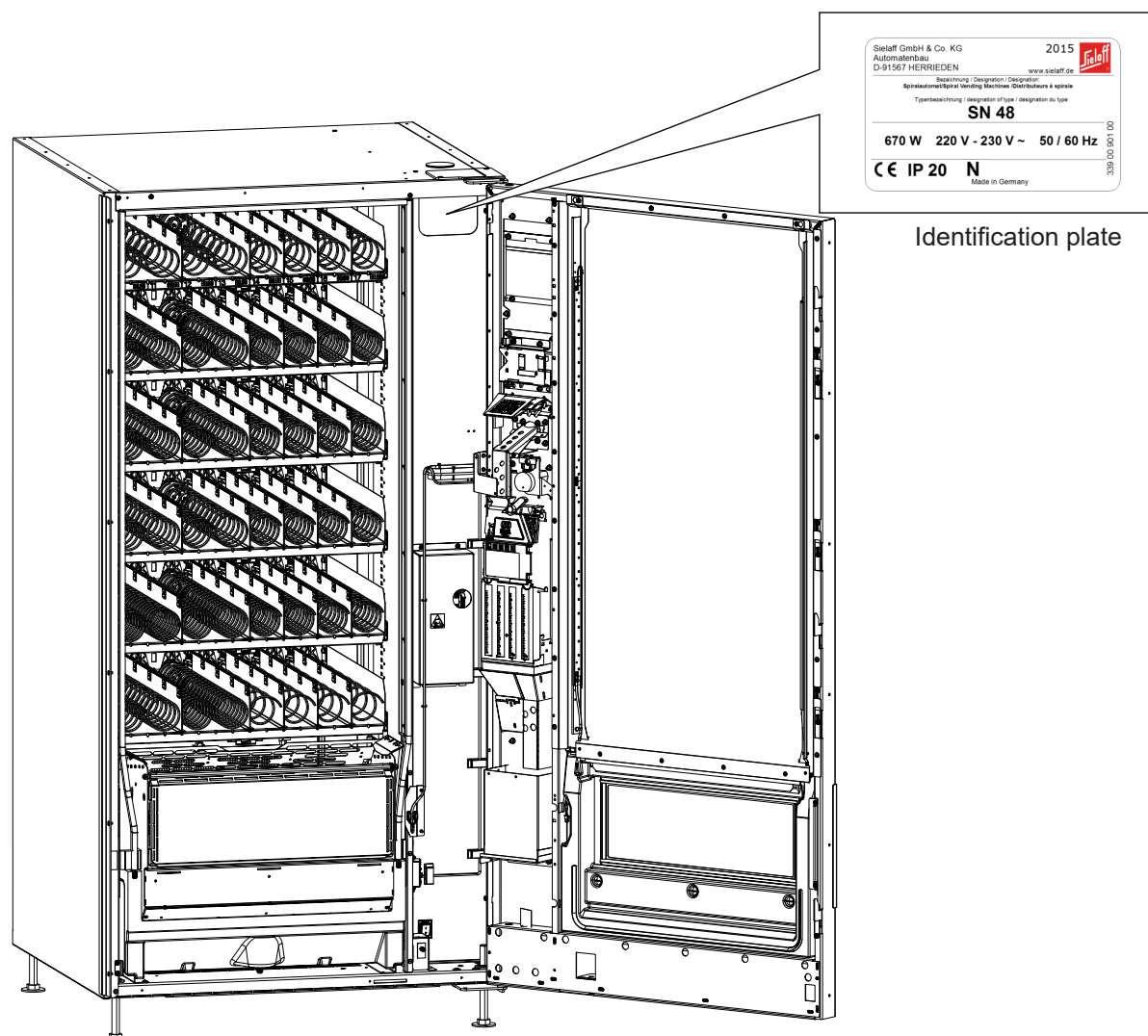
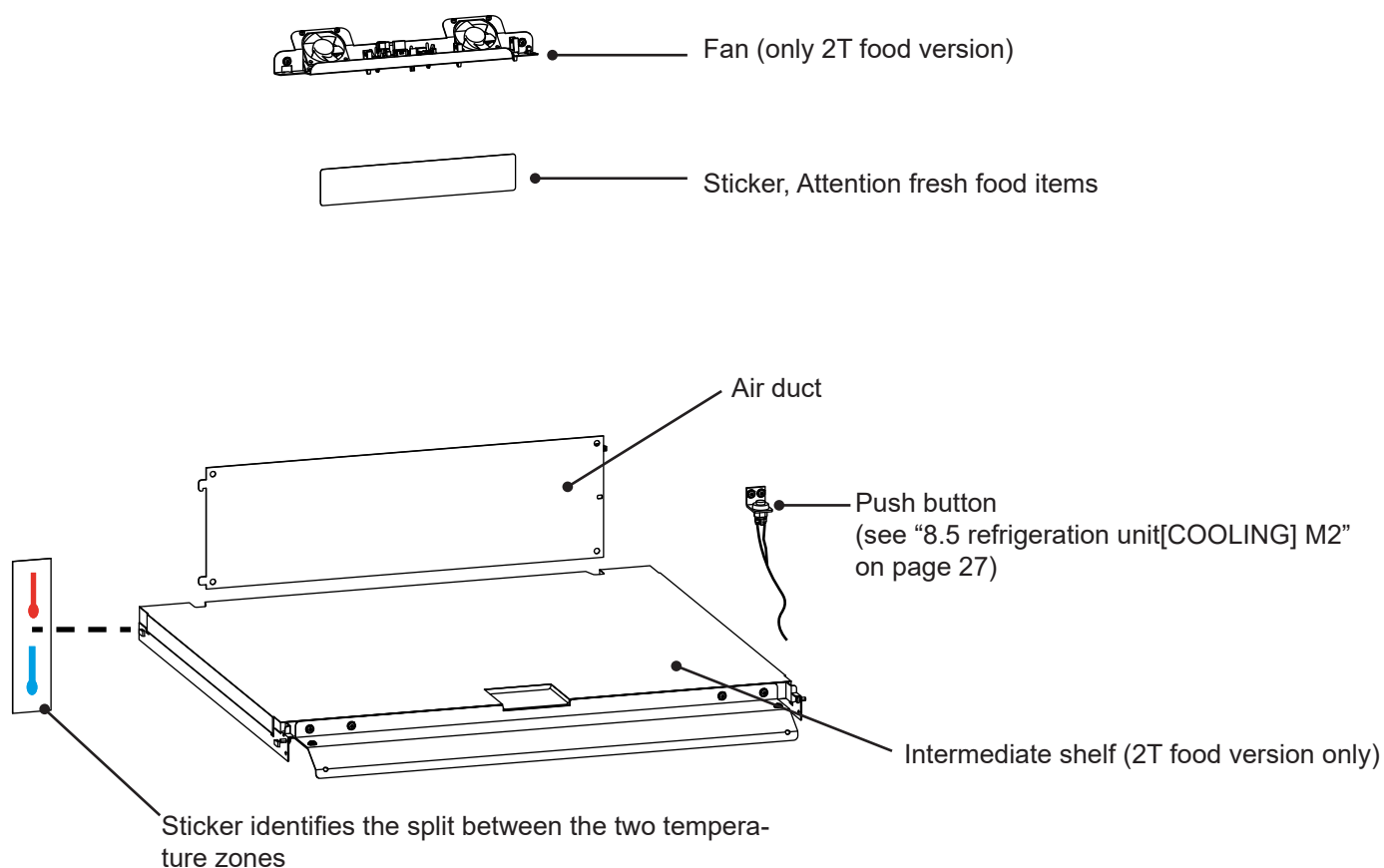


2T food version

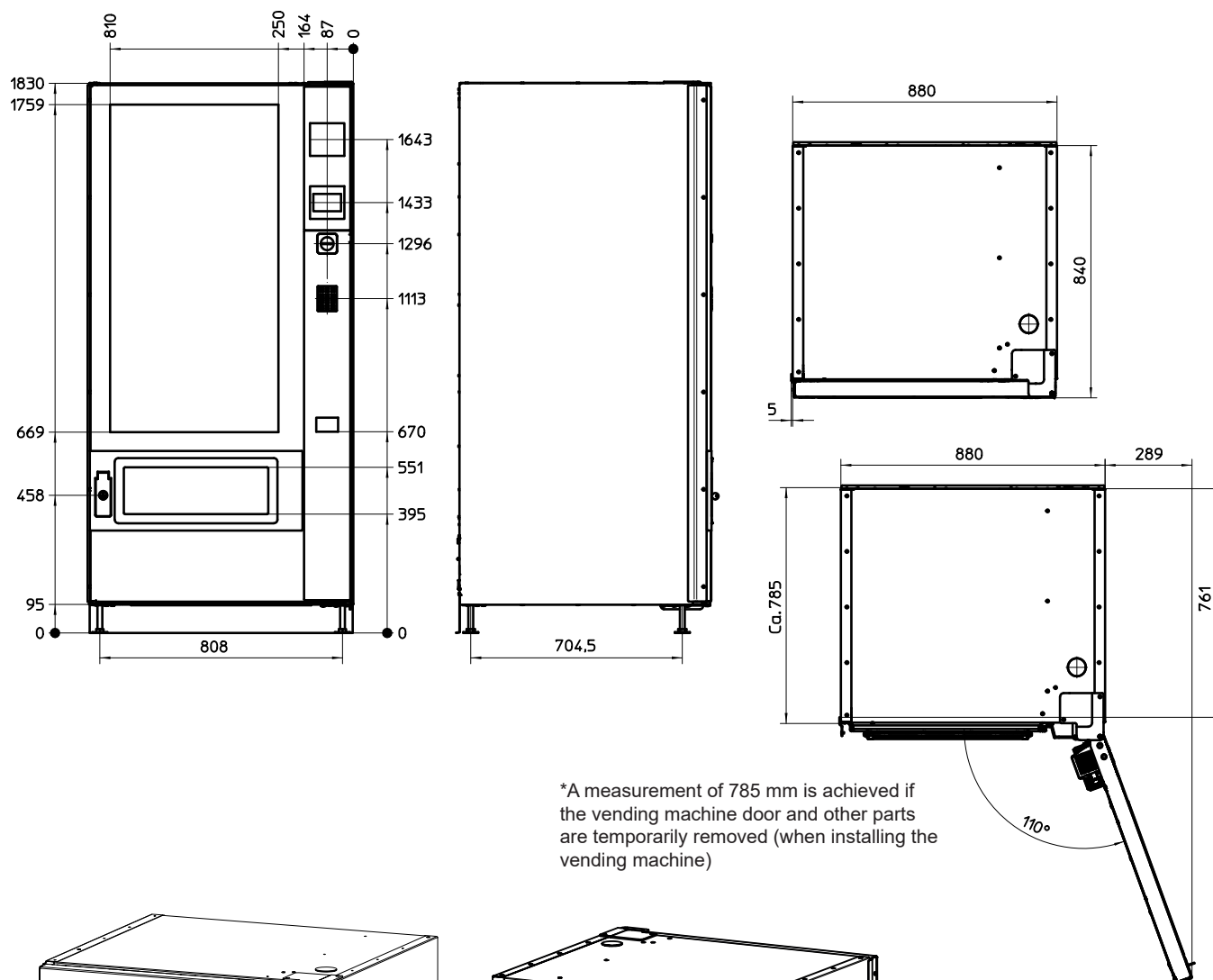
For food safety product storage the legal requirements regarding food product safety must be adhered to. The products' chilling cycle must not be interrupted.

The chilled area is split into two temperature zones by a separation shelf.

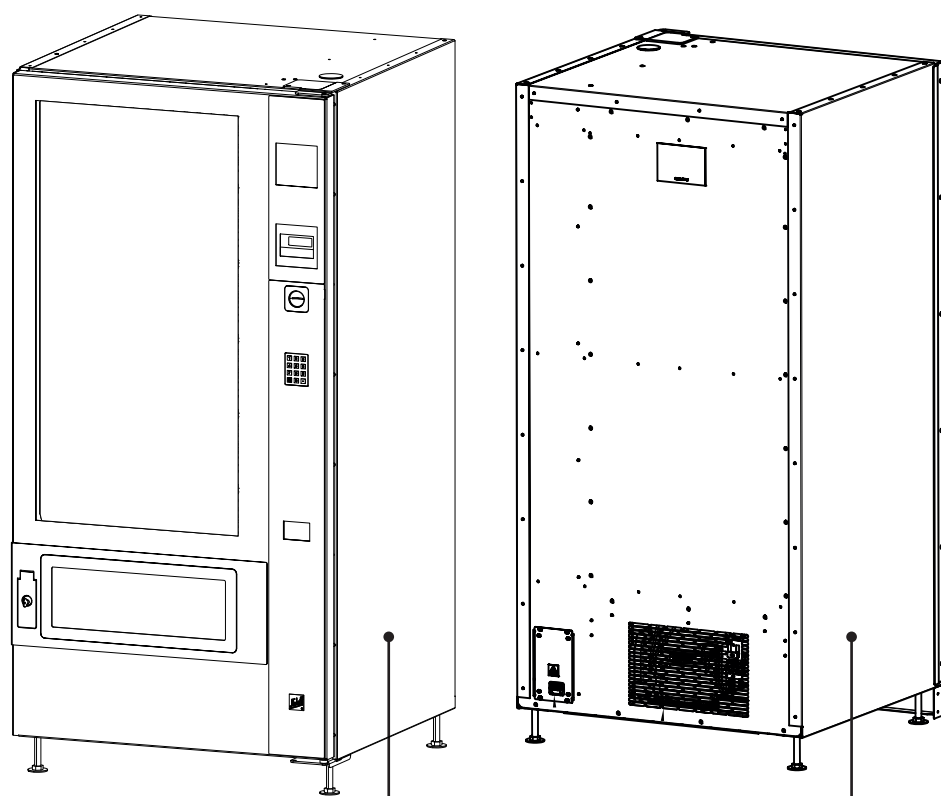




Vending machine dimensions



*A measurement of 785 mm is achieved if the vending machine door and other parts are temporarily removed (when installing the vending machine)



Side advertising decoration: 1727 x 768 mm

3. Transport

**WARNING**

The vending machine can tip over during transport. There is a risk of crushing. Only move the vending machine using the appropriate means of transport.

Observe the following instructions

- Only move vending machines with a pallet truck or forklift. Place the forks on the wide side of the vending machine. Remove the kickplates beforehand.
- Do not transport the vending machine as a suspended load.
- Always move the vending machine with caution.
- Prevent it from sliding sideways.
- Do not move the vending machine on inclined ramps, use transport lifts instead.
- Observe the vending machine's centre of gravity. Due to its design, the centre of gravity is high. There is a danger of tipping over.

Suitable means of transport

- Forklift truck
- Pallet truck
- Stairclimber for vending machines

Storage

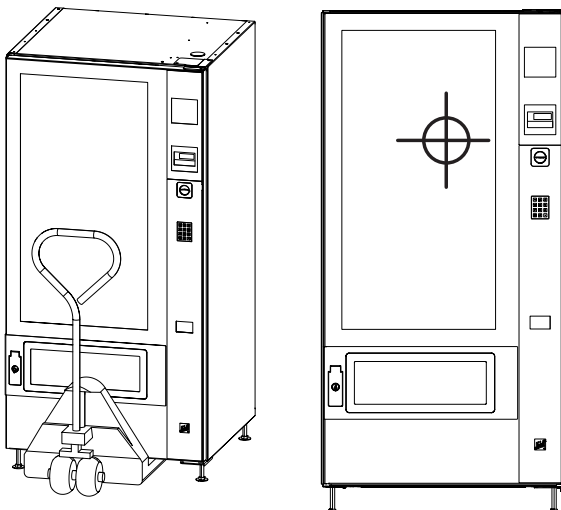
- The vending machine should be stored in a clean and dry location. Use a suitable cover to protect it from dirt, humidity and damage.
- Remove products and leave the vending machine door ajar to allow moisture to escape.

Temporary decommissioning

The vending machine can be temporarily decommissioned.

Procedure

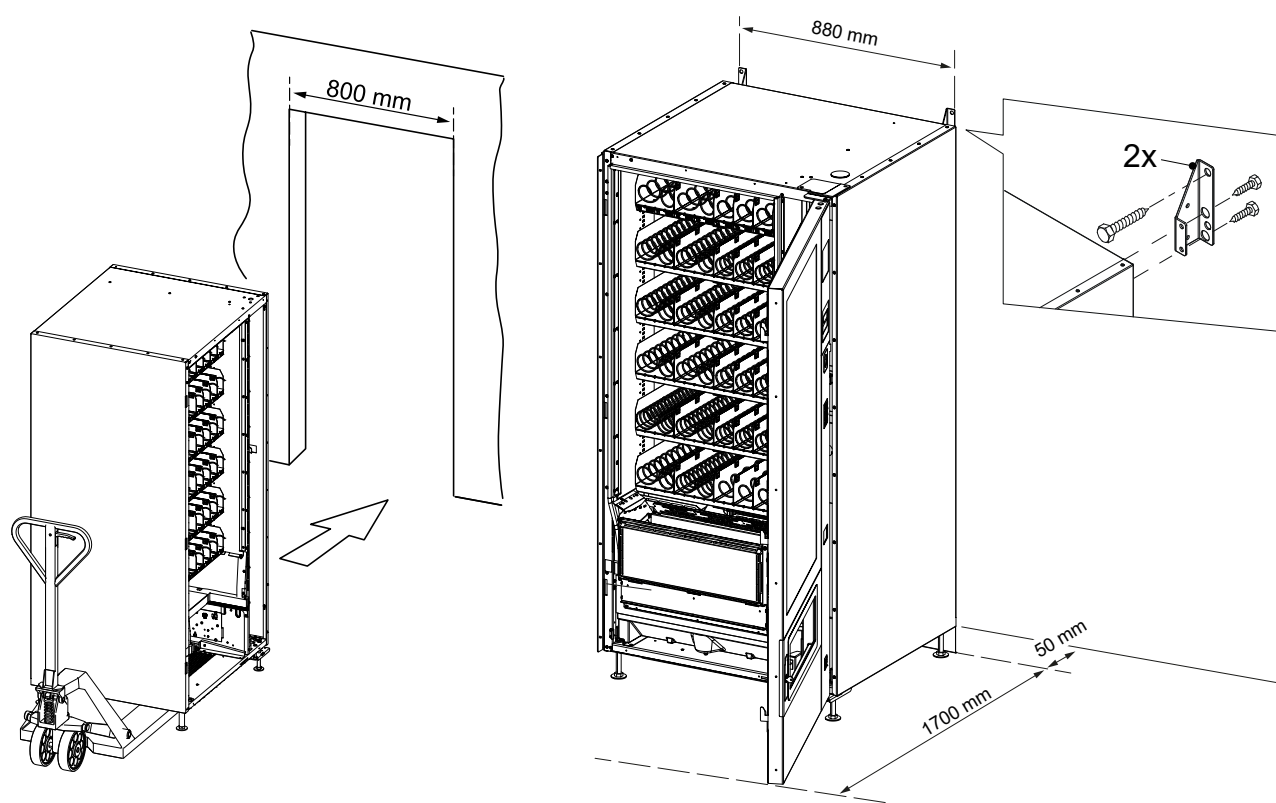
- Remove the mains plug from the socket.
- Remove the products.
- Cleaning the drawers
- Leave the vending machine door ajar
- To re-commission refer to the relevant section



4. Vending machine installation

4.1 Requirements at the installation site

- The ground must have sufficient load-bearing capacity. Note the weight (see technical data).
- Do not place the vending machine in air containing salt or chlorine, such as an indoor swimming pool.
- The vending machine must not be placed in areas that are cleaned with a high-pressure cleaner or a water hose.
- The vending machine window should not be exposed to direct sunlight. The cooling system is not designed for this.
- For example, the windows on the vending machine may become foggy in unfavourable weather conditions (high humidity, high outside temperatures). This phenomenon is only temporary and not a reason for complaint.
- The vending machine must be exactly horizontal.
- The vending machine is powered using an IEC connection cable and must be connected to a correctly installed Schuko socket outlet.
- Do not use extension cables and sockets strips.
- A fixed connection may only be installed by an electrician.
- The plug must be accessible after setting up the vending machine.



NOTE

The vending machine can be pushed through narrow doorways by removing the door and additional parts.

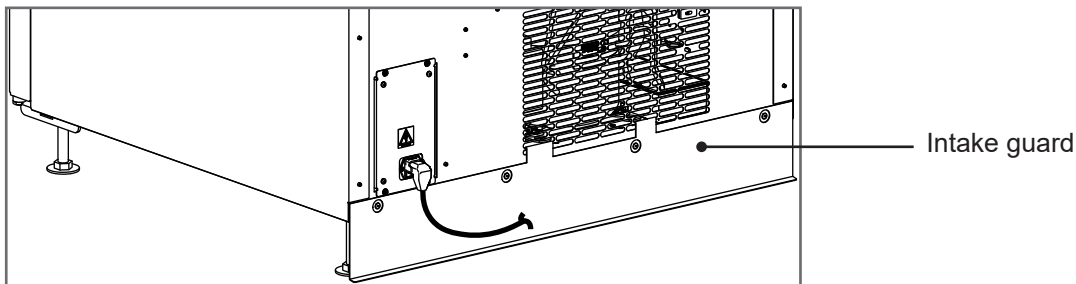
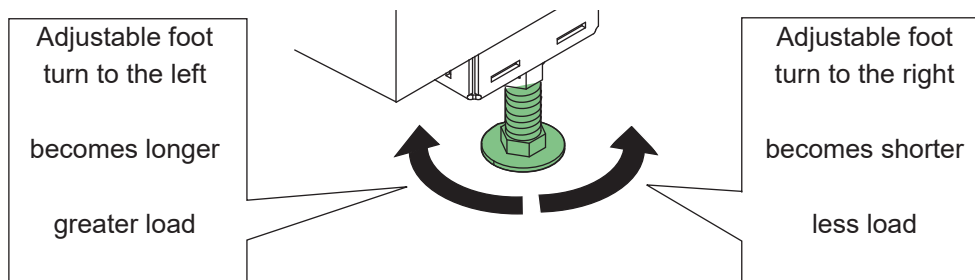
Refer to Technical Manual part. no. 339 66 020 14.

4.2 Installation and commissioning

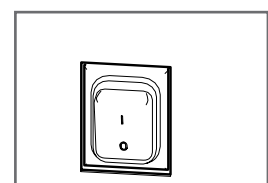
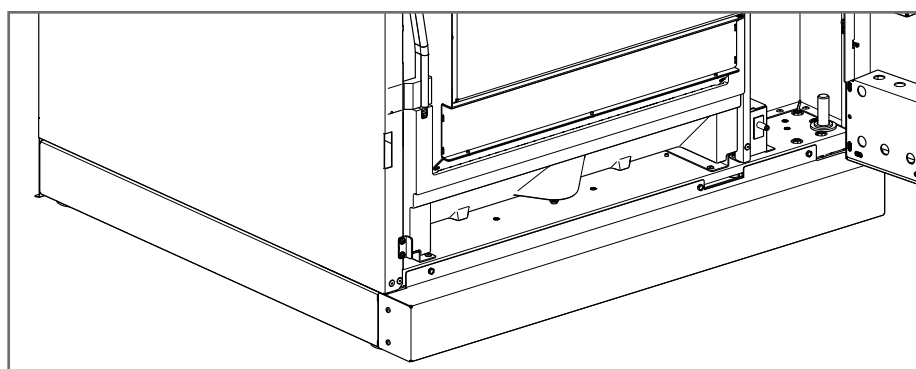
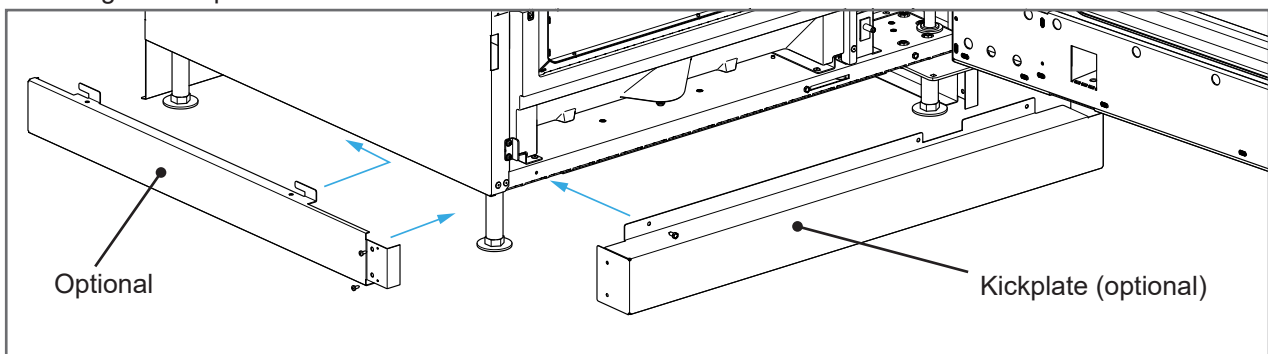
1. *Unpack, position, level and secure the vending machine.*
2. *Open the vending machine door; the key is located at the back of the vending machine*
3. *Remove transportation locks (if fitted)*
4. *Fit coin mechanism (optional) etc.*
5. *Fit air intake guard / kickplates (optional)*

Electrical connection

1. *Open the vending machine door (good ventilation)*
 2. *Plugging in the mains plug*
 3. *Switch on the vending machine at the main switch.*
- Shut-off device for the safety shut-off needs approx. 2 minutes to start up
- The vending machine is operational when [READY TO USE] is shown in the display.



Mounting the kickplates



4.3 Installing the coin mechanism (optional)

Most of the vending machines are set and tested at the factory for a specific protocol for the respective coin mechanism. The coin mechanism is usually installed at the customer's premises by the customer.

4.3.1 Inserting the coin mechanism mechanically

Observe the documentation of the coin mechanism manufacturer.

Attach the coin mechanism in the designated place. Insert the locking screw if necessary.

4.3.2 Adjusting the eccentric disc

Set the motorised return so that the return lever on the coin mechanism is safely actuated when the return key is pressed. Adjust the insertion channel so that the coins can fall properly into the insertion funnel of the coin mechanism.

4.3.3 Connecting the adapter set

The coin mechanism and the control unit (VMC) must be connected electrically.

Example: Kit for Executive part no.640 01 522 00 comprises:

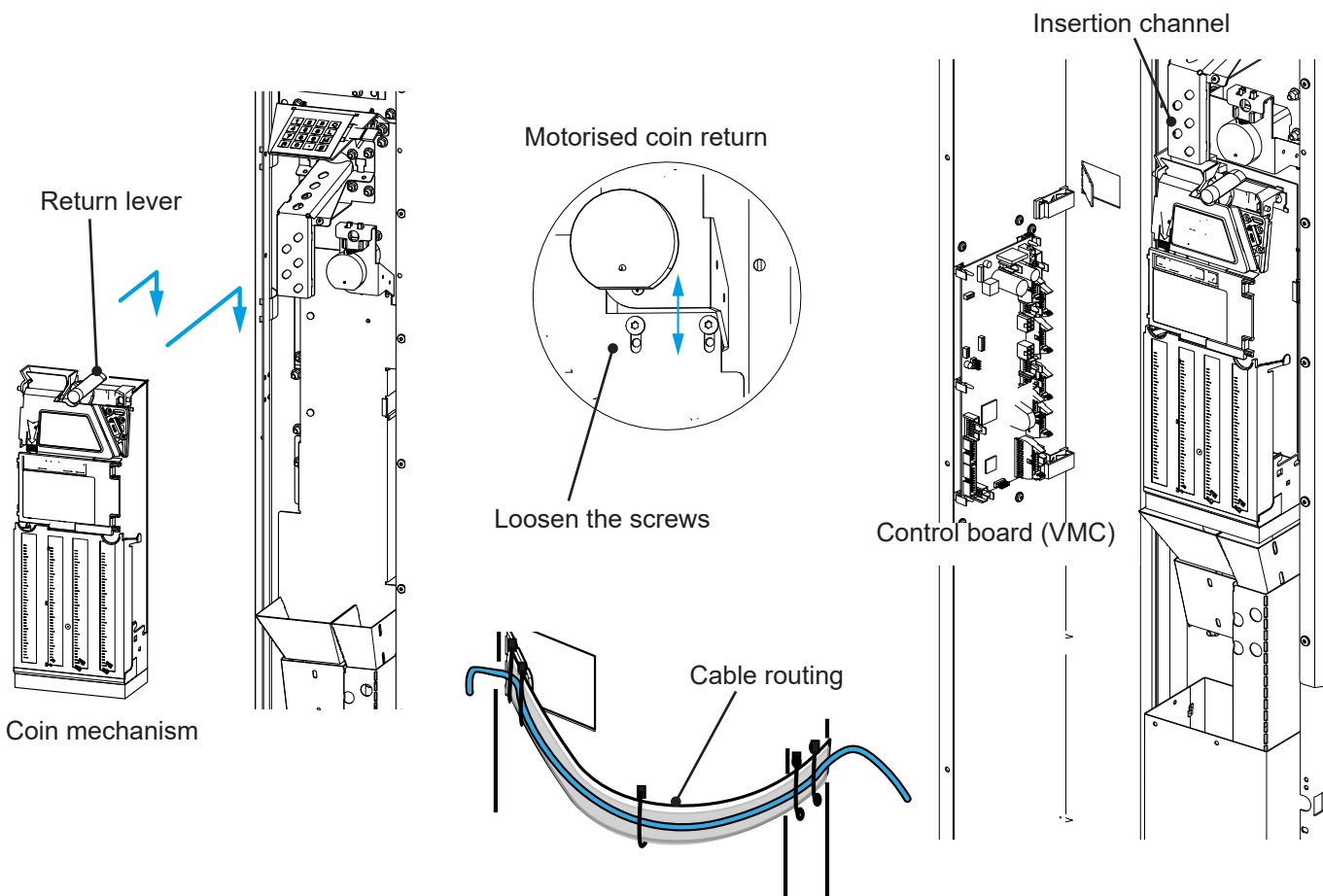
- Part no. 640 00 522 00 Cable connection Power supply
- Part no. 640 00 523 00 Cable connection Data bus

Other adapter kits are available upon request.

Plug in male and female connectors securely. Secure the cables between housing and door to the cable routing using cable ties.

4.3.4 Software configuration

1. Navigate to the menu [INSTALLATION] M7: [M] + [7] + [E]
2. Access [CREDIT SYSTEM] by pressing [M] x 1. Press [E] to confirm
3. Press button [1] to set the communication protocol, e.g. [Executive].
4. Press [E] to confirm.
5. Return to the main menu by pressing [M] + [L].

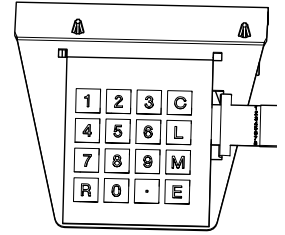


4.4 Filling the coin mechanism (optional)

On first-time filling approx. 10 coins should be inserted into each coin tube (sleeping coins). The number of coins required depends on the coin mechanism that is used and the settings in the [INSTALLING MODE] menu.

1. Press [M] - [8] - [E] - [E] one after the other.
2. Fill each tube with 10 coins.

→ The coin mechanism counts the value of the coins inserted. Once the minimum quantity is reached, the control board is informed and the vending machine goes into vend mode.



4.5 Requirement for the products

- The weight of the filled drawer must not exceed 15 kg or 40 kg for reinforced drawers.
- Reinforced drawers must only be fitted on the three lower levels.
- The product diameter must not exceed 150 mm.
- The products must be packed in a way that prevents them from being damaged when they are dropped at least 400 mm (max. 1300 mm).
- Suitability also depends on the shape and stability of the product. You must therefore always check whether the desired product can be dispensed without any problems.

5. Daily operation

5.1 Notes for the filler

- First of all check the general condition of the vending machine:
 - Is there any external damage?
 - Does the vending machine look clean and tidy?
 - Does the dispense outlet open and close easily?
 - If vandalised the vending machine must be put out of service immediately.
- In addition to the cleaning procedures, maintenance work should also be carried out on the vending machine (refer to the maintenance schedule).



5.2 Opening the vending machine door

1. *Open the lock*
2. *Fold the locking lever protection upwards by 90°*
3. *Pull the locking lever protection*

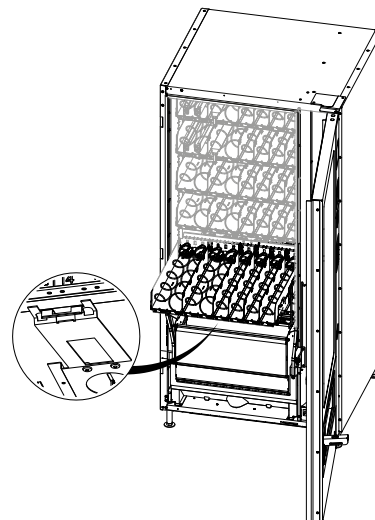
✓ The door is now open

5.3 Pulling out the drawers

1. *Press the locking device underneath the drawer*
2. *Pull the drawer*

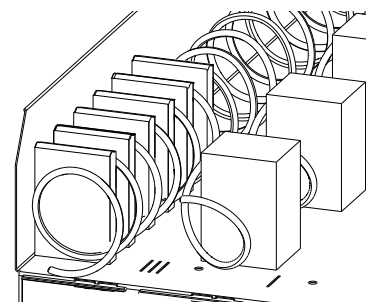
✓ The drawer can be filled.

- Push the drawer filled with products back evenly into the vending machine until you hear a click.



5.4 Filling the spiral drawers

- The individual drawers are filled as shown in the documents enclosed with each vending machine.
- Pull out a maximum of one spiral shelf at a time for filling
- Each shelf of the drawer can be pulled out for filling.
- Always fill the drawers from the back to the front to prevent gaps from being left in the spiral
- Follow the first in, first out principle
- Dial-up signs and price tags must not be covered up
- Place a product in each spiral opening
- The products must rest loosely on the bottom of the compartments and not on the spiral.
- Make sure that all products are placed correctly, otherwise spiral jams may occur
- Check the end position of each spiral



5.5 Spiral placement rules

- All products must be able to move freely in the spirals, no product may be squeezed in a spiral.
- Each product should fall out of the drawer after half a turn of a spiral.
- The thicker the product, the closer it must be to the edge of the drawer. The thinner the product, the less close it has to be to the edge of the drawer.
- For thicker products, the spiral end must end in the middle at the top. For thinner products, the spiral end must end in the middle at the bottom.
- In its standard factory setting, the spiral end is at 6 o'clock.
- The products must not reach the top of the drawer.

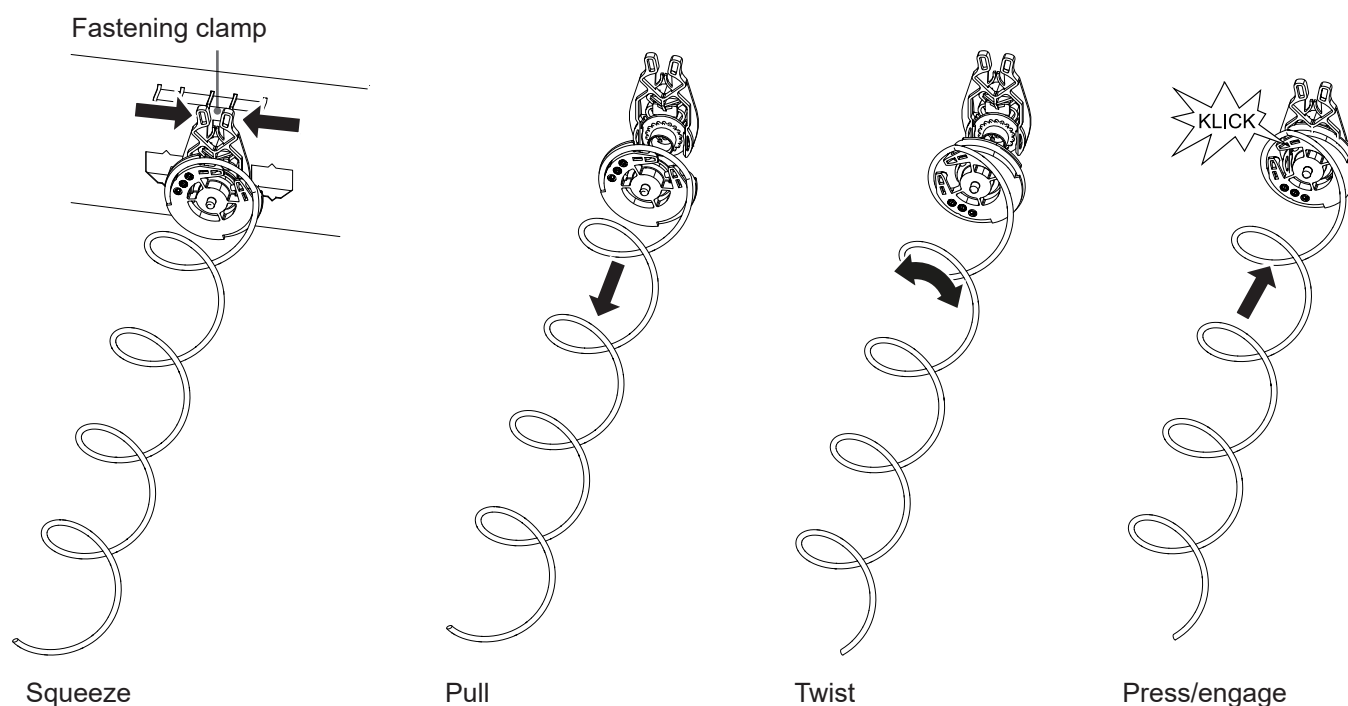
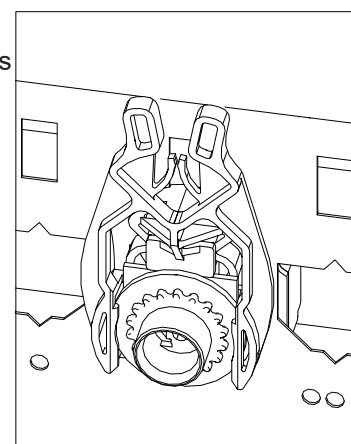
5.6 Spiral adjustment

The end of the spiral can be adjusted to optimally set the product delivery. This works for left and right spirals.

Procedure

1. *Squeeze the fastening clamp at the back of the drawer*
2. *Pull the spiral a little*
→ Spiral is free
3. *Release the fastening clamp*
4. *Twist the spiral*
5. *Push the spiral back until it engages automatically*

✓ The end of the spiral is now set



6. Cleaning, care



NOTE

The edges inside the vending machine may be sharp. Wear protective gloves when carrying out cleaning jobs.

General hygiene requirements must be observed. Only use food-quality cleaning products.

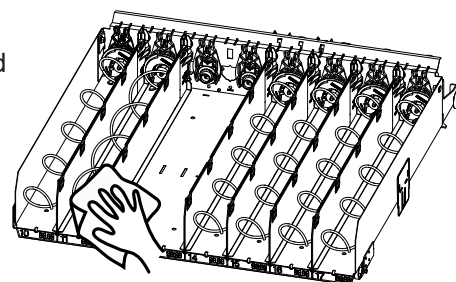
6.1 Caring for the external surfaces

- Clean the outer surfaces regularly with a mild cleaning agent. Use the standard cleaning product for a particular surface. These surfaces can be made from glass, plastic, painted metal or stainless steel.
- Clean and care for stainless steel surfaces using a slightly damp cleaning cloth and stainless steel cleaner. Cleaning cloths and stainless steel cleaner can be obtained from our after-sales service.
- In order to avoid damaging the effect on machine fronts made from polished stainless steel never wipe across the polished direction.
- Stainless steel cleaning cloths can be ordered for a fee using part no. 998 00 119 52.



6.2 Cleaning the drawers

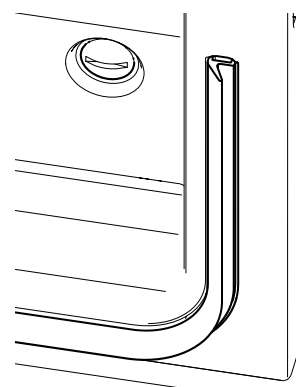
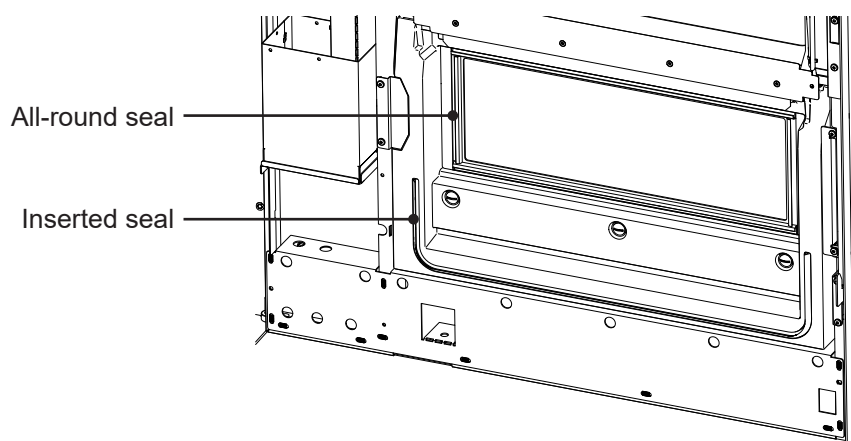
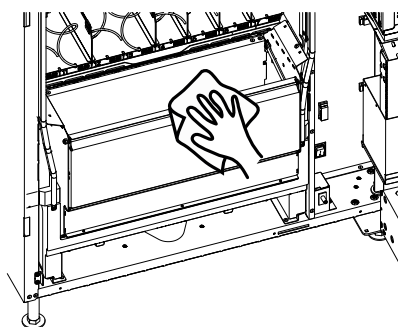
The drawers must be regularly cleaned and whenever necessary. Use a mild detergent. The spirals should also be cleaned if necessary.



6.3 Cleaning the dispense outlet

Clean the dispense outlet with a cloth and hot water containing washing-up liquid. Then wipe the parts dry.

Ensure that the seals in the door and dispense outlet are kept clean.



7. Maintenance safety checks

The operator must carry out the following safety checks in order to operate the vending machine safely:

Subject	Annual safety checks	See
Gas sensor	Check for damage and clean (do not use compressed air)	Sect. 7.1
Shut-off device	Carry out a self-test to ensure that the cut-off relay is working correctly	Sect. 7.2
Gas sensor	Use test gas to ensure that the gas sensor is working correctly	Sect. 7.3

7.1 Checking and cleaning the gas sensor

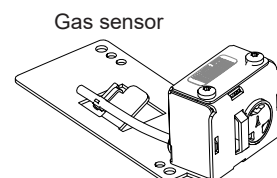
Check the gas sensor for any damage.

Clean the gas inlet using only a brush.



NOTE

Never clean the gas sensor with compressed air. Compressed air damages the sensor.



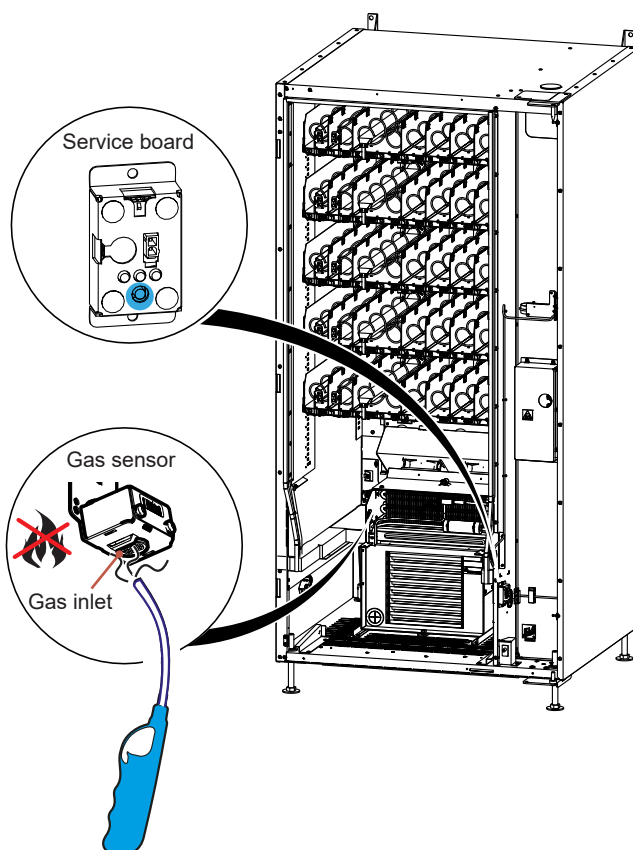
7.2 Shut-off device - Activating a self-test

Requirements

- The vending machine is ready to use
- Yellow LED on the service board lights up

Procedure

1. Press the button on the service board for approx. 2 seconds
 - Green LED lights up briefly (self-test was successful)
 - Yellow LED lights up (everything all right)
 - Red LED lights up (indicates a fault, take vending machine out of operation, replace shut-off device)



7.3 Testing the sensor

Requirements

- The gas sensor must be accessible (gas inlet)
- Remove drawer if necessary
- Standard stick lighter

Procedure

1. Switch on the vending machine.
2. Ignite the stick lighter away from the vending machine (flame height 2 cm).
3. **Extinguish** the stick lighter flame while continuing to hold down the stick lighter actuator.
4. Hold the opening of the stick lighter in front of the gas inlet opening of the gas sensor for a maximum of 20 seconds.
5. Put the stick lighter away and wait a few seconds.
 - Safety shut-off device disconnects the vending machine from the mains. Display, vending machine lighting etc. go out.
 - ✓ Shut-off device working correctly
 - ✓ Wait a while until the shut-off device automatically reactivates the power supply

Important:

- If the vending machine fails this test, the gas sensor must be replaced. The vending machine must be taken out of service.
- The vending machine may only be operated if the shut-off device is working correctly.

8. Software

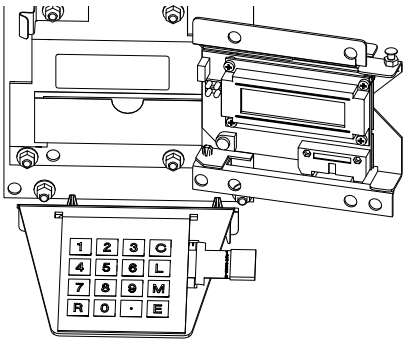
8.1 Service keypad and display

Service keypad

When the vending machine door is open the service keypad can be accessed. The programming keys are labelled [C] , [L] , [M] and [E]. These buttons and the selection keypad are used to program the vending machine. The display can be folded inwards for programming.

Service keypad extension

When fitting the banknote reader the display can no longer be folded back because it is blocked. For this reason there is a service kit (part. no. 339 50 155 00) which enables the service keypad to be operated from the front of the vending machine using a long ribbon cable.



The programming keys have the following functions:

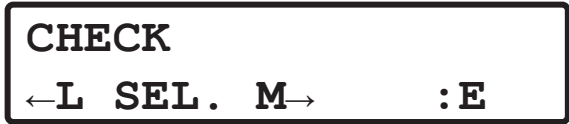
Menu selection M0 to M9

123C 456L 789M R0.E	Program- ming keys	Note	Meaning
	C	"clear"	Confirm error messages /delete data
	L	-	Scroll backwards in the menu
	M	"Menu"	Scroll forwards in the menu
	E	"enter"	Confirm entry, move to next menu item
	R		Refund button

Navigation

Select menu

The menus are used to set and change all modifiable values in the vending machine. The menus appear after the [M] button is pressed. The following information is displayed after pressing button [M].



Change setting

- [1] change the selection in the respective menu

Access vend mode

- Press keys [L] and [M] at the same time
- Press refund button [R] (exits any menu)
- If no key is pressed; after approx. one minute the vending machine reverts automatically to vend mode.

8.2 Structure of the main menu

Exit	Display message	Security code	Function
M0	CHECK	-	Error display, Deletion of error messages
M1	PROGRAMMING MODE	B	Assign selling prices Entering product names for each selection key
M2	COOLING	A	Electronic monitoring of the chiller unit Chilling temperature and times
M3	TEST VEND MODE	A	Checking the allocations Checking the vend process
M4	SHOW STATISTICS	A	Display sales statistics Deletion of short-term statistics
M5	SHOW FULL STAT.	B	Display sales statistics Full statistics can only be deleted by the manufacturer
M6	PROG. TIME/LOCKS	B	Set time, date, inhibit times
M7	INSTALLATION	B	Setting country, currency, machine type, machine number, security codes, pre-selection times, credit system, vending mode, coin mechanism parameters, vending machine options, service telephone number
M8	SERVICE MENU	B	Test of vending machine components Reading of vending machine parameters
M9	TUBE INVENTORY	-	Filling and emptying coin mechanisms

8.3 [CHECK] M0

Delete error	Current vending machine errors are displayed as text in the [CHECK] menu. An up-to-date counter reading is displayed with each fault.
ERROR #001 CON. 4 BLOCKED — —	▪ Button [E] acknowledges the error messages. ▪ [C] + [E] deletes the error messages. ▪ If several faults occur at the same time, the next message will be displayed once the previous error has been acknowledged. ▪ Press refund button [R] to revert to vend mode.
Display error history	
ERROR C#002 CREDIT SYSTEM ?	▪ Pressing [M] + [1] + [E] one after the other displays the error history. ▪ Press [E] to scroll through the error history. ▪ Press refund button [R] to revert to vend mode.

8.4 [PROGRAMMING MODE] M1

Price	
[PRICE CASH]	The normal cash selling price of the product.
[HAPPY HOUR]	To use this price in the [INSTALLING MODE] - [CREDIT SYSTEM] - [HAPPY HOUR] menu the setting must be [on]. Various settings in [PROG.TIME/LOCKS] must be entered.
[PRICELIST]	To use two price lists the setting must be [on] in [INSTALLING MODE] - [CARD SYSTEM] - [PRICE LIST]. Then [PRICE LIST 1] and [PRICE LIST 2] are stored. This function depends on the card reader being used. [PRICE LIST] and [HAPPY HOUR] cannot be used at the same time.

Setting prices	
PROGRAMMING MODE CASH PRICE ↓ E SEL 10:£ 4.00 ↓ new price for key 10 SEL 10:£ 2.00 ↓ E	▪ Press [E] to call up the selections in succession ▪ Use [L] to go back to the previous selection ▪ Using numbers 0 to 9, enter the new price and press [E] to confirm

Setting a standard price for all selections	The most frequently used price can quickly be programmed for all selections.
SET £ 45.00 CASH PRICE ↓ new price +E SHELF ? 1-9 SURE ??	▪ When [CASH PRICE] appears press [M] ▪ Using numbers 0 to 9, enter the new price and press [E] to confirm ▪ Press [E] when the question [SURE ??] appears.

Age verification	Set [INSTALLATION] - [VENDING MACHINE] - [AGE VERIFICATION] to [active] in order to use the age verification function. This function depends on the document reader in use.
SEL 1 :£ 2.00 18+	▪ Using [R], access the options [OK+] [18+] [16+] ▪ [OK+] The product is sold without age verification. ▪ [18+] The product is sold after verifying a minimum age of 18 years. ▪ [16+] The product is sold after verifying a minimum age of 16 years.
Copying prices (from price list to price list)	A programmed price list (e.g. cash price) can be copied to another price list. To do this, [on] must be set in [INSTALLING MODE] - [CARD SYSTEM] - [PRICE LISTS] so that the two additional price lists are available.
[COPY PL 1] [TO PL 2]	▪ [PL 1] stands for [PRICE LIST 1] ▪ [PL 2] stands for [PRICE LIST 2] ▪ Press [E] to call up the selections in succession

8.5 refrigeration unit[COOLING] M2

Cooling	
[EL. COOLING?]	Press [1] to advise the control unit that the chiller unit is installed. Press [E] to confirm.
[AUTO SET?]	Standard settings are loaded by pressing [1]: Cooling temperature 16°C and raised temperature 16°C. Confirm with [E].
[TEMP.COOLING1] [NORM.] [PLU.]	▪ Using numbers 0 to 9 enter the required cooling temperature and press [E] to enter. ▪ [PLU.] stands for raised temperature which is reached outside the cooling time (energy saving effect)
[TEMP.COOLING 2]	Irrelevant in this case (only refers to a second chiller unit in an auxiliary machine)
[COOLING] [FROM TO]	[MO] stands for Monday, [TU] for Tuesday etc. Press [1] to select the weekday. Press [E] to confirm.
[COOLING TIME] [FROM] [TO]	Using 0 to 9 enter the hours and minutes. Press [E] to confirm.
[TEMP1/ STAT/ DUR.]	The current chilled zone temperature is displayed STAT stands for chiller unit status. An empty rectangle indicates that refrigeration unit is switched off. A full rectangle indicates that refrigeration unit is switched on. DUR. = compressor run time since last switched on.

Food version	
→ 6C	Vending machine is cooling down
← 6C	Temperature increasing in vending machine
£ 0.00 x T6C READY TO USE	The refrigeration chain has been interrupted, the temperature in the cool zone is too high. Remove products and press the red button for at least 20 seconds.
SORRY SOLD OUT TEMP. TOO HIGH	If a customer selects a product which is not sufficiently chilled, the vending machine prevents the product being dispensed.

8.6 [TEST VEND] M3

- The selected product is dispensed free of charge and recorded in the statistics memory as a test vend.
- If the vending machine is filled, the selected product will be dispensed.
- If a test vend is performed with a money card, the amount will not be debited from the card.

TEST VEND MODE	
[PLEASE SELECT]	Using numbers 0 to 9, enter the required selection and press [E] to enter

8.7 [SHOW STATISTICS] M4

- In the menu [SHOW STATISTICS] the sales statistics are displayed. These vend statistics can be used to stock product appropriately.
- If a [SECURITY CODE] has been entered, the statistics may be deleted by the operator via [CODE A].
- All non-zero values are displayed.
- The statistics are not actually deleted until the next vend.

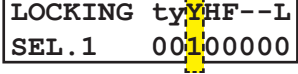
Show Statistics	
[MACHINE NUMBER]	The vending machine number is displayed.
[CASH]	Cash is displayed.
[SALES]	The number of sales made is displayed.
[CASHBOX CONT.]	The cashbox content is displayed.
[TUBES CONT.]	The tubes content for the coin mechanism is displayed.
[TEST VEND]	The number of test vends made is displayed.
[yes=1, no=0] [DELETE STATS]	Press [1] to delete the short-term statistics. Press [E] to confirm.

8.8 [SHOW FULL STAT] M5

The [SHOW FULL STAT] menu shows sales since the vending machine was first commissioned. Full statistics cannot be cleared.

8.9 [PROG. TIME/LOCKS] M6

Locking times are flexible. The whole vending machine can be in operation or just individual selection buttons. In total, 4 locking times can be set.

PROG. TIME/LOCKS		
[TIME]	Use 0 to 9 to enter the time. Press [E] to confirm.	
[DATE]	Use 0 to 9 to enter the date. Press [E] to confirm.	
[off/on/time =0-2] [ILLUMINATION ?]	[off] the illumination is permanently switched off [on] the illumination is permanently switched on [time] the illumination is time-controlled	
[AUTO SET?]	Press [1] to accept the standard settings.	
[yes=1, no=0] [LOCKING?]	[0] Locking times not activated, vending machine is always operational. [1] Locking times activated, vending machine is locked out at specific times	
[AUTO SET?]	Press [1] to accept the standard settings.	
[LOCKING 4321] [MO ACTIV : 1111]	The 4 locking times are shown as activated in the diagram on the left [1]. To change; use numbers 0 and 1. A four-digit number must always be entered. A 0 under locking time no. 4 means: Locking time not activated. Press [E] to move to the next weekday.	
[LOCKING zjJHF--S] [SELECTION10 1111111]	Here you have the option of linking selection key functions with off-times. An eight-digit number must be entered. 0 = locking time not activated; 1 = locking time activated.	
	z coupled with 1	Deactivates age verification for this selection during locking time 1
	z coupled with 0	Age verification not time-dependent
	j coupled with 1	If this option is selected, the lower age is checked (usually 16 years) if the age verification function is switched on
	j coupled with 0	If this option is selected, the higher age is checked (usually 18 years) if the age verification function is switched on
	J coupled with 1	Age verification function switched off for this selection
	J coupled with 0	Age verification function switched on for this selection
	H coupled with 1	During locking time, this selection is sold at Happy Hour Price.
	F coupled with 1	During locking time, this selection is set to free vend.
	S coupled with 1	During locking time, this selection is locked.

See also: Age verification function

[INSTALLATION] - [VENDING MACHINE] - [AGE VERIFICATION]

See also: Happy hour

[INSTALLATION] - [CREDIT SYSTEM] - [HAPPY HOUR]

8.10 [INSTALLATION] M7

Vending machine parameters are programmed in the [INSTALLATION] menu. There are 7 sub-menus.

No.	Sub-menu	Note
1	[> VENDING MACHINE]	Basic vending machine settings that affect dialogue with the user, e.g. language, age verification, locking codes, etc.
2	[> COOLING CONTROL]	Switches fresh food monitors on and off
3	[> CREDIT SYSTEM]	General settings for money changers, card systems and banknote readers
4	[> READOUT]	Configuration and statistical data readout
5	[> COIN MECHANISM]	Relates to the coin mechanism settings
6	[> CARD SYSTEM]	Settings for payment systems made by e.g. microtronic®, fage® coges®
7	[> BANKNOTES]	Relates to settings on the banknote reader

[> VENDING MACHINE]	
[LANGUAGE]	Press [1] to change the language for text messages, press [E] to enter.
[CURRENCY]	Currency belonging to the country
[EXT. PROFILE]	The profile to be used is specified here. [EXPERT], [USER 0], [USER 1]
[AGE VERIFICATION]	[None] The age verification function of the vending machine is deactivated. [active] The age verification function of the vending machine is activated. For this purpose a document reader must be connected.
[VARIANT(1)]	The variant must be set in accordance with your vending machine version (see sticker on the inside of the vending machine). The control board needs to know what the configuration is. SN48 , 8 shelves, FS03 SN48 2T, 6 shelves, LM02 SN48 2T, 7 shelves, LM39
[FREE VEND MODE(1)]	If the sale is only to be accessible to specific customers (e.g. hotel foyer), the free vend mode can be switched on. Before making a selection the four-digit [FREE VEND CODE] must be entered. [FREE VEND TIME] is when goods are dispensed once the free vend code has been entered
[EXT. SERIAL. 5.2]	Set the readout function for vending machine data. [HMI] or [readout]
[MACHINE NUMBER]	The vending machine can be given its own vending machine number
[MACHINE NUMBER]	The serial number is located on the vending machine identification plate.
[PCB-SERIAL NUMBER]	PCB = <u>P</u> rinted <u>C</u> ircuit <u>B</u> oard (circuit board) Nothing can be changed.
[SECURITY CODE]	Managing the access to menus / access rights;
[CODE A IS:]	Enter password;
[SECURITY CODE]	See "8.10.1 Password request (locking code)" on page 36
[CODE B IS:]	
[Tel. No. DC]	DC stands for data centre. The vending machine dials this number automatically. Telemetry connection is required for this.
[IN CASE OF DEF. TEL.]	If a fault occurs this number is shown to the customer in the display.
[SHOW TEMPERATURE]	With [yes] the cool zone temperature is shown in the display.
[TIME to DELIV.]	This is the time that the dispense outlet is open for the customer to remove the product.
ESCROW MOTOR (1)	[with] if the customer presses the refund button, the refund motor turns and prevents a possible jam.
[2 TEMP.SENS (1)]	Second chiller unit in auxiliary vending machines. Set to [no] here.

[> VENDING MACHINE]	
[LIGHT BARRIER (1)]	The light barrier in the dispense outlet recognises when a product has fallen.
[STORE EMPTY (1)]	[no] default [yes] If this setting is made, the control unit records the number of the shelf from which no product could be vended. If a customer selects the same number again to purchase a product [SORRY SOLD OUT] is shown.
[SHELF DETECT (1)]	[off] default (does not apply to this vending machine)
[HELIX STOP]	[Only by motor SW.] The spiral stops when the final position is reached. [by MotSW or LB] (LB stands for light barrier (light grid)) The spiral stops after reaching the limit switches. Or even if the limit switch has not yet been reached, if the light grid has been interrupted in the dispense outlet.
[HELIX MODE]	These settings only have an effect if [By MotSW or LB] is programmed under [HELIX STOP]. [Light barrier] The motor switch is ignored and the spiral continues to rotate for a maximum of 4 seconds. If the light grid has not been interrupted, the display shows [SORRY SOLD OUT] is shown. [Single turn] The spiral stops when the limit switch is reached or the light grid in the dispense outlet has been interrupted, whichever occurs first.
[PROMOTION RUN]	Does not apply to this vending machine.
[OPEN DOOR LIGHTS]	[on] LED-product illumination is on when the door is open.

[> COOLING CONTROL]	
[TEMP. MONITORING] [SHELF 1: 0]	The respective shelf can be switched on and off using the number button [1]. If 1 is set, fresh food monitoring is switched on. If 0 is set, it is switched off. Shelf 1 is on the top, shelf 6 at the bottom.

[> CREDIT SYSTEM]	
[CREDIT SYSTEM]	The communication protocol is set here. [Free Vend] - [BDV] - [Executive] - [BDV dual] - [MDB] - [Key system] - [MDB+EXEC] - [MDB+BDV]
[CRED. CONFIG.]	Setting the configuration for the coin mechanism automatically or manually. Some of the following fields appear only if you enter [MAN.CONFIG]. Refer to coin mechanism instructions.
[VEND MODE]	[NO CHANGE/SINGLE] After a coin has been inserted, at least one product must be purchased before coins are refunded. [CHANGE/SINGLE] Single vend: In the case of over-payment refunding is automatic following product selection. [CHANGE/MULTI] Refund: No product has to be purchased; coins are refunded if the process is aborted. In this setting, the vending machine may be misused as a coin mechanism (coin changer).
[ESCROW AUTOM.]	Refers to change given in coins [off] (default) [on] requirement: [CHANGE + MULTI] or [NO CHANGE + MULTI] is set in [VEND MODE]. Change is automatically dispensed (without pressing the refund button) as soon as the credit is lower than the amount set under [max. RETURN].
[HAPPY HOUR}	[off] (default) The function is deactivated. If you set [HAPPY HOUR] to [on], various selections can be sold at a different price during a specified time. The cash price and the Happy-Hour price are entered in the [PROGRAMMING MODE] menu [M1]. The Happy-Hour time and the selections it applies to are set in the [PROG. TIME/LOCKS] menu [M6].

[> CREDIT SYSTEM]	
[PRESEL. TIME]	During the time specified it is possible to make a selection before inserting coins. The selection remains until money is inserted. If 0 is set, money must first of all be inserted, then a selection made so that a vend can take place.
[CLEAR CREDIT]	180 s (default) This function enables an additional waiting time to be entered whilst non-returnable change is still displayed, before it is finally deleted. This might be required for contactless card payment systems, where the card is debited with the amount and it only turns out afterwards that the product requested cannot be dispensed. The time entered here gives the customer the option of reversing the charge by presenting their contactless card to the vending machine again.
[SESSION TIMEOUT]	For some card payment systems [CREDIT SYSTEM] instead of [VMC] must be programmed here.
[BLOCK CHANGE]	[from 255 coins] [CHANGE BLOCKED] can be set to prevent the vending machine from being used as a coin changer. The limit for changing can be set from 0 to 255 coins, where only the number of coins inserted are counted and not their value. Even if the [VEND MODE] is set to no change, the vending machine will change inserted coins up to the lowest sales price.
[EXEC VEND RETRY]	This value defines the number of retries for sales requests if the EXEC-changer does not respond.
[CASH SALE]	[MDB 42] (default) The Cash Sale command operates in accordance with the MDB 4.2 version.
[CORRECT CHANGE]	[automatic] (default) [EXACT MONEY] is shown in the display if there are insufficient or no coins available. For cashless payment systems, the display [EXACT MONEY] is suppressed with [never]

[> READOUT]	
[PROTOCOL]	[EVA-DTS] (default) Data transfer protocol between vending machine control board and payment system. [DEX/UCS]
[EVA-DTS VERSION]	[6.0 (5.x, 4.x)] (default) EVA-DTS Version setting.
[IRDA Adapter]	IRDA = Infrared interface [IRDA] EVA-DTS Data is downloaded via the integrated IRDA interface. [Cable] This setting is required if, for example, a DEX/UCS interface can be connected to the display and it will be used to read out EVA-DTS data.
[EVA/DTS SEL.No.]	You can determine how the selection numbers are reported to MDB here and in EVA-DTS. This setting has no effect on vending machines with selection numbers starting with 1. [starts with 1] (default) The lowest selection number in the vending machine is 1. [starts with 10] The number being transmitted is the one shown as the selection number on the dispense outlet.
[DDCMP BAUDRATE]	[AUTO] Infrared interface transmission speed.
[EXT. SERIAL 5.2]	Program vending machine data export function. [HMI] Export using HMI protocol [READOUT] Export using downloading devices.
[EXT.READOUT PROT]	[DDCMP] Export using DDCMP protocol [DEX/UCS] This protocol is only required if a display with DEX/UCS interface is connected. The vending machine must subsequently be restarted.
[CGW REPORTS]	[no] (default) Is only necessary if online modules compatible to "Verbose" are to be installed. Sielaff uses FTL mode for data transfer, which includes additional information on the NAMA standard Verbose.
[INTERVAL DT. CTL.]	(only when using EVA-DTS 6.1 Standard) [automatic] Once the statistics have been downloaded, they are deleted when the next vend is made (as before). [do not delete] The statistics are not deleted after downloading. Deletion must be started via IR.
[INTERVAL EV. CTL.]	(only when using EVA-DTS 6.1 Standard) [automatic] The errors are deleted once they have been read out and when the next vend is made (as before). [do not delete] The errors are not deleted after downloading. Deletion must be started via IR.
[DTS data select]	Fields can be switched on and off individually. The definition of the fields is described in the EVA-DTS specification. Fields: PA2 - PA3 - PA4 - PA5 - PA6 - PA7 - PA8 [on] Transfer is enabled. [off] The transmission of the corresponding field (e.g. PA8) is suppressed.

[> COIN MECHANISM]	
[TUBE FILL LEVEL]	[Coin mechanism] (default) Tube fill level is not counted by the control board, but by the coin mechanism. The tube level transmitted by the coin mechanism is what should be available for coin return. Please note that transmitting the tube level from the coin mechanism to the control board can take up to one minute.
[ALT. PAYOUT]	[on] The coin mechanism decides how the change is returned. For example, 20 cents can be returned as 2 x €0.10 or 1 x €0.20 or 4 x €0.05. [off] The control board determines how the change is returned. The number of coins dispensed is kept to a minimum.
[COIN 1 DIS.: GA] [COIN 16 dis.: GA] COIN 1 dis.: GE 0.05 0T:000	The coin can be disabled by linking keys 0 and 1. Its value (0.05 corresponds to 5 cents) and the number of coins in the tube or in the cashbox is displayed. Meaning of the letters: G - disabled, A - paid 0T - no coins in the tube 0C - no coins in the cashbox 00 The coin is always accepted. 10 The coin is generally not accepted. 01 The coin will not be accepted if [CORRECT CHANGE] is displayed.
[TOKEN 1 VALUE]	If the coin mechanism accepts tokens, you can program the values for up to three different tokens here.
[LIMIT COINS]	The minimum number of coins to the value shown that must remain in the coin mechanism is entered using the number keys. Using these settings the coin mechanism is filled or emptied in M9 [TUBE INVENT.] menu.
[HOPPER 1 VALUE]	The value of up to three hoppers can be entered here.
TUBES EMPTY INFO]	If the refund tubes are empty according to the logic link that is programmed here, the following message is indicated in the display [CORRECT CHANGE]. A → Tube with the lowest coin denomination
[BLOCK CHANGE]	[from 255 coins] [CHANGE BLOCKED] can be set to prevent the vending machine from being used as a coin changer. The limit for changing can be set from 0 to 255 coins, where only the number of coins inserted are counted and not their value. Even if the [VEND MODE] is set to no change, the vending machine will change inserted coins up to the lowest sales price.
[CORRECT CHANGE]	[automatic] (default) [EXACT MONEY] is shown in the display if there are insufficient or no coins available. For cashless payment systems, the display [EXACT MONEY] is suppressed with [never]

**NOTE**

Menu options [CHANGE BLOCKED] AND [CORRECT CHANGE] are also in the [CREDIT SYSTEM] menu; they interact with each other.

[> CARD SYSTEM]	
[ALWAYS IDLE]	For contactless card readers. [off] The card must be held against the contactless card reader at the same time as the product selection is being made. [on] Pre-selection of a product using contactless card readers is possible.
[PRICE LISTS]	This function depends on the card reader being used. [off] Price lists are disabled. [on] Two different prices for one selection can be entered here. The two prices are set in the [PROGRAMMING MODE] menu. This function can also be used for price lines in BDV/Executive. With this function, the prices are stored in the coin mechanism and the price line corresponding to the selection must be programmed on the control board.
[REVALUE]	Revalue = top up onto a card. This function depends on the card reader being used. [on] The amount inserted is credited onto the card. For this purpose, the card must be inserted before the money.
[MIXED PAYMENT]	[on] Mixed payment is possible (e.g. coins and card).
[MDB CARD 2]	[on] if a second card reader is connected.
[P.LIST / READER]	[L1+L2 -> all] Both price lists are valid for card 1 and card 2. [L1->R1/L2 ->R] Price list 1 is valid for card 1, price list 2 is valid for card 2.
[MIXED PAYM. PRICE]	[cash price] The [CASH PRICE] entered in the [PROGRAMMING MODE] menu is used. [cashless PL] The price entered in the [PROGRAMMING MODE] menu is used for the corresponding [PRICELIST 1] or [PRICELIST 2].
[MDB-comp.mode]	[standard] Most credit systems work in this mode. [b. practice] (best practice) Additional information is transmitted in this mode. It is required mainly for future applications. Some credit systems already work in this mode.
[REFUND FAILURE]	How the vending machine is to react if an error occurs during product delivery is programmed here. [CLEAR CREDIT] this is the standard setting. The credit is deleted. [USE AS CASH] The amount is topped up on a card or key when it is allowed to do so by the card reader and [REVALUE] is set to [on]. If no card reader is connected, the amount is converted into cash. The credit remains for the amount of time programmed in [CREDIT LOST] in sub-menu [CREDIT SYSTEM].
[MDB ITEM NUMBERS]	Defines how selection number data is transmitted in Vend Request and other MDB commands. [Hex value] default. [BCD] Selection numbers are transmitted BCD-coded. Some card systems require this coding.
[CARD REMOVAL]	[before vend] The card can be removed before product delivery. [after vend] The card can only be removed after product delivery.
[CASH SALE]	MDB 42 (default) The Cash Sale command operates in accordance with the MDB 4.2 version.
[EVA/DTS SEL.No.]	You can determine how the selection numbers are reported to MDB here and in EVA-DTS. This setting has no effect on vending machines with selection numbers starting with 1. [starts with 1] (default) The lowest selection number in the vending machine is 1. [starts with 10] The number being transmitted is the one shown as the selection number on the dispense outlet.

[> BANKNOTES]	
[ESCROW]	Only with banknote readers: This function affects the method of refund if a vend fails. The banknote is held so that it can still be returned if necessary. [hold] If a vend fails the last banknote is returned. [stack] This means the banknote is stacked and the value is paid out in coins. Stack means that the cassette is stacked with notes.
[BANKNOTE 1 dis.:HG]	The banknote can be blocked by linking keys 0 and 1. Its value (5.00 corresponds to 5 Euro) and the number of notes is displayed. Meaning of the letters: [H] high security (high level of accuracy) [G] blocked OT = no coins in the tube OC = no coins in the cashbox [00] The banknote is always accepted. [10] The banknote is checked with a higher level of accuracy. [01] The banknote is not accepted.

8.10.1 Password request (locking code)

- To prevent unauthorised programming, the menus can be assigned a security code. The security codes are structured hierarchically.
- [CODE A] provides the lowest access level. It unlocks the [COOLING], [TEST VENDS] [SHOW STATISTICS] and [SHOW FULL STAT] menus. Code A is intended for personnel filling the vending machine.
- [CODE B] unlocks the [PROGRAMMING MODE], [SHOW FULL STAT], [PROG.TIME/LOCKS], [INSTALLING MODE] and [SERVICE MODE] menus.
- If you enter [CODE B], even if [CODE A] is requested, all menus can be accessed. The security codes can be freely selected from 0 to 9999.
- If [CODE A] is entered, [CODE B] has to also be entered. However, both codes can be the same.

SECURITY CODE CODE A IS: 0	Security code is set here i.e. programmed
CODE A ----	A menu locked using [CODE A] or [CODE B] requires the relevant code to be entered to obtain access. The digits are not displayed. After entering the code, press [E] to confirm.

8.11 [SERVICE MODE] M8

- [SERVICE MODE] provides support for locating errors and vending machine maintenance.
- Various functions can be tested and the coin mechanism emptied.
- The so-called service numbers are identified in the table below.

Procedure

1. Press [M] [8] [E] in sequence

→ [Serv.Number 0]

2. Press [2] [1] [L] in succession to display the software version installed.

→ The software version is shown in the display.

3. Press [L] and [M] together.

→ This exits the menu

Service number	Display
1 – 85M	Checking the spiral containers
90M – 99M	Checking the bottle chutes
101 - 103M	Empty individual coins from the tubes of a 3-tube coin mechanism; if there are still coins in the tubes these must be removed using the coin mechanism service keypad. The information about which coin is assigned to which tube is shown on the identification plate on the coin mechanism.
105 - 109M	Empty single coins from the tubes of a 4- or 5-tube coin mechanism
111 – 113M	Empty all coins from the tubes of a 3-tube coin mechanism
115 – 119M	empty all coins from the tubes of a 4- or 5-tube coin mechanism
201M	Checking the chiller unit; Do not carry out this test several times in succession, because the compressor will no longer start against the pressure build-up.
202M	Check heater
203M	Check illumination
204M	Check evaporator fan
214M	Configuration reset; the containers are assigned to the motors in accordance with the vending machine type entered.
1L	Processor voltage display
5L	Check temperature and temperature sensor If a temperature of 99°C is displayed, the sensor or the lead from the control board is faulty. The reason could be a short-circuit or break.
21L	Software version display
22L	Control board run-time display
24L	The compressor run time is displayed in hours and minutes
29L	Display shows password entered
91L	Display shows all active MDB equipment

8.12 [TUBE INVENTORY] M9

In the [TUBE INVENT.] menu the individual tubes in the coin mechanism can be filled in accordance with number of coins set in [LIMIT COINS]. In addition, the coin mechanism can be completely emptied.

Fill tubes to limit

1. Press [M] [9] [E] in sequence

→ [Tubes EUR] [FILL TO LIMIT]

2. Insert coins until the corresponding notification appears

→ The coin mechanism is ready to use

✓ The coin mechanism has been filled.

Empty all tubes

1. Press [M] [9] [E] in sequence

→ [Tubes EUR] [FILL TO LIMIT]

2. Press [M]

→ [EMPTY ALL TUBES]

3. Press [M]

→ [EMPTY ALL TUBES/ARE YOU SURE?]

4. Press [M]

→ The coin mechanism dispenses all coins.

✓ The tubes are empty.

9. Storage, decommissioning, permanent shutdown and disposal

Storage

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

Remove products and leave the vending machine door ajar to allow moisture to escape.

Decommissioning

The vending machine can be taken out of operation temporarily.

- Remove the mains plug from the socket.
- Remove the products.
- Leave the vending machine door ajar
- For details of how to recommission the vending machine, see: Commissioning.

Permanent shutdown

When the vending machine has reached the end of its service life, it is decommissioned:

- If necessary, delete personal data from the vending machine.
- Remove the mains plug from the socket.
- Remove the mains cable.
- Remove and properly dispose of the batteries.

Disposal

For proper disposal of the vending machine, please contact our customer service department on +49 9825 - 18 31 5108.

You can send the vending machine to the manufacturer (Herrieden headquarters, Germany) at your own expense. The manufacturer will ensure that it is properly disposed of.

If you so wish, you can ask the manufacturer to provide details of appropriate waste management companies so that you can arrange its disposal yourself.



This symbol means that the marked product must not be disposed of together with household waste at the end of its life. Instead, it must be separated and taken to a collection point for the relevant type of waste. Details may differ in your country.

10. Maintenance schedule

To keep unplanned vending machine downtime to an absolute minimum, we recommend adhering to the following maintenance schedule. Depending on the ambient conditions at the installation site, it may be necessary to adjust the maintenance intervals.

Every 30,000 vends - at the latest every 12 months

Housing, machine door

OK	Component	Additional equipment	Action/procedure
	Secure vending stand		Check
	Vending machine exterior	Cleaning and care products	Clean
	Vending machine door closes properly		Check
	Safety glass	Glass cleaner	Clean
	Bearing studs, machine door top and bottom	998 90 023 00	Lubricate
	Door seal, entire circumference		Check, clean and – if necessary – maintain
	Hook bar	998 90 023 00	Lubricate
	Bearing axle, locking pin		Lubricate
	Lock	According to manufacturer specifications	Lubricate
	Product lighting		Check
	Min 2.8V back-up battery for control board	Voltmeter	Check

Drawer

OK	Component	Additional equipment	Action/procedure
	Price/selection sign legibility		Check
	Interior of the drawer	Rinsing water	Clean
	Snap-in function of the drawer		Check

Payment system

OK	Component	Additional equipment	Action/procedure
	Coin mechanism (optional)		According to manufacturer specifications
	Card reader (optional)		According to manufacturer specifications
	Banknote reader (optional)		According to manufacturer specifications

Dispense outlet

OK	Component	Additional equipment	Action/procedure
	Dispense outlet flap, freedom of movement		Check
	Light grid (optional)	Flashing mode green LED at 0.5 seconds cycle / red box	Check

Cooling

OK	Component	Additional equipment	Action/procedure
	Compressor	Brush, compressed air	Clean
	Condenser	Brush, compressed air	Clean
	Base plate ventilation slots		Clean
	Seals and sealing strips		Check
	Plugs and connections		Check
	Fan	Brush, compressed air	Clean
	Gas sensor (no damage visible)		Check
	Gas inlet on the gas sensor: Dust, dirt, moisture deposits	Brush, cloth	Clean
	Activate self-test		Check
	Test gas sensor with test gas	Test gas	Check

On request

OK	Component	Additional equipment	Action/procedure
	Electrical routine check in accordance with VDE 0701		Carry out

11. Technical data

The identification plate is located inside the housing at the top right and is visible when the door is open.

Type	SN 48
Selections	Max. 48
Drawers	6
Dimensions (H x W x D)	1830 x 880 x 840 mm
Door and seals removed for transport through narrow doors: Dimensions (H x W x D)	1830 x 880 x 785 mm
Weight [kg]	265
Electrical connection	220-230 V; 50/60 Hz; 10 A
Power consumption [W]	See identification plate
On-site fuse protection	10A (Characteristic B)
On-site electrical connection	Protective earthed sockets (installed in accordance with VDE)
Ambient temperature	+16°C to +32°C

A-weighted emission sound pressure level at the workplace

$$L_{pA} < 70 \text{ dB}$$

Uncertainty

$$K_{pA} = 6 \text{ dB}$$

The values were determined in accordance with EN 60335-2-75:2004+A1:2005+A11:2006+A2:2008+A12:2010 in conjunction with EN ISO 11202:2010.

NOTE: The sum of the noise emission value and the associated uncertainty represents an upper limit of the values that can occur during measurements.

Information on Regulation (EU) No 517/2014

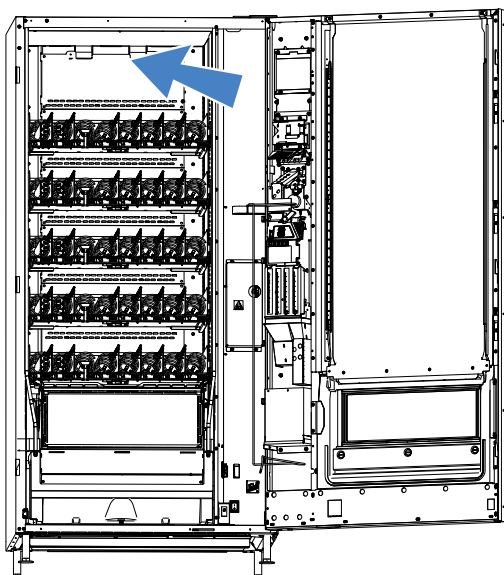
Cooling	Power	Refrigerant	Filling quantity	GWP	CO2 equivalent
SKA 415 ¹	400 W	R290	130 g	3	0.00039 t
SKA 705 ¹	650 W	R290	150 g	3	0.00045 t

¹) Contains propane gas, C3H8 in a hermetically sealed device

12. CENELEC measurement

Procedure:

1. Open the vending machine door
2. Remove the top drawer



3. Unhook the bracket and printed circuit board from the rear panel

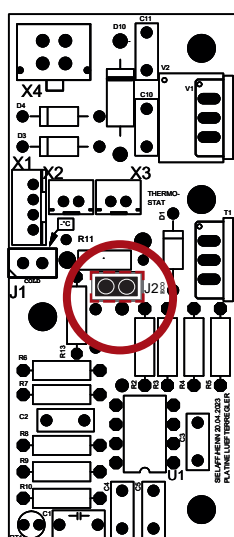


4. To perform a Cenelec measurement, change the jumper from J2 to J1 COLD.
5. Reattach the bracket and printed circuit board.

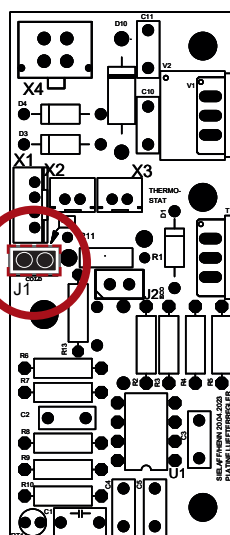
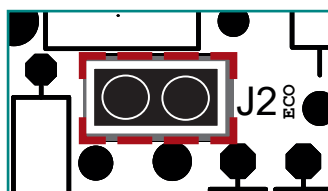
✓ The Cenelec measurement can now be performed

Note:

Once measurement is complete, return the jumper to J2 ECO.

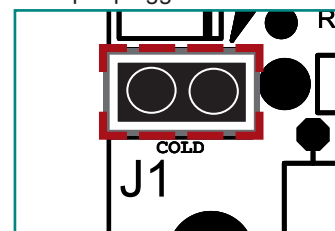


ECO



COLD

Jumper plugged into J1 COLD:



13. Index

C

Cash box	10
Check evaporator fan	38
Check heater	38
Check illumination	38
Check spiral chutes	38
Check temperature sensor	38
Cleaning exterior surfaces.....	23
Cleaning the seals.....	23
Coin return.....	10
Control board.....	10

D

Delete error.....	27
Display error history.....	27
Display password	38
Display software version.....	38
Display the run time of the compressor.....	38
Door contact switch	10

E

Enter password.....	37
EVA cutout	10

M

M1 PROGRAMMING MODE.....	27
M2 Cooling	28
M3 TEST VEND	29
M4 SHOW STATISTICS	29
M5 SHOW FULL STAT	29
M6 PROG. TIME/LOCKS	30
M7 INSTALLATION	31
M8 SERVICE MODE	38
M9 TUBE INVENTORY	39
Machine door.....	21
Main switch.....	10
Maintenance safety checks	24
Max. drawer weight	20
Menu selection	25

P

POS.....	10
Product holder	13
Product retainer swing.....	13
Pulling out the drawers	21

R

Reading out vending machine errors.....	27
Refund button.....	10
Reinforced drawer	20

S

Safety	7
Safety checks	24
Security code.....	37
Select age verification function.....	31
Service keypad	10, 25
Show errors	27

T

Temporary decommissioning.....	16
Transport	16
Tube inventory	39

W

Wall fixing	11
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EU/EC Declaration of Conformity for Machines

Sielaff GmbH & Co. KG
Automatenbau Herrieden
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 ecodesign requirements for energy-related products and on 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: Confectionery machine

Machine Type: SÜ ... / FS ... / SN

EU/EC directives applicable:

EC machinery directive: 2006/42/EC

The following standards also apply:

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 +
 A14:2019 + A2:2019

EU directive to electromagnetic compatibility: 2014/30/EU

The following standards also apply:

EN 55011:2016 + A1:2017 + A11:2020

EN 55014-1:2017 + A11:2020

EN 55014-2:2015

EN 61000-3-2:2014

EN 61000-3-3:2013

EN 62233:2008

EC directive ecodesign: 2009/125/EC

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:

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Aufkleber für Seriennummer

Aufkleber für Typenschild

Herrieden, 02.01.2024
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