

Operating instructions Spectra X



Read the operating instructions and the chapter on safety instructions before working on the machine. Keep the operating instructions near the appliance.



Operating instructions Spectra X



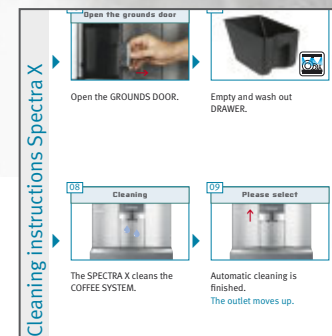
Read the operating instructions and the chapter on safety instructions before working on the machine. Keep the operating instructions near the appliance.



Short instructions for Spectra X



Read the operating instructions and the chapter on safety instructions before working on the machine. Keep the operating instructions and these short instructions near the appliance.



Dear customer

You have chosen a Spectra filter coffee machine. We are very grateful for the trust that you have placed in us.

The Spectra is an efficient and space-saving filter coffee machine. It matches your requirements perfectly. This will inspire keenness in your customers. You will be able to provide coffee specialities quickly, individually tailored and of high quality.

We hope that you are very pleased with your Spectra and that your customers will be highly satisfied at all times.

Yours, FRANKE Kaffeemaschinen AG

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What the symbols mean



DANGER

The signal word DANGER means potentially lethal danger from electric shock.



WARNING

The signal word WARNING means potential injury whilst handling the appliance.

CAUTION

The signal word CAUTION means potential damage to the appliance.

NOTE

The signal word NOTE identifies notes.



The information sign marks further information and tips. This rounds off the current subject.



Reference to another point in the text or another document.

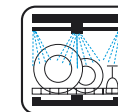


KEY

Representation of a function key.
Example: ● CLEAN



Representation of an action prompt through the display. This element appears with a graphic illustration. It shows only the relevant display section.



Identifies appliance parts that can be put in the dishwasher.

For your safety

Both you and the Spectra are important to us. This is why we are giving you detailed safety information. It goes without saying that we consider a high level of safety most important. Guard against any remaining operational dangers.

Correct use and foreseeable incorrect use

Spectra X

The Spectra X is a filter coffee machine for use in catering. Depending on appliance configuration, it is suitable for processing whole coffee beans and instant coffee.

Spectra X is solely for serving coffee drinks and hot water subject to observance of these instructions and the technical data.

Cup warmer (Option)

The cup warmer is an optional add-on unit for Spectra coffee machines. It is solely for preheating coffee cups and glasses that are required for preparing drinks.

The cup warmer is not suitable for drying dishcloths or other cloths. For cups to be warmed, they need not be covered.

Important

Do not use the Spectra X and your add-on units until you have read and understood these instructions in their entirety. Keep the instructions handy near your Spectra.

All persons operating the Spectra X are required to have read and understood the instructions. This does not apply to self-service customers. Self-service machines must be attended to at all times in the interests of user protection.

Pass on the operating instructions to subsequent users if the Spectra is sold or handed on.



Should you require further information or should particular problems arise which cannot be solved by consulting these instructions, ask for the necessary information from your local customer services partner or directly from FRANKE Kaffeemaschinen AG in Aarburg.

General dangers that could arise when using Spectra X and its add-on units.



DANGER

Potential fatality from electric shock!

- ◆ **Never operate an appliance that has damaged parts or a damaged mains connection.**
- ◆ **If you detect any symptoms of damage (e.g. a smell of burning), unplug appliance immediately from the mains and consult your service engineer.**

If the mains cable of this appliance is damaged, then it must be replaced by a special connection lead.

- ◆ **Only allow a qualified service engineer to change the mains connection lead.**
- ◆ **Ensure that the appliance and the mains cable are not near hot surfaces, such as a gas- or electric cooker or oven.**
- ◆ **Ensure that the mains cable is not pinched or chafes against sharp edges. The appliance contains live parts. Opening the appliance is potentially lethal.**
- ◆ **Never open and repair the appliance yourself. Do not make any modifications to the appliance that are not described in the operating instructions of the appliance.**
- ◆ **Allow repairs to be undertaken only by a service engineer with original spare parts and original accessories.**



WARNING

Risk of eye injury, injury in general and destruction.

Any objects in the bean- or ground coffee container or in the grinding mechanism can cause splinters to shoot out, resulting in damage to the machine or in injury.

- ◆ **Do not put any objects into the bean container, ground coffee container or into the grinding mechanism.**
- ◆ **Never poke around with an object in the bean container, the ground coffee container or in the grinding mechanism.**



WARNING

Risk of injury!

When reaching into the Spectra X, the internal machine parts could cause pinching and grazing.

- ◆ **Open the Spectra X if daily operations so require (for cleaning the internal chamber and for emptying the coffee ground container).**
- ◆ **When Spectra X is open, work with care.**
- ◆ **Opening Spectra X for other purposes may only be done by service personnel.**



WARNING
Stale coffee residue poses a health risk!

Irregular cleaning can cause milk- and coffee residue to build up in the machine, clog the outlets or get into the products.

- ◆ **Clean Spectra X and the add-on units at least once a day.**
- ◆ **Read the chapter “Cleaning and rinsing”!**



WARNING
Danger of burning!

Product service, hot water service and steam service become hot.

- ◆ **Do not touch the outlets.**

The bases of the cup warmer are hot.

- ◆ **Do not touch the bases.**



WARNING
Danger of scalding!

During both automatic cleaning and manual cleaning, hot water and steam will always be output.

- ◆ **Keep away from the outlets whilst cleaning is in progress.**

The products themselves are capable of causing scalding whilst being served.

- ◆ **Handle hot drinks with care!**

CAUTION
Damage from objects!

Do not poke around in the manual-feed hopper, and do not put in any objects other than cleaning tablets.

- ◆ **Do not insert any objects.**
- ◆ **Do not poke any object into the manual-feed hopper, nor put in anything other than cleaning tablets or ground coffee.**

CAUTION
Damage resulting from water jets!

The Spectra X is not protected from water jets.

- ◆ **When cleaning, avoid water jets or high-pressure cleaners.**
- ◆ **Read the chapter “Cleaning and rinsing”!**

CAUTION
Damage to the appliance!

- ◆ **Place appliance out of the reach of children.**
- ◆ **Protect appliance from weather such as rain, frost or direct sunshine.**

The mains cable cause people to trip up, or can be damaged.

- ◆ **Never allow mains cable to dangle freely.**

Extent of order and identification

The Spectra is a quick-change artist. The many options enable you to keep a clear head in any situation. This section will tell you how you can identify your appliances and what comes as standard.

Extent of order



Spectra X

Basic version add-on units are obtainable from your FRANKE partner.



Cleaning tablets

For careful cleaning of the coffee system.

Item no. 1H 325 600



Cleaning brush

For cleaning the brewing unit.

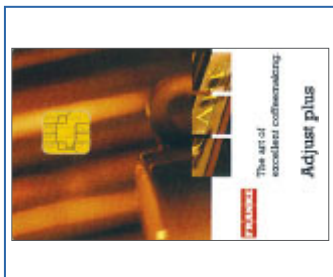
Item no. 1L 301 160



Cleaning brushes

For cleaning of the outlet system.

Item no. 1H 325,981



Adjust plus card

For programming and data security of the Spectra.

Item no. 1H 325,161



Operating instructions

Operating instruction X
Short instructions X
Cleaning instructions X

Item no. 1H 325 890

Item no. 1H 325 902

Item no. 1H 325 914

Additional manuals can be downloaded from the Internet.

www.franke-cs.com



Microfibre cloth

For careful cleaning of the outer surfaces of appliance.

Item no. 1H 325,974



Depending on configuration of appliances, details of your Spectra may differ. Note your purchase agreement. Additional accessories are obtainable from your dealer or from FRANKE Kaffee-maschinen AG in Aarburg.

Identification

Type plate Spectra X

CE		FRANKE	
		Kaffeemaschinen AG CH-4663 Aarburg	
Inst. Nr:	AK4-xxx xxx		
Typ:	X B 1P H		
Nr:	36.2.00.00001		
Spannung:	400 V 3L N PE		
Frequenz:	50 / 60 Hz		
Leistung:	9200 W		
Absicherung:	16 A		
Boiler:	Kaffee	Heißwasser	
Wasserinhalt:	1.7lt.	1.2lt.	
Betriebsdruck:	1000kPa	200kPa	

Manufacturer

Identification key

Model (see below for key to models)

Appliance no.

36 denotes year of construction (2006), the
3 denotes the millennium, the 6 the year.

Electrical connection details

Power ratings of boilers

Type plate for cup warmer

CE		FRANKE	
		Kaffeemaschinen AG CH-4663 Aarburg	
Inst. Nr:	AK4-xxx xxx		
Typ:	TW Spectra		
Nr:	36.1.00.00001		
Spannung:	200-240 V ~		
Frequenz:	50 / 60 Hz		
Leistung:	300 W		
Absicherung:	10 A		

Location of type plates



Identification key

Identification key	Appliance part
X	Spectra X (S and I are part of the family)
B	Basic operating unit (T: Touch operating unit V: Vetro operating unit)
1P	Ground powder dosage unit (1M: variant with a grinder)
H	Hot water outlet
TW	Cup warmer (Option)

Description of appliance

By choosing the Spectra X, you have opted for a quick-change artist. Here, you can learn more about the functions and options of your Spectra X and where the control elements are located.

Spectra X and add-on units

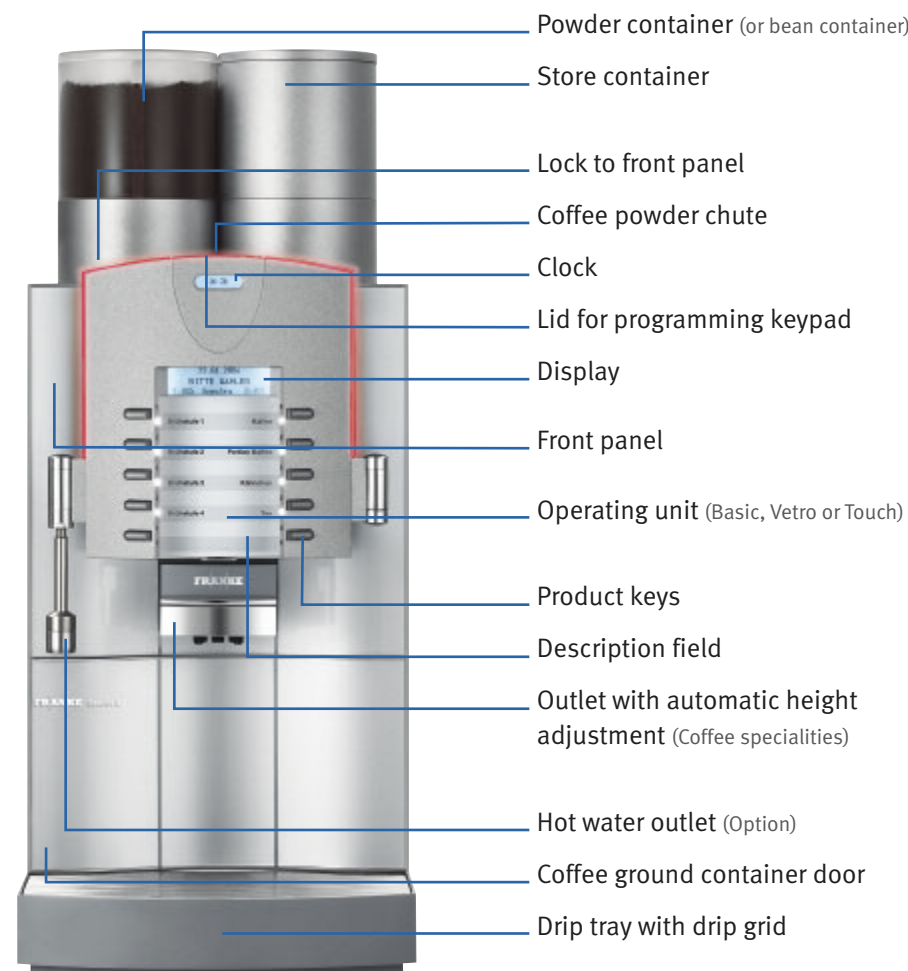
The Spectra X comes with numerous options. So that you get an overview of your appliance, allow us at this point to set out an exemplary configuration and several options.

You become familiar with Spectra X with its operating elements, just as you do the cup warmer.

Note that your Spectra X may differ in appearance depending on configuration.

Performance data of the Spectra X

Speciality	Hourly output
Cafe crème	300 cups
Hot water	150 glasses





Basic

The basic operating element.
It is provided as a standard
variant.

You can call up as many as eighteen products conveniently and quickly.

You can configure the keys freely.



Vetro

The Vetro operating element is designed especially for self-service.

You can display up to eight products.

The keys can be configured individually.



Touch

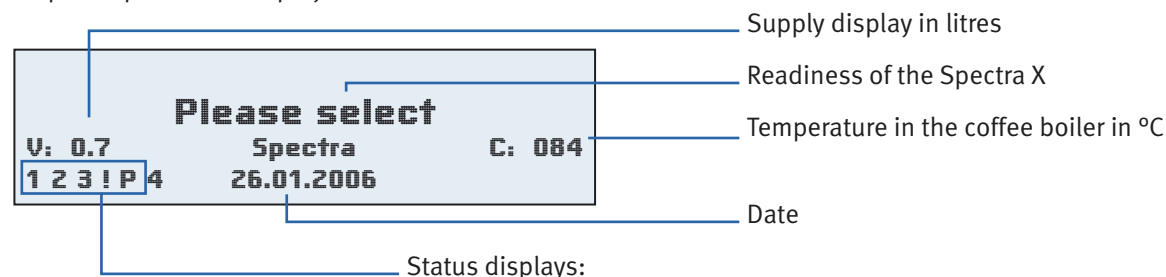
Another version is the touch screen. It is operated by direct touch.

It is possible to display each one of the forty possible products in graphic form in any size. The displays can be freely selected.

 See page 22

Standard output of the display

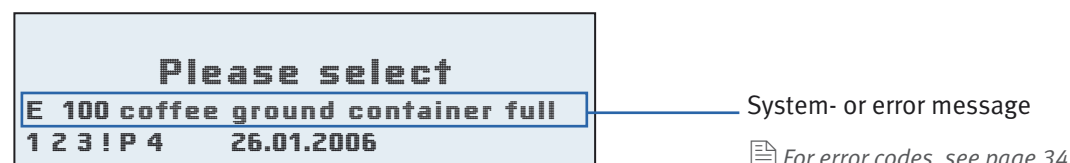
Important status information in addition to the next operating steps or options are displayed.



- 1: Heating coffee boiler switched on
2: Heating 1 Hot water boiler switched on
3: Heating 2 Hot water boiler switched on
!: Hot water boiler: level absent
P: Water pump running
4: Heating for store container switched on

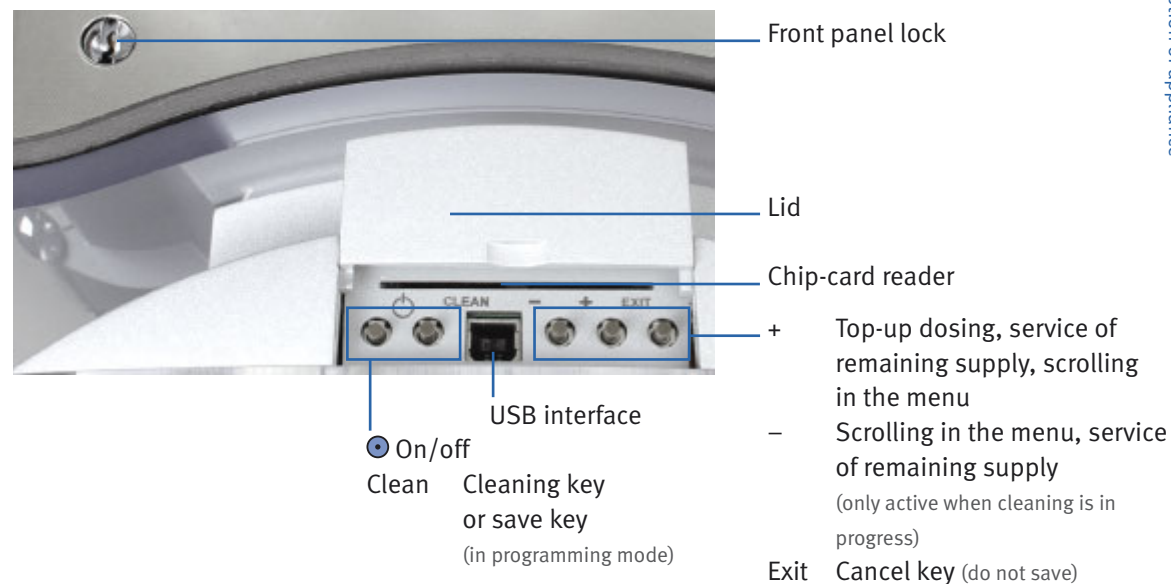
Display with system- or error messages

The display indicates system- or error messages alternately with the information presented in the second line.



Programming keypad

The programming keypad allows on/off switching of your Spectra, activation of cleaning or rinsing. You can also programme your Spectra individually with the Adjust plus card. The chip-card reader allows you to save the programmed settings on the Adjust plus card.



Cup warmer (Option)

For best results with your coffee, preheated cups are needed. The cup warmer will fit seamlessly to your Spectra X.

On/off switch

Drip tray with drip grid

Installation and technical data

For proper operation of your Spectra, it must be installed by an expert – this will be done for you by one of our service engineers. You will need to make a few preparations – these are the prerequisites for impeccable pleasure with your Spectra.

Installation

Preparations

- ◆ The mains connection for the Spectra X must be safeguarded using an offset current safety switch.
- ◆ Each pole of the mains supply must be capable of isolation through a switch.
- ◆ The water connection must have a stop valve with a non-return valve and filter, and must comply with the standards set down in the technical specifications.
- ◆ The water for coffee preparation must always be fresh, contain oxygen and be rich in minerals.
- ◆ If you use a Spectra X with an electrical connection other than that described in the adjacent table, then you have obtained further information on installation together with your order confirmation.

Installation

All preparatory work must be completed before our engineer installs the Spectra X on your premises.

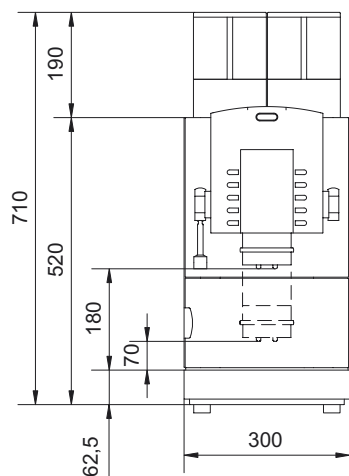
One of our engineers will install the Spectra X and will commission it for the first time. He will train you in basic functions.

Technical specifications of the Spectra X

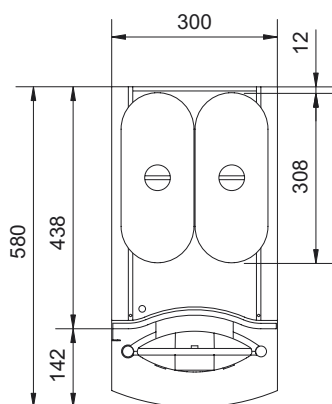
Dosing unit for ground coffee	2.0 kg (Option: can be locked)				
Bean container	1.2 kg (Option: can be locked) (instead of ground coffee dosing unit)				
Coffee ground container	approx. 50 cakes (Option: pats ejection)				
Boiler capacity	Coffee/Hot water 1.7 litres at 5.6 kW				
Power connection	200–240 V	1 L N PE	4.5–5.9 kW	30 A	50/60 Hz
(depending on appliance configuration)	200–240 V	3 L PE	4.5–5.9 kW	16 A	50/60 Hz
	200–240 V	3 L PE	7.0–9.2 kW	16 A	50/60 Hz
	400 V	3 L N PE	5.9 kW	16 A	50/60 Hz
	400 V	3 L N PE	9.2 kW	16 A	50/60 Hz
Power cable	l = 1500 mm				
Water feeding	Metal hose with union nut G3/8", l = 1500 mm				
Cold water connection	G3/8" outer thread				
Water pressure	80 to 600 kPa (0.8 to 6.0 bar)				
Stop valve	with non-return valve and filter				
Water hardness	max. 70 mg CaO/l water (7 dH, 13°fH)				
Chlorine content	max. 100 mg/l				
Ideal PH-value	7				
Drain hose	d = 16 mm, l = 2000 mm				
	not fixed (aerated), fitted to drain				
Funnel	d = 50 mm with siphon				
Drain tube	d _{min} = 1"				
Ambient conditions	Air humidity: max. 80 %				
	Ambient temperature: 10–35 °C				
Noise emission	< 70 dB(A)				
Weight	46–50 kg (depending on version)				

Dimensions of Spectra X

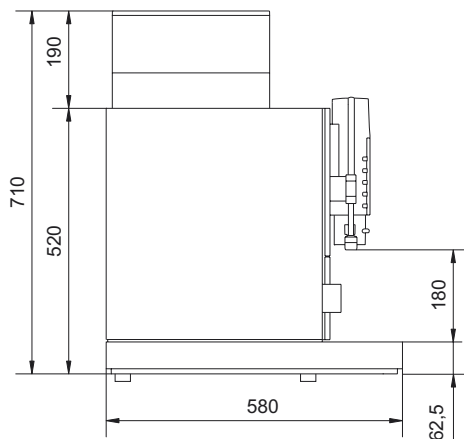
Front view



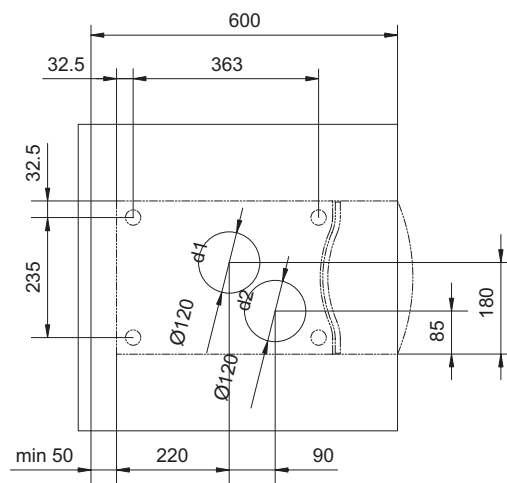
Top view



Side view



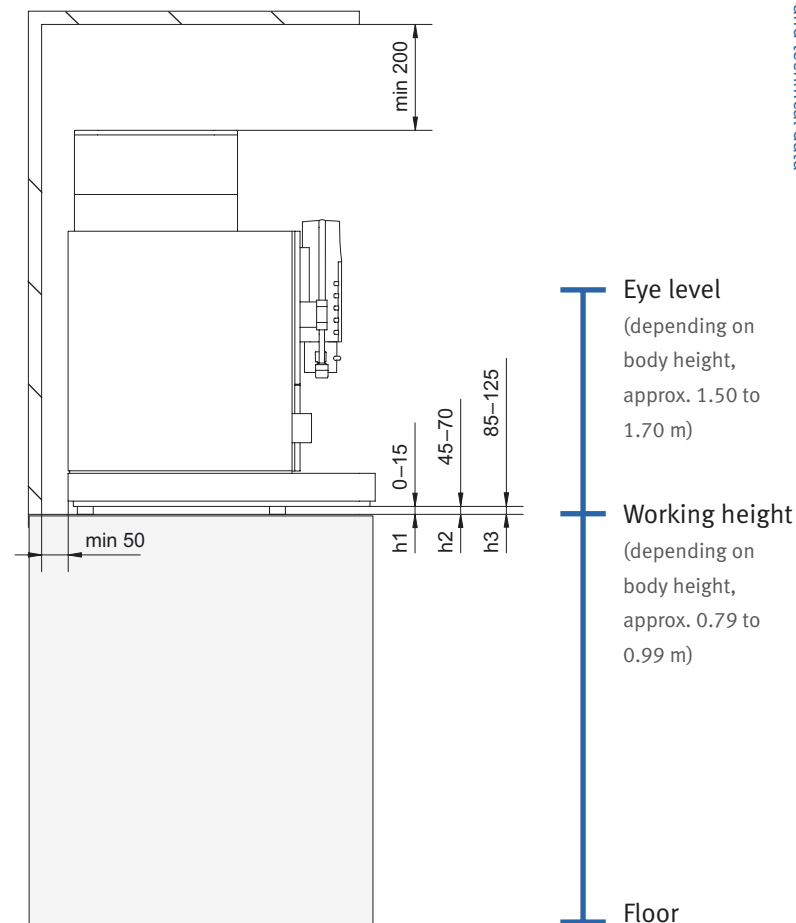
Top-view section (sideboard aperture)



Adjustable feet (Option)

Standard adjustable foot	$h1 = 710 \text{ mm} + 0-15 \text{ mm} = 710-725 \text{ mm}$
Plastic adjustable foot	$h2 = 710 \text{ mm} + 45-70 \text{ mm} = 755-780 \text{ mm}$
Metal adjustable foot	$h3 = 710 \text{ mm} + 85-125 \text{ mm} = 795-835 \text{ mm}$

Installation dimensions of Spectra X



Ensure that appliance is located on an ergonomic and stable surface (able to support min.: 150 kg). The operating unit should be at eye level.

Minimum distance to the wall is 50 mm. Headroom must be at least 200 mm.

Thanks to the adjustable feet, surface irregularities or height differences can be evened out.

With add-on units, at least 300 mm width per add-on unit is needed. Note the connection conditions of the add-on units.

See the following pages.

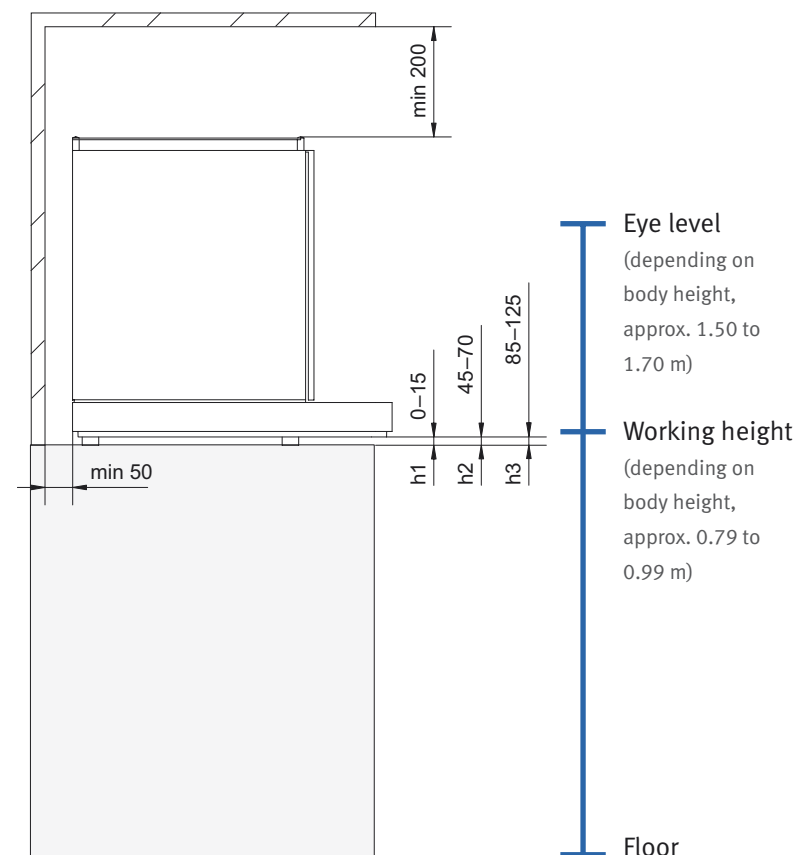
Technical specifications of the cup warmer

Capacity	up to 120 cups (depending on cup size)
Power connection	200–240 V 1 L N PE 300 W 10 A 50/60 Hz
Power cable	l = 2000 mm
Drain hose	d = 16 mm, l = 2000 mm
	not fixed (aerated), fitted to drain
Funnel	d = 50 mm mit Siphon
Drain tube	d _{min} = 1"
Weight	17 kg
Width	300 mm
Depth	580 mm
Height	545 mm
Sideboard aperture	d ₁ = 120 mm

Adjustable feet (Option)

Standard adjustable foot	$h_1 = 710 \text{ mm} + 0\text{--}15 \text{ mm} = 710\text{--}725 \text{ mm}$
Plastic adjustable foot	$h_2 = 710 \text{ mm} + 45\text{--}70 \text{ mm} = 755\text{--}780 \text{ mm}$
Metal adjustable foot	$h_3 = 710 \text{ mm} + 85\text{--}125 \text{ mm} = 795\text{--}835 \text{ mm}$

Installation dimensions of the add-on units



Line up add-on units with the Spectra X and position at eye level.

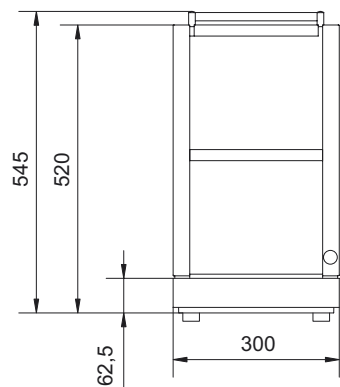
Minimum distance to the wall is 50 mm. Headroom must be at least 200 mm liegen.

Thanks to the adjustable feet, surface irregularities or height differences can be evened out.

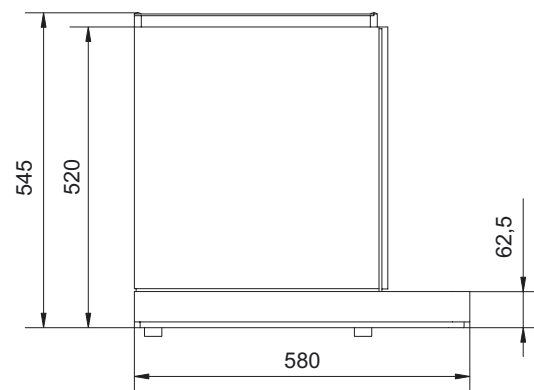
A minimum of 300 mm width between each add-on unit is needed.

Cup warmer dimensions

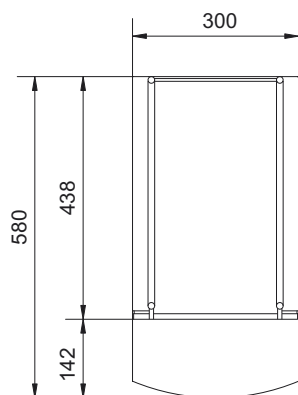
Front view



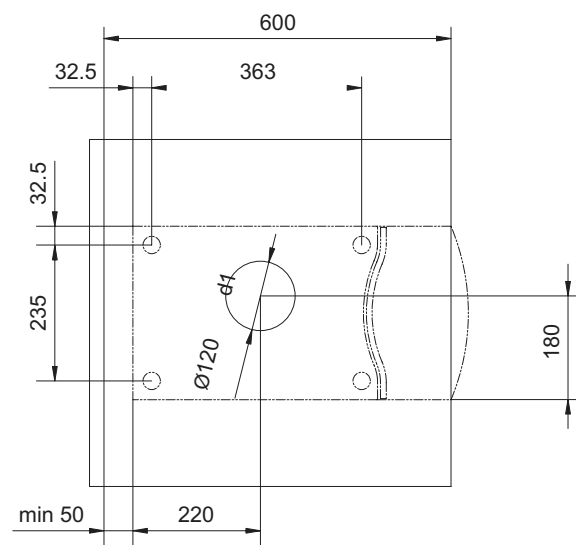
Side view



Top view



Top-view section (sideboard aperture)



Commissioning, filling and emptying

This chapter shows you how to operate your Spectra. Addition to the switching-on procedure, information is also provided about automatic processes whilst using for the first time and about further preparatory work. Be well equipped for a day when plenty of customers come.

Daily operation of the Spectra X



01 ON/OFF switching of SPECTRA X.



WARNING
Danger of scalding

through hot water and spraying.
Do not touch the outlets, nor below them.

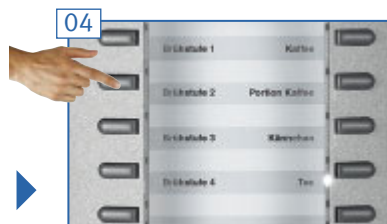


02 When heating up, the SPECTRA X automatically de-aerates the BOILER SYSTEM and automatically rinses the COFFEE SYSTEM.



03 Fill with ground coffee or coffee beans.

continue



04 Select a BREWING LEVEL.



05 The SPECTRA X prepares filter coffee. The coffee is kept warm in the STORE CONTAINER.



06 The LED of the selectable products glow. The SPECTRA X is ready to use.

NOTE

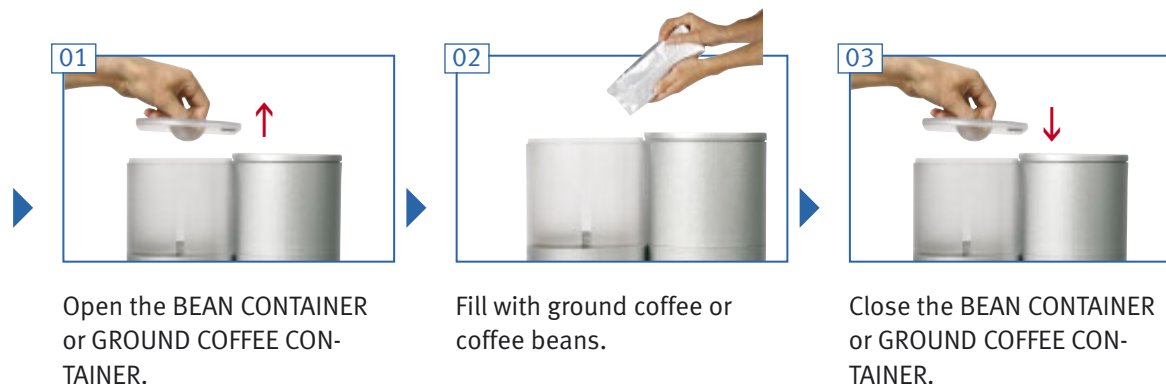
For serving filter coffee, select a brewing level. The basic setting of Spectra X has preset 4 brewing levels. Filter coffee is pre-brewed in amounts of 0–2 litres and kept warm in the store container.

Filling Spectra X



WARNING
Risk of eye injury, injury in general
and destruction.

Do not put any objects into the bean container, ground coffee container or into the grinding mechanism.
Never poke around with an object in the bean container, the ground coffee container or in the grinding mechanism.



Emptying the Spectra X

Emptying the coffee ground container

CAUTION

Mould formation from coffee residue.
Empty and clean the coffee ground container at least once a day.



Emptying the store container



WARNING
Danger of scalding

through hot water and spraying.

Do not touch the outlets, nor below them.



If the brewing level is selected (LED glows).
Switch off brewing level by pressing.

LED goes out.



• + hold down until no more coffee is served from outlet.

Serving products

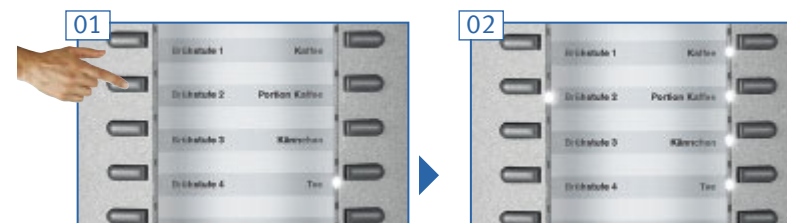
You have decided on the Spectra because you love coffee and you promise your customers special enjoyment. You will find here all information on serving products and the possible variations of your speciality products.

Select a brewing level

NOTE

In order to select filter coffee, you will need to have already selected a brewing level. By selecting the brewing level you switch on the brewing level. By selecting again you switch off. You can select another brewing level at any time.

Selection of the brewing level can be barred at any time. Consult your service engineer or contact directly FRANKE Kaffeemaschinen AG in Aarburg.



Select a brewing level.

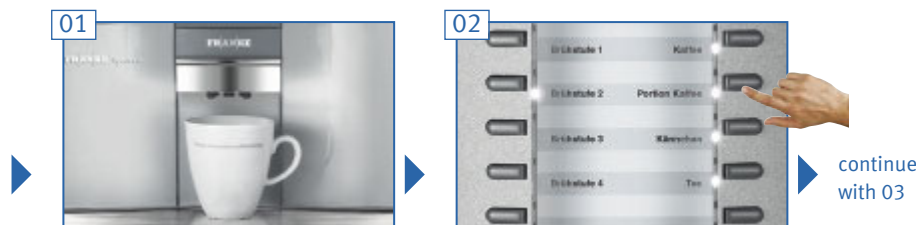
The LED of the selectable products glow. The SPECTRA X is ready to use.

Serving products via the basic operating unit



WARNING
Danger of scalding and burning!

Product outlet and products are hot.
Only touch outlets at insulated handles. Do not touch under the outlets.
Where scalding or burning occurs, cool immediately, and depending on the severity of injury, seek medical help.

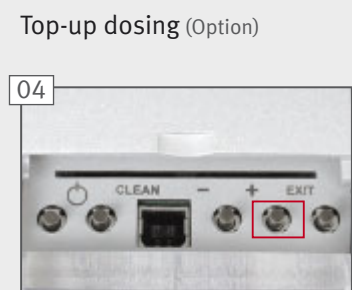


Place a suitable cup or bowl under the OUTLET.

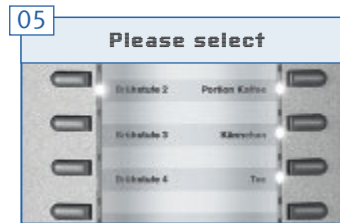
Press PRODUCT KEY.
Preparation starts.



The OUTLET moves down, and the LED of the product selected begins flashing.



See top-up dosing on page 23.



The LED of the selectable products glow. The product is prepared.

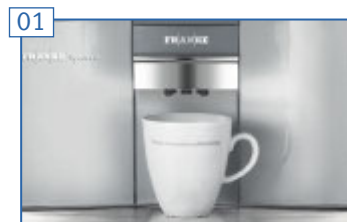
Serving products via the Vetro operating unit (Variant)



WARNING
Danger of
scalding and burning!

Product outlet and products are hot.

Only touch outlets at insulated handles. Do not touch under the outlets.



Place a suitable bowl under the OUTLET.



Press PRODUCT KEY.
Preparation starts.



The OUTLET moves down, and the LED of the product selected begins flashing.



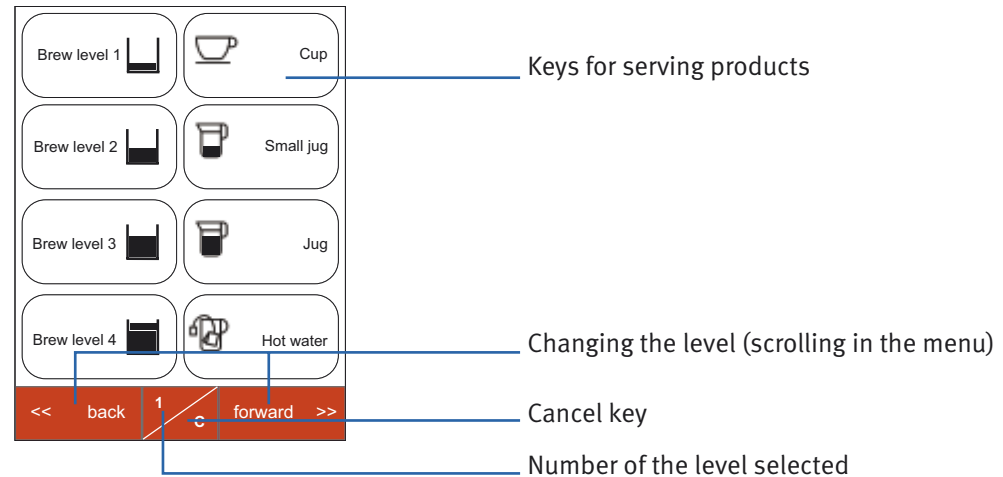
The LED of the selectable products glow. The product is prepared.

Serving products via the Touchoperating unit (Variant)

NOTE

The basic principle of serving products is identical to both other operating units.

Additional types of display are obtainable upon request. Consult your service engineer or contact directly FRANKE Kaffeemaschinen AG in Aarburg.



Top-up dosing



Press + and hold down until desired quantity of coffee has been served.



Coffee is served from STORE CONTAINER.

Hot water outlet



WARNING
Danger of
scalding and burning!

Product outlet and products are hot.

Only touch outlets at insulated handles. Do not touch under the outlets.



Place a suitable cup or glass under the OUTLET.

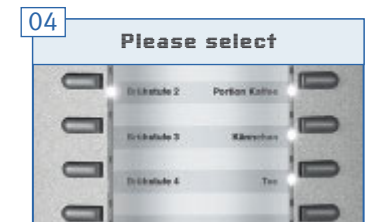


Press PRODUCT KEY for hot water.

Preparation starts.



The LED of the product selected starts flashing.



The LED of the selectable products glow. The product is prepared.

Cleaning

Even a coffee machine like Spectra must be cleaned at least once a day to ensure optimum enjoyment. In the interests of time-saving for you, we have developed ARCS® (Automatic Rinse & Cleaning System). With this, cleaning lasts only approx. 20 minutes.

Cleaning the filter coffee system

ACCESSORIES REQUIRED

CLEANING TABLETS
MICRO FIBRE CLOTH
CLEANING BRUSH



Press ● CLEAN for 3 seconds.
SPECTRA X changes to cleaning mode.



WARNING
Danger of scalding

from hot water.
Do not touch the outlets, nor below them.



Press ● +. The REMAINING SUPPLY is discharged through the OUTLET. Or, press ● +/- . The REMAINING SUPPLY is discharged through the DRAIN TUBE.

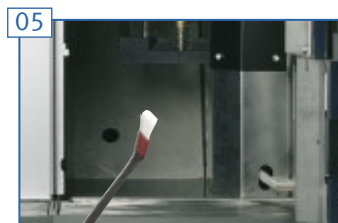
continue with 03



Open the GROUNDS DOOR.



Empty and wash out COFFEE GROUND CONTAINER.



Clean INTERIOR CHAMBER using the BRUSH.
Insert the COFFEE GROUND CONTAINER and close the DOOR.



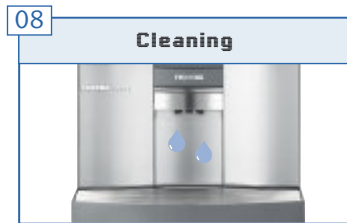
Open COFFEE POWDER CHUTE and place in a CLEANING TABLET.

continue with 07



Close COFFEE POWDER CHUTE.
Press ● Clean.

OUTLET moves to the cleaning position.



The SPECTRA X cleans the COFFEE SYSTEM.



Automatic cleaning is finished.

The outlet moves up.



Clean the DRIP GRID and the DRIP TRAYS.

Clean COFFEE OUTLET as required.

 See page 26



Clean the Spectra X and add-on units with a damp microfibre cloth. Do not use scouring agents.

Cleaning the coffee outlet



OUTLET SYSTEM



FOAMER



LOWER PART OF OUTLET

NOTE

Clean outlet system regularly to maintain the consistently high quality of the Spectra X.

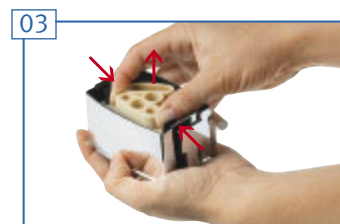


Switch SPECTRA X to standby-mode.

Press ON/OFF.



Unlock OUTLET SYSTEM on both sides and pull down.



Press lock of FOAMING UNIT with thumb and index finger outwards.



Remove FOAMER UNIT, clean both parts and dry.

continue with 05



Insert the FOAMING UNIT with the nozzles downwards into the LOWER PART OF THE OUTLET and lock.

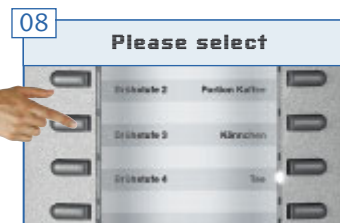


Insert the OUTLET UNIT and lock.

The OUTLET SYSTEM engages.



Press ON/OFF.



Select a brewing level.

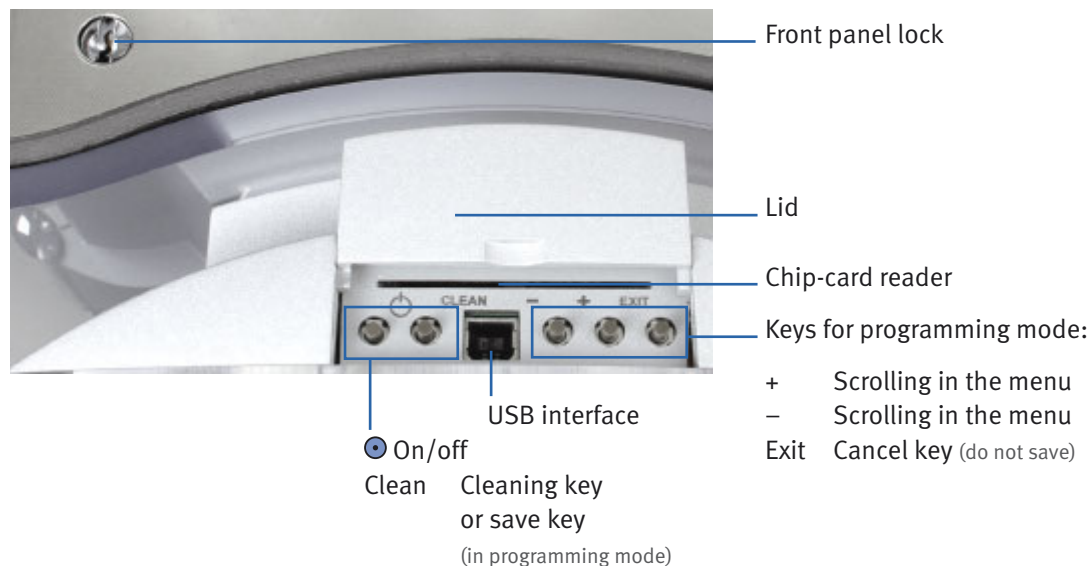
The SPECTRA X is ready to use.

Configuring the Spectra X

Your Spectra can be programmed in a completely individual manner – so that the Spectra is just as flexible as you are. We have kept programming simple so as to make your work easy. Try it.

Operating panels

Programming keypad



Adjust plus card



You need the Adjust plus card for:

- Machine operation (Access restriction)
- Changing parameters
- Securing the settings

Navigating in the menu

Insert the Adjust plus card in the card reader.

[Menu appears.](#)

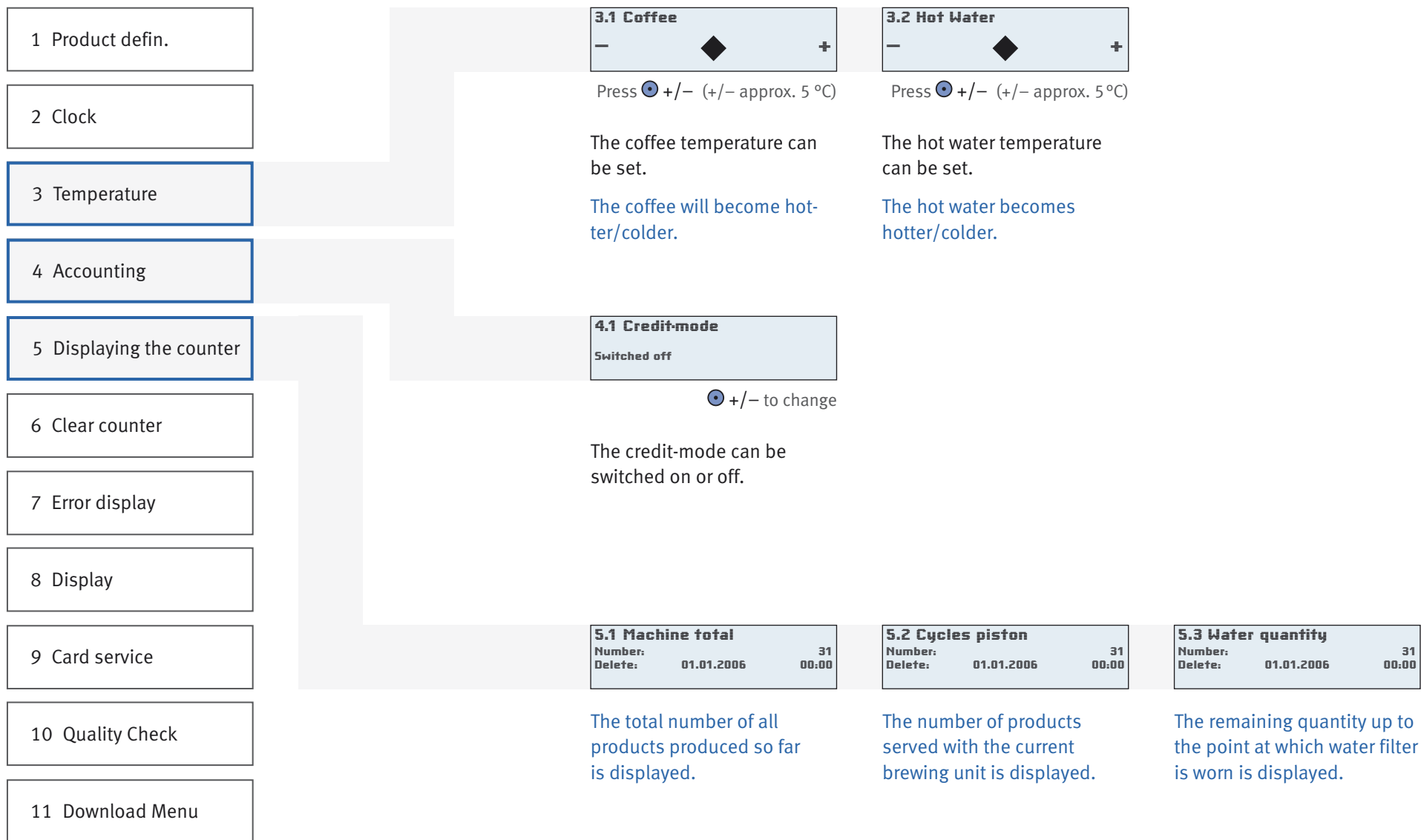
You can move through the menu by pressing **+** **-**. **CLEAN** enables you to select an option, and pressing **EXIT** allows you to quit an option, without saving the selection.

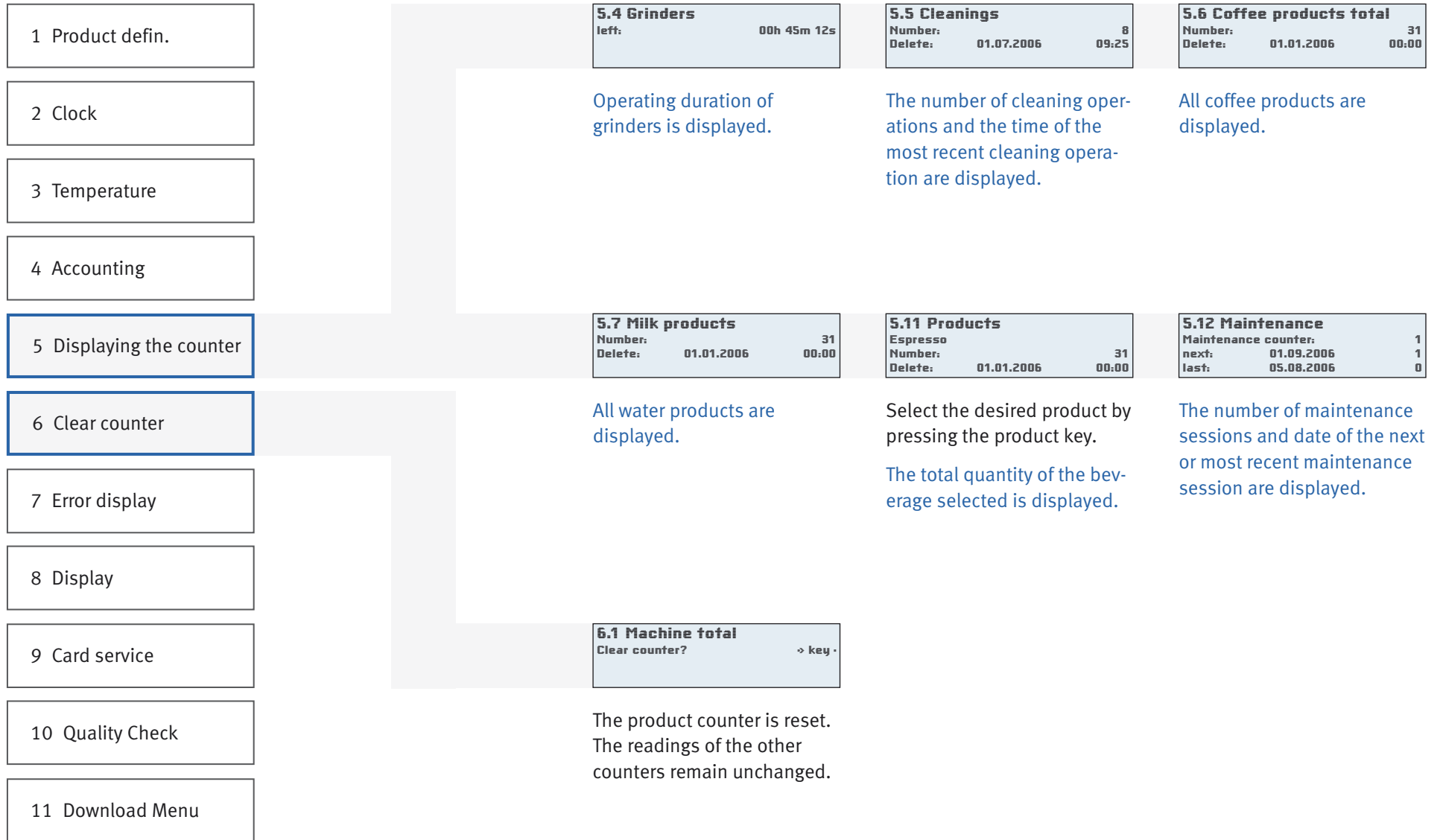


The following pages show all menu items for programming. Depending on the configuration of your Spectra, individual menu points can be absent.

Programming structure in detail

1 Product defin.	Change your products settings. You can control and determine via various parameters the quality and quantity of your products. To make settings, you need to select a products under 1.1 Selection.	1 Product defin. 1.1 Selection  Press product key to select product to be changed. Selected product flashes.	1.2 Fill level coffee  Press  +/- (+/- approx. 50 ml) Set water quantity of coffee. The coffee becomes stronger/weaker.	1.12 Fill Level HotWater  Press  +/- (+/- approx. 4 s) Changing the filling quantity of hot water. More/less water runs out.
2 Clock				
3 Temperature				
4 Accounting				
5 Displaying the counter				
6 Clear counter		2.2 Date/Time t: 20 m: 08 j: 2006 h: 09 m: 45	2.3 Timer function 1 05:30 On 12:00 Off MTWTFSS	2.4 Timer function 2 06:00:00 On 20:00:00 Off MTWTFSS
7 Error display		You can set the date and time of the clock. You can navigate the menu by pressing  CLEAN and change the values by pressing  +/-I.	Setting the switch-on time. Setting the switch-off time. Selecting the day of the week. Time function is set.	Setting the switch-on time. Setting the switch-off time. Selecting the day of the week. Time function is set.
8 Display				
9 Card service				
10 Quality Check		2.5 Timer function 3 07:00:00 On 24:00 Off MTWTFSS	2.6 Timer function 4 08:00:00 On 22:00:00 Off MTWTFSS	
11 Download Menu		Setting the switch-on time. Setting the switch-off time. Selecting the day of the week. Time function is set.	Setting the switch-on time. Setting the switch-off time. Selecting the day of the week. Time function is set.	





- 1 Product defin.
- 2 Clock
- 3 Temperature
- 4 Accounting
- 5 Displaying the counter
- 6 Clear counter
- 7 Error display
- 8 Display
- 9 Card service
- 10 Quality Check
- 11 Download Menu

7.1 Load error list
E xxx: 01.08.2006 14:35
q

The most recent 1000 errors can be read.

Pressing  CLEAN takes you to the next page or the next error message.

8.1 Language
Deutsch

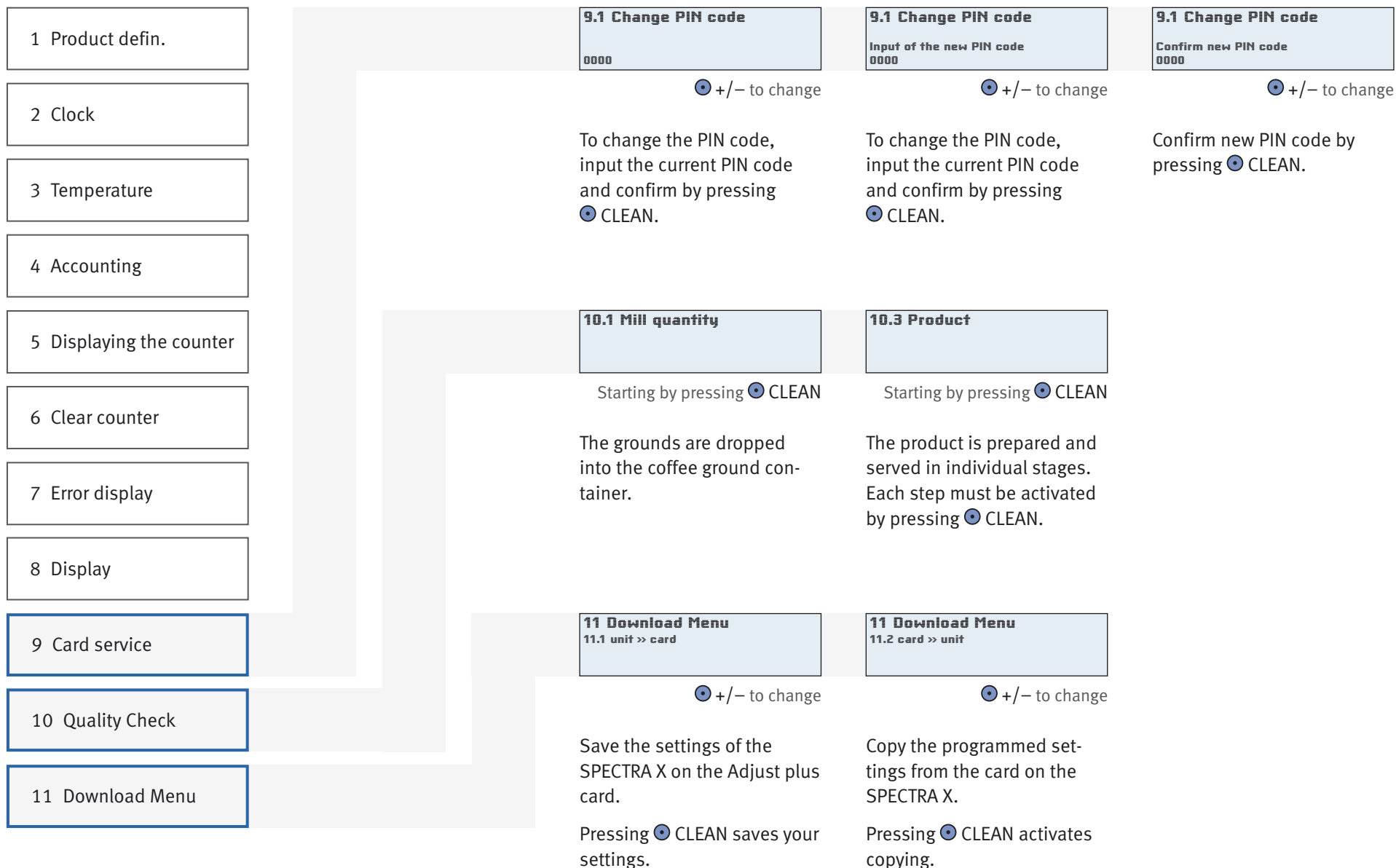
 +/- to change

Select the desired machine language. Confirm your selection by pressing  CLEAN.

8.2 Display
—  +

 +/- to change

Set the brightness of the display.



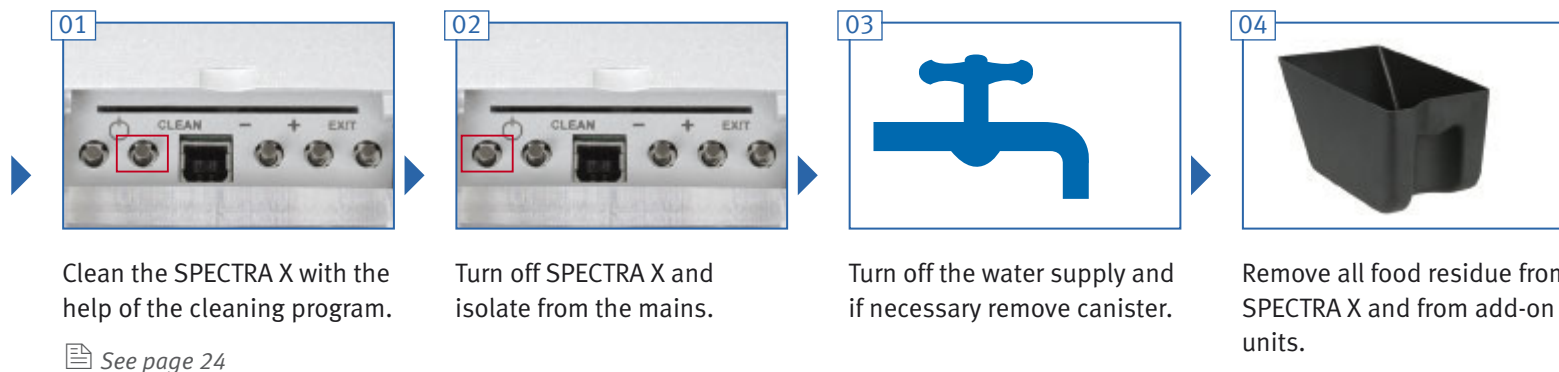
Decommissioning, disposal

Would you like to take your Spectra out of service for a prolonged period or dispose of it? Consult our service department. We undertake virtually 100 %, recycling of our coffee machines in the interests of environmental protection and resource conservation.

Decommissioning

NOTE

If Spectra is to be out of service for a more prolonged period, consult our service department for help.



Prolonged decommissioning and storage



CAUTION
Damage to machine!

Consult the FRANKE Service Team for professional storage. Note the storage conditions and have Spectra drained.

Storage temperature: +10 °C to +35 °C

Air humidity: max. 80 %

When recommissioning at a later date, it is mandatory to enlist the help of our service department. The Spectra must be serviced and installed.

Otherwise, correct functioning of Spectra is not possible.

Disposal

Disposing of consumables

When disposing of consumables and refuse, observe current regulations governing disposal.

Disposing of Spectra

You can dispose of your Spectra directly via your retailer at no extra charge. We will do the rest for you. For reasons of environmental protection, we recommend that you do not dispose of the appliance yourself.

Error search and error codes

If problems persist, your Spectra instructions will give you information. Error codes are shown with the help of the display. The table below will show you how to respond. Should you be unable to solve a problem despite trying everything, please consult your service department.

Help with machine errors

Error code	Solution
E002	Closing the coffee ground container door
E003 to E046	Restart appliance; if there is no response: contact customer service
E050 to E057	Remove Adjust plus card
E058, E059 and E061	Remove Adjust plus card, clean and try again
E060	Order a new Adjust plus card
E090 and E099	contact customer service
E100 and E101	Emptying the coffee ground container
E110 and E111	Restart appliance; select product again; if there is no response: contact customer service
E120	Fill with beans or grounds coffee, and select product again
E124	Close lid to ground coffee supply
E125	Close coffee powder chute
E126	Select next product
E160	contact customer service
E170	Fill fresh water tank, empty dirty water tank, confirm with Clean
E200 to E202	Restart appliance; if there is no response: contact customer service

Help with problems involving product quality

Coffee is tasteless

Possible causes	Solution
Grinding too coarse	Select finer grinding grade
Too little ground coffee	Increase coffee quantity
Temperature too low	Increase temperature
Coffee is stale	Store coffee correctly

Coffee tastes peculiar

Possible causes	Solution
Poor grinding	contact customer service
Low coffee consumption	Fill in small amount of coffee
Poor coffee beans	Replace coffee beans
Remnants of cleaning agent	Rinse out Spectra
Cup dirty	Check dish washer
Water (Chlorine, hardness, ...)	Have water quality checked

Coffee tastes bitter

Possible causes	Solution
Temperature too high	Reduce coffee temperature
Grinding too fine	Select coarser grade of grinding
Too little ground coffee	Increase coffee quantity
Roasting too dark	Change the coffee

Coffee tastes sour

Possible causes	Solution
Temperature too low	Increase coffee temperature
Roasting too light	Change the coffee
Grinding too coarse	Select finer grinding grade

Certifications

Safety that you can rely on. Your Spectra is not only one of the most modern coffee machines in the world. It has also passed the safety tests and tests for electromagnetic compatibility.

Preliminary declaration of conformity



FRANKE Kaffeemaschinen AG in Aarburg, certifies that Spectra X and its add-on units conform to the following standards. If you wish to view a copy of the original declaration of conformity, contact directly FRANKE Kaffeemaschinen AG, Aarburg.

Spectra X has been checked according to the following standards:

EN 60335-1, EN 60335-2-15, EN 60335-2-75

Further standards that have been incorporated:

EN 55014-1+A1+A2, EN 55014-2+A1, EN 50366+A1, EN 61000-3-2, EN 61000-3-3+A1+A2, IEC 62233, IEC 61000-3-2, IEC 61000-3-3+A1+A2, CISPR 14-1, CISPR 14-2:97+A1

The test was undertaken in accordance with the following directives:

73/23/EWG, 89/336/EWG, 93/68/EWG



Aarburg, 15.9.2006

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