



- NL Service boek
- (GB) Service book
- D Servicehandbuch
- (F) Manuel de service / maintenance



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PREFACE

Purpose of this document

This document provides directions for use and serves as a service document for **trained**, **authorised service** staff to safety install, programme and maintain this device.

- Trained, authorised service staff are considered to be those who install, programme and maintain the device, and are able to carry out repairs.

The majority of settings, including product settings, are protected by a PIN code. This PIN code ensures that users do not gain access to the service menu. It is recommended not to leave this document with the user after installation and to change the standard factory PIN code.

All sections and paragraphs are numbered. The various figures referred to in the text can be found in the figures section at the beginning of the manual or with the corresponding subjects.

Pictograms and symbols.



CAUTION General indication for: IMPORTANT, CAUTION or REMARK.

WARNING

- - -



DANGER

Danger of possible severe damage to the device or physical injury.

Warning for possible damage to the device, surroundings or environment.



DANGER Danger of electricity and voltage.



DANGER Danger of electrostatic discharge (ESD) in electronics.

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1. BASIC FUNCTIONING

- 1. Waste bin
- 2. Hot water outlet
- 3. Coffee outlet / Drink outlet (instant)
- 4. Brewer
- 5. Brewer motor

Grinder
 Bean canister

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- 8. Dispensing valves
- 9. Water reservoir
- 10. Inlet valve



Instant



Instant (OptiFresh 2 model and upwards)

- 11. Instant ingredient canisters
- 12. Canister motor
- 13. Ventilator
- 14. Evaporation extractor filter cassette
- 15. Mixer motor
- 16. Mixer impellor
- 17. Mixer housing
- 18. Evaporation extractor ring

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Fia. 1

1.1 Boiler System

Turn on the device using the ON/OFF switch. The display will light up.

The magnetic valve (fig. 1-10) will open and the hot water reservoir (fig. 1-9) will be filled to the maximum electrode. The heating element will be switched on. The display shows [boiler filling] and [boiler heating]. As soon as the NTC sensor measures the set temperature, the heating element will be switched off.

When a drink is being dispensed the water level drops and the maximum electrode is released; the inlet valve (2.5 litres/min.) opens and immediately refills the reservoir until the maximum level is reached again. If the water level falls under the minimum electrode level during operation, the operating panel display will show [refilling boiler]. If the supply of water is not restored within 90 seconds, the display will show the error message [E3 level error] and shut off the inlet valve.

1.2 Temperature regulation

The heating element is turned on when the water temperature falls below the temperature setting and the minimum electrode registers water. The temperature in the water reservoir is measured using an NTC precision sensor mounted on the outside wall of the reservoir.

The water temperature also drops when drinks are dispensed. To avoid the temperature regulator from responding too late, the heating element is switched on as soon as the inlet valve (fig. 1-10) opens and cold water is added. The heating element switches off again as soon as the inlet valve shuts off. The software can also be used to delay when the heating element switches off. See menu item 2.4 Settings / Temperature in the service menu. The heating element always switches off when the maximum boiler temperature of 99°C is reached.

1.3 Hot water dispensing

When dispensing drinks one of the dispensing valve (fig. 1-8) opens and hot water flows to the brewer or mixer system. The flow velocity for each valve is set using the adjustment screw on the valve. The amount of outflow is determined by the length of time that the valve stays open. In order to rinse the brewer unit and mixer system, a small amount of rinsing water is released shortly after dispensing to rinse away any ingredient residue.

1.4 Ingredients and mixer system

The ingredients canisters (fig. 1-11) are powered by a 130RPM motor (fig. 1-12). The instant product (ingredient) is forced out of the canister by a coil and drops through the dispensing bent pipes into the mixer unit (fig. 1-17). At the same time, the dispensing valves (fig. 1-18) dispense hot water into the mixer unit. The mixer motor (fig. 1-15) blends the instant product with water at a speed of 10,700 RPM using the mixer rotor (fig. 1-16). The drink flows into the cup via the drink outlet (fig. 1-3). All individual parts mentioned in this section can be sequentially coordinated using adjustable parameters (timers) in the control unit.

1.5 Evaporation extractor system

Evaporation released during mixing is largely absorbed by the evaporation extractor ring (fig. 1-18) and sucked into the machine via the filter cassette (fig. 1-14). The evaporation and ingredient residue are absorbed by the filter. The filter (fig. 1-14) can be easily reached (for cleaning purposes) by dismantling the mixer unit (fig. 1-17). To a large extent, this prevents evaporation from entering the canister outlet and making ingredients damp.

The heating element is controlled by a solid state relay, which supersedes the magnetic switch that was formerly used for this purpose.

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1.7 Steam thermostat

The solid state relay (SSR) is secured by a steam thermostat which is build in line with the overflow tube. The steam thermostat contact is in series with the solid state. This thermostat prevents the boiler from boiling empty when the solid state breaks down in a operating condition.

The thermostat switches the heating element OFF when steam escapes from the boiler. The thermostat must be manually reset.



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1.8 Brewer unit

Ground coffee and hot water are dispensed to the permanent filter and are drawn into the filter by vacuum. After making a fresh brew drink selection the following process (fig. 3) starts:

Start position	Brewer in resting position.	Start brewer 3	The piston moves down and sucks the coffee extract through the permanent filter.
Start brewer 1	The piston leaves the resting posi- tion. Ground coffee and hot water is dispensed to the brewer unit.	Pause 3	Just before the coffee extract leaves the brewer the piston either pauses or stops again to make sure the coffee residue is suf- ficiently dry.
Pause 1	The piston stops just above the outlet. Coffee and hot water is still dispensed.	Start brewer 4	The piston moves down further so that the outlet opening opens.
Start brewer 2	The piston rises and forces air upwards out of the cylinder, ensur- ing that coffee and water are mixed thoroughly. Water dispensing stops during this cycle.	Pause 4	The coffee is now dispensed to the cup, goblet or jug.
Pause 2	Piston stops at the highest setting to enable the coffee to be extracted.	Return to start	The piston returns to the start position again. At the same time the coffee residue is wiped away by the filter wiper. before it drops

into the waste bin.



Fig. 3

1.8.1 Adjustment

If a leak occurs between the brewer unit and the permanent filter the tensile force of the brewer needs to be increased.

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The tensile force of the brewer should be set so that no water is able to leak between the brewer unit (fig. 4-1) and the permanent filter (fig. 4-3).

The tensile force also ensures that the wiper (fig. 4-4) completely pushes the coffee residue off of the permanent filter.

See figure 4 for the most important brewer parts:

1. Brewer unit

2.	Rubber seal	(Art. No. 03375)
3.	Permanent filter	(Art. No. 03488)
4.	Wiper	(Art. No. 03380)

- 4. Wiper
- 5. Tension member
- 6. Adjustment shim* (Art. No. 03384)
- 7. Rubber
- 8. H-frame
- 9. Tension member adjustment
- 1. First remove the brewer from the device (see section 8.7.2 in the user manual for instructions).
- The tensile force can be set by adding adjustment shims (fig. 4-6) between the tension member (fig. 4-5) and the H-frame (fig. 4-8).
- Press the H-frame downwards and take the tension member out of the recess. Place an adjustment shim* in the recess and replace the tension member.
 CAUTION: adding multiple shims at the same time can cause excess tensile force and damage the brewer!
- In most cases this procedure is sufficient for repairing leaks. If the brewer unit still leaks fit another adjustment shim.
- If the brewer unit still leaks remove the two adjustment shims and then turn in the tension member once (clockwise). CAUTION: turning in the tension member should only be done as a last resort.
- If the tensile force is correct but the brewer still leaks do not increase the tensile force any more! For further help see chapter 1.8.3 Troubleshooting.



* a extra shim is located behind the stainless steel panel on the inside of the door.

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1.8.2 Setting tips

Tensile force too low (fig. 5)	Tensile force correct (fig. 6)	Tensile force too high (fig. 7)
If the wiper moves over the upper side of the cylinder it makes no contact with the permanent filter, so that coffee residue is left on the filter. The wiper does not bend at all.	If the brewer is adjusted correctly, the wiper moves carefully over the upper side of the cylinder and pushes the coffee residue off of the permanent filter. The wiper bends slightly.	If the brewer is adjusted too high, the wiper will stretch and become clearly warped. Glancing along the long side of the wiper will show a warped effect in the rubber.
If the brewer unit is adjusted in this way it can leak. If leakage is severe this can even result in a vacuum loss, which means that the coffee residue remains too wet (particularly for larger dispensing volumes).	When the wiper moves to the right the coffee residue is transported to the waste bin. The coffee residue drops from the right side of the brewer straight into the waste bin.	The brewer is under extreme pressure and the sound of the brewer motor audibly changes as a sign of the severe load. This may even damage the wiper!
Fig. 5	Fig. 6	Fig. 7
		During the complete brewer cycle, ball bearings from the wiper arms and the tension member are under severe pressure, resulting in bending. The ball bearings may then break away, cracking the plastic brewer housing.

Signs that the tensile force is too high (fig. 7):

- The wiper is severely bent when it slides across the upper side of the brewer cylinder and permanent filter.
- It appears as if the wiper arm is flattened between the brewer unit and the upper side of the brewer cylinder.
- The brewer motor sounds as though it is running under extreme pressure.
- The wiper pushes against the coffee residue when moving to the left.
- Accumulation of coffee residue round the waste bin.

1.8.3 Troubleshooting

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Problem	Probable cause	Action
The wiper pushes against the coffee residue when moving to the left.	The brewer unit does not rise far enough. The brewer unit is hindered during the upward movement.	Check if the brewer unit is able to move upwards freely.
	The brewer unit tensile force is too high.	Remove one adjustment shim to reduce the tensile force.
The coffee residue remains too wet.	There is inadequate suction in the coffee residue.	Increase the pause 3 time (see section 1.6)
Never increase the tensile force under if the brewer unit tensile	The water temperature is too high.	Lower the water temperature.
force is set correctly.	The permanent filter is dirty or worn.	Clean or replace the permanent filter.
	Check the brewer unit and cylinders for fractures.	Replace the defective parts.
If the above-mentioned problem is not resolved:	Check the cylinder for wear and tear or scratches.	Replace the defective parts.
	Check the Teflon coating for wear and tear.	Replace the defective parts.

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1.9 Grinder

The coffee grinder (Fig. 8) is driven by a strong direct current (DC) motor [2.6]. The top grinding disc [2.2] is fixed. The lower grinding disc [2.3] is driven trough a belt. The fineness of the coffee is set with a adjustment screw [2.5]. If the adjustment shaft is turned clockwise, the distance to the top drive reduces, increases counterclockwise. The ground coffee leaves the mill through the coffee spout [2.1]. A rubber flap prevents moisture comes in.

Major parts	Technical data	Material
1. Bean canister	Capacity 2.5 kg / 6.4 liter	PC
1.1 Bean stopper		Stainless steel
2. Coffee grinder	Sound 70 dB (A)	
2.1 Coffee spout		ABS
2.2 Grinding disc up	Ø 65mm	Ceramics
2.3 Grinding disc lower	Ø 65mm	Ceramics
2.4 Belt		Rubber
2.5 Adjustment shaft	hexagon + 2	
2.6 DC motor	230Vdc	
3. Coffee outlet		Stainless steel
4. Brewer unit	See 1.8 brewer unit	



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1.9.1 Livetime

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The life cycle of the ceramic grinding discs are about 3x times as long as steel grinding discs. This life cycle is depending of the type of coffee* and is approximately 3000 kg of coffee beans. At an average dose of 7.5 gr. / sec. these are around 400,000 shots.

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We advise you to replace coffee grinder entirely when this grinding volumes are reached. Not only the grinding discs need to be replaced, but also the bearings, motor brushes and the driving belt has reached its maximum life cycle. In case of a damaged grinding disk (by stones or other foreign objects) they can be ordered separately as a set and can be replaced.

* Light to dark roast, dry or oily, caramelized

1.9.2 Fineness adjustment

The coffee grinder is factory-set to the ideal grinding fines which perfectly fits the brewer unit.

- 1. Close the bean stopper from the bean canister.
- 2. Hold a cup under the spout of the coffee grinder.
- 3 Grind the coffee grinder empty.
- ³⁵ Tip: go to the service menu: 2.7 Hardware test / Outputs / IM1. Keep recipe key 11 pressed to empty the coffee grinder is emptied (motor speed increases).
- 4. Turn the adjustment shaft clockwise until the grinding disks slightly touch each other.
- 5. Turn adjusting shaft 360 to 450 ° counterclockwise, or 1 to 1 ¼ rotation! The dosing speed will be around 4.4 to 4.6 gr. / sec.
- Please monitor the brewer functioning properly after the adjustment of the grinding fineness. See chapter 1.9.3! If necessary, re-adjust fineness times!

• Keep your fingers away from the grinder mechanism when the machine is in operation.

- I If there is a sound of sharpening stones on each other can be heard, adjust the grinding coarser.
- De grinding discs shall never touch each other.
- The grinding adjustment and delivery can vary according to coffee beans and roasting degree.
- Adjust the coffee grinder from coarse to fine always a rotating- or empty mill. Adjusting from fine to coarse is possible at standstill.



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1.9.3 Grinder ajustment tips

To fine (Fig.10)	Ideal (Fig. 11)	To coarse (Fig. 12)
Grain <650µm;	Grain 650-800µm;	Grain >800µm;
Recognizable; The brewer piston is pulled up the pause mode 3 (Fig. 10) due to a high vacuum in the brewer cylinder.	Recognizable; If the brewer piston runs down in the start 3 position (Fig. 11) a beige foam layer is (briefly) creates on the coffee.	Recognizable; Weak coffee, High coffee dose.
Vacuüm Vacuüm Pauze 3 Fig. 10	Start 3	Start 3
The coffee is grinded too fine, the flavour extraction is too extreme (too many bitter substances). The brewer is overloaded, and can brake down! Advice, adjust the coffee grinder coarser (turn adjustment shaft counterclockwise).	The grinding adjustment is ok, the brewing process runs perfectly.	The grain size is too large to get good extraction. The coffee will be under extracted. To get a good cup of coffee the coffee dosage must be extreme high (too much) There is the danger of overdose. Advice, adjust the coffee grinder finer (turn adjustment shaft clockwise). Reduce the coffee dosage in de recipe menu.

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1.9.4 Replace grinding discs

1. Close the bean stopper from the bean canister.

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- 2. Hold a cup under the spout of the coffee grinder.
- 3. Grind the coffee grinder empty.
- Tip: go to the service menu: **2.7 Hardware test** / **Outputs** / **IM1.** Keep recipe key 11 pressed to empty the coffee grinder is emptied (motor speed increases).
 - 4. Lift the bean canister from the grinder.
 - 4. Switch the machine off.
 - 6. Unscrew the two screws [1] and remove the grinding top [2].
 - 7. Remove the grinding discs [4] by loosening the three screws [3].
 - 8. Clean all parts thoroughly.
 - 9. Install the new grinding discs in the exact reversed order.

- Don't drop the ceramic discs.
- De grinding discs shall never touch each other.
- Adjust the grinding after replacing the discs.

Fig. 13

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1.9.5 Replace driving belt

Disassembly coffee grinder housing (Fig. 14a)

- 1. Remove all the canisters [1] and disassemble the cover [2] behind it.
- Remove the electrical connections of the small coffee grinder board (accessible from the rear).
- 3. Remove the two screws [3] at the bottom of the enclosure.



Fig. 14a

- Disassembly driving belt (Fig. 14)
- 4. The grinder housing [4] can now be taken from the machine.
- 5. Remove the three screws [5] and remove the belt cover.
- 6. Remove the four screws [6] from the suspension rubbers and remove the grinder and motor frame.
- 7. Tighten screw [7] from the coffee outlet and remove it.
- 8. Remove the two screws [8] of the grinder top [9].
- 9. Remove the grinder top [9].
- 10. Unscrew the motor screws [10] slightly, so the driving belt looses tension.
- 11. Pull out the complete burr carrier [11].
- 12. Remove pulley and belt [12] and replace the parts.
- 13. Install the new burr carrier back [11] into place.
- 14. Tighten belt and fix the motor with screw [10].



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1.9.6 Cleaning the grinder

Depending on the fineness of grinding and the intensity of use coffee deposits will arises in the grinding house and grinding disks (fine particles, coffee oil, coffee residue). This can effect the grinding capacity the dosing accuracy and also can affect the taste.

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Cleaning Frequency

To ensuring a constant grinding quality its recommended to clean the grinder at least every 6 months.

Recommended cleaner

Grinder cleaner 430gr. GRINDZ ™ Art. no. 1000151 Shelf life 18-24 months Gluten free

What is GRINDZ ™? Is it harmfull?

GRINDZ [™] consists of 100% organic, natural materials (including cereals, starch) and is absolutely not harmful to health. It binds the coffee oil and cleans by friction, the housing and grinding discs. If there are small particles remaining in the follow-up shots, it will not affected the extraction or taste.

Cleaning with GRINDZ ™

- 1. Close the bean stopper from the bean canister.
- 2. Hold a cup under the spout of the coffee grinder.
- 3. Grind the coffee grinder empty.
- Tip: go to the service menu: **2.7 Hardware test** / **Outputs** / **IM1**. Keep recipe key 11 pressed to empty the coffee grinder is emptied (motor speed increases).
 - 4. Lift the bean canister from the grinder and remove the coffee beans.
 - 5. Fill 70g GRINDZ [™] (2x contents bus cover) in the bean canister.
 - 6. Grind ™ GRINDZ trough the grinder and collect the product.
 - 7. Grind about 6 shots of coffee to "wash" out the GRINDZ ™ remains from the grinder house.



Fig. 15

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Fig. 14

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2. MENU STRUCTURE

2.1 The operator/service menu

The majority of settings, including product settings, are protected by a PIN code. This PIN code ensures that users do not gain access to the service menu.

It is recommended not to leave this document with the user after installation and to change the standard factory PIN code.

This section describes how the various settings can be changed by **trained**, **authorized service staff**. You can read about how to gain access to the service menu below. On access to the **service menu** the control panel has the following functions:



Summary:

Operator menu

- 1.1 Clock
- 1.2 Timer settings
- 1.3 Recipe counters

1.0 Free dispensing

- 1.4 Quick recipe
- 1.5 Permanent filter
- 1.6 Software
- 1.7 PIN-code

2.3 Recipe settings2.4 Settings2.5 Reset counters

Service menu

Quick recipe

Button settings

2.1

2.2

- 2.6 Descale / filter
- 2.7 Hardware test
- 2.8 Read log
- 2.9 Clear log
- 2.10 Load defaults
- 2.11 SD menu
- 2.12 Change PIN code
- 2.13 Additional settings

2.2 The operator menu

Main item	Sub item	ltem	Range	Set	Description
	Subitem	nem	T ange	Jei	
1.0 Free dispensing			Yes/no	Yes	Set the device to free or paid dispensing here.
1.1 Clock	Time		HH:MM		Set the clock to the correct local time here.
	Date		DD-MM-JJJJ		Set the clock to the correct local time here.
1.2 Timer	Mon-Fri		On 00:00 Off 00:00		Set the time when the device should operate here. If the timer switches off the device it will automatically revert to standby mode.
	Sat		On 00:00 Off 00:00		
	Sun		On 00:00 Off 00:00		
1.3 Recipe counters	Recipe 1	Total	Off 00:00		Total counter for recipe 1 (free-paid-jugs)
		Free	Cups		Number of free dispensed drinks (recipe 1)
	Pacino 12	Paid	Cups		Number of paid dispensed drinks (recipe 1)
	Tecipe 12	Jug	Cups		Number of dispensed jugs (recipe 1)
	Recipes total Total Cups			Total counter for all dispensed recipes	
		Free	Cups		Total counter for all free dispensed recipes
		Paid Cups			Total counter for all paid dispensed recipes
		Jug	Cups		Total counter for all dispensed jugs
	Rinse counters Brewer			Number of brewer rinses	
		Mixer(s)			Number of mixer rinses
	Reset counters				Total rest of all counters
1.4 Quick recipe	Recipe name 1	Cup volume	50-200 ml	120ml	Use this for setting the volume and strength of cof-
		Coffee (1)	-20 / +20%	0%	button).
		none (2)	-20 / +20%	0%	Only the ingredients applicable to the recipe are shown.
		Chocolate (3)	-20 / +20%	0%	
		Topping (4)	-20 / +20%	0%	
	Recipe name 12	Coffee inst. (5)	-20 / +20%	0%	
1.5 Permanent filter	Reset teller				After the permanent filter of the vending unit (brewer) has reached the maximum number of brews the filter must be replaced. After replacing the permanent filter, reset the 'replace brewer filter' indicator.
1.6 Software					Software version is readable here.
1.7 PIN-code			2-2-2-2-2		PIN code = press the number 2 key five times.

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2.3 The service menu

Service menu								
Main item	Sub item	Item	Range	Set	Description			
2.1 Quick recipe	Recipe name 1	Cup volume	50-200 ml	120ml	Use this for setting the volume and			
		Coffee (1)	-20 / +20%	0%	strength of coffee, milk, sugar and cocoa easily per recipe (drink key).			
			-20 / +20%	0%	Only the ingredients applicable to the recipe are shown.			
			-20 / +20%	0%	· · · · · · · · · · · · · · · · · · ·			
		Topping (4)	-20 / +20%	0%				
	Recipe name 12	Sugar (5)	-20 / +20%	0%				
2.2 Button setting	2.2 Button setting Button 1		Recipe list See section 3.3		Change any recipe buttons here that standard factory settings. All settings that correspond to selected recipes are automatically loaded.			
		Recipe active	Yes/no	Yes	Use this to place the product concerned out of service.			
		Price	0,05-2,00	0,10	For paid dispensing a price can be set here for each product button.			
		Cup volume 50-230ml 120ml			Set the desired cup volume here. All other parameters (e.g. coffee dosage) can be adjusted automatically. This parameter is coupled to the quick recipe cup volume!			
		Attention; for cup >180ml change the (2.3 Recipe setting Advice: deactivate Operator menu; 2.4 recipe.	volumes bigger e brewer param / Unit 1) e Quick recipe in 4 Settings / I/O	r than neters n the Quick	Brewer parameter 180ml 200ml 220ml Pause 2 (2,5) 3,0 3,5 4,5 Start 3 (4,0) 4,0 4,0 4,0 Pause 3 (4,0) 4,0 4,5 6,5 Start 4 (3,0) 3,0 3,0 3,0 Pause 4 (2,0) 3,5 4,0 4,5			
		Multicup	0-20	0	Set the number of cups that should be dispensed when the key switch is in the jug setting.			
	Button 12		0-1-2-3	0 / 1	Recipe button concerned works as follows: 0= key switch setting n/a CUP (paid) or JUG* (paid) 1= key switch : CUP (paid) key switch -: JUG* (paid) 2= key switch : no dispensing key switch -: JUG* (paid) 3= key switch -: JUG* (free) (*when multicup is set to >1)			
Push & Hold		Push & Hold	Yes-No	No	If set to yes: pressing this button starts the hot/cold water dispensing and releasing it stops the hot water dispensing. Only use this option for Water 4 and Water 6 in combination with a hot/cold water recipe button.			
		Drip time	0-10 sec.	2 sec.	The length of time that the product continues to run from the brewer or mixer. After this time has elapsed a new drink selection can be made.			

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Service menu continued						
Main item	Sub item	Sub	Item	Range	Description	
2.3 Recipe setting	Recipe name 1	Unit 1	DV 1 WT	0,0-30,0 s	Waiting time Water 1	
			DV 1	0,0-100,0 ml	Dispensing amount Water 1 (Brewer)	
			Rinse 1 WT	0,0-20,0 s	Waiting time Rinsing Water 1	
			Rinse 1	0,0-15,0 ml	Dispensing amount Rinsing Water 1 Auto- matically deducted from Water 1	
			Ingredient 1 WT	0,0-30,0 s	Waiting time coffee beans 1	
			Ingredient 1	0,0-50,0 s	Product dispensing time coffee beans 1	
			Ingredient 2 WT	0,0-30,0 s	Waiting time Ingredient 2	
			Ingredient 2	0,0-50,0 s	Product dispensing time Ingredient 2	
			Start brewer	0,0-30,0 s	1st start time brewer	
			Pause 1 brewer	0,0-30,0 s	1st pause time brewer	
			Start 2 brewer	0,0-30,0 s	2nd start time brewer	
			Pause 2 brewer	0,0-30,0 s	2nd pause time brewer	
			Start 3 brewer	0,0-30,0 s	3rd start time brewer	
			Pause 3 brewer	0,0-30,0 s	3rd pause time brewer	
			Start 4 brewer	0,0-30,0 s	4th start time brewer	
			Pause 4 brewer	0,0-30,0 s	4th pause time brewer	
		Unit 2	DV 2 WT	0,0-30,0 s	Waiting time Water 2	
			DV 2	0,0-100,0 ml	Dispensing amount Water 2	
			Rinse 2 WT	0,0-20,0 s	Waiting time Rinsing Water 2	
			Rinse 2	0,0-15,0 ml	Dispensing amount Rinsing Water 2 Auto- matically deducted from Water 2	
			Ingredient 3 WT	0,0-30,0 s	Waiting time Ingredient 3	
			Ingredient 3	0,0-50,0 s	Product dispensing time Ingredient 3	
			Ingredient 4 WT	0,0-30,0 s	Waiting time Ingredient 4	
			Ingredient 4	0,0-50,0 s	Product dispensing time Ingredient 4	
			Mixer 2 WT	0,0-30,0 s	Waiting time Mixer 2	
			Mixer 2	0,0-50,0 s	Mixing time Mixer 2	
		Unit 3	DV 3 WT	0,0-30,0 s	Waiting time Water 3	
			DV 3	0-100 ml	Dispensing amount Water 3	
			Rinse 3 WT	0,0-20,0 s	Waiting time Rinsing Water 3	
			Rinse 3	0,0-15,0 ml	Dispensing time Rinsing Water 3 Automatically deducted from Water 3	
			Ingredient 5 WT	0,0-30,0 s	Waiting time Ingredient 5	
			Ingredient 5	0,0-50,0 s	Product dispensing time Ingredient 5	
			Ingredient 6 WT	0,0-30,0 s	Waiting time Ingredient 6 (optional)	
	Recipe name 12		Ingredient 6	0,0-50,0 s	Product dispensing time Ingredient 6 (optional)	
			Mixer 3 WT	0,0-30,0 s	Waiting time Mixer 3	
			Mixer 3	0,0-50,0 s	Mixing time Mixer 3	

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Service menu c	Service menu continued							
Main item	Sub item	Sub Item	Range	Description				
2.3 Recipe setting	Recipe name 1	DV 4 WT	0,0-30,0 s	Waiting time Water 4				
(continued)		DV 4	0,0-100,0 ml	Dispensing amount Water 4 (Hot water dispensed)				
		DV 5 WT	0,0-30,0 s	Waiting time Water 5				
		DV 5	0,0-100,0 ml	Dispensing amount from an extra hot water valve Water 5 (reserved for a Brewer By-Pass option).				
		DV 6 WT	0,0-30,0 s	Waiting time Water 6				
		DV 6	0,0-100,0 ml	Dispensing amount from an extra inlet valve Water 6 (Cold Water option)				
		Strength Coffee	0-50%	Use the strength setting item to add an				
		None	0-50%	Ingredient to the strength adjustment.				
		Strength Chocolate	0-50%	0= off / > 1 = on				
		Strength Topping	0-50%	Example: [coffee] 20%				
		Strength Sugar	0-50%	Oteres with				
	Str	Strength Ingrediënt 6 Option		0 + ++ -20% -10% 0 10% 20%				
	Recipe name 12		0-50%	Example: [cocoa] 40%				
				Strength 0 + ++ -40% -20% 0 20% 40%				

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Service menu co	ontinued				
Main item	Sub item	Item	Range	Set- ting	Description
2.4 Settings	Language	English			Language choice display.
		Dutch			Ex factory setting English.
		German			
		French			
	Temperature	Temp boiler	70.07%0 *	95°C *	Boiler temperature standard model 1K - 5K + AK
			10-51 0	90°C *	Boiler temperature FreshBrew + instant model 6A t/m 9A
		Hysteresis	2-10°C	2°C	Temperature drop, after which boiler must reheat
		Output block	70-90°C	78°C	Boiler temperature disables dispens- ing. Display: [Out of order, boiler heating]
		Output release	70-90°C	85°C	Boiler temperature allows dispens- ing again
		Stand-by	60-80°C	60°C	Boiler temperature during stand-by
		Extended Heating	0-5 sec	1 sec	To maintain the optimum boiler tem- perature the heating element and inlet valve switch on simultaneously. Set the waste delay of the element here after the inlet valve is closed. Inlet valve Heating Heating Heating
	Display	Show clock	Yes/no	No	Show clock in display
		Show date	Yes/no	No	Show date in display
		Message text	Yes/no	No	Show message text (running text) in display. Only shown if Display Date, Clock or both are set to no. Message text only programmable by using the Optimizer programme and SD card.
	Use bleeper		Yes/no	Yes	Sound signal on or off
	Fan time		0-300 sec.	60 s.	Duration of Fan speed 2 after dispensing
	Fan speed 1		40-100%	50%	Fan speed when resting
	Fan speed 2		40-100%	100%	Fan speed during dispensing

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Service menu continued							
Main item	Sub item	Item		Range	Set- ting	Description	
2.4 Settings (continued)	Coin system	G13 Coin channel 1 Coin channel 6		0-100,00 + Token	€ 0,05 € 0,10 € 0,20 € 0,50 € 1,00 € 2,00	Coin value setting for each chan- nel. €0.05-€2 respectively. 0.00=free TOKEN=coffee token Foreign currencies; see list #	
			Single vend	ja-nee	ja	Yes: any excess credit is not retained for next drink. No: credit retained for next drink.	
			Max coin accep.	€ 0,05- 100,00	€ 2,00	Coins larger than € 2.00 are rejected and ejected through the return slot of the coin mechanism. Adjust to the highest recipe product price.	
			Point position	0-2	2	Decimal position in amount	
			Show credit	Yes/no	Yes	Show credit on the display	
		MDB	Single vend	ja-nee	ja	Yes: any excess credit is not retained for next drink. No: credit retained for next drink.	
			Max coin accep.	€ 0,05- 100,00	€ 2,00	Coins larger than € 2.00 are rejected and ejected through the return slot of the coin mecha- nism. Adjust to the highest recipe product price.	
			Point position	0-2	2	Decimal position in amount	
			Show credit	Yes/no	Yes	Show credit on the display	
	I/0 Reset counter			Yes/no	No	Add Reset counters menu item to the operator menu	
	I/0 Quick recipe			Yes/no	Yes	Add Quick recipe menu item to the operator menu	
	Drip tray sign.			Yes/no	Yes	Turns off drip tray sensor software.	

# Coin channel settings foreign currencies									
	Danish Krone	Swedish Krone	Norwegian Krone	South African Rand	Jordanian Dinar				
	DK	SKR	NOK	ZAR	JOD				
CH 1 CH 2 CH 3 CH 4 CH 5 CH 6	0,50 1,00 2,00 5,00 10,00 20,00	0,50 1,00 5,00 10,00 1,00 0,00	1,00 5,00 10,00 20,00 10,00 20,00	0,50 1,00 2,00 5,00 5,00 0,00	0,50 1,00 25,00 50,00 1,00 0,00				
Max coin accep.	10,00	10,00	10,00	2,00	50,00				

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Service menu continued								
Main item	Sub item	Item	Range	Set- ting	Description			
2.5 Reset counters	Rinse counters	Brewer counter?			Reset brewer spoelteller			
		Mixer counter?			Reset mixer spoelteller			
	Recipe counters	Recipe counter 1 Recipe counter 12			Reset recepttellers per recept.			
		Reset counter total			Reset totaal tellers			
	Reset all counters				Reset alle tellers ineens			
2.6 Descale/filter	Service moment		0-50.000	12500	After the Service Due setting has been reached the Descale/filter indicator will be displayed. See sec- tion 5. Service			
	Service counter			12500 ↓ 0 ↓ -12500	The number of beverages dis- pensed is counted here. Check here to see how far the machine is from periodic maintenance (descaling boiler or replacing water filter). When the counter reached 0 (zero) the count becomes negative.			
	Reset serv. coun				After periodic maintenance has been carried out (boiler descaled or filter replaced) the service counter should be set to nil.			

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Service menu co	ontinued					
Main item	Sub item	Sub	Range	Description		
2.7 Hardware test	Inputs	Temperature	Boiler temp			
		Level sensors	High Yes/no Low Yes/no			
		Drip tray sensor	Yes/no	Shows the status of the sensors/switches		
		Waste bin	Yes/no	indicated		
		Door switch	Yes/no			
		Brewer switch	Yes/no			
		Key switch	Yes/no			
	Outputs	KW1		Inlet valve (Boiler)		
	Test by holding	DV1		Dispenser valve 1 (Brewer)		
	in recipe button 11.	DV2		Dispenser valve 2 (Mixer 2)		
	# During toot the	DV3	400 mA	Dispenser valve 3 (Mixer 3)		
	display shows	DV4		Dispenser valve 4 (Hot water)		
	the Nominal current (mA)	DV5		Dispenser valve 5 (n/a)		
	When the	DV6		Inlet valve 6 (Cold water) optional!		
	Nominal current	IM1 #		Grinder motor 1 (Canister 1)		
	of a output rises above the set	IM2 #		Ingredients motor 2 (Canister 2)		
	current * mentioned output	IM3 #	400 mA ¹	Ingredients motor 3 (Canister 3)		
	will be shut off.	IM4 #		Ingredients motor 4 (Canister 4)		
	Caution: BM	IM5 #		Ingredients motor 5 (Canister 5)		
	goes through a complete drinks	IM6 #		Ingredients motor 6 (Canister 6)		
	cycle.	BM #	800 mA	Brewer motor		
		MM2 #	1000 mA 1	Mixer motor 2		
		MM3 #	1000 IIIA ·	Mixer motor 3		
		Ventilator	200 mA	Ventilator		
		LED's		LED's		
	Calib. valves	DV1	15 ml / sec	Calibrate to 150 ml (10 sec x 15 ml)		
	Test by holding	DV2	15 ml / sec	Calibrate to 150 ml (10 sec x 15 ml)		
	in recipe button 11 (for 1 sec.)	DV3	15 ml / sec	Calibrate to 150 ml (10 sec x 15 ml)		
	to open the rel-	DV4	20 ml / sec	Calibrate to 200 ml (10 sec x 20 ml)		
	10 seconds.	DV5	20ml / sec.	Calibrate to 200ml (10sec. x 20ml) (Optional valve for Brewer By-pass)		
		DV6	42 ml / sec	Inlet valve cannot be calibrated (fixed flow)		

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Service menu co	ontinued		
Main item	Sub item	Item	Description
2.8 Read log			Saves last 20 error messages, including date and time
2.9 Clear log	Are you sure?		Clears log
2.10 Load defaults # See chapter 3.2 Model code system	Model # OF1K xx00 OF2K xx00 OF3K xx00 OF4K xx00 OF5K xx00 OF6K xx00 OF7K xx00 OF7K xx00 OF8K xx00 OF9K xx00 OF4K xx00	Are you sure?	 When a new circuit board is introduced it is necessary to load defaults. When loading defaults it must be stated on the OptiFresh model plate. The correct model settings are not loaded until the question 'Are you sure?' has been confirmed. Attention: Before you start changing the button- and/or receipt- settings, first close the service menu, only after re-entering the service menu the new model settings will be activated. When you confirm this setting all loaded factory settings and changed programmed values will be lost. After loading defaults the PIN code reverts to 2-2-2-2 and the language reverts to English. Change if necessary.
2.11 SD menu Before saving or loading data, insert an empty SD	Load data	Pers. settings	This menu item is for loading personal settings to the device using an SD memory card. This file contains the (amended) personal set- tings for menus: 2.4 Settings / 2/6 Descale-filter / 2.13 Additional settings. The data file (Ofxxxx00.mdu) should be on the SD card.
memory card into the card reader .	Memory Card	Language	This menu item is for loading a <u>different language set</u> to the device. The data file (xxxxxx.tlf) should be on the SD card.
This is located behind the stainless steel panel on the inside of the door.		Recipe	This menu item is for loading personal recipes to the device using an SD memory card. This file contains the (amended) personal reci- pes for menus: 2.1 Quick recipe / 2.2 Button settings / 2.3 Recipe settings. The data file (OFxxxx00.rcu) should be on the SD card.
SD card specifications: - 16MB or greater - FAT16 format	Save data	Pers. settings	This menu item is for saving <u>personal settings</u> to an SD memory card and copying them to another device. All settings amended in menus: 2.4 Settings / 2.6 Descale-filter / 2.13 Additional settings are loaded to the SD card in one data file (OFxxxx00.mdu).
		Recipes	This menu item is for saving personal recipes to an SD memory card and copying them to another device. All settings amended in menus: 2.1 Quick recipe / 2.2 Button settings/ 2.3 Recipe settings are loaded to the SD card in one data file (OFxxxx00.rcu).
2.12 Change PIN	New PIN code	Repeat PIN code	 This menu item is for changing the PIN code using buttons 1-4 only. The entire service menu is accessed with this PIN code, which prevents unintentional changes from being made to the machine settings by untrained staff. The ex-factory PIN code is 2-2-2-2 PIN code forgotten or needs to be deactivated? The PIN code input display (operator menu item 1.7) shows a
			number on the right. Enter the corresponding PIN code (see list on p.80 to access the service menu.

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Service menu co	Service menu continued									
Main item	Sub item	Item	Range	Set	Description					
2.13 Addit. settings	Waste manag.	Cup amount	0-1000	250	After reaching the set total of brewer movements, dispensing is disabled and the display reads: Out of order – Waste bin full					
		Hysteresis	0-100	20	After reaching the set total of brewer move- ments minus the hysteresis is, the display shows: Waste bin almost full					
		Time-out reset	0-50 sec.	15 s	The length of time that the waste bin is al- lowed to be removed (for emptying). When replacing it the (internal) waste bin counter is reset. Any display messages disappear.					
		Waste bin sign	Yes/no	Yes	Turns off waste bin sensor software (bypass).					
	Cycle counter	XXXXX	0-99999		This Cycle counter records the number of vends the brewer has made. Tip: This counter can be reset after maintenance if the brewer has been checked.					
	Reset c. counter	Reset counter?			Reset Cycle counter (Brewer)					
	Perm.filter coun	XXXXX	0-30.000	20.000	When the set number of (Brewer) vends is reached the display reads 'Replace perma- nent filter' when switching on.					
	Reset p. filter	Reset counter?			Reset the permanent filter counter after (preventative) replacement					

PIN Code Table

	1	3	4	2	4
	2	3	1	4	3
	3	4	1	3	4
	4	4	3	2	3
	5	2	3	3	4
	6	4	2	1	3
	7	2	4	2	4
	8	2	3	2	4
	9	2	4	3	2
Table 1	10	3	1	3	3

No.

Pincode

No.	Pincode						
11	1	3	3	3	2		
12	1	2	4	1	3		
13	4	3	1	2	1		
14	1	1	1	4	2		
15	2	1	2	1	1		
16	1	2	2	3	3		
17	3	4	1	4	4		
18	4	1	4	3	3		
19	3	1	2	4	1		
20	2	2	3	2	4		

Water Hardness Table

	Water				Limescale		
	Quality	°D	°F	°C	mmol/l	mgCaCo3/l	Indicatorcups
	Very hard	18-30	32-55	11-18	3,2-5,3	321- 536	5000
	Hard	12-18	22-32	7-18	2,2-3,2	214-321	8500
	Average	8-12	15-22	5-7	1,4-2,2	268-214	12.500*
	Soft	4-8	7-15	2-5	0,7-1,4	72-268	20.500
Table 2	Very soft	0-4	0-7	0-2	0- 0,7	0-72	0 = off

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3. RECIPE SETTINGS

3.1 Quick recipe

First of all we would like to remind you that the **cup volume** (ml) and **strength** (%) can easily be set in the service menu **2.1 Quick recipe** (page 72 of this document).

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The operator of the device (end user) also has access to this quick recipe, which is found under section 1.4 Quick recipe (see user manual). As supplier of the device, you can remove the quick recipe from the operator menu if desired. Go to **2.4 Settings / 2.4.9 I/0 Quick recipe** via the service menu and change **Yes** into **No**.

3.2 Model code system

The OptiFresh models have the following standard canister configurations (table 3a & 3b):

If the device is delivered with a different canister configuration this can be given a new number using the model code system below.

Table 2a	Model	Standard canister configuration							
	code	1	2	3	4	5			
OptiFresh 1	1K	Coffee beans							
OptiFresh 2	2K	Coffee beans		Chocolate					
OptiFresh 3	3K	Coffee beans		Chocolate	Topping				
OptiFresh 4	9K	Coffee beans		Chocolate	Topping	Instant Coffee			

The OptiFresh models can be altered to one of below mentioned different canister configurations. These models (table 4a & 4b) are implemented in the standard software.

Table 1a	Model	Different canister configuration						
	code	1	2	3	4	5		
OptiFresh 2	5K	Coffee beans		Topping				
OptiFresh 2	6K	Coffee beans		Instant Coffee				
OptiFresh 3	7K	Coffee beans		Instant Coffee	Topping			
OptiFresh 3	8K	Coffee beans		Chocolate	Instant Coffee			
OptiFresh 3	AK	Coffee beans		Sugar	Topping			
OptiFresh 4	4A	Coffee beans		Chocolate	Topping	Suiker		

3.3 Button settings

The standard of programmed recipes (table 3a) can easily be transferred over the 12 recipe buttons. See service menu **2.2 Button settings** (page 72).

The optional recipes (table 4a) are already contained in the software and can easily be programmed under one recipe button. See service menu **2.2 Button settings** (page 72).

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3.3.1 Standard canister configuration

Table 3b		OptiFresh BEAN 1	OptiFresh BEAN 2	OptiFresh BEAN 3	OptiFresh BEAN 4
		Model 1 K	Model 2 K	Model 3 K	Model 9 K
	1	Coffee beans	Coffee beans	Coffee beans	Coffee beans
	2	-	-	-	-
	3	-	Chocolate	Chocolate	Chocolate
sre	4	-	-	Topping	Topping
iste	5	-	-	-	Instant Coffee
Can	Button				
	1	# Coffee	# Coffee	# Coffee	# Coffee
	2	-	Hot Chocolate	Coffee Milk	Coffee Milk
	3	-	Coffee Choc	Hot Chocolate	Hot Chocolate
es	4	-	-	Coffee Choc	Coffee Choc
cip	5	-	-	Cappuccino	Latte Macchiato
Le	6	-	-	Wiener Melange	-
ard	7	-	-	Latte Macchiato	Café au Lait inst.
nd	8	-	-	-	Chocolate Milk
Sta	9	-	-	-	Espresso inst.
	10	-	-	-	Wiener Melange inst.
	11	-	-	-	Cappuccino inst.
	12	# Hot water	# Hot water	# Hot water	# Hot water
		Espresso	Espresso	Espresso	Espresso
		Double Espresso	Double Espresso	Double Espresso	Espresso Choc
		Jug of Coffee	Espresso Choc	Espresso Choc	Café au Lait
es S		Jug of Hot Water	Jug of Coffee	Chocolate Milk	Coffee inst. Milk
cip(Jug of Hot Water	Warm Milk	Warm Milk
lee				Café au Lait	Coffee inst.
nal				Jug of Coffee	Wiener Melange
tio				Jug of Hot Water	Latte Macchiato inst
do					Cappuccino
		# = jug filled using key	switch		Jug of Coffee
					Jug of Coffee inst.
					Jug of Hot Water

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3.3.2 Different canister configuration

Table 4b		OptiFresh BEAN 2		OptiFresh BEAN 3			OptiFresh BEAN 4	
		Model 5 K	Model 6 K	Model 7 K	Model 8 K	Model A K	Model 4 K	
	1	Coffee beans	Coffee beans	Coffee beans	Coffee beans	Coffee beans	Coffee beans	
	2	-	-	-	-	-	-	
	3	Topping	Instant Coffee	Instant Coffee	Chocolate	Sugar	Chocolate	
ers	4	-	-	Topping	Instant Coffee	Topping	Topping	
iste	5	-	-	-	-	-	Sugar	
Can	Button							
	1	# Coffee	# Coffee	# Coffee	# Coffee	# Coffee	# Coffee	
	2	Coffee Milk	-	Coffee Milk	Hot Chocolate	Coffee Milk	Coffee Milk	
	3	Cappuccino	-	Cappuccino	Coffee Choc	Coffee Sugar	Coffee Sugar	
Sec	4	Café au Lait	-	Café au Lait	-	Coffee Milk & Sugar	Coffee Milk & Sugar	
ŝcip	5	Latte Macchiato	-	-	-	Cappuccino	Hot Chocolate	
E F	6	-	-	-	-	-	Coffee Choc	
arc	7	-	Coffee inst.	Coffee inst.	Coffee inst.	-	Cappuccino	
and	8	-	Espresso inst.	Coffee inst. Mlk	Espresso inst.	-	Wiener Melange	
Sta	9	-	Dub. Espresso inst.	Espresso inst.	Dub. Espresso inst.	-	Latte Macchiato	
	10	-	-	Dub. Espresso inst.	-	-	-	
	11	-	-	Cappuccino inst.	-	-	-	
	12	# Hot water	# Hot water	# Hot water	# Hot water	# Hot water	# Hot water	
		Espresso	Espresso	Espresso	Espresso	Espresso	Espresso	
		Double Espresso	Double Espresso	Double Espresso	Double Espresso	Double Espresso	Double Espresso	
		Warm Milk	Jug of Coffee	Latte Macchiato	Espresso Choc	Espresso Sugar	Espresso Choc	
SS		Jug of Coffee	Jug of Coffee inst.	Warm Milk	Jug of Coffee	Latte Macchiato	Chocolate Milk	
Sip(Jug of Hot Water	Jug of Hot Water	Café au Lait inst.	Jug of Coffee inst.	Warm Milk	Warm Milk	
rec				Jug of Coffee	Jug of Hot Water	Café au Lait	Café au Lait	
Jal				Jug of Coffee inst.		Cappuccino Sugar	Cappuccino Sugar	
tior				Jug of Hot Water		Jug of Coffee	Espresso Sugar	
dO						Jug of Hot Water	Jug of Coffee	
		# = jug filled using	key switch				Jug of Hot Water	
		inst. = Recipe ma	de with instant coffe	e				

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3.4 Detailed recipe settings

To change detailed recipe settings (service menu 2.3) you first need to be aware of the various parts such as valves, brewer motor, ingredients motor and mixers that work together. See section 3.5 Timebar recipe settings.

The following rules should be taken into consideration:

- Water (valves) are easily set in millilitres.
- Motor running times (Ingredients/Mixers/Brewer) are set in seconds (0.1 second steps)
- All parameters (Water and Ingredients) are based on a 100 ml drink and the programme automatically converts them to the cup volume as set in 1.4 / 2.1 Quick recipe and 2.2 Button settings.
- If a drink contains DV1 and DV2, the total amount of water should always be 100 ml when combined. For DV1, DV2 and DV3, this amount = > 100 ml.
- A Rinse parameter is used to ensure that the brewer unit and mixers are properly rinsed after making a drink. After the mixers are almost empty a small amount of hot water is dispensed to the mixer so that it is as clean as possible on completion.

A realistic rinse value is 7.5 ml. Caution: this does not need to be deducted from the amount of water as the programme does this automatically!

Example: Set parameter for DV1 = 100 ml. Rinse 1 = 7.5 ml --> Programme carries out the following action: DV1 = 92.5 ml, Rinse 1 = 7.5

3.5 Timebar recipe settings





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3.6 Calibrating the hot water valves

The Brewer and Mixers are supplied with water by the Dispensing Valves (DV).

In the unlikely event that one of the valves needs replacing, it should be calibrated to one of the dispensing speeds given in figure 19 after it has been fitted.

When calibrating valves, use the special Valve Calibration menu by opening the Service Menu and going to 2.7 Hardware Test / 2.7.2 Calibrating Valves.

The hot water dispensing valves are accessible by dismantling the canister plateau behind the ingredients canisters.

Test by holding in recipe button 11 (for 1 sec.) to open the relevant valve for 10 seconds.





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4. SOFTWARE



52 emory Card Capacity: 16Mb or bigger Format: FAT (no FAT32 or NTFS)

4.2 Installing software

The device can easily be installed with new software, which is made available as follows:

- www.Animo.eu / dealer log in: Extranet *
- By Email

4.3 Installing a language

The device has four standard languages (NL/GB/ D/F). The device can easily be installed with another language set (if available). A new language file can be made available as follows:

- www.Animo.eu / dealer log in: Extranet *
- By Email



Fig. 20

* User manuals, service manuals and software updates can be found on the Extranet section of www. animo.eu. If you do not have access, please request your personal login code on our website.

5.0 SERVICE

· In order to descale the water reservoir, the device must be opened. This will expose live parts of the machine, which can be touched easily. This may lead to highly dangerous situations!

- The device must not be submerged or hosed down.
- Always stay with the device during maintenance work.



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Fig. 21

5.1 Setting a service parameter

During installation, set a parameter for the device to be serviced. See Service Menu item 2.8 Descale / filter. Use the table below to set the correct service parameter.

Service parameter reached?

The dispensed drinks are counted during use. If the service parameter is reached the display shows the following message: Descale / filter (fig. 21).

The message indicates that the device must be descaled. If a water filter is fitted (recommended), this is also an indication that the filter must be replaced.



Water hardness table

Water	Hardness				Service Indicator	
Quality	°D	°F mmol/l mgCaCo3/l		(cups)		
Very hard	18-30	32-55	3,2-5,3	321- 536	5000	
Hard	12-18	22-32	2,2-3,2	214-321	8500	
Average	8-12	15-22	1,4-2,2	268-214	12.500*	
Soft	4-8	7-15	0,7-1,4	72-268	20.500	
Very soft	0-4	0-7	0- 0,7	0-72	0 = off	

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5.2 Preventative maintenance

5.2.1 Service contracts

Precface

Preventative maintenance will lengthen the life cycle of the device and reduce the chance of malfunction. Before carrying out maintenance, read the safety instructions in the user manual, service manual, and recommended cleaning agents.

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User manuals, service manuals and software updates can be found on the Extranet section of www. animo.eu, If you do not have access, please request your personal login code on our website.

Water filter

We strongly advise you to use a water softener and/or water filter if the mains water is heavily chlorinated or is too hard. This increases the quality of the drink and will ensure that you do not have to descale the device too often.

Brewer unit

In some cases, a substitute brewer is used during maintenance. The brewer removed can then be repaired in the workshop before being used again during the next service.

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5.2.2 Servicing

For an estimated total of < 25000 cups a year we recommend one service a year. For an estimated total of > 25000 cups a year we recommend two services a year.

Service activity	Service activity Time		Art.No.	OptiFresh			
				1	2	3	4
Descale	45 min.						
Descale boiler system (see se	rvice manual).	Animo descaler	49007				
Use valve seal set if necessary	у.	Valve seal set	99673	2x	3x	3x	4x
Grinder	10 min.						
Empty the grinder. Fill the bea with two caps of cleaner. Hold under the sprout and grind the	n reaservoir a emty cup grinder empty	Grinder cleaner	1000151				
Brewer	15 min.						
Replace a number of parts.		Permanent filter	03488	1x	1x	1x	1x
Clean the brewer. Check that it is working correct	tlv	Wiper	03380	1x	1x	1x	1x
Adjust brewer unit tensile stren	ngth if	Seals	03375	1x	1x	1x	1x
necessary.		Animo cleaner	49009				
Mixer(s)	10 min.						
Check Motor axis for dirt and w Grease water connection using	vear and tear. silicone grease).						
Replace mixer rotor.			03254	-	1x	1x	2x
Replace green mounting ring.			03253	-	1x	1x	2x
Clean mixer parts.		Animo cleaner	49009				
Inspection (general)							
Check that the entire machine Check parts for damage/wear	is working. and tear and/or le	eaks.					
Cleaning (general)							
Brewer and mixer unit as for w The entire interior and exterior	veekly cleaning. of the machine.						
						Tal	hle 6

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• Do not leave the device during maintenance work.

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- When descaling always follow the instructions for the descaler used.
- It is advisable to wear safety goggles and protective gloves when descaling.
- After descaling, allow the device to run a minimum of three times.
- Wash hands thoroughly after descaling.
- The device must not be submerged or hosed down.

5.3 Descaling instructions

Animo supplies Descaler in the following quantities:

- Descaler 48 x 50g sachets (Art. No. : 49007)
- Descaler 1kg tube (Art. No. 00009)

Time required, products and tools:

- Time: approximately 45 minutes
- Animo Descaler x 2 sachets or 8-10 dessert spoons
- Drip tray of approximately 1.5 litres
- Bucket or basin at hand
- Switch on the device and let it warm up. The advantage of this is that the reservoir is properly warmed in advance, which achieves a better result during descaling.
- 2. Switch off the device and pull the plug out of the socket.
- 3. Dispense one litre of hot water from the water reservoir using the tap at the front of the device (fig. 22-1).
- 4. Remove the rear plate (fig. 22-2) and unscrew the reserve lid (fig. 22-3). Take care: HOT!
- Before going any further, read the warnings and instructions for use on the Animo Descaler sachets before dissolving two 50g sachets in the measuring jug (8-10 dessert spoons).







- Pour the acid solution into the reservoir (fig. 23-1). The acid solution will now react with the lime scale.
- 7. Leave the solution to soak for a minimum of 10 minutes, until the foaming has stopped.
- 8. Use a brush to spread the acid over the level electrodes during the soaking time (fig. 23-2).
- 9. Put the plug in the socket again and turn on the device so that the reservoir warms up.
- 10. Activate the BREWER cleaning programme (fig. 23-3), so that the acid solution leaves the water reservoir via the BREWER VALVES. Place a drip tray under both outlets (fig. 23-4) and follow the instructions on the display.
- 11. Activate the MIXER cleaning programme (fig. 23-5), so that the acid solution leaves the water reservoir via the MIXER VALVES. Place a drip tray under both outlets (fig. 14-4) and follow the instructions on the display.
- 12. Turn off the device and allow the reservoir to empty completely using the tap (fig. 23-1).
- 13. Turn on the device again; the reservoir will refill with clean water. Repeat instruction 10 one more time to rinse the reservoir completely free of acid.
- 14. Turn on the device again; the reservoir will refill with clean water. Allow the water reservoir to heat up.
- 15. Activate the BREWER cleaning programme (fig. 23-3), so that valves and pipe systems are rinsed clean. Place a drip tray under both outlets (fig. 23-4).
- 16. Activate the MIXER programme (fig. 23-5), so that valves and pipe systems are rinsed clean. Place the measuring jug under the outlet (fig. 23-6).
- 17. Repeat the above descaling procedure if lime scale is still present in the reservoir.
- 18. Screw the lid back onto the reservoir and replace the rear plate.
- 19. Clear the service parameter counter in the Service Menu 2.6 Descale / filter /2.6.2 Reset service counter.
- 20. The device is now ready for use again.



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Fig. 23

6. COMPONENT ACCESSIBILITY



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7. ELECTRONICS SUMMARY

During repairs or maintenance work, avoid electrostatic discharge (ESD) on the control unit.

- Main PC board7.1
- Interface board / display 7.2
- Power supply 230Vac:24V 65W 7.3
- Grinder board 230Vac:24V 65W 7.4

7.1 Main PC board

This control unit is the device's main control unit and is accessible by removing the left side panel (fig. 25a). The following important parts can be found in the main control unit (fig. 25):

- Fuse 6, 3A T (Art. No. 03391)): to safeguard the power supply to the main PC bard.
- Battery 3V Li CR2032 (Art. No. 02816);: to maintain the clock function when there is no power supply to the device.





7.1.1 Main circuit board entrances

Connector J12

Connector cable between the main circuit and door circuit

Conr	nector J7		
Pin	Pin Sensor		Comments
1-2	-		
3	Drip tray sensor	Yellow	
4	Drip tray sensor Mass	Black	
5	Level sensor Low	Brown	
6	Level sensor Mass	Green	
7	Level sensor High	White	
8	-		
9	Waste bin switch	Pink	Waste bin in position; contact closed
10	Brewer switch	Grey	Brewer in home position contact closed
11	Door switch	Or- ange	Door closed; contact closed
12-18	-		

Conne	ector J18 (J16 not		
Pin	Sensor	Colour	Comments
1	NTC sensor	Violet	
2	-	-	
3	NTC sensor	Violet	

Battery B1	
Lithium 3V Type CR2025	Art. No. 02816

Fuse F1	
6,3A slow	Art. No. 0339

Conn	ector J1		
Pin		Colour	Comments
1	Mass (GND)	Black	
2	Mass (GND)	Black	
3	+24V DC	Red	
4	+24V DC	Red	



Fig. 26

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7.1.2 Main circuit board exits

Conn	ector J2		
Pin	Motor	Colour	Comments
17-18	Brewer / Mixer 1	Black	Correct direction of rota- tion = red wire (+24VDC) <u>NOT</u> on red spot of the Brewer Motor
15-16	Mixer 2	Violet	
13-14	Mixer 3	Pink	Taka aana ta natata in
11-12	Grinder signal 1	Brown	the right direction!
9-10	Ingredient Motor 2	Green	Shared +24 DC (red wire) on red spot on Mixer and
7-8	Ingredient Motor 3	White	Ingredients Motor.
5-6	Ingredient Motor 4	Yellow	
3-4	Ingredient Motor 5	Grey	
1-2	Ingredient Motor 6		-

Conn	Connector J4				
Pin	Valve	Colour	Comments		
17-18	KW 1 (inlet valve)	Violet			
15-16	KW 2	-			
13-14	KW 3	- Red wire is a share			
11-12	DV 1 (brewer valve)		Red wire is a shared		
9-10	DV 2 (mixer 2 valve)	White	(24VDC) connection		
7-8	DV 3 (mixer 3 valve)	Yellow			
5-6	DV 4 (hot water tap)	Green			
3-4	DV 5	Grey			
1-2	DV 6 (cold water tap	-	-		

	Connector J15				
	Pin	Motor	Colour	Comments	
	2	Ventilator	Red		
I	1		Orange		

Connector J6			
Pin	Relay	Colour	Comments
4		Red	
3	Power relay (element)	White	
2		-	
1]		-



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7.1.3 Main circuit board communication





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Com	Communication			
Conn			Comments	
G13	Coin tester NRI G13			
MDB	Coin changer NRI C ²			
CSI			Future port	
RS232			Future port	
USB			Future port	

7.2 Interface / Display

The interface (fig. 29) connects all components found inside and on the door with the main control unit via a flat cable.





Fig. 29a

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7.3 Power supply

The 24 V DC power supply (fig. 30) consists of a 24V DC 65W switch mode power supply and can be accessed by removing the rear plate.

The power supply is located under the main circuit (fig. 30a).

• During an overload the power supply automatically switches off. Reset the power supply by turning the main switch off and on.

7.3.1 Connections

Connector TB2 24Vdc			
Pin		Colour	Comments
1	230Vac Neutral	blue	
3	230Vac Phase	yellow	

Connector TB1 100-		40Vac	
Pin		Colour	Comments
1-2	24Vdc +	Red	
6-7	24Vdc -	black	



Fig. 30a

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Fig. 30

7.4 Grinder PC board 230Vac / 230Vdc

This grinder PC board (Fig. 31) convert 230Vac (AC) trough a rectifier in 230Vdc (DC) that drives the grinder motor.

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The IM1 signal (24Vdc) of the main PC board is fed to connector J5-J6 (red LED turns on). This signal switch on the grinder motor by a triac.

This PC board is accessible through the rear to disassemble.

Fuse 3,15 A T (Art. No. 02580) ; to protect the grinder motor.

7.4.1 Connections

24Vdc ingredient 1 signal			
Pin		Colour	Comments
J5	24Vdc +	red	polority pot important
J6	24Vdc -	brown	polarity not important

230Vdc			
Pin		Colour	Comments
1	230Vdc +	red	n elevitu increatent l
3	230Vdc -	black	polarity important !

230Vac			
Pin		Colour	Comments
J2	230Vac Nul	blue	
J3	PE (aarde)	yellow/ green/	
J4	230Vac Fase	brown	

Fuse F1	
3,15A slow	Art.No. 02580

Grinder motor 230Vdc				
Pin		Colour	Comments	
	230Vdc +	red	Please pay attention,	
	230Vdc -	black	for right direction. +24dc (red wire) according drawing	



Fig. 31a



Fig. 31



Fig. 31b

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mounted correctly.

8.1 Read log

Preface

8. TROUBLESHOOTING

probable cause of the problem.

registered and saved (fig. 32).

wall socket before the device is opened.

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• When carrying out repairs and cleaning the device, the plug should always be removed from the

Before searching for the defect, check that all parts are in their correct position. To do this, remove the device's rear plate and check that all printed circuit boards, connectors, wire beams and pipes are

After carrying out a general parts inspection, use section 8.3 Troubleshooting analysis to verify the

#) If the column solution advises replacement of the part concerned, there is always the possibility that the defect may be caused by another problem. The functioning of the device should therefore be

(temporarily) too low because too

much water has been used.



The first error is the most recent error message. • The first line shows the same error codes listed in

The last 20 error messages displayed during use are

the troubleshooting analysis table (see section 8.3) The second line shows the date and time at which the ٠

To read out these error messages activate the menu item 2.8.

thoroughly tested to make sure that the defect does not reappear.

error message occurred.

8.2 Clear log

Out of order

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Boiler heating

Use the Clear log function in service menu 2.9 to clear the log.

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Display	Possible cause	Action
Out of order Drip tray full	Drip tray full.	Once the drip tray is emptied, the message automatically disappears and the drink selection buttons are reactivated.
Out of order Waste bin full	The maximum number of coffee cups that the waste bin can hold has been reached.	Empty waste bin. The cup counter is automatically reset when the waste bin is replaced.
Out of order Waste bin is missing	Waste bin is not detected.	Check the waste bin.
Out of order Door open	For safety reasons, the machine automatically switches off if the door is opened.	The machine can be operated with the door open by using the door pin (User manual: section 8.1).
Out of order Stand-by	The machine is on standby.	This function can be set manually or auto- matically.
Out of order E1 Level error	Minimum electrode error: mini- mum electrode detects no water but maximum electrode does. Inlet valve shuts.	Check that the level sensors are function- ing. See service menu 2.7 Hardware test . Switch the device off and on again.
Out of order E2 Level error	Maximum electrode error: maximum electrode not reached within 30 sec. Inlet valve shuts. Boiler fills up too slowly. Water pressure has dropped or the water tank (stand-alone) is empty.	Check the water pressure, turn the water supply tap completely open and check the connection tube for any kinks. Switch the device off and on again.
Out of order Electrode error: minimum E3 Level error Boiler fills up too slowly Water pressure has dropped or the water tank (stand-alone) is empty. Entropy of the sector of		Check the water pressure, turn the water supply tap completely open and check the connection tube for any kinks. Switch the device off and on again.
		Check the brewer motor function in the service menu 2.7 Hardware test . Switch the device off and on again.
	Brewer was not started from its	Check fluted pin of Brewer motor. Replace if broken (fig 33).
Out of order E4 Brewer error	initial position. Brewer motor not turning.	Check the brewer switch. When brewer motor is in its home position, switch lever must fall into driving wheel notch (fig. 34A). Contact must be closed. When brewer motor rotates, switch lever must be pressed IN (fig. 34B). Contact must be open.

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message automatically disappears and the

drink selection buttons are reactivated.

Trouble code

Number

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Display	Possible cause	Action
Out of order	Brewer was not returned to its	Check the brewer switch and brewer motor function in the service menu 2.7 Hardware test . Switch the device off and on again.
E5 Brewer error	initial position.	Check fluted pin of Brewer motor. Replace if broken (fig. 33).
Out of order	Temperature sensor or power relay problem.	Check the temperature sensor function in the service menu 2.7 Hardware test.
E6 Boiler temp	From Machine 1S06945 number the power relay is replaced by a solid state relay (SSR)	Check if the steam thermostat in the over- flow pipe has been triggert. Reset if necessary.
		Check that the brewer unit is secured properly in the holder. Remove the brewer and repair the obstruction. Switch the device off and on again.
Out of order E7 BM error	The Brewer motor stuck. Brewer motor exit overload (power too high). Control unit has switched off the exit.	Check that the wiper is placed between the wiper arms. Remove the brewer and repair the obstruction. Switch the device off and on again.
		Coffee Filter is clogged up with coffee stains. Piston must pull (vacuum) too hard. Clean or replace the filter. Turn machine off and on again.
Out of order E8 Mixer 2 error	Mixer 2 motor stuck. Mixer 2 mo- tor exit overload (power too high). Control unit has switched off the exit.	Check if Mixer 2 is unclean or incorrectly fitted. Clean and/or check whether the rotor can run freely. Switch the device off and on again.
Out of order E9 Mixer 3 error	Mixer 3 motor stuck. Mixer 3 motor exit overload (power too high). Control unit has switched off the exit.	Check if Mixer 3 is unclean or incorrectly fitted. Clean and/or check whether the rotor can run freely. Switch the device off and on again.
Out of order E10 Valve error	Valve exit overload (power too high). Control unit has switched off the exit.	Check valves and wiring for leakage. Switch the device off and on again.
Out of order E11 Ingr. m error	Ingredient motor stuck. Ingredient motor exit overload (power too high). Control unit has switched off the exits.	Check the driving motor function in service menu 2.7 Hardware test . Empty the Canister(s) and clean thoroughly. See User manual section 8.9 Cleaning the canister(s) . Switch the device off and on again.
Out of order E12 Fan error	Fan exit overload (power too high). Control unit has switched off the exits.	Check the ventilator and wiring for leakage. Switch the device off and on again.

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Display Possible cause		Action	
Out of order E13 Mixer error E13 Mixer error E		Carry out the inspection actions as described for E7, E8 and E9. Switch the device off and on again.	
Out of order E14 Output err.	Ingredient motor and ventilator exit group overload (power too high). Control unit has switched off the exits.	Carry out the inspection actions as described for E11 and E12. Switch the device off and on again.	
	Valve exit group overload (power too high). Control unit has switched off the exits.	Carry out the inspection actions as described for E10. Switch the device off and on again.	
Out of order E16 Level error Electrode error; Max. and Min. Electrode both suddenly detect no water level. Inlet valve shuts.		Make sure if the boiler does not leaks. Check the water pressure, turn the water supply tap completely open and check the connection tube for any kinks. Switch the device off and on again.	
Out of order E17 MDB error System		Check the connection between the machine and MDB payment system.	

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fig. 33

fig. 34

9. PAYMENT SYSTEMS

9.1 Coin mechanism (optional)

The OptiFresh is available with an optional coin mechanism suitable for euros (€0.05 - €2.00). Other currencies are available on request.

The coin mechanism can also easily be programmed to accept tokens.

It is also possible to have an existing device fitted with the coin mechanism. The right-hand side panel is replaced by a wider side panel, which houses the coin mechanism and slot (fig. 25).

- 1. Coin insert
- 2. Return button
- 3. Return slot
- 4. Money drawer
- 5. Door lock (also locks the money drawer)

9.1.1 Standard configuration

Fig. 24 shows the standard configuration of the DIL switches, S1-10 ON

The coin mechanism is connected to the device with a connector (Fig. 36A).

9.1.2 Rejecting coins

If desired, certain types of euro coins can be rejected by using DIL-Switch block S1 + S2 (fig. 36).

Coin	DIL +	DIL	
€ 0,05	S1-1	S1-7	
€ 0,10	S1-2	S1-8	
€ 0,20	S1-3	S2-1	
€ 0,50	S1-4	S2-2	
€ 1,00	S1-5	S2-3	
€ 2,00	S1-6	S2-4	
Token 607	-	S2-5	
Token Eagle	-	S2-6	
Token new	-	S2-7	
Token new	-	S2-8	
ON = rejected / OFF = accepted			

Example: Reject €1 and €2 euro coins (fig. 37)

- S1-5, S2-3 -> ON (€ 1,00 rejected)
- S1-6, S2-4 -> ON (€ 2,00 rejected)

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Fig. 38

9.1.3 Activating existing tokens

The token shown here (fig. 38) is programmed in the coin mechanism as standard.

Configure the service menu as described in the following section from point 4.

Token Art. No. : 03344

9.1.4 Programming a new token

- Required: 10 tokens
- Attention: remember the DIL switch positions for any rejected coins. Leave S1.10 ON!
- The following DIL switches on Switch Block S2 should be facing upwards and switch to ON (fig. 39).
 a) First switch S2-9 Teach Mode to ON
 b) Then, switch S2-7 coin channel 6 (TM) to ON
- Insert a minimum of ten tokens (Fig. 40). These ten tokens should not be the same. After the ten tokens have been inserted the (internal) reject coil will be automatically drawn.
- End programming by switching the DIL switch S2-9 downwards to OFF. If saved successfully, the reject coil will be drawn once again. After this, switch S2-7 OFF again. (To halt programming, first switch S2-7 and then S2-9 to OFF).
- 4. Service menu: change coin channel 6 (menu item 2.5 Payment system) from €2,00 to TOKEN.
- 5. The device now accepts the token as a method of payment.

9.1.5 Accepting Euros and Tokens

Carry out section 9.1.3 and 9.1.4 beforehand.

- Open the service menu
- Set a price using menu 2.2 Button settings / Button 1-12 / Price (e.g. € 0.50)
- The recipe buttons are activated after sufficient euros or tokens have been inserted!









1. Open the service menu

Button 1-12 / Price.

Coin

mechanism

inserted!

9.1.6 Accepting Tokens only

Carry out sections 9.1.3 and 9.1.4 beforehand.

3. Block the €0.05 - €2.00 coins using the coin

DIL switches and the table below.

2. Set to TOKEN using menu 2.2 Button settings /

4. The recipe buttons are only activated after a token is

DIL +

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9.2 Coin changer (optional)

The OptiFresh is available with an optional coin changer suitable for euros (€0.05 - €2.00).

Other currencies are available on request.

The coin changer has 6 coin tubes (€ 0.05 / 2x 0.10 / 0.20 / 0.50 / 1,00).

- 1. Return button
- 2. Coin insert

3. Lock

4. Change



9.2.1 Troubleshooting

In order to diagnose the cause of the fault in detail, please refer the NRI technical Documentation.

DIL S1-7

	€ 0,05	S1-1	S1-7		
	€ 0,10	S1-2	S1-8		
	€ 0,20	S1-3	S2-1		
	€ 0,50	S1-4	S2-2		
	€ 1,00	S1-5	S2-3		
Γ	€ 2,00	S1-6	S2-4		
	ON = rejected / OFF = accepted				

9.1.7 Cleaning the coin holder

From time to time, the coin mechanism should be cleaned with a light, damp cloth (lukewarm water containing a mild cleaning agent). No further maintenance is necessary.

- The cloth should not be too wet as any liquid that gets into the device will damage the printed circuit board.
- Do not use any solvents or scouring agents that may damage the
- 1. Turn off the device.
- 2. Take the coin mechanism out of the side panel.
- 3. Carefully open the coin holder valve (fig. 41A) and hold it open.
- 4. Clean the coin holder with a cloth and close the valve again.
- 5. Turn on the device again.







Fig. 43

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