

Cavex Alginate Mixer 3

User manual



Installation – Operation – Troubleshooting

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General information for the user

Congratulations on the purchase of your Cavex Alginate Mixer 3: an automatic mixer for alginate impression material! Please read this user manual carefully before using the Cavex Alginate Mixer 3. Its proper use will improve the quality of the mixed alginate impression material and also increase the mixer's working life. Keep the user manual in a safe place and ensure that employees who will be using the Alginate Mixer 3 receive proper training.

Important

Cavex Holland BV cannot accept responsibility for any inadequate performance, damage or accidents resulting from a failure to connect the Alginate Mixer 3 in the manner specified below; using the Cavex Alginate Mixer 3 for materials other than alginate impression material or gypsum, or in a manner other than that described below; using parts other than those supplied for the intended purpose by Cavex, or repairs or modifications other than those made by experts appointed by Cavex for that purpose.

SAFETY PRECAUTIONS

Please follow the instructions in this manual for correct and safe operation of the device. Pay attention to the following warning signs beside the operation descriptions where applicable.



DANGER

This message appears where improper operation may cause serious injury to the human body if instructions are not followed correctly.



WARNING

This message appears where improper operation may cause serious damage or defect to other objects or the device itself if instructions are not followed correctly.



CAUTION

This message appears where improper operation may cause slight injury to the human body if instructions are not followed correctly.

**IMPORTANT**

This message appears where improper operation may cause slight damage or defect to other objects or the device itself if instructions are not followed correctly.

**WARNING**

To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earth.



EU-wide legislation, as implemented in each Member State, requires that waste electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes monitors and electrical accessories, such as signal cables or power cords. When you need to dispose of your products, please follow the guidance of your local authority, or ask the shop where you purchased the product, or if applicable, follow any agreements made between yourself.

The mark on electrical and electronic products only applies to the current European Union Member States.

Explanation of Graphical Symbols:

IEC 60878 and ISO 3864-B.3.6 : Warning: Dangerous voltage.



ISO 7000-0434 : Caution, consult accompanying documents.



ISO 7000-1641 : Follow operating instructions or consult instructions for use.



IEC 60417 -5009 : Stand-by.



ISO 7010-W001 : General warning sign

MAINTENANCE**Alginate Mixer**

If there is any dust or stains on the surface of the control panel or unit body, please use a dry or damp cloth to wipe clean. If it is hard to clean, a neutral detergent is recommended.

**IMPORTANT**

Never use a solvent or volatile oil for cleaning; this can lead to fading of the print on the casing.

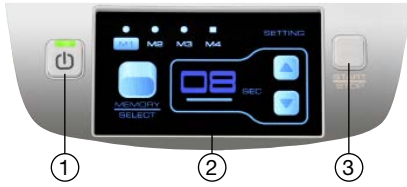
**IMPORTANT**

Turn off the main power and disconnect the power cord before cleaning or maintaining the unit. Never clean while the mixer is in operation or the power is on.

Mixing Accessories

The mixing cup, spatula, and stirrer stick should be washed with water and completely dried after each use. Before using the mixing cup, check whether the cup or the lid is distorted or cannot be closed properly. Replace the old mixing cup with a new one in case this occurs.

MAIN UNIT AND ACCESSORIES



1. Power button
Green indicator: 'Ready for operation'
Orange indicator: 'Power-on'
2. Display
3. Start/stop button
4. Main power switch
5. Fuse/backup fuse
6. Power cord port
7. Power cord
8. Cavex Alginate Mixer 3
9. Spatula
10. Powder scoop
11. Stirrer stick
12. Water dosing bottle
13. Accessory holder
14. Mixing cup



IMPORTANT

Do not use other power cords without authorization from the manufacturer.



WARNING

Do not modify this device without authorization of the manufacturer.

INSTALLATION

Please carefully follow the instructions below to ensure proper function of the device.

System operational conditions

1. For indoor use only, the device needs to be placed on a stable and flat surface.
2. The operation area should be free of dust, acids, and solvent vapors.
3. Before operation, double-check the voltage (AC 220~240V).



CAUTION

Make sure to install and operate the unit with dry hands only.



DANGER

Keep potentially dangerous substances a minimum of 30 cm away from the unit, such as flammables, water sources, and contaminants.

Motor fixing screws

1. Remove the two motor fixing screws located at the base of the unit.
2. Store the two screws and distance washers in the openings at the back of the unit for future use.



IMPORTANT

If the unit needs to be moved or sent for repairs, secure the motor with the two motor screws prior to transporting it to avoid damages.



IMPORTANT

Keep the unit upright when removing/installing the screws to prevent disturbing the balance of the motor.

Plugging in

Double check the input voltage requirement of the unit and of the power source, also make sure the main power switch is off before plugging the power cord in.



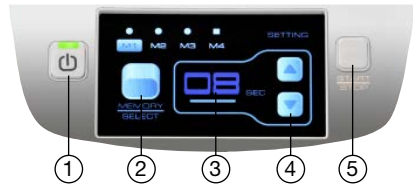
DANGER

There is danger of electric shocks, fire or damage to the unit if the incorrect input voltage is used.



PANEL OPERATIONS

1. Power button
2. Memory/select
3. Pre-programmed mixing time
4. Adjustment of mixing time (up/down)
5. Start/stop button



(A) Power on

1. Turn on the main power switch, and the unit will enter stand-by mode.
2. Press and hold the power button for three seconds to turn on the screen. After the Cavex logo is displayed in the marquee mode, the mix mode and mixing time will be set and displayed on the screen, indicating that the mixer is ready for operation.



CAUTION

Never operate the unit without a mixing cup or with an empty mixing cup, as it will throw the motor off balance. Always keep the unit's main power switch off to avoid accidental mixing when the unit is empty.

(B) Mixing Cup

1. Put the lid on the mixing cup, press down and close by turning clockwise until secure.
2. Make sure the opening on the lid is unblocked.
3. Make sure the exterior of the mixing cup is clean and dry.



(C) Mixing

1. Make sure the mixing cup has been securely closed.
2. Place the prepared mixing cup firmly into the mixing cup holder.
3. Close the lid of the Cavex Alginate Mixer 3 and check that the appropriate mixing time has been set.
4. Press the 'Start/stop' button to start the mixing cycle.
5. Wait for the stop 'beep' signal before opening the lid.
6. Remove the alginate mixture from the mixing cup with a spatula and apply.

CHARGER SIGNALS



CAUTION

If abnormal sounds or conditions occur during operation, press the 'Start/stop' button to terminate immediately.

Note: The mixing cup, spatula, and stirrer stick should be washed with water and completely dried off after each use.

Note: To stop during operation press the 'start/stop' button.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
The mixer cannot be powered on	Power cord is disconnected or main power switch is off	Plug the power cord in again and check the main power switch
	The fuse is blown	Inspect the fuse and change if needed
Abnormal sounds or vibrations during operation	Motor screws at the base of the unit haven't been removed	Remove the motor fixing screws as instructed in page 5
	Operation of the mixer without mixing cup or with empty cup	Stop operation
	Lid of mixing cup is loose	Stop operation and completely close the lid
	Defective gears	Return to the dealer for repair
Display panel does not light up	Defective CPU Board	Return to the dealer for repair
Unit operation has delayed start	Defective CPU Board	Return to the dealer for repair
Mixing cup not closing or opening well	Mixing cup deformed	Replace mixing cup
	Blocked air hole in the lid	Free the air hole
Mixing results are poor	Incorrect mixing ratio of alginate and water, or incorrect mixing time	Refer to instructions from alginate supplier
	Incorrect operating steps	Refer to Panel Operations Section C on page 6
	Poor or expired alginate powder	Use a new batch of alginate powder
	Deteriorated rotation speed	Return to the dealer for repair
Display panel shows 'E1'	The lid of the mixer isn't completely closed	Open and fully close the lid again
	Defective microswitch	Return to the dealer for repair
Display panel shows 'E2'	The lid buckle of the mixer does not work	Open and fully close the lid again
	Defective microswitch	Return to the dealer for repair
Display panel shows 'E3'	Unstable operating platform	Ensure operating platform is stable
	Defective microswitch	Return to the dealer for repair
When requested to send the unit back for repair, please send the full unit and power cord for further inspection.		

SPECIFICATIONS

Model number	Cavex Alginate Mixer 3
Timer range	1 ~ 20 seconds
Mixing modes	4
Speed	max. 3,600 rpm
Mixing cup capacity	25 ~ 100 g / cup
Dimensions	273(L) x 219(W) x 309(H) mm
Net weight	16.8 kg
Power input	AC 220~240V
Electric shock protection level	Class I
Fuse Rating	250V, 6.3A

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