

GCP Dental CarboMix CM-02

Capsule mixer product no. 109.002

Instructions for Use



Only for use by dental professionals.
Read this operation manual carefully before installation or
operation.



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Section 1 – Introduction

GCP CarboMix CM-02

Capsule mixer product no. 109.002

GCP's newest universal high intensity capsule mixer is durable and easy to use, and is digitally controlled for optimum mixing of GCP capsules. The digital display allows two different mixing programs to be set, with accurate mixing times for controlled and consistent mixing. The selected program is activated by pressing the button once, making the device very easy to use.

Key features:

- Easy to use
- Suitable for all customary capsules
- Two user definable mixing programs
- LED display
- Microprocessor controlled mixing times
- Automatic safety stop when safety cover is opened
- Ergonomic easy-to-clean design

Section 2 – Safety Instructions and Precautions

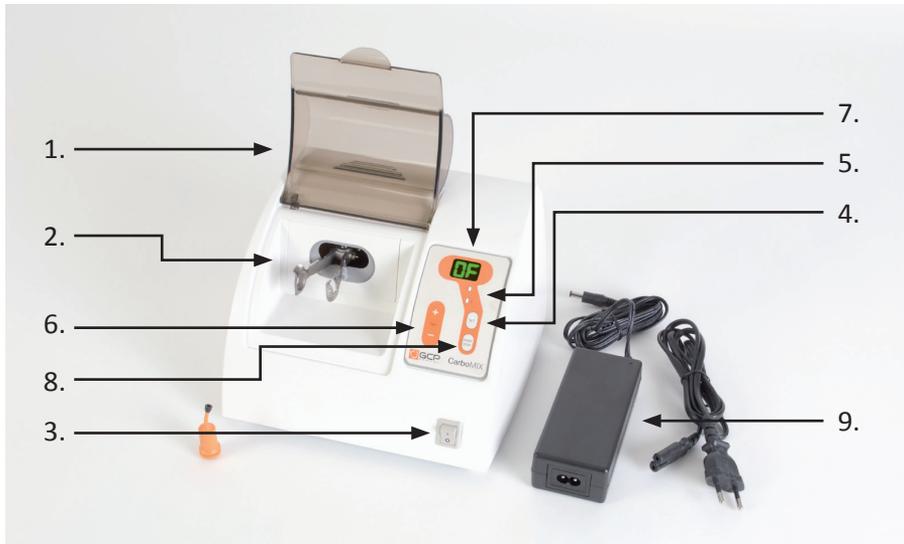
- Before operation, read through the instructions carefully. The device must be operated only by dental professionals in accordance with these operating instructions.
- Prior to setting up the device, check your local AC power supply voltage to see if it meets the specifications as indicated on the adapter of the device (100 – 240 V, 50 – 60 Hz).
- **Unscrew the two screws at the bottom of the device before first use!**
- The device should not be exposed to direct sunlight, dust or a wet environment and may not be located close to heating equipment.
- **Never start the device without the presence of a capsule in the clip. This can lead to damage by improper use, which is not covered by the warranty.**

- Keep the safety cover closed during operation. The safety cover should not be opened before the capsule holder has come to a full stop. The safety system will stop the device automatically as soon as the cover is opened during operation.
- No other objects may be present in the space under the safety cover when starting operation.
- When transporting the device from a low to a high ambient temperature, let the equipment equilibrate for one hour to prevent electrical failure due to condensation.
- When cleaning the device, ensure that no cleaning agent enters the device as this could lead to hazardous malfunctions.
- Check the device regularly for possible damage. Do not insert any objects into the device. Remove the power cord in case of a defect. Repairs should only be carried out by qualified personnel.
- Do not use the device with wet hands or if the device or one of its parts has been damaged.
- This device is not suitable for use in the presence of flammable cleaning or anaesthetic agents or an oxidizer such as oxygen or nitrous oxide.
- Store this device in a dry and clean place.

Section 3 – Components

Box contents:

- a) 1x GCP CarboMix CM-02 device
- b) 1x power cord
- c) 1x power adapter
- d) 1x user instructions
- e) 1x warranty registration form



Description of the device

- 1) Safety cover. An open safety cover activates the safety switch. The device will stop in case the cover is opened during operation.
- 2) Clip in which the capsule is fixed.
- 3) Power switch. In the "ON" position, the program indicator and the time display are illuminated.
- 4) Program select button ("SET"). This is used to set and select the desired program.
- 5) Program indicator. If a program is selected, the corresponding indicator is illuminated.
- 6) Buttons for setting the time; these make it possible to set the mixing time between 1 and 30 seconds.
- 7) Display showing the selected mixing time and, during operation, the remaining mixing time.
- 8) Start/Stop button. With this button, it is possible to start the program or interrupt it at any time.
- 9) Power adapter, input 100-240 V, 50-60 Hz, output 24 V DC

Section 4 – Installation

1. TO ENSURE SAFE TRANSPORT, THE MOTOR HAS BEEN SECURED INSIDE THE DEVICE WITH TWO SCREWS. FOLLOW THE INSTRUCTIONS BELOW TO REMOVE THE TWO TRANSPORT SCREWS PRIOR TO INSTALLATION OF THE DEVICE.

- a. Unscrew the two screws that are inserted in the bottom of the device as shown in figure 1. Keep the device in a level position. Unscrew both screws simultaneously, as removing one before the other may make it difficult to remove the second one.
- b. Safeguard both screws by screwing them into the designated storage positions as indicated in figure 2. In case the device has to be moved or transported at a later time, the screws have to be returned to their original position to prevent possible damage.

2. Place the device on a stable horizontal surface. Do not place it in a dusty environment and avoid exposure to direct sunlight.
3. Connect the power adapter firmly to the socket at the back of the device, then attach the power cord to the power adapter, and insert the plug into a socket with a mains voltage of 100 – 240 V AC, at 50-60 Hz. See figure 3)



Figure 1



Figure 2



Figure 3

Section 5 – Preparation for Use

Preparation for first use:

1. Turn on the power switch located at the front of the device. The symbol “I” is ON, the symbol “O” is OFF. The program indicator lights up, the number “10” appears in the time display. (Figure 4)
2. The mixing time can be different for different capsules; consult the capsule specifications if required. The mixing time can be adjusted at any time to values between one and thirty seconds. Two different time programs can be set, allowing the user to pre-program two different mixing times.
3. Make sure the safety cover is firmly closed. As long as this cover is open, the time display will show the text “OF”.
4. Press the SET button to select the mixing program. The program indicator shows which program (1 or 2) has been selected.
5. Adjust the mixing time if needed (for GCP capsules set the time to 15 seconds). Press the “+” button (the display starts blinking) to increase the mixing time with one second, press the “-” button to decrease the mixing time with one second.
6. Press the “SET” button to save this mixing program as the selected program (1 or 2).
7. The program is now set.
Turn off the power switch.



Figure 4

Note: The settings of the mixing programs will be memorised even when the device is switched off or disconnected from the power supply.

Section 6 – Instructions for Use

Normal use

1. Turn on the power switch located at the front of the device. The symbol “I” is ON, the symbol “O” is OFF. The program indicator and the green LED display light up.
2. Select the desired mixing program by pressing the “SET” button.
3. Open the safety cover and place the capsule to be mixed in the clip with the orifice pointing to the right. (Figure 5)
4. Close the safety cover completely. The device will not start while the cover is not fully closed; the time display will show a blinking “OF” text.
5. Press the “Start/Stop” button to start the mixing process. **Never start the device without the presence of a capsule in the clip. This can lead to damage by improper use, which is not covered by the warranty.** In case the process has to be stopped before the mixing time has expired, the “Start/Stop” button should be pressed again.
6. The display shows the remaining mixing time and the device will stop automatically as soon as the mixing time has expired.
7. Open the safety cover after the device has come to a full stop. (Figure 6)
8. Remove the capsule from the clip.
9. In case a capsule has been leaking and material has spilled into the device, this should be cleaned up as soon as possible to prevent damage or discolouration.



Abb. 5



Abb. 6

Note: By simply pressing the “Start/Stop” button, the process can be repeated.

Section 7 – Handling after Use

After you have finished working with the device:

- Turn off the power switch located at the front of the device. The symbol “I” is ON, the symbol “O” is OFF. The green LED display goes out.
- In case the device is not to be used for an extended period, store the device in a dry and clean place.

Section 8 – Maintenance

- The device requires no maintenance. Remove the power plug from the socket before cleaning.
- Clean the device with a soft cloth and, if necessary, a mild detergent. Do not use volatile solvents.
- When cleaning the device, ensure that no cleaning agent enters the device as this could lead to hazardous malfunctions.
- This device is not to be opened by the user; repairs should only be carried out by qualified personnel.

Section 9 – Troubleshooting

In case you encounter a problem while using the mixer, please check the following list of frequently asked questions. If your problem is not listed, contact your supplier.

Problem: *The material to be mixed is not properly mixed.*

Solution: 1 Increase mixing time.

Problem: *The device cannot be turned on and the LED display does not work.*

Solution: 1 Check that there is a proper connection between the power adapter and the device, the power cord and the power adapter, and the power plug and the socket.
2 Ensure line voltage is present at the socket.

Problem: *The LED display is lit but the device does not start.*

Solution: 1 Verify that the safety cover is properly closed.
2 Ensure that no tampering has occurred with the safety switch operated by the safety cover (only to be executed by a qualified technician).

Problem: *The device moves during operation.*

Solution: 1 Check whether the device is placed on a flat surface.
2 Place a rubber pad underneath the device.

Problem: *The device is very noisy.*

Solution: 1 Verify that the transport screws have been removed completely, and correct if necessary.

Section 10 – Technical Data

Classification:	Medical Device Class I Electrical Appliance Class II (double insulation) Protection from ingress of liquid IPX0 (ordinary equipment)
Product model:	GCP CarboMix CM-02
Mixing speed:	approx. 4800 vibrations per min
Mixing time:	Adjustable between 1 and 30 seconds
Operating temperature:	10 °C to 40 °C (50 °F to 104 °F)
Line voltage:	100 – 240 V, 50 Hz/60 Hz (adapter)
Operating voltage:	24 VDC (2A) (device)
Rated power:	50 W
Dimensions:	210 mm L x 200 mm W x 150 mm H (device) 120 mm L x 60 mm W x 40 mm H (adapter)
Weight:	3.1 kg (incl. adapter)
Noise level:	< 70 dB(A)
Conformity:	CE, EN60601-1, EN60601-1-2

Section 11 – Storage and Transport

Storage:

Ambient temperature:	-10 °C ~ +60 °C (14 °F ~140 °F)
Relative humidity range:	10% ~ 85%, non-condensing
Pressure:	500 – 1060 hPa

Transport:

Re-insert and tighten the transport screws before transporting the device.
Use the original packaging for transport.

Section 12 – Disposal

The GCP CarboMix will serve you for a long time. However, it is inevitable that at the end of its lifetime you will have to dispose of it. Regulations require that you dispose of electrical equipment separately in order to enable recycling and protection of the environment against hazardous materials that may be contained in such equipment. Consult your national or local regulations for safe disposal.

Section 13 – Warranty Period, Conditions, and Registration

WARRANTY PERIOD

The limited warranty period is one year after the date of purchase as stipulated in the warranty conditions, provided warranty registration has taken place as described under WARRANTY REGISTRATION.

WARRANTY CONDITIONS

WARRANTY COVERAGE

GCP Dental's warranty obligations are limited to the terms set forth below. GCP Dental, as defined below, warrants this GCP Dental-branded product against defects in materials and workmanship under normal use for a period of ONE (1) YEAR from the date of purchase by the original purchaser / end-user ("Warranty Period") if properly registered as specified under WARRANTY REGISTRATION, otherwise for a period of ONE (1) YEAR from the date the product was shipped to the distributor or end user from GCP Dental's warehouse. If a hardware defect arises and a valid claim is received within the warranty period, GCP Dental will, at its discretion, either (1) repair the hardware defect at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from refurbished parts and is at least functionally equivalent to the original product. GCP Dental may request that the user replaces defective parts with new or refurbished user-installable parts that GCP Dental provides in fulfillment of its warranty obligation.

A replacement product or part, including a user-installable part that has been installed in accordance with instructions provided by GCP Dental, assumes the remaining warranty of the original product or ninety (90) days from the date of replacement or repair, whichever provides longer coverage. When a product or part is replaced, the new product or part becomes the property of the user and the replaced product or part becomes GCP Dental's property. Parts provided by GCP Dental in fulfilment of its warranty obligation must be used in products for which warranty service is claimed. When a refund is given for a paid amount, the product for which the refund is provided must be returned to GCP Dental and becomes GCP Dental's property.

EXCLUSIONS AND LIMITATIONS

This Limited Warranty applies only to products manufactured by or for GCP Dental that can be identified by the "GCP Dental" trade mark, trade name or logo affixed to them. The Limited Warranty does not apply to any non-GCP Dental products, even if packaged or sold with GCP Dental products. Manufacturers or suppliers other than GCP Dental may provide their own warranties to the end user but GCP Dental, in so far as permitted by law, provides their products "as is".

GCP Dental does not warrant that the operation of the product will be uninterrupted or error-free. GCP Dental is not responsible for damage arising from failure to follow instructions related to the product's use such as those in the instructions for use.

No claim under the warranty will ever be able to exceed the amount invoiced for the product supplied.

This warranty does not apply: (a) to damage caused by use with non-GCP Dental products; (b) to damage caused by an accident, abuse, misuse, improper use, floods, fires, earthquakes or other external causes; (c) to damage caused by operating the product outside the permitted or intended scope of use described in documentation by GCP Dental; (d) to damage caused by service (including upgrades and expansions) performed by anyone who is not a representative of GCP Dental or a GCP Dental Authorised Distributor; (e) to a product or part that has been modified to significantly alter functionality or capability without the written permission of GCP Den-



tal; (f) to consumable parts, such as batteries, unless damage has occurred due to a defect in materials or workmanship; or (g) if any GCP Dental serial number has been removed or defaced.

Action taken by a buyer with regard to his/her warranty and/or a complaint will not discharge his/her obligation to pay.

To the extent permitted by law, this warranty and remedies for defects set forth above are exclusive and in lieu of all other warranties, remedies and conditions, whether oral or written, statutory, expressed or implied. Unless otherwise provided by law, GCP Dental declares that no other statutory or implied warranties apply, including, but not limited to, warranties of merchantability, fitness for a particular purpose and warranties against hidden or latent defects. If GCP Dental cannot lawfully disclaim statutory or implied warranties, then, to the extent permitted by law, all such warranties shall be limited in duration to the duration of this warranty and to repair or replacement service as determined solely by GCP Dental.

No GCP Dental Authorised Distributor, agent or employee is authorised to make any modification or addition to this warranty or extend it in any way.

Except as provided in this warranty and to the extent permitted by law, GCP Dental is not responsible for direct, special, incidental or consequential damages resulting from any breach of warranty or condition, or under any other legal theory, including but not limited to loss of use, loss of revenue, loss of actual or anticipated profits (including loss of profits on contracts), loss of the use of money, loss of anticipated savings, loss of business, loss of opportunities, loss of goodwill or reputation, loss of, damage to or corruption of data, or any indirect or consequential loss or damage of any kind whatsoever caused including the replacement of equipment and property. The foregoing limitation shall not apply to death or personal injury claims.



WARRANTY REGISTRATION

Please find below our Warranty Registration Form for your device. For **correct registration of your warranty, it is necessary that you fill in this form completely** and return it with a copy of your invoice within two weeks after purchase.

Only after receipt of the abovementioned documents can GCP Dental include the device in the warranty register. The warranty period will be one year after the date of purchase, as documented on the invoice and registration form.

Failure to follow this registration procedure will result in a warranty period expiring one year after the device was shipped from GCP Dental's warehouse to the distributor or end user.



ENGLISH

WARRANTY REGISTRATION FORM

Product : _____

Model : _____

Serial number : _____

Date of Purchase : _____

Name : _____

Address : _____

E-mail : _____ Phone: _____

Name of Distributor : _____

Authorised Distributor's : _____

Stamp and Signature

Send warranty registration to warranty@gcp-dental.com.

CE marking obtained in August 2013

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