

INSTRUCTION MANUAL

MC 3 FP/3FP-S SYRINGE

MC 3FP/3FP-S SYRINGE
Angled or Straight Form

CE
0483



ADVANTAGES

- Very light!
- Syringe head can be removed for easy cleaning/desinfection
- Soft grip handle for safe use
- Quick-disconnect feature
- CE-approved

Soft grips are available in the following colours:

- quartz grey
- pink
- violet
- light blue
- geen



Sleeves available for various types of instrument holders.
(Please let us know which syringe has been used in the holder!)

Sleeve has about the same diameter as...



DCI® syringe
(standard sleeve)

Sprayvit
L syringe

Sprayvit
4000 syringe

Kavo®
3F/4F syringe

Kavo®
6F syringe

Faro®
3F/6F syringe

MC 3 FP/3 FP-S SYRINGE – INSTRUCTION MANUAL

Hazard Warnings:

- All water-carrying components such as syringe and hose are prone to algae and other germs in case they have not been in use for a longer time. As a consequence, all water-carrying parts must be flushed thoroughly before every use.
- Before every treatment it needs to be checked that the tip is attached tightly to the syringe. It needs to click into place when inserted. Otherwise, there is a risk that the tip may loosen during treatment and harm the patient.
- If hoses are clogged or leak or if they are not attached to the proper media, the intended use is no longer ensured. Any user must check before each individual use that the syringe works properly. Air and water outlets must work properly; there must not be any water in the air channel.
- Syringe, hoses and their connections must be checked regularly for leaks. Any component showing signs of leaks (leaking water) must be replaced at once. Also, all components must be checked to work properly (proper flow). The attached syringe must operate flawlessly. If performance deteriorated due to clogging, hoses and/or syringe must be replaced.
- To ensure that water and compressed air are of good quality, regular maintenance of the compressor and filter systems is essential. The use of hard, heavily chlorinated and unfiltered water may result in prematurely clogged or porous syringes, hoses and/or connectors. Oil-containing compressed air may cause infections and reduce drying efficiency.
- Humidity in the compressed air system may result in unwanted condensation during use in the syringe's air channel. Therefore, it must be ensured that the compressor systems provides dry air only.
- Hoses must be protected from mechanical damage.
- Air and water jets must not get into the eyes as exposure may cause irritations and/or injury.
- Syringe must be attached and installed to the supply unit in such a way that there are no tripping hazards.
- When connecting the syringe to a non-stationary water supply, it must be ensured that the water discharged is not too hot (test prior to use).
- Air and water must be able to discharge freely at the tip. Do not place the tip on a tooth or an item. Do not press the tip into the impression material.



Disposable tips must not be used again for sanitary reasons and must be disposed after use. Metal tips must be sterilized after every patient.

All serious incidents relating to the product must be notified to the manufacturer or the competent authority of the Member State in which the user and/or the patient is established.

Explanation of Symbols Used



Attention, safety relevant information, please read carefully and comply with the instructions.



One-time use only, do not reuse.



Manufacturer, Manufacturing date MMJJ



CE marking with identification number of the notified body.



Medical Device

MC 3 FP/3 FP-S SYRINGE – INSTRUCTION MANUAL

Intended use

The MC 3FP/3 FP-S syringe are intended to supply water and air or a water/air mixture into a patient's oral cavity during dental treatments for drying, cleaning and/or cooling the treatment object (tooth) and the surrounding area.

TECHNICAL DATA	
Min./Max. connection pressure – air	3.0 bar / 6.0 bar
Min./Max. connection pressure – water	0.5 bar / 6.0 bar
Min./Max. flow rate air	10 l/min / 21 l/min
Min./Max. flow rate water	72 ml/min / 320 ml/min
Ambient temperature for storage/transport	-20° to 70° C
Humidity for storage/transport	between 5 and 95%
Ambient temperature for use	3° to 40° C
Humidity for use	between 5 and 95%
Atmospheric pressure	between 800 and 1,200 hPa

Staff Requirements

The MC 3 FP and 3 FP-S syringe must only be used by competent and trained personnel.

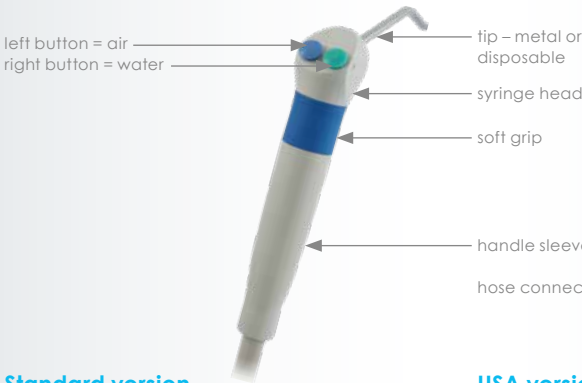
Tips

The tip must be inserted firmly into the intended opening at the syringe head until it clicks into place. If it does not click into place, it may fall out during use of the syringe. We recommend the use of disposable tips.

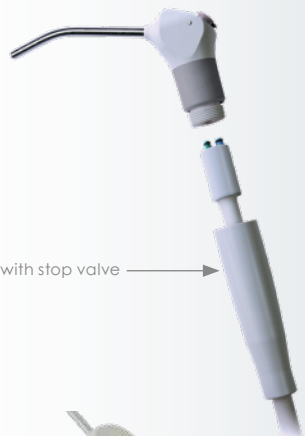
Operation

By pushing the left button on the syringe head (blue), the air outlet is opened; by pushing the right button (green) the water outlet is opened, and by pushing both buttons a water/air mixture is generated (spray) – **see version 1**.

Version 1: MC 3 FP Syringe with firmly mounted hose



Version 2: MC 3FP-S Syringe removable syringe head with hose



Standard version



USA version



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Installation

The end of the syringe hose must be connected to the water and air supply unit. The respective connection requirements need to be observed. When a unit-side connector is supplied, this must be inserted into the intended socket. When an open-end hose is supplied, the dark-green hose must be connected to the water supply and the blue hose must be connected to the air supply. Installation of the syringe hose to the supply unit must be carried out by trained and qualified staff.

MEDIA	MATERIAL	ID X AD (MM)	COLOR	RECOMMENDED NIPPLE CONNECTION	ILLUSTRATION
Outer hose	ALCO	6.20 x 8.00	grey	/	
Water hose	PUR	1.50 x 2.90	dark green	2.10	
Spray air hose	PUR	1.50 x 2.90	blue	2.10	

Total weight instrument hose (standard length 1,800 mm) = approx. 78 g

Cleaning

We recommend the use of products supplied by Alpro Medical GmbH: Minuten-Spray-classic for spray disinfection and MinutenWipes for wiping disinfection. Avoid the use of any acetone or chlorine based cleaning agents.

Precleaning

Use a soft brush and warm water to remove any dirt from the syringe. Cleaning should be done under running water (<38°C, water of drinking quality) until no more dirt is visible or cleaning does not more appear to be effective.

Disinfection

Spray syringe completely with MinutenSpray-classic. In addition, disinfect the areas surrounding the buttons with a cotton swab soaked in MinutenSpray-classic while you push them and the push buttons to spread the disinfectant more evenly. Make sure that all surface areas are moistened completely. Application time must be at least 1 minute. Please observe the manufacturer's recommendations for use of disinfectant. Then dry the syringe carefully with disinfection wipes (MinutenWipes). Dispose of the wipes and the disposable tips.

Wear disposable gloves during disinfection.

! Flush the syringe with water before you use it on a patient. Machine preparation or a sterilization is not recommended.

Initial use and use after extended idle times

- Clean the syringe before initial use and after extended idle times.
- Vent the pipes before initial use or if the supply hose has been disconnected from the treatment unit.

At the start of the working day

- Flush water and air channels for 20 to 30 secs.
- Only use filtered water.

Before treatment of a patient

- Flush water and air channels for 20 to 30 secs.
- Make sure that there is a perceptible air flow.
- Only use filtered water.

SERVICE/MAINTENANCE/SPARE PARTS

Service/Maintenance

The MC 3FP/3FP-S syringe contains parts that are subject to wear that tear and that need to be checked regularly and replaced, if necessary.

- If the tip is no longer tightly connected in the syringe head, the syringe tip socket needs to be replaced | **Item no.:** 8101.04812.05.
- If the MC 3FP/3FP-S syringe shows signs of leaks or if water leaks from the air canal (see hazard warnings), the o-ring needs to be placed | **Item no.:** 9329.1,5x1,5.SIL (please see below instructions).



Unscrew the syringe tip socket with a hex key and remove the o-ring with tweezers.



Insert the new, slightly lubricated o-ring with tweezers and press it into the recess with the hex key. Then screw on the syringe tip socket again.

! When using tweezers, please be careful not to damage the o-ring!

Spare Parts and Consumables

ITEM NO.	PICTURE	DESCRIPTION
795.540.35		Spare parts kit for MC 3FP/3FP-S syringe head (angled) consisting of two push buttons grey incl. springs and cross pin for syringe head
795.540.27		Spare parts kit for MC 3FP/3FP-S syringe head (angled) consisting of push buttons blue/green each incl. springs and cross pin for syringe head
8101.04812.05		Syringe fixation (internal part) for MC 3FP/3FP-S syringe including additional o-ring (9329.1,5x1,5.SIL) for syringe tip
8101.04812.05.III		Syringe fixation (internal part) for MC 3FP/3FP-S syringe including additional o-ring (9329.1,5x1,5.SIL) for syringe tip, PU 3 pcs.
8101.04813.35		Syringe fixation (internal part) for Riskontrol adapter DCI® for MC 3FP/3FP-S syringe including additional o-ring (9329.1,5x1,5.SIL) for syringe tip
9329.1,5x1,5.SIL		O-Ring ID 1.5 x 1.5 mm, SIL 70 PU 10 pcs.
795.580.00		Syringe tip metal, sterilizable
795.580.04.A		FASTips disposable air-water syringe tip, white PU 250 pcs.
1349.111.21		Soft grip quartz grey (Soft grips available in various colours)
1101.0483.05		Adapter for MC 3FP-S syringe for disinfection process (only for version with removeable syringe head)

For more product versions visit our online shop at www.mytronic-dental.com

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Many Years of Experience

Founded in 1971, Mytronic has been a leading manufacturer in the dental sector for more than 45 years specializing in the development and production of dental medical instrument hoses and spare parts.

Production – Everything from a Single Source

As we produce more than 90% of our products ourselves, have our own development department and make our own tools and moulds, we are in a position to respond quickly to any customer requirements. We at Mytronic also like to identify and initiate new ideas – together with our customers we develop new products and find solutions.

We are equipped with laser systems, CNC lathes, eroding and grinding machines, HSC processing centres (high speed cutting), extrusion facilities, injection moulding units, etc.

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Mytronic promises and delivers high-quality, innovative and durable products „Made in Germany“!

Certification

Mytronic is certified in compliance with DIN EN ISO 13485.

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Mytronic has its own development department, manufacture our own tools and moulds and produce over 90% of our products ourselves. Therefore, we are in a position to respond to any new product requirements quickly and can ensure highest quality standards. Mytronic is certified according to DIN EN ISO 13485.

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