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# OPERATING INSTRUCTIONS FOR BBRAUN INFUSOMAT INFUSION PUMP

## Overview



**Holder for Drop Chamber**  
Prevents unintended movement (swaying).



**Adapter for Drop Sensor**  
Replaceable, depending on drop chamber size. Press lateral and pull off.



**Universal Pole Clamp**  
Attach the Infusomat® fmS from above, clicking into its place. To release, press the black button.





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**Guide for Short Infusion Pole**

**Mains/Power Connection**

(protect against ingress of moisture). In case of mains/power failure, the pump switches to battery operation. Battery operation time: > 3.5 h at highest delivery rate. Automatic overload protection. Mains fuse: directly above the mains/power connector.

**Potential Equalisation**

To be connected for  CF-applications.

**Mains/Power Supply**

For operation with fluid manager system.

**Door Opener**

**Aluminium Housing**

Easy-care, drip water protected, resistant to disinfectants.

**Special Functions "SF"**

**Function Keys (Soft keys)**

**Mains/Power Switch ON/OFF**

**Suppress alarm tone for 2 min**

**Infusion START/STOP**



**Multi-Function-Connector (MFC)**

Connection for staff call, ambulances (12 V DC) and interface for fm anaesthesia/fm intensive.

**Optical Interface**

Infrared Interface for operation on "fluid manager system".

**Flow Inhibitor**

Opening door clamps off infusion line automatically.



**Peristaltic Pump**

For precise and reliable dosage.

**Function Keys**

**VOL Infusion Volume**

Press key below VOL. Enter volume (0.1 ... 9999.9 ml). Confirm. Press again key below VOL.

**TIME Infusion Time**

Press key below TIME. Enter time e.g. 50 min as 5 0 or 2 h 30 min as 2 3 0. Confirm. Press again key below TIME.

**RATE Delivery Rate**

Only active when rate is calculated automatically. The key below RATE confirms the calculated rate.

**SF Special Functions**

If activated: dose calculation / bolus function / standby / drug selection / occlusion pressure / drop control / piggyback / battery capacity / data lock / contrast / date, time / software IFME offers the possibility to adjust audible alarm signal via SF mode

# Operation

## Infusion

1. Ensure reliable installation  
Never position infusion bottle below pump level.

- Connect staff call.
- Insert spike vertically into infusion bottle.
- Fill lower part of drop chamber to max. 2/3.
- Open roller clamp.

2. Filling and Venting

Fill infusion line from bottom to top.

- Close roller clamp.

3. Insert Infusion Line

Press door opener.

- Insert infusion line: Locate clips first on top, then on bottom.
- Keep infusion line in place at air sensor.
- Close door. In the area of the peristaltic pump segments and free-flow clamp the infusion line will be positioned self-acting.
- Open roller clamp completely. There may not be a continuous drip.
- Place drop sensor on drop chamber (if necessary, use an appropriate adapter).

4. Switch On with 

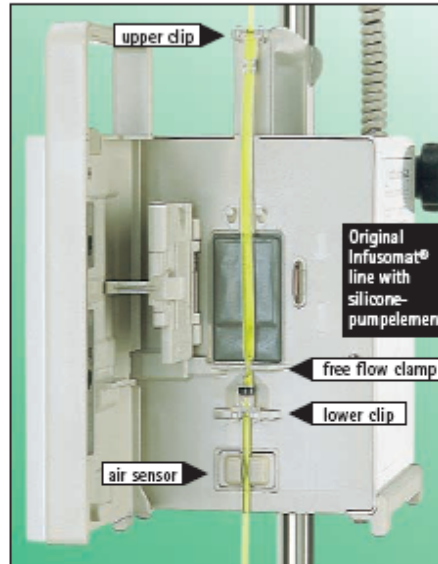
Green mains/power control or yellow battery control, alarm tone and display LED's are briefly activated.

5. Puncture

6. Setting the Delivery Rate

In the range: 0,1 bis 999,9 ml/h and check (selectable in 0,1 ml/h-increments).


Correction: Press C, then set new rate. Select additional settings, if desired (see page 9).



7. Press START

Operating symbol appears on the display and the green operating indicator lights.

8. Stop the infusion

- Press STOP. Green operating indicator goes out
- Close roller clamp.
- Press door opener. Infusion line will be clamped off when opening the door.
- Remove infusion line. First bottom, then top.- Replacement: Insert new infusion line as described. Then press START again.
- To end switch off  
Press  for 2 sec.



## Additional Settings

### To Change the Delivery Rate

- Press **START/STOP**.
- Green operating indicator goes out.
- Press **C**.
- Display reset to 000.0
- Enter new delivery rate. (No setting possible, when C has not been pressed.)
- Press **START/STOP** to restart infusion. (Alarm if no restart within 2 min).

### To Change the Rate Without Interrupting the Infusion (Function can be deactivated by Service staff)

- Enter new rate.
- Press key below **RATE**. Rate is transferred to the upper level as large numbers.
- Pump operates at new rate. (If new rate is not confirmed within 10 sec, infusion continues at previous rate.)

### Target Volume (Volume Pre-selection)

The target volume will be administered independent on the infused volume.

- Press key below **VOL**.
- Enter target volume via keypad and confirm with **VOL**. Values between 0.1 and 999.9 ml. After confirming the display shows the residual volume instead of the target volume.

#### Note:

When target- / residual volume has been administered, the device switches to KOR-mode. Stop pump and press **VOL**. Clear displayed residual volume with **C** (in display appears target volume ----.- ml) and confirm with **VOL**. If desired, enter new target volume.

To continue infusion, the target volume has to be displayed as ----.- ml or a new target

volume has to be set.

### Target Time (Time Pre-selection)

- Press key below **TIME**.
- Enter target time via keypad (50 min = 50; 2 h 30 min = 2 3 0).
- Confirm: Press key below **TIME** again, instead of the target time the residual time is displayed now.
- Correction
- Press **C**. Display --h--m. New entry.

#### Note:

When pre-selected time has been expired, the device switches to KOR-mode. Stop pump and press **TIME**. Clear resid. time with **C** (in display appears target time --h--m) and confirm with **TIME**.

If desired, enter new target time. To continue infusion, the target time has to be displayed as --h--m or a new target time has to be set.

### Rate Calculation

(Displayed delivery rate must be 000.0)

- Enter volume and time.
- The delivery rate is calculated automatically and displayed (rounded to one decimal place).
- Confirm: Press key below **RATE**.
- Start infusion with **START/STOP**.

### Clear Time/Volume

- Press **STOP**, then key below **VOL** or **TIME**.

- Press **C** to clear.

1x: Target Vol/Time = ----.-ml / --h--m

2x: Infused Volume/Real Time  
 = 0.0ml / 00h00m



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## **BBRAUN INFUSION AND SYRINGE PUMP COMMON INSTRUCTIONS**

- Make sure the unit is firmly in position. This applies in particular to use with infusion stands or wall rails.
- Always check the audible and visual alarms prior to use.
- Patient connection should only be made when the device is switched on.
- Interrupt connection when changing syringe to avoid danger of incorrect dosage.
- Make sure the syringe/tubings is correctly positioned.
- Whenever the inputs are made, value displayed is to be compared to value entered. Do not use unit unless the values coincide.
- Make sure that there are no kinks in tubing; ensure unimpeded flow.
- Make exclusive use of disposables. Replace after 24 hours.
- Use only compatible combinations of equipment, accessories, working parts and disposables.
- The infusion lines should be placed in such a way that the syringe cannot be pulled out of its fixation because of uncontrolled drawing.
- Cleaning should be carried out with soap and water solution.
- For disinfection use only surface disinfectants.