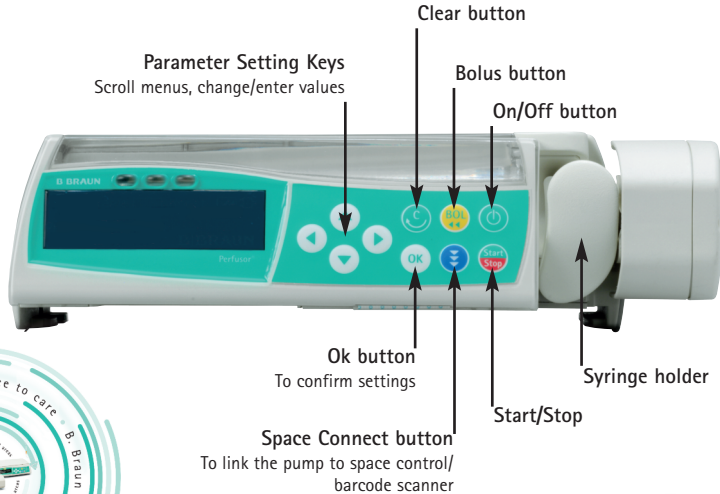


Perfusor® Space Syringe Pump – Quick Reference Guidelines




B | BRAUN
SHARING EXPERTISE

BACN

British Association
of Critical Care Nurses


Educational and procedural content
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Software F/G/H/J

1. Press  to switch on the pump.
 - The pump will go through a series of self checks and the drive arm will extend.
2. Open the pump door then open the syringe holder and turn fully to the right.
3. Insert the syringe with wings upright. Ensure the green clasp is situated to the right of the wings.




4. Close the syringe holder and the pump door.

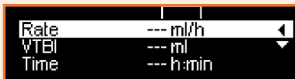
 If the wings of the syringe are not correctly placed within the green clasp, "Syringe invalid" will be displayed on the screen. Open syringe holder and replace syringe correctly.

5. Confirm the correct syringe brand and size by using , then .

- The drive unit advances automatically and grips syringe.

 The syringe brand selected on the pump must correspond with the syringe inserted.
Do NOT block the advancing drive.

- Start from the Main Menu.




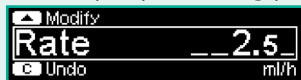
- Press to open rate setting.
- Select the correct rate using the directional keypad .
- Press to commence infusion.
 - Moving arrows on the display plus a **green** operating light indicate the pump is infusing.



Setting a Volume To Be Infused:


- Follow steps 1 and 2 from above.
 - Press to return to Main Menu.
 - Use to highlight the VTBI setting, and press .
 - Select the correct VTBI using the directional keypad and press to confirm.
 - Press to commence infusion.
- Check the displayed value with the value intended. Start only if the values correspond

During Infusion: The infusion will NOT be interrupted





1. Whilst the pump is running press  to open the rate setting.




2. Select the new rate with .
3. Press  to confirm.


If you do not press  within 20 seconds a "value not accepted" alarm will sound.


Stopping the Infusion to change rate:



1. Press  to stop infusion.
2. Press  to open rate setting.
3. Select the correct rate with .
4. Press  to commence infusion with modified rate.


 Always check the displayed value with the value intended.

- Disconnect or clamp the line to the patient to avoid dosage errors during syringe change.
- Never leave the pump unattended during syringe change.
- Pump must be switched ON to perform syringe change.

1. Press  to stop infusion.
2. Open and close syringe holder without turning to the right.

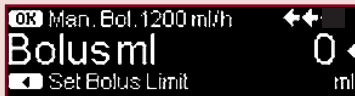
 If syringe is completely empty you will not be able to turn syringe holder until the drive has withdrawn.





3. Answer YES with  to "Perform syringe change?"
 - Drive unit moves backwards into starting position.
4. Open syringe holder and pump door; remove syringe.
5. Repeat "Load Syringe".
6. Check set parameters in the main screen and press  to recommence infusion.


 Check the displayed value with the value intended.
Start only if the values correspond.

⚠ The pump must be infusing in order to deliver a bolus.

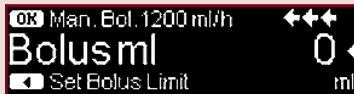
- To deliver a bolus with a preset bolus limit:





1. Press  to access the bolus screen.
2. Press  to access the bolus limit screen.
3. Using  set a bolus dose.
4. Press  to deliver the bolus.

⚠ Remember that the bolus can be stopped at any time by pressing .




- To deliver a manual bolus:




1. Press  to access the bolus screen.
2. Press and hold the  to deliver a manual bolus.

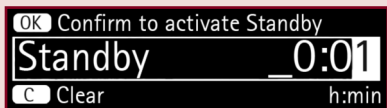
- The pump will only allow a manual bolus to be delivered for a maximum of 10 seconds.





⚠ Ensure you check the delivery rate on the bolus screen before delivering the bolus.



1. Stop the infusion by pressing .
2. Press  once to access the Standby Function.
3. Answer YES with  arrow key to "Use standby?"
 - Standby will now be activated with previously used standby time.




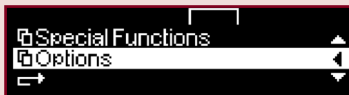
4. To change the desired duration the pump goes into standby press  arrow key.





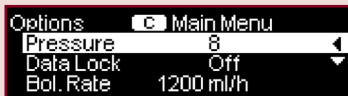
5. Use the directional keypad  to change the time or press  to clear and start from zero.
6. Once desired time has been chosen press  to confirm.
 - The pump will now start to count down the desired standby time.
 - Standby mode can be cancelled at any time by pressing .


 If the syringe is in-situ the pump cannot be switched off.
Standby is activated after pressing  for 3 seconds.

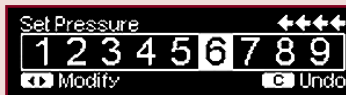
1. If the infusion is running press  to return to the Main Menu.
When the infusion is stopped it will automatically be on the Main Menu screen.










2. Use  to highlight the Options Menu.
3. Once Options is highlighted, press .



4. Press  to access the Pressure settings.





5. Use  to adjust the pressure alarm setting.
Adjust in accordance with local policy. The higher the pressure alarm level is set, the higher the resistance must rise before triggering an occlusion alarm. Increasing the pressure alarm setting may lead to a prolonged alarm reaction time.
6. Press  to confirm the new pressure setting.
 - If the pump is running it will automatically default back to the running display. If the pump is not infusing, press  to return to the Main Menu.

1. From the Main Menu use the  to scroll down to the Options Menu.
2. Once the Options Menu is highlighted press  to access.
3. Use the  arrow keys to highlight Data Lock and press  to access.



Set Data Lock


Off Level1 Level2 OK▶


4. Use the  to set Data Lock at Level 1 or Level 2 and then press .


LEVEL ONE will allow the user to start and stop the infusion, change the disposable, and turn the pump off. All other actions will require the code.



LEVEL TWO will only allow the user to stop the infusion. All other actions require the code.


5. Activate Data Lock by using the directional keypad  to input the 4 digit code:
 Once activated any changes need to be made within 20 seconds. After this a key symbol appears on the screen. At this point any further changes to infusion parameters will require the code.
6. De-activate the Data Lock by following steps 1 to 5 and returning the Data Lock level to OFF.



 The syringe must be removed in order to switch the pump off.

1. Stop the infusion by pressing .
2. Open and close syringe holder without turning to the right.

 If syringe is completely empty you will not be able to turn syringe holder until the drive has withdrawn.

3. Answer YES with  to "Perform syringe change?"
 - Drive unit moves backwards into starting position.
4. Open syringe holder and pump door; remove syringe.
5. Turn the pump off by pressing  for 3 seconds.
6. The drive moves into "Parking Position".


 The drive will not approach Parking Position if it has not been allowed to extend fully OR if the syringe holder is left open. Switch on and repeat.

 If the syringe is in-situ the pump cannot be switched off. Standby is activated after pressing  for 3 seconds.

- Yellow LED Alarm


"Syringe nearly empty"

Very little fluid left in syringe.

Press  to mute alarm, infusion will continue and the time remaining will flash on the display as a countdown timer.


"VTBI near end"

The pre selected volume is nearly infused.

Press  to mute alarm, infusion will continue and the time remaining until end of VTBI will flash on the display.


"Time near end"

Pre selected time has nearly finished.

Press  to mute alarm, infusion will continue and the time remaining will flash on the display.


"Battery nearly empty"

The battery is almost discharged. You have 30 minutes before the pump will automatically turn off.

Press  to mute alarm, connect to mains or replace battery pack.



- **Red LED Alarm**

"Device Alarm"

Press  to switch the pump off, then immediately switch back on. If self check is then completed, continue to use the device. Should alarm re-occur, note the error code, withdraw pump from use and report fault as per local policy.



"Pressure high"

Occlusion in the system, set pressure level was exceeded.

1. Press  to mute alarm.
2. Check and act accordingly.
Is the tubing kinked or damaged?
Is the patient access patent?
If there is an inline filter, is that patent?
3. Increase occlusion pressure if necessary (see Adjusting Pressure Settings).
4. Press  to recommence infusion.

"Syringe Holder"

The syringe holder was opened during a running infusion.

1. Close syringe holder, press  to mute alarm.
2. Change syringe if needed or press  to continue.

• Red LED Alarm

"Syringe empty"

No fluid left in syringe.

Perform syringe change or end therapy.







"VTBI infused"

Pre selected volume infused and KVO inactive

To continue without VTBI

1. Press  to mute alarm.
2. Press  to resume.

Or to enter new VTBI

1. Press  to mute alarm.
2. Use  to highlight VTBI and press .
3. Use  to enter VTBI and press .
4.  to restart infusion.

Or to end infusion

Remove syringe and turn the pump off.







"Time expired"

The pre selected time has expired.

To continue without preset time

1. Press  to mute alarm.
2. Press  to resume.

Or to enter new time

1. Press  to mute alarm.
2. Use  to select time and press .
3. Use  and  to enter a time.
4. Press .

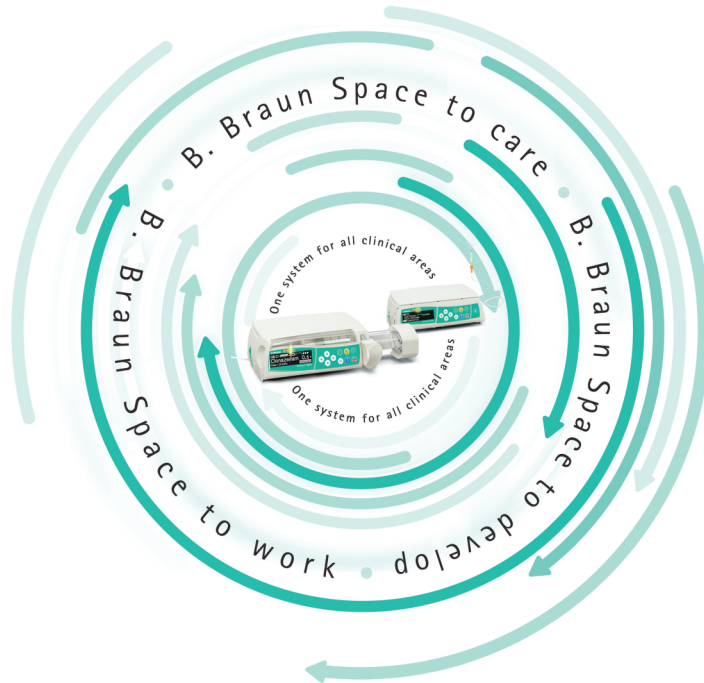
Or to end infusion

Remove disposable and turn the pump off.

"Battery empty"

The battery pack is discharged, you have 3 minutes before the pump will automatically turn off.

Connect to mains or replace battery pack.



This booklet is provided for reference only. Prior to operating this equipment all users should consult the full Instructions For Use.

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