SPACE INFUSION SYSTEM
INFUSION PUMP AND
SYRINGE PUMP

B.Braun Vet Care
Infusion Therapy

Ways of fluid administration:

<table>
<thead>
<tr>
<th>Gravity</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Pressure cuffs</td>
<td>• Syringe Pump</td>
</tr>
<tr>
<td>• Gravity infusion</td>
<td>• Volumetric Pump</td>
</tr>
<tr>
<td>• Flow Regulator</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>accuracy</th>
<th>constancy</th>
<th>safety alarm</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gravity</td>
<td>no</td>
<td>no</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Pressure</td>
<td>yes</td>
<td>yes</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>
The Space family

- high accuracy – be always on the safe side
- small footprint - stackable
- easy interface – you know one you know them all
- can admirer all fluids, drugs or liquids you which could go into a vein
- dose rate calculation
Interface

INFUSOMAT SPACE (Art. No: 8713050)

- Yellow LED: Prealarm, reminder alarm
- Clear Button
- BOLUS Button
- On/Off Button
- Eject button: Press to open the pump
- Keypad with Arrow Up, -down, -left, -right Button
- OK Button
- Start/Stop Button

PERFUSOR SPACE (Art. No: 8713030)

- Yellow LED: Prealarm, reminder alarm
- Clear Button
- On/Off Button
- BOLUS Button
- Keypad with Arrow Up, -down, -left, -right Button
- OK Button
- Start/Stop Button

Green/Red LED: Infusion occurring/ device alarm, operating alarm
Build a flexible system

- Up to pumps per pole clamp
- Only 1 power cord needed
Build a flexible system with Space Station

- 4 pumps per station
- 6 stations can get connected together
- Only 1 power cord needed
Infusomat Space - for larger volumes

- 5 % accuracy
- adjustable between 0.01 ml – 1200 ml flowrate
- weight 1.4 kg
- Battery : 4 hours with 100 ml/h
- Runs with Infusomat Space Line only
- IV line based free flow clamp
- IV line usage for 96 hrs.
Priming Space Line

Handling information

• Do not rotate during piercing!
• Danger of contamination with particles from container port!

After closing the roller clamp, hang the container at the stand.
Handling information

It’s necessary to open the ventilation when the pump (with all kind of containers) is running to prevent an air suuction into the silicone element !!!
Priming Space Line / Load the Infusomat
Priming Space Line / Load the Infusomat

**Customer Benefits**

- Line rotation is a general problem, but B. Braun is the only one, that has a solution for this challenge !!!
Free flow clamp
Syringe Pump

Perfusor Space S

- 2% accuracy
- Adjustable between 0.01 ml – 800 ml flowrate
- Weight 1.4 kg
- Battery: 8 hours with 25 ml/h
- Runs with syringes between 2ml and 60ml from different manufacturers
1. Press ( ) to power on the pump.
2. Syringe driver will automatically move backward.

3. Open the door.

4. Pull the syringe holder forward until the end and turn it to the right direction.

5. Insert a syringe in an 45 degree angle and turn it up.

6. Syringe must be fixed with wings upright in the slot.
7. Ensure wings are fixed in the slot of green axial fixation.

8. Use left hand to hold syringe & right hand turn the syringe holder upright.
9. The piston brake will lock the syringe to prevent accidental boluses.
10. Close the door.

11. From the display, press ↑ or ↓ to highlight the syringe selection.

12. Press ← or OK to confirm selection.

13. Syringe driver will automatically move forward to lock the syringe.

14. Syringe is loaded.

15. Pump is ready to be used.
2 level menu structure

RUN Screen
Information and Settings permanently used

1. Level
Information and Settings sometimes used

2. Level
Information and Settings single used (once a therapy)
2 level menu structure

RUN Screen
Information and Settings permanently used

1. Level
Information and Settings sometimes used

2. Level
Information and Settings single used (once a therapy)
Run screen – the pump is working
Run screen – the pump is working
Alarm management with Space

**Red alarm**
- Pump stopped
- Pressure high
- Air bubble
- Cumulated air bubble

**Orange alarm**
- Pump still delivers
- Infusion nearly empty (default: 3 min. before)
- Reminder alarm (values entered but not accepted)
Outstanding Safety Features

- Single air bubble and cumulated air bubble alarm
- Pre-alarm for syringe or infusion container empty
- Adjustable pressure alarm (in 9 steps; from 70 – 900 mmHg)

- **Bolus reduction system**
  - In case of pressure alarm, the pump reduces the pressure in the system to avoid accidentally injecting a bolus
MRI Station

Your patient needs a MRI scan – no problem!
For every therapy the correct disposable

- Standard IV lines
- Blood transfusion lines
- Enteral Nutrition
- UV protection
- Burette system
- Oncology
**No hemolysis** during blood transfusion with Infusomat Space

<table>
<thead>
<tr>
<th>Infusomat® Space Lines Type Transfusion</th>
<th>Add on</th>
<th>PVC (DEHP-free)</th>
<th>Neutrapur (PVC-free)</th>
<th>Length (cm)</th>
<th>Sales Unit / Pcs.</th>
<th>Code No. (REF)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Drip chamber with integrated blood filter (200 μm pore size)</td>
<td>□</td>
<td>-</td>
<td>250</td>
<td>100</td>
<td>8270066SP</td>
</tr>
<tr>
<td></td>
<td>Drip chamber with integrated blood filter (200 μm pore size), needle-free Safeflow injection port</td>
<td>□</td>
<td>-</td>
<td>250</td>
<td>100</td>
<td>8270074SP</td>
</tr>
</tbody>
</table>

Validated test results available

Test: Hemolysis (dynamic conditions), EN ISO 10993-4, -12, LM P 5-04, LM SOP 5-04-01
Why Space – **Dose rate Calculation**

- **easy calculation of dose rates**
  
  *example*: dog bodyweight of 18 kg
  
  - medication is labeled 20 mg active agent
  - the bottle is filled with 50 ml
  - dosage for the patient is **8 mcg/kg/h**
  
  How much is that in ml/h? *Ask your pump*

- avoids personal failures

- user friendly interface
Why Space – **Drug Library**

- **naming drugs**
  
  *till 1.200*

- **default starting doses**
  
  *fast and simple start*

- **set hard & soft limits**
  
  *no manual failure possible*

- **set dosing parameters –**
  
  *up to 10 concentrations per drug*
Thank you