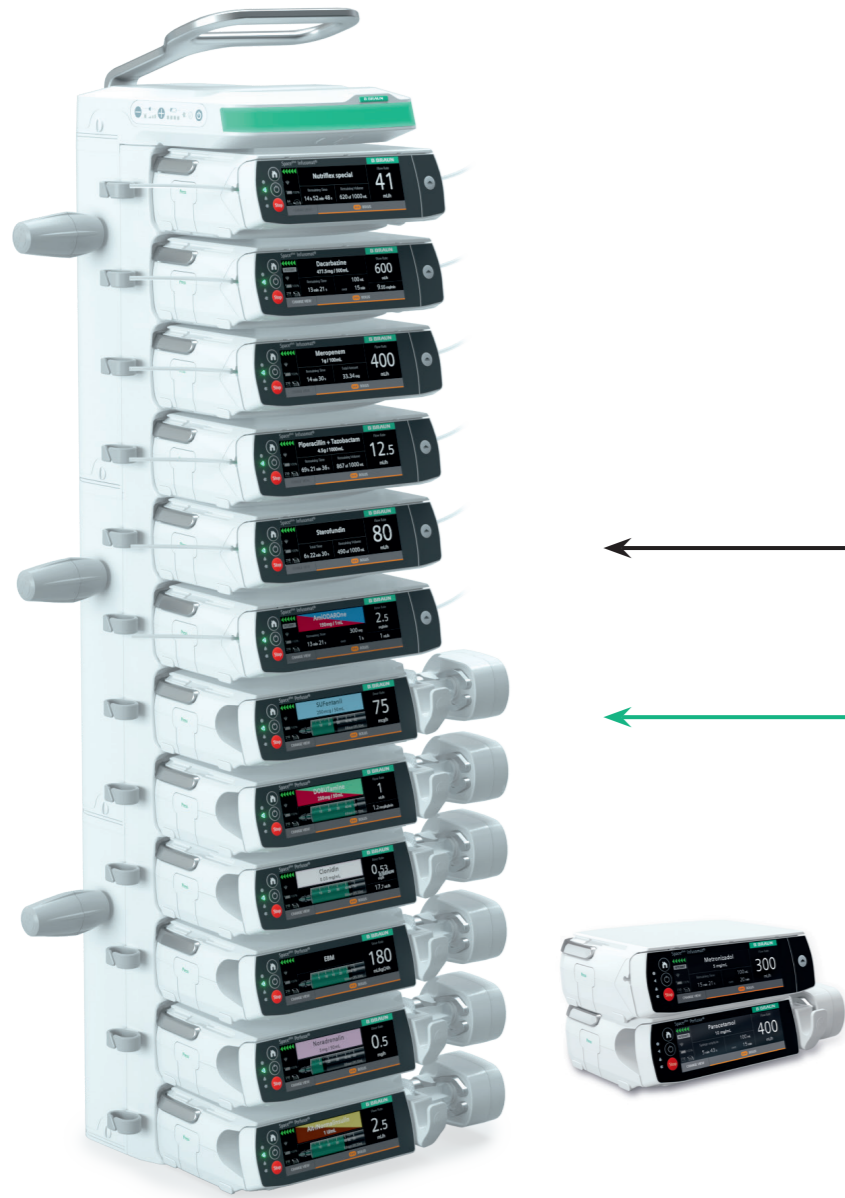


Space[®]plus & OnlineSuite^{plus}



A milestone in medication safety for comprehensive infusion therapies.

#spaceplus



Welcome to Space^{plus} & OnlineSuite^{plus} – our new Smart Infusion Ecosystem!

Space^{plus} and OnlineSuite^{plus} make up a unique ecosystem that allows the seamless flow of data. Each pump is equipped with an integrated WiFi module, enabling a continuous bi-directional exchange of data – even during transport.



70 YEARS
OF EXPERIENCE
IN INFUSION
PUMP SYSTEMS
SINCE 1951

Engineered
& Made
in Germany

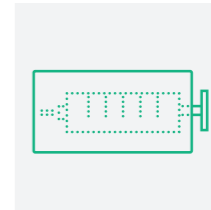


Touch screen technology Highly visible colour display



Syringe status via UI

The new user interface makes it even easier to schedule syringe changes easily, as the fill status of the syringe is visualised on the screen.



Touchscreen user interface

The touchscreen colour display guides healthcare professionals through therapy settings and options.



At a glance

Even from a distance, the active agent of a running infusion or pump alarm can be identified.



Ease by design.

The operation of Space^{plus} is highly **user-friendly and intuitive** and can be customised to clinical workflows in order to reduce medication errors.

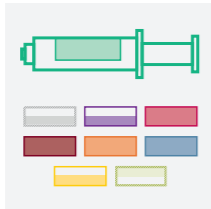
Both the Infusomat[®] and the Perfusor[®] have the **same design, interface and menu structure**. This means less training for healthcare professionals and a reduced risk of incorrect handling.

Space^{plus} allows one to **react quickly and appropriately**.

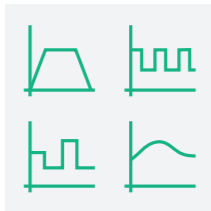
Even more performance Even more space



DoseGuard™ –
The safer, the better
DoseGuard™ helps to reduce the risk of medication errors by adding safety limits to therapies.



Drug colour coding
Space^{plus} offers multiple and individual drug colour codes to support safety at first glance.



Various therapy modes
Space^{plus} offers a variety of therapy modes for infusion, pain and nutrition therapies. For hospital-wide usage - no matter where!

Space^{plus} DrugLibrary Manager
Manage medication data centrally to configure your drug library according to the care unit and patient-specific needs.

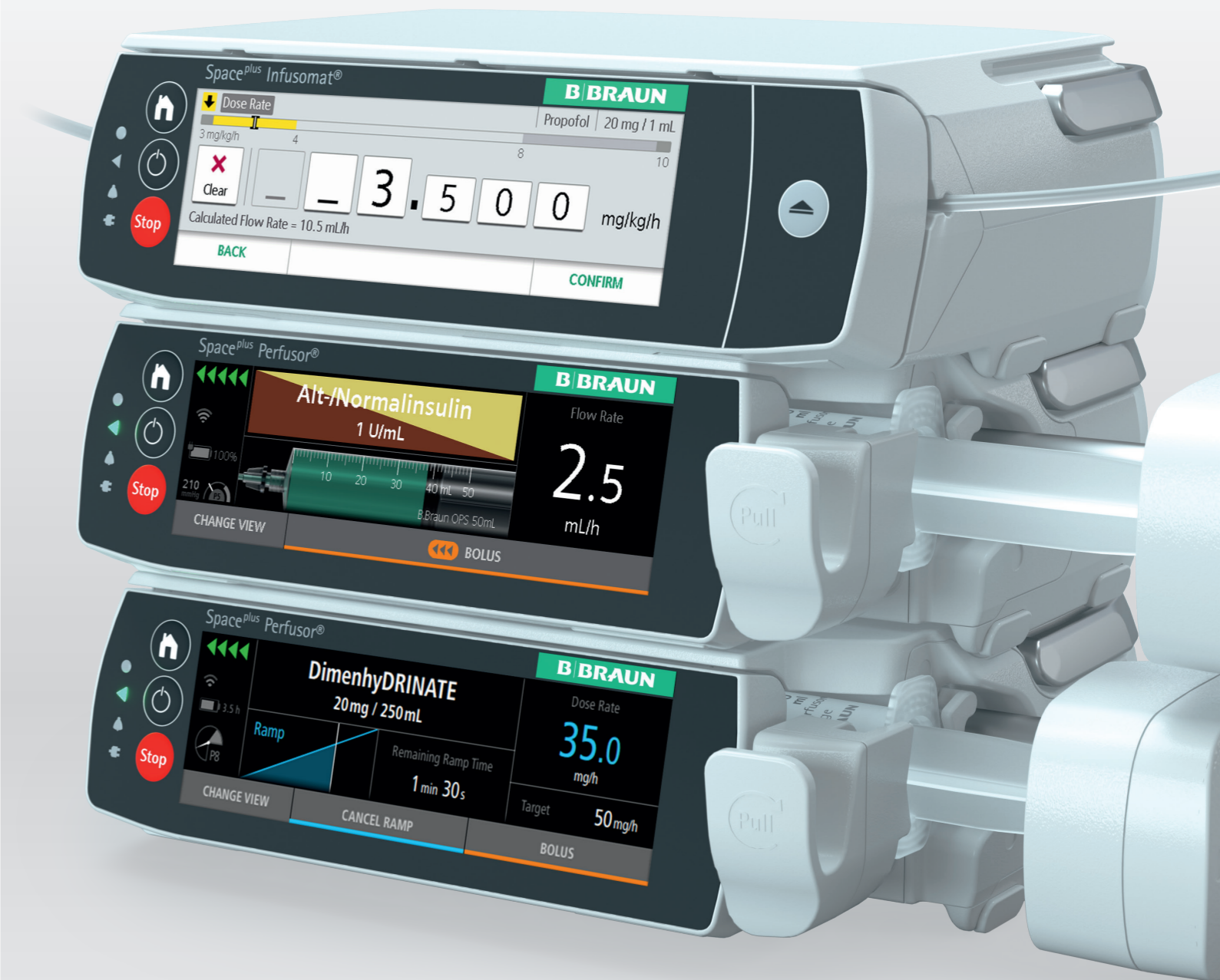


Thinking in larger scales.

Space^{plus} covers a wide range of therapies for **adults, paediatrics and neonates** for the delivery of parenteral and enteral fluids. These routes of administration include **intravenous, intra-arterial, subcutaneous, epidural and enteral.**

Therapy modes and limits to customise drug profiles reflecting hospital protocols, reducing nurse workloads and reducing medication errors.

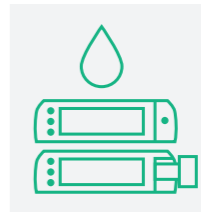
The system allows for **seamless workflows** during intra- and interhospital transfer as well as during MRI scans with the respective accessory.



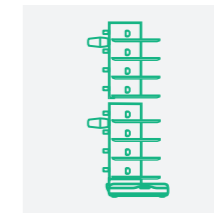
Award winning workplace design and flexibility



IP44 moisture protection
Our pumps feature IP44 moisture protection against splashing water from any direction.



Advanced workplace design
Giant possibilities in the smallest of spaces: The modular system allows for configurations of up to 24 pumps.



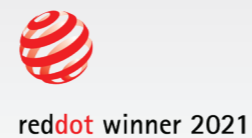
Carry handle
The integrated carry handle supports the easy transportation of up to three stacked pumps.



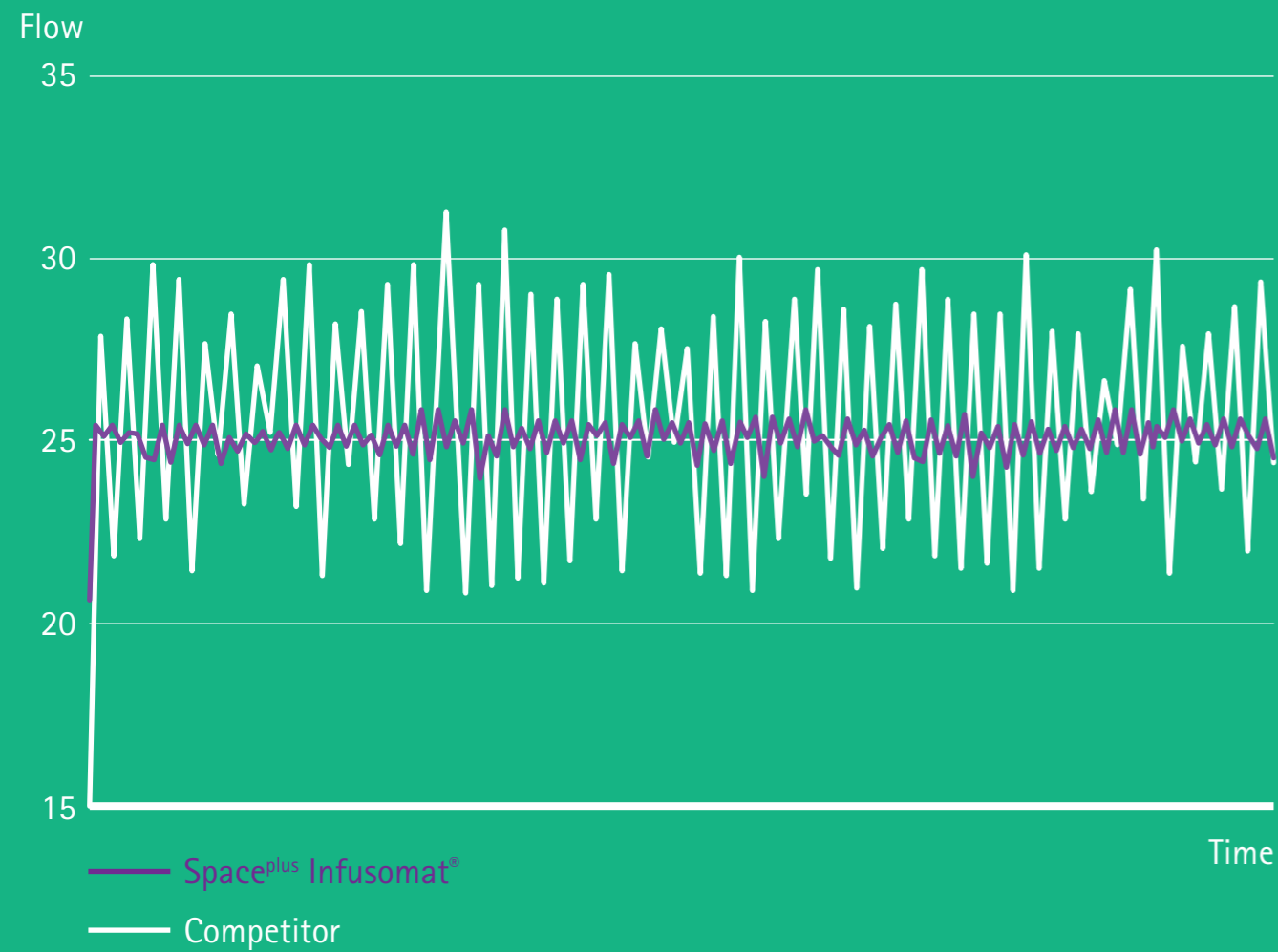
Scalable modular system for flexibility in the clinical setting

Easy and tool-free **connection of up to 6 stations** that can be extended to a workstation for **up to 24 infusion pumps**.

The station displays visual and audible alarms centrally, allowing for quicker alarm localisation within the room. The innovative design supports routine tasks like cleaning and disinfection.



Flow accuracy at 25 ml/h

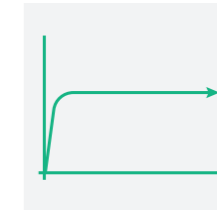


This graph shows the accuracy and uniformity of flow over time. It must be remembered that the delivery characteristics and the delivery accuracy are significantly affected by the disposable used.

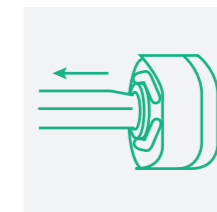
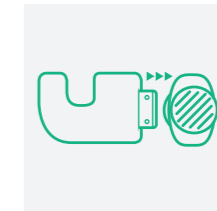
Accurate and consistent flow rate are particularly important for high-alert medications that pose significant risk when improperly delivered.

Interact with technology Interface with life

Syringe piston brake
The unique syringe piston brake helps to prevent freeflow and handling mistakes during syringe change.



Outstanding accuracy
Precision determines health. Spaceplus Perfusor® and Spaceplus Infusomat® introduce new dimensions of delivery rate accuracy based on advanced mechanical drive technology.



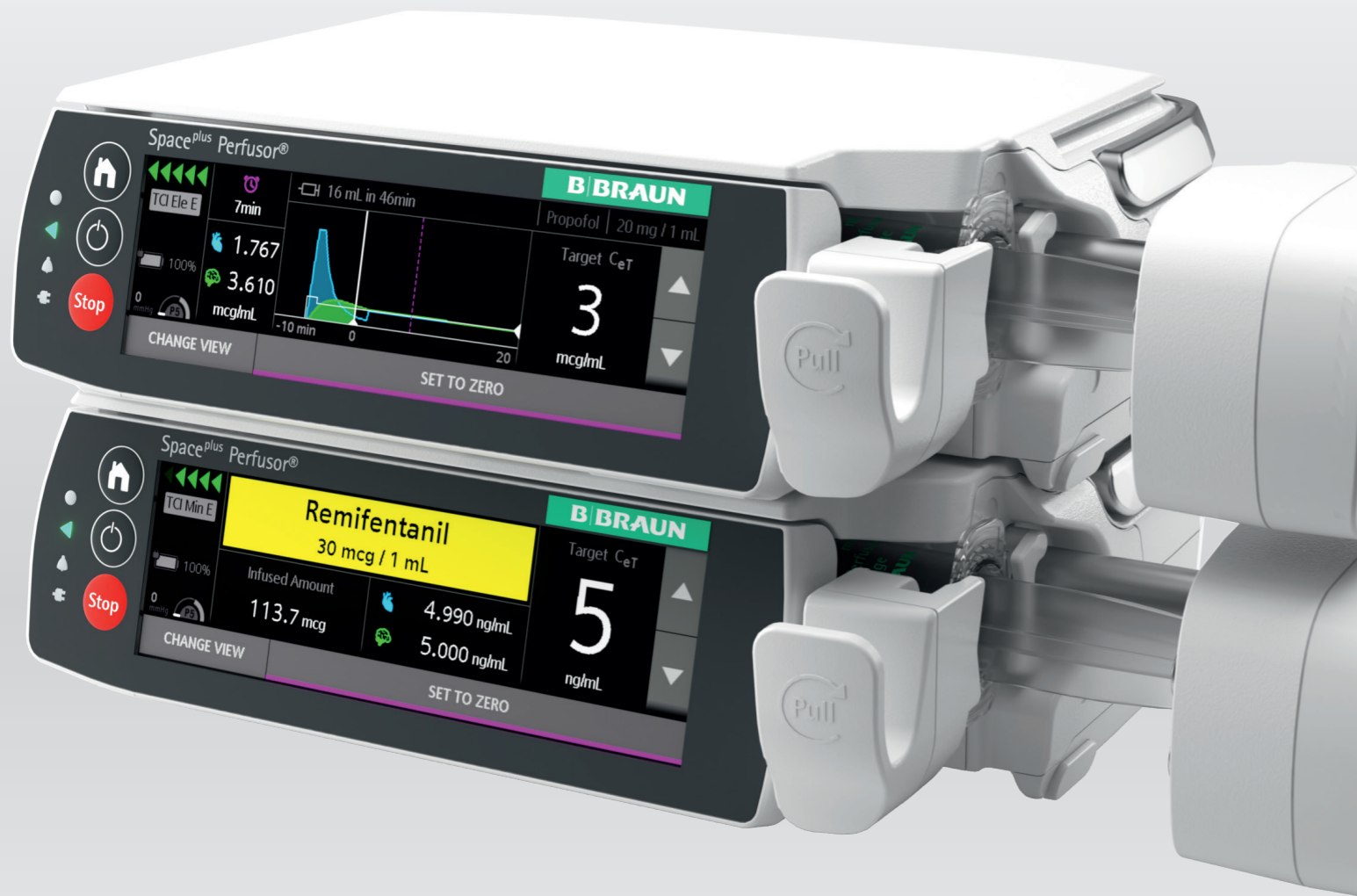
Full automatic drive
The automatic drive technology allows for outstanding start-up when changing disposables: it's fast and highly accurate.

Infusomat® meets Perfusor®

The innovative drive technology not only enables **outstanding startup and delivery performance**, but also delivers safety and unique convenience when changing disposables - **the risk of freeflow is minimised**

Catecholamines are also not a problem, as they can be administered with the Infusomat® **due to consistently high precision**.

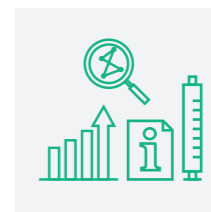
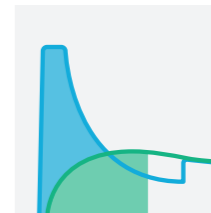
Target controlled infusion (TCI) Algorithm-based TIVA



- Eleveld
- Schnider
- Marsh
- Minto
- Gepts
- ...

A variety of algorithms
TCI models are available for various anaesthetic drugs. There are specific models for children, adults, bariatric patients etc.

Graphical TCI curve
Clinicians can easily visualise the status of the anaesthesia via on-screen graphical display.



Information density
The touchscreen user interface displays the coloured graph and further TCI relevant data such as target concentration, drug name and remaining volume in the syringe.

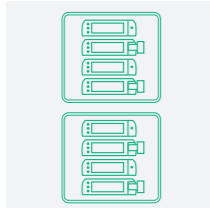
Target Controlled Infusion with Infusion Pumps

Target Controlled Infusion (TCI) is a standardised infusion technique for the administration of opioids, propofol and other anaesthetic agents.

TCI comprises the implementation of pharmacologic models in infusion pumps through specific algorithms. Based on these algorithms, "TCI pumps" control the infusion rates in order to reach and maintain predefined concentrations (= targets).

Space^{plus} MRI Seamless infusion management

Up to eight pumps
Customisable with up to
8 Space^{plus} Infusomat[®]
or Perfusor[®].



Tesla MFI
Integrated *Tesla MFI* (Magnetic Field Indicator) continuously monitors magnetic field strength to ensure proper placement.

Deadman brake
Space^{plus} MRI Station is automatically locked when the deadman's brake handle is released.

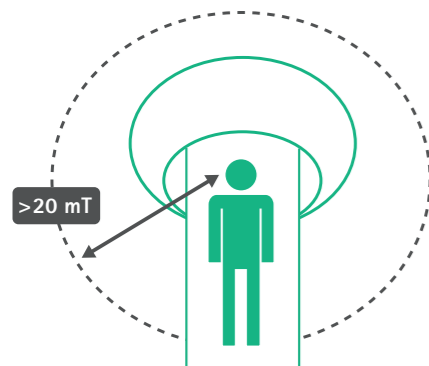


Large-sized alarm display
Infusion parameters as well as alarms always visible for caregivers during MR scan.

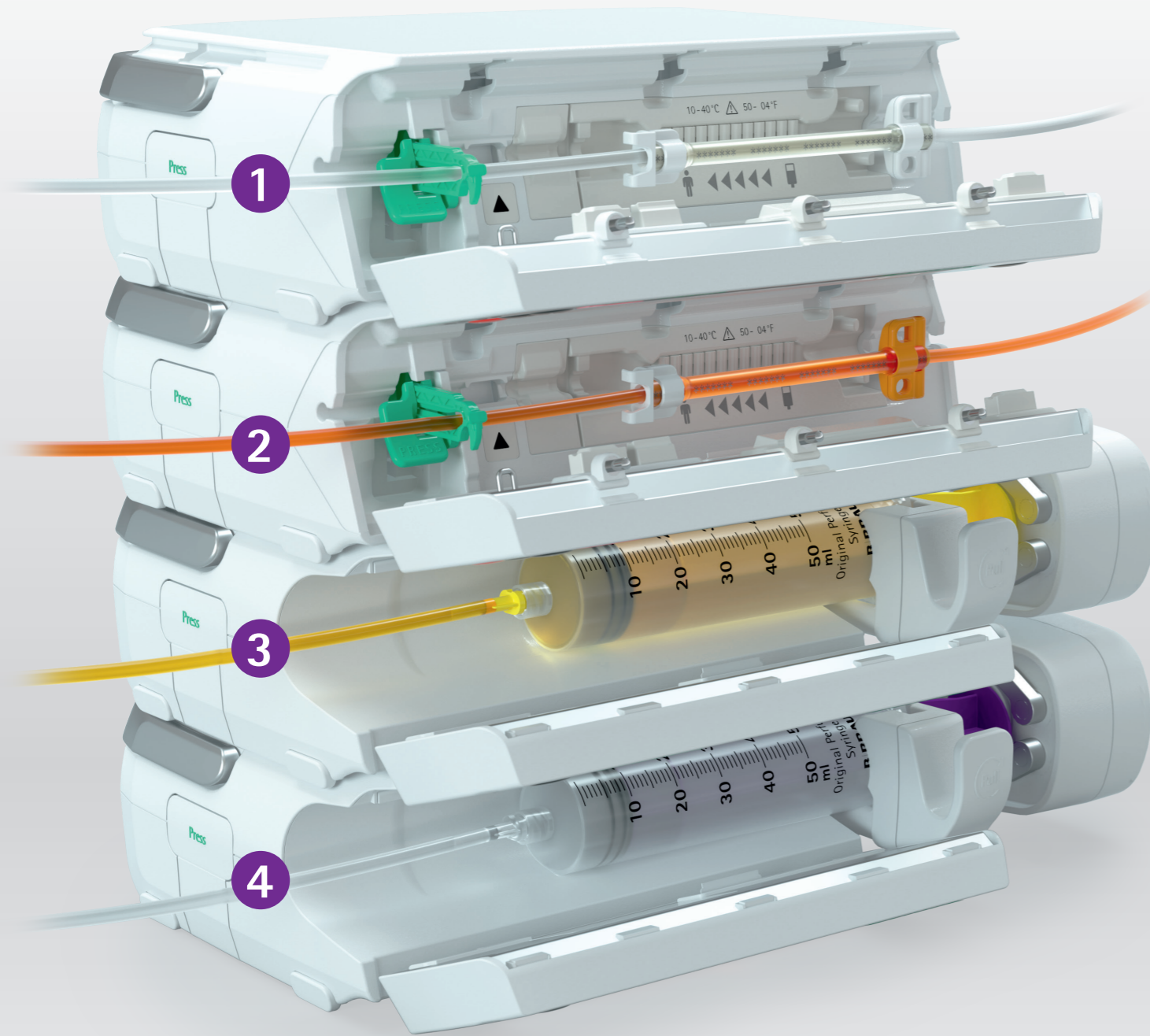
Flexible and seamless patient pathway during imaging process.

MR scanners emit strong magnetic fields that can cause functional disturbances and can sometimes permanently damage medical devices. Likewise, in the event of electromagnetic interference created by the pumps the quality of the MR images may be adversely affected.

The Space^{plus} MRI Station is designed to shield infusion pumps against 1.5-T and 3.0-T magnetic fields, to protect the MR scanner and ensure interference-free images. Gone are the days of long infusion lines or upgrades to dedicated MRI-compatible infusion pumps.



A wide range of therapies Including dedicated disposables



1 Standard
Infusion therapy,
TCI, TIVA

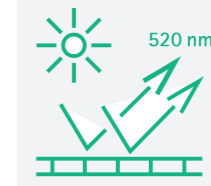
2 Light protected
Photosensitive
Medication

3 NRFit®
Pain Therapy

4 ENFit®
Nutrition Therapy

SafeSet - AirStop

The unique filter membrane at the bottom of the drip chamber prevents air from entering the connection line and ensures the line cannot run empty - thus leading to less disconnection of lines.



Light Protected

Increased security through light-protected products, which supports the stability of light-sensitive medications.

NRFit®

More safety in the area of regional anaesthesia to minimise risks of misconnections between neuraxial and intravenous application. Guidance by connector design and colour coding.



ENFit®

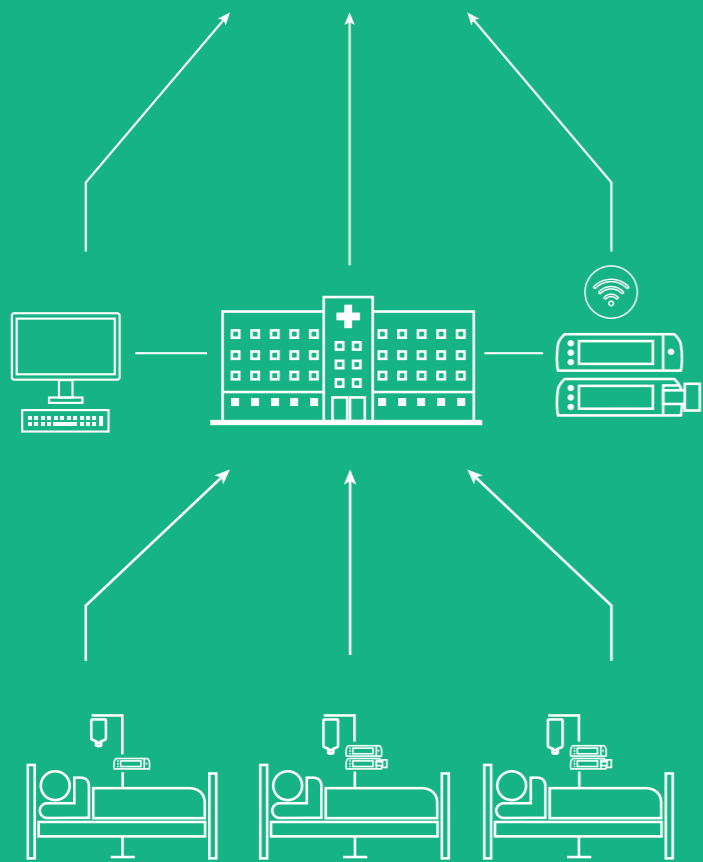
More safety in the area of enteral feeding to minimise risks of misconnections. Guidance by connector design and colour coding.

Dedicated Therapies, dedicated disposables.

The dedicated disposables cover the full range of different therapies such as standard, light-protected, transfusion, pain and antibiotic-therapy, as well as closed systems for oncology and disposables for enteral nutrition.

B|BRAUN
Health Cloud

OnlineSuite^{plus}
powered by B. Braun Health Cloud



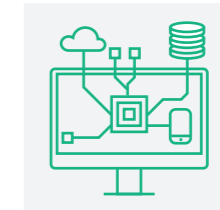
The optional B. Braun Health Cloud connection provides additional benefits to the hospital with fully automated updates and upgrades of the software, access to e-learnings and further product information.

OnlineSuite^{plus} is the innovative IT platform providing software applications that help users to increase safety, efficiency, and therapy performance within the entire hospital.

Space^{plus} infusion pumps are seamlessly connected to the hospital IT network thanks to the integrated WiFi module.

All infusion pumps may be used flexibly either in the station, as a single pump, or on transport.

Smart technology Smart hospitals



Interoperability
Engineered to be seamlessly integrated into the hospital IT environment using the bi-directional HL7-IHE framework for data communication.



Cyber Security
Communication through the hospital network between the Space^{plus} infusion pumps and the OnlineSuite^{plus} servers is encrypted.



Seamless Documentation
Space^{plus} infusion pumps introduce an internal data buffer for data caching when no network connection is available.

Connecting an ecosystem.

Space^{plus} in combination with OnlineSuite^{plus} is **the digital infusion system** for hospitals that want to offer their patients comprehensive and safe infusion therapy with maximum medical options.

It is easy to integrate, with state-of-the-art interoperability into hospital information systems and an advanced approach to more **cybersecurity**. The Space^{plus} system is the digital solution of choice for the healthcare sector.



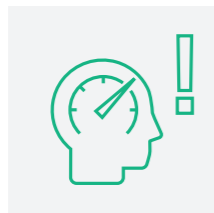
OneView^{plus}

Efficient visual ward overview



Centralized monitoring
Increased efficiency through centralisation of the therapy overview.

Lower alarm stress
Helps to reduce alarm fatigue for caregivers and patients.*



Real-time monitoring
Live information about nature of alarm, location and priority to save time and effort.

Improved infusion therapy workflows

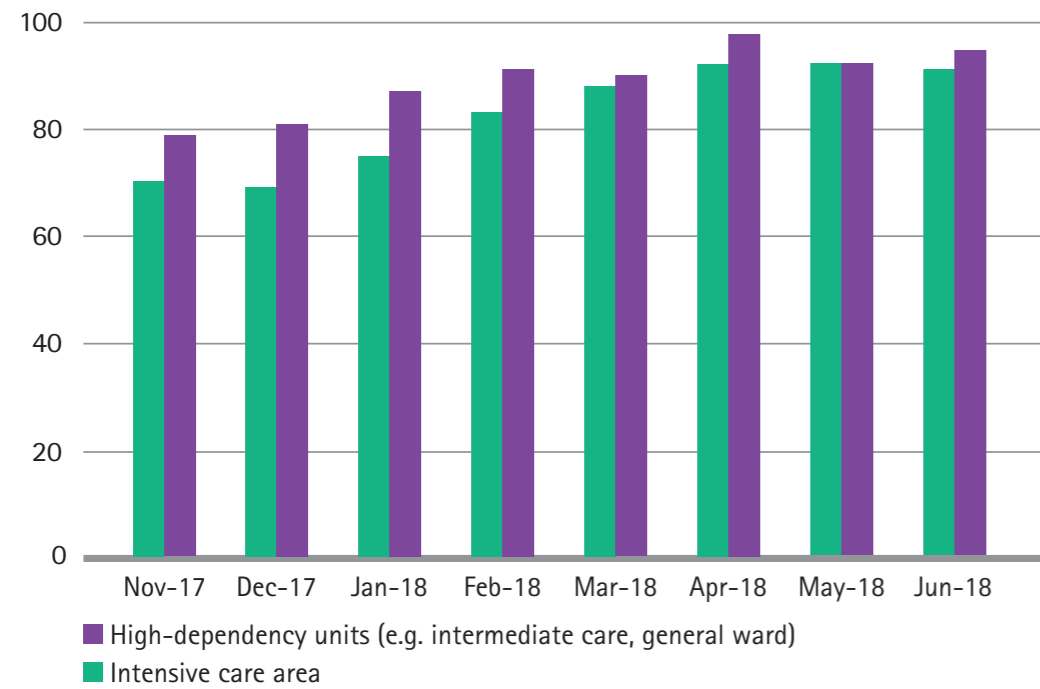
The OneView^{plus} application opens up new opportunities for health care professionals to design their workflows around infusion therapy: Thanks to OneView^{plus}, you always have an overview of the clinical area.

Even from a remote location, you can check the status of any infusion pump connected to the network. Real-time access to therapy-related information such as dosage, infused volume and remaining infusion time enables you to proactively design your clinical processes and workflows, thus increasing efficiency.

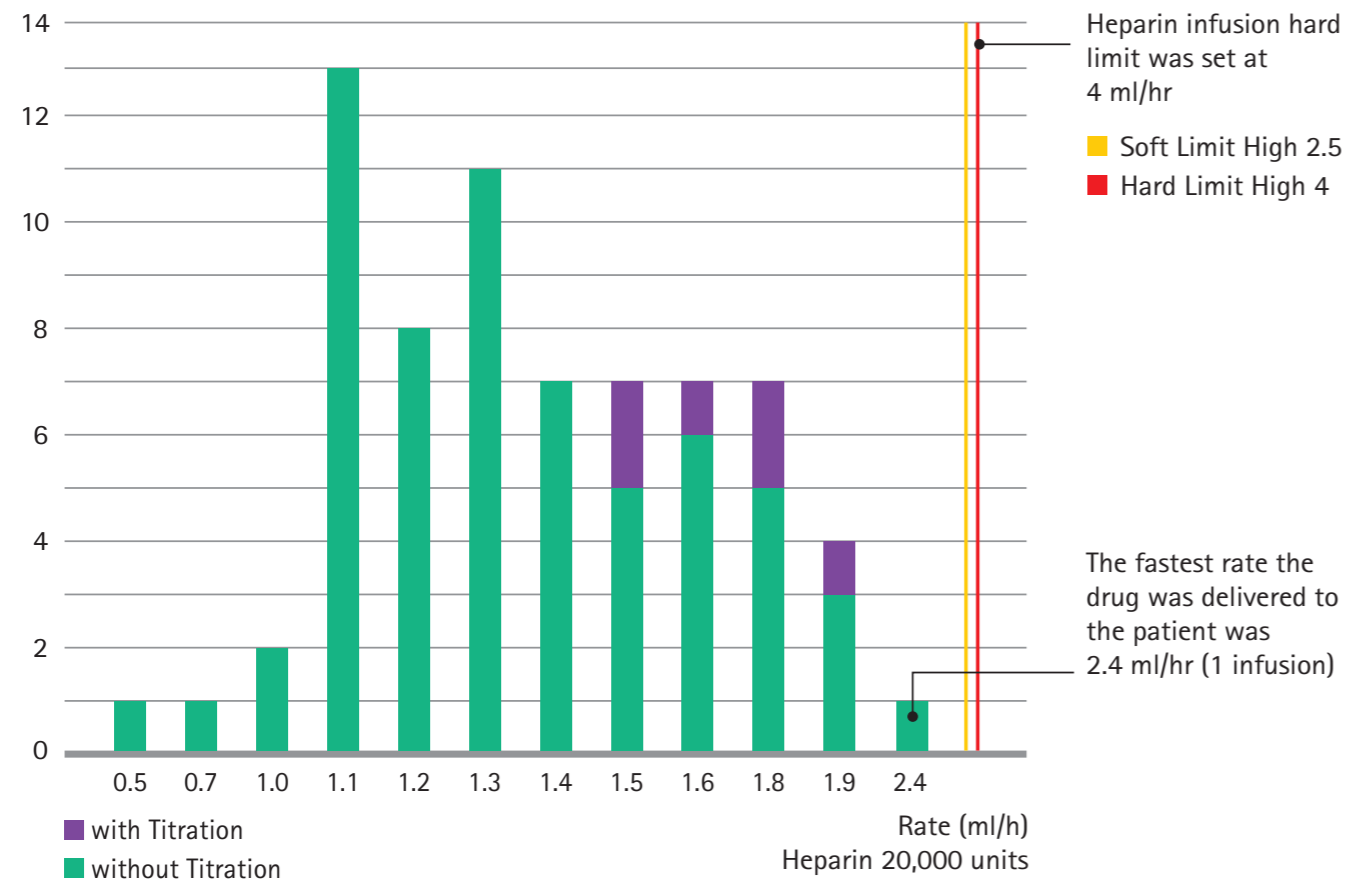


*Pal et al, "Noise Pollution in Intensive Care Unit: A Hidden Enemy affecting the Physical and Mental Health of Patients and Caregivers", Noise and Health, 2022, Jul-Sep; 24(114): 130-136.

Drug Library Compliance per unit (in %)



Heparin (Amount of Infusions)

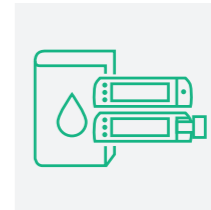


DoseTrac^{plus}

Reporting application for added insights

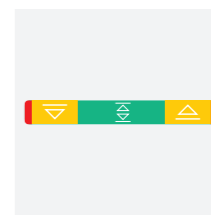
Drug library compliance

To ensure compliance with the safe use of injectable medications, regular analysis is essential. Reporting contributes to the optimisation of the drug database.



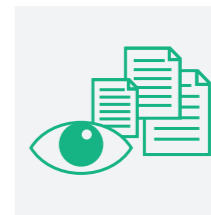
Hard limit alert

Summary of all infusion alerts, overrides of limits to help clinicians reduce workarounds and optimise drug library.



Further reportings

The information generated can help identify optimisation options for fleet management and improve targeted training of clinical staff in the correct use of the drug library to reduce medication errors.



What is DoseTrac^{plus}?

DoseTrac^{plus} is the B.Braun application which provides a broad range of real-time data that can support insights into minimisation of potential medication errors. It supports the reporting of infusion practice and process improvements to help hospitals improve patient safety.

DoseTrac^{plus} reports can be analyzed to optimise fleet management, gain insights into previous infusion therapies, and evaluate areas where drug library improvement may be needed. This includes adjusting the drug library to ensure alignment between pharmacy policy and clinical practice.



DoseLink^{plus}

Integration & interoperability

Auto-Documentation
Infusion data into the EMR helps support hospitals with accurate and timely data collection in order to support their seamless documentation.



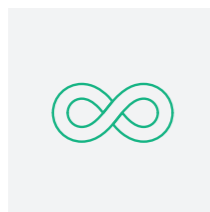
AutoProgramming

AutoProgramming minimises the risk of error at the point of care by sending prescription data directly to the Space[®]plus pump from the patients record.



Buffering

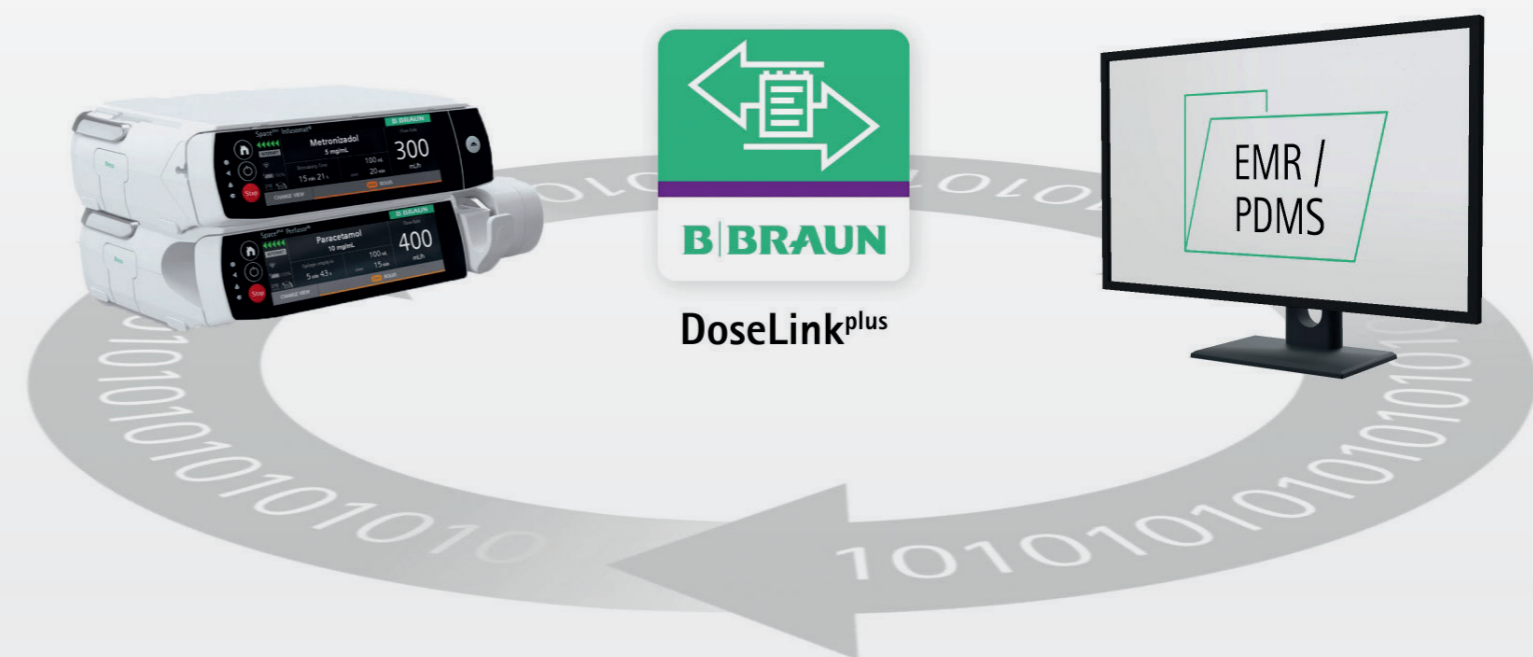
Space[®]plus pumps buffer data at least eight hourly ensuring no information is lost in transfer situations, or if any network issues occur.



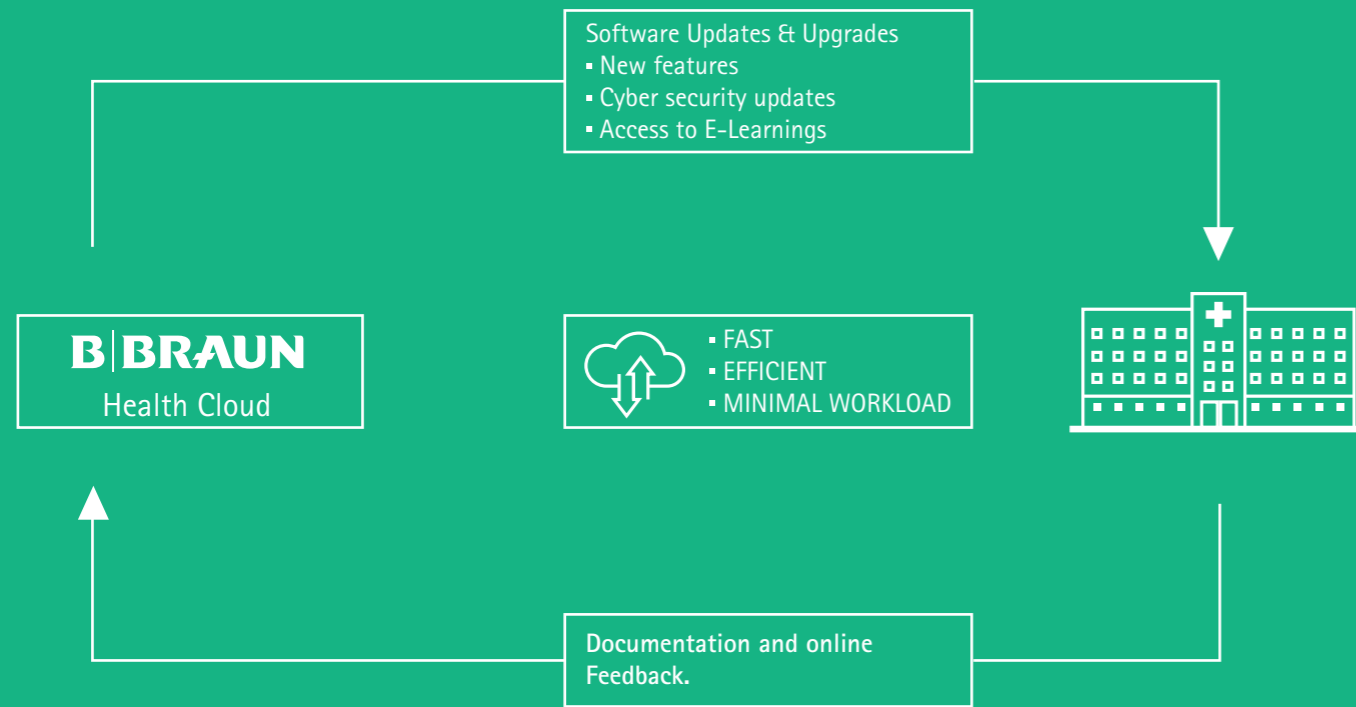
What is DoseLink^{plus}?

The DoseLink^{plus} application enables Space[®]plus infusion devices to be integrated with a wide range of 3rd party systems such as Electronic Medical Record (EMR) systems, alarm management systems and asset management systems.

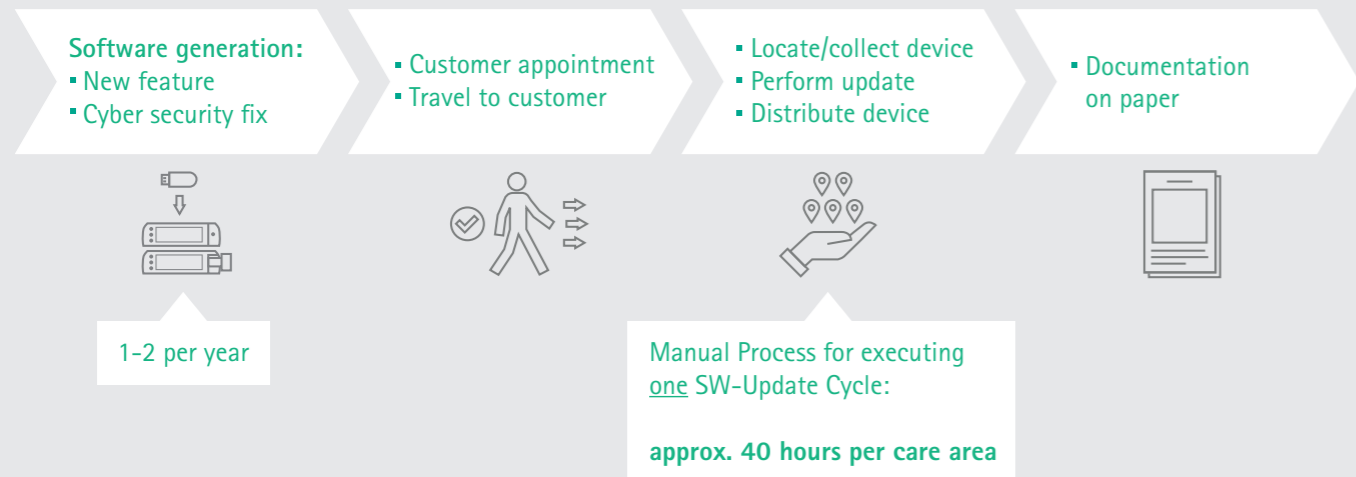
DoseLink^{plus} conforms to the HL7/IHE standards, facilitating flexible integration of the Space[®]plus platform with other systems that are compatible with these standards.



Digital infusion pump updates



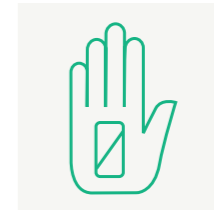
Manual infusion pump updates



Manual processes for infusion pump updates are time consuming, interrupt clinical workflows due to the unavailability of infusion pumps during update procedures, and can last several weeks.

Make Progress Not miles

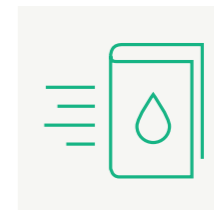
Zero touch deployment
Remote updates of infusion pumps via the hospital network without interrupting clinical workflows.



Drug libraries on the fly
The drug library and firmware data are always up to date on the infusion pumps.



Always the latest software
The B. Braun Health Cloud provides direct access to the latest software, E-Learnings, and further product information.



Driving Digitalisation. Healthcare 4.0.

Efficient processes for updating infusion devices with new **software and drug library data as well as disposable and configuration files** through the hospital's network is an essential time-saving benefit for the biomedical engineering department.

Equally important from a clinical perspective is the fact that infusion therapy is not interrupted during the controlled **transfer of updates.**



DeviceManager^{plus}
Technicians' centralised toolbox for managing infusion pumps across the entire hospital via its network.

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