



Get Accurate Medication Delivery With Every Set

Plum™ Dedicated Set Portfolio

At the heart of every Plum system is a broad portfolio designed to enhance safety and support the accurate delivery of medications.

The Plum dedicated sets difference

Plum dedicated sets feature innovative cassette technology that includes:

- › A built-in air trap that minimises nuisance alarms by capturing up to 1 mL of air before alarming
- › Backpriming functionality to easily remove air without disconnecting the patient line
- › Direct secondary connection to administer in either a syringe or medication container
- › Capability to infuse two compatible medications through a single line at independent flow rates
- › Built-in flow regulator that automatically engages when pump door is opened, helping to reduce uncontrolled free flow risk
- › Ability to deliver in gravity mode if necessary

Improving infection control and patient safety with every set

Every Plum dedicated set features Clave™ needlefree IV connector—industry-leading infection control technology designed to help enhance safety and efficiency.

- › In a comprehensive study comparing 20 different needlefree IV connectors, researchers reported ICU Medical connectors featuring Clave™ technology were shown to have a significantly lower bacterial transfer rate than any of the other connectors tested¹
- › Use a single connector technology to standardise IV therapy wherever care is given
- › Full portfolio of non-DEHP sets

1. Ryder M, deLancey-Pulcini E, Parker AE, James GA. Bacterial transfer and biofilm formation in needleless connectors in a clinically simulated in vitro catheter model. *Infect Control Hosp Epidemiol.* 2023 Nov;44(11):1760-1768. doi: 10.1017/ice.2023.60. Epub 2023 Apr 24. PMID: 37088696; PMCID: PMC10665874.

The product complies with current legislation and has the corresponding CE marking (2797). For additional information, warnings and/or safety precautions, refer to the manufacturer's user manual.



Standard Primary Administration Sets

Designed to support international standards for patient safety and best clinical practices, the Plum™ primary sets portfolio features multiple configurations that serve a distinct clinical purpose, including:

- › Multiple Y-sites, for clinical practices where easy access points to the patient line are needed
- › Microbore tubing that minimises the priming volume
- › Backcheck valve to help prevent medication backflow into the primary infusion line when used in gravity mode
- › Longer tubing (129 in.) for complex clinical setups where multiple pumps are required for a single patient



Blood Sets

The Plum™ blood sets portfolio features sets with an integrated 200-micron filter in the drip chamber to help trap blood clots and particles, as well as single and double spike (Y-type) options.

- › Y-type sets enable the connection of IV fluid and blood bag to the main line, easing the priming process and blood component flushing
- › The Plum 360™ infusion system utilizes a unique cassette with volumetric pumping mechanism that aligns with the latest INS recommendations¹
- › Nursing spends less time monitoring, adjusting, and troubleshooting flow rates
- › A 2014 review study demonstrated that:
 - Among the different types and Infusion Pump mechanisms, the safest for transfusions are volumetric infusion pumps with the cassette mechanism
 - The paper concludes that linear peristaltic pumps are more likely than other mechanisms to cause hemolytic effects.

* Wilson AMMM, Peterlini MAS, Pedreira MdLGP. Infusion pumps and red blood cell damage in transfusion therapy: an integrative revision of the academic literature. *Rev Lat Am Enfermagem*. 2016 Aug 15;24:e2763. doi: 10.1590/1518-8345.1155.2763

¹ Nickel B, Gorski L, Kleidon T, et al. Infusion Therapy Standards of Practice, 9th Edition. *J Infus Nurs*. 2024 Jan-Feb 01;47(1S Suppl):S79. doi: 10.1097/NAN.0000000000000532

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Specialty Sets

The Plum™ specialty sets portfolio helps support the various facets of medication delivery and workflow efficiency with specialty sets for a variety of needs, including:

- › Light-resistant sets featuring orange tubing to help protect medications from light exposure
- › Polyethylene-lined (PE) sets for use with infusion medications not compatible with PVC
- › Single-channel sets with no distal Y-site to minimise the risk of drug diversion

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Filter Sets

The Plum™ filter sets portfolio helps you support patient safety without complicating nursing workflow. Featuring several in-line filter set configurations with two different pore-size filters (0.2 and 1.2 micron), the portfolio helps you promote:

- › A reduced length of stay for adult and paediatric ICU patients
- › One study showed a reduction in incidence of phlebitis from 26.9% to 2.2%¹
- › Patient safety with filters that may help reduce air delivery to patients

¹ Villa G, Chelazzi C, Giua R, et al. In-Line Filtration Reduces Postoperative Venous Peripheral Phlebitis Associated With Cannulation: A Randomized Clinical Trial. *Anesth Analg*. 2018 Dec;127(6):1367-1374. doi: 10.1213/ANE.0000000000003393.

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Burette Sets

Burette sets play an important role in IV therapy, offering precise measurement and delivery of fluid. The Plum™ burette sets portfolio from ICU Medical features multiple access points, as well as a range of configurations that enable customisation for a variety of needs.

- › Graduated cylinder design for clear visualisation of infusion volume and progress
- › Options with/without inline filter to support reduced waste and streamlined workflows
- › Backcheck valve helps prevent medication from flowing backward into the primary solution container, ensuring proper directional flow
- › Distal microbore tubing helps significantly reduce priming volume
- › Multiple Y-sites facilitate additional infusion line access when needed

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