



# Plum 360<sup>TM</sup>

## Infusion System

2021, 2022, and 2023 Best in KLAS Smart Pumps – EMR-Integrated  
2018, 2019, 2020 and 2023 Best in KLAS Smart Pumps – Traditional

**icumedical**  
human connections

# Plum 360. Because safety should be automatic.

Is your IV smart pump smart enough? Despite nearly two decades of innovations that have helped improve patient safety—from dose error-reduction systems (DERS) to IV-EHR interoperability—too many IV smart pumps on the market today still leave patient safety risks unaddressed. With safety standards continuing to evolve, count on Plum 360 to keep leading the way.

## Connect Smarter. Care Safer.™

Get award-winning clinical performance.

The Best in KLAS Plum 360 infusion system gives you automatic safety with unmatched efficiency and interoperability in one connected IV system. The Plum 360 earned the highest rating for pump performance six years in a row (2018, 2019, 2020, 2021, 2022, 2023 Smart Pumps – EMR-Integrated; 2018, 2019, 2020, 2023 Smart Pumps).



Make IV Safety Automatic



Reduce the Burden of IV Pump Alarms



Maximise Drug Library Compliance



Get Industry-Leading IV-EHR Interoperability





## Make IV safety automatic

The unique delivery capabilities of the Plum 360 infusion system can help you reduce the risk of medication errors, simplify infusion setups, and bring peace of mind to nursing by minimising the risk of common infusion setup errors.



### Lower medication errors, not infusion containers

Unlike gravity-based pumps, the Plum 360 functions independent of bag placement. The pumping mechanism in the Plum 360 infusion system actively pulls fluid directly from both the primary and secondary line, so there is no need to hang infusion bags at specific heights relative to the pump and other infusions. The accuracy of your delivery is not dependent on bag placement.

In addition, the Plum 360 will alert you if a clamp is closed, eliminating the risk for another common secondary error.



### Connect with convenience using infusion technology that works with you

With the Plum 360's unique cassette technology, you can deliver two compatible medications at independent rates through a single line, letting you deliver the secondary medication without pausing the primary.

The PlumSet™ cassette also provides the flexibility to administer from either a syringe or a solution container through a direct secondary connection.



Plum 360 eliminates the primary setup requirements of most other pumps, which two independent studies showed compliance rates of 0% and 6.5%.<sup>1,2</sup>

<sup>1</sup> Giuliano KK, Blake JWC, Bittner NP, Gamez V, Butterfield R. Intravenous Smart Pumps at the Point of Care: A Descriptive, Observational Study. J Patient Saf. 2022 Sep 1;18(6):553-558.

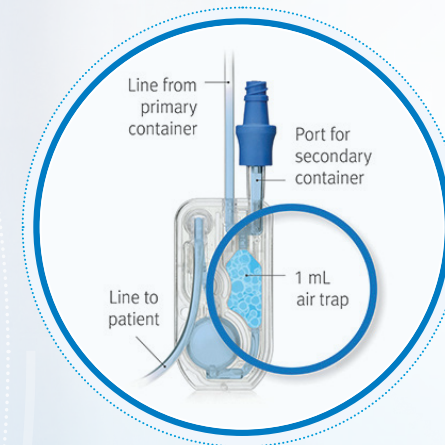
<sup>2</sup> Giuliano KK, Penoyer D, Mahuren RS, Bennett M. Intravenous Smart Pumps During Actual Clinical Use: A Descriptive Comparison of Primary and Secondary Infusion Practices. J Infus Nurs. 2021 May-Jun 01;44(3):128-136.





## Keep care quiet with smarter and safer alarm management

Alarm fatigue is a well-recognised side effect of excessive and often false alarms from medical devices in a busy hospital setting.<sup>4,5</sup> We can help reduce the noise and annoyance of nuisance IV pump alarms while enabling more efficient delivery of care.



### Reduce air-in-line alarms and simplify air removal

The PlumSet cassette can trap up to 1 mL of air before alarming, reducing alarms and alarm fatigue. If an air-in-line alarm does occur, air can be easily removed with automated backpriming without disconnecting from the patient.



### Automatically restart the pump and clear distal occlusion alarms

With distal occlusion auto restart built into the Plum 360, the pump can automatically restart if the occlusion clears within 60 seconds. There's no need for the nurse to re-enter the patient's room and manually restart the infusion, saving time and increasing workflow efficiency.

**44%** of infusions aren't administered correctly due to alarm conditions.<sup>3</sup>

<sup>3</sup> Matocha, DNP, MSN, RN, CNRN, VA-BC. Reducing Infusion Pump Alarms Through Structured Interventions. JAVA 2018; 23:2

<sup>4</sup> National Patient Safety Goals. Oakbrook Terrace, IL: The Joint Commission; 2020. <https://www.jointcommission.org/standards/national-patient-safety-goals>. Accessed October 7, 2022.

<sup>5</sup> Top 10 Health Technology Hazards For 2015. Health Devices. Plymouth Meeting, PA: November, 2014. ECRI Institute;2014. [www.ecri.org/2015hazards](http://www.ecri.org/2015hazards). Accessed October 7, 2022



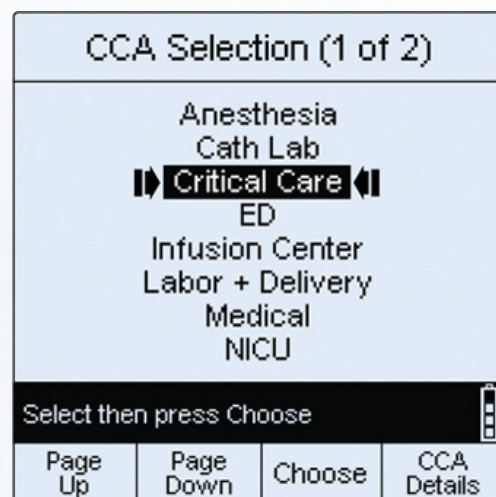


## Smarter and safer drug library

The “Guidelines for Optimising Safe Implementation and Use of Smart Infusion Pumps” issued by the Institute for Safe Medication Practices (ISMP) in February 2020<sup>6</sup> urges hospitals to:

- › Choose smart infusion pumps that default directly to programming in dose error reduction systems (DERS)
- › Establish organisational expectations for the use of DERS that maximises compliance to 95% or higher for medication administration

The Plum 360 with ICU Medical MedNet™ software meets both of these guidelines with programming that defaults to DERS and average compliance rates of 98%.<sup>7</sup>



### Get a large, flexible drug library

The Plum 360 with ICU Medical MedNet software provides expansive options for medications and care areas, coupled with the ability to support up to 119 individual dosing units. The flexibility of the drug library also helps to simplify workflows and even gives you the ability to change care areas on a running infusion.

### Unmatched drug library compliance

With ICU Medical MedNet IV safety software, your programming sequence automatically starts in the drug library, providing average compliance rates of 98%.



The Plum 360  
with ICU Medical  
MedNet provides a  
**98%**  
compliance rate.<sup>7</sup>

Plum 360 | 98%

Industry Average | 84%

<sup>6</sup> Institute for Safe Medication Practices (ISMP). ISMP Guidelines for Optimizing Safe Implementation and Use of Smart Infusion Pumps. ISMP; 2020. <https://www.ismp.org/node/972>. Accessed October 7, 2022.

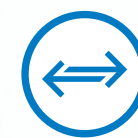
<sup>7</sup> ICU Medical data on file.

<sup>8</sup> <https://catalyzecare.org/remedi/about-learnmore>



75%

of pump programming errors  
can be eliminated with  
IV-EHR interoperability.<sup>8</sup>



## Get standardisation and transparency at the point of care

With over a decade of smart IV-EHR interoperability experience, we can reduce opportunities for human error, minimise variability in your infusion setup, and provide valuable transparency to help you make better informed decisions about the care of your patients.



### Eliminate manual programming errors on more infusions

As many as 75%<sup>8</sup> of pump programming errors can be eliminated with safety software and IV-EHR interoperability. Our solution lets you use the same interoperability workflow to program a primary, secondary, rate change, or even drugs not in the library.



### Get accurate, robust data to continually improve care

Because the Plum 360 draws medication directly from the fluid containers, you can be confident that your infusion data is accurate and not documenting an otherwise common setup error.



### Keep your IV patient data safer with industry-standard cybersecurity

ICU Medical takes the issue of cybersecurity very seriously. We are constantly vigilant in adhering to the latest industry standards and view cybersecurity as an ongoing process of continuous improvement, not a static event. The ICU Medical Plum 360 is the first medical device to earn UL Cybersecurity Assurance Program (UL CAP) certification 2900-1 and 2900-2-1, and ICU Medical MedNet is the first safety software to receive UL CAP 2900-2-1 certification.



<sup>8</sup> Top 10 Health Technology Hazards For 2013. Health Devices. Plymouth Meeting, PA: November. 2012. ECRI Institute;2012. [www.ecri.org/2013hazards](http://www.ecri.org/2013hazards). Accessed October 7, 2022.

<sup>9</sup> Suess TM, Beard JW, Ripchinski M, Eberts M, Patrick K, Tharappel LJP. Smart Pump-Electronic Health Record (EHR) Interoperability with Auto-Documentation is Associated with Increased Submission of Infusion-Therapy Billing Claims at a Community Hospital. *Pharmacoecoen Open*. 2019 Dec;3(4):619-629.





## A commitment to exceptional ongoing technical support and clinical education

Our commitment to you doesn't end with the purchase. We provide a dedicated support organisation with a wealth of knowledge, resources, and technical training opportunities to help you maximise the value of your investment in ICU Medical products.

When you choose ICU Medical, you are choosing a true partner who will be with you every step of the way, offering:

- › Best-in-class technical and clinical in-servicing
- › Dedicated field service engineers
- › Comprehensive educational materials

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