

Vigilant Drug'Lib Software

For the **Agilia**[®] Infusion System
Large Volume Pump

Clinically effective. Compliance capable.





Activate your existing protocols to help administer IV drugs safely and confidently.

Vigilant Drug'Lib Software is a straightforward, flexible dose error reduction software platform for Agilia® pump infusions.

Designed for institutions large and small, and supported by our expert implementation, training, and services teams, Vigilant Drug'Lib Software's robust functionality and expansive configurability can help your care units confidently comply with the clinical practices defined by your physicians, nurses, and pharmacists.



Refer to the product Operator's Manual and/or Instructions For Use for a complete list of warnings and precautions associated with the device.

Robust functionality helps your facility's compliance with clinical best practices

Reduce the risks of unauthorized drug use and IV medication errors*.

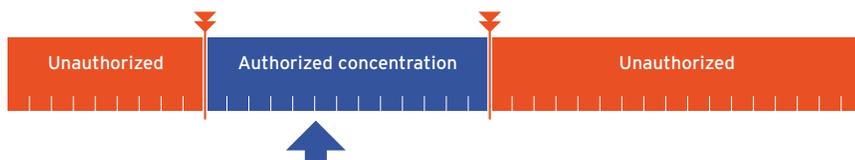
Input drugs from your protocol

Store all authorized drugs in the library to limit the risk of infusing an unapproved drug. High and Low, Hard and Soft limits are specific to each drug.

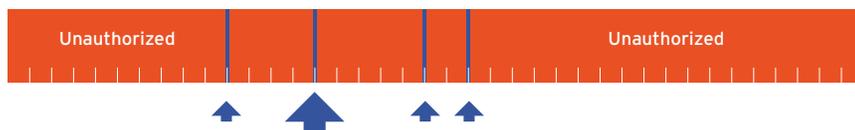
Set limits for drug concentrations

Define default drug concentration values within upper and lower limits or up to five fixed concentrations, according to your drug protocol.

Set a concentration range



Or set fixed concentration values



Set limits for dose/flow rates

Program dose/flow rate values with soft and hard limits, as defined in your drug protocol per care area. The clinician will be notified at the time of infusion set-up or titration if the value is above or below a preset soft limit. Hard limits are maximum rates that cannot be exceeded. Soft and Hard limits protect against medication errors.



Weight-based dosing

Eliminates the need for drug calculation at the bedside—and manual errors resulting from bedside calculations.

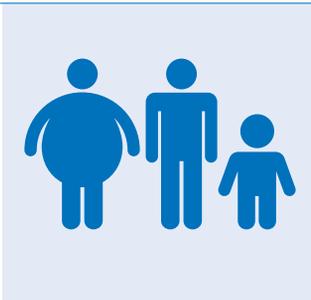
Focus-friendly keypad

Agilia pump's arrow key entry puts the user's focus on the input field when entering a value, so errors from key bounce and order of magnitude entries are more likely to be avoided.^{1, 2, 3, 4, 5, 6, 7}

-  Default values
-  Single allowed concentrations
-  Soft limits
-  Hard limits

Seamless dose error reduction software supports nurse workflow

Improves compliance and guides best practices at the bedside*.



Control delivery mode settings

Define delivery settings to help adhere to your drug protocols.

Protect, authorize and set bolus dose

Specify dose/flow rates for direct and programmed boluses

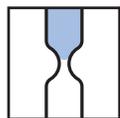
Protect, authorize and set loading doses

Set the parameters of loading dose at the beginning of infusion



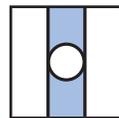
Customize pump settings

Program pump settings for each drug and care area to minimize nuisance alarms.



Monitor occlusions

Adjust pressure thresholds to patient population in each care area



Detect air bubbles

Adjust air bubble filter and air accumulation settings to meet clinical needs

Support point-of-care decisions

Design your library to take into account your institution's particular areas of concern.

- Tailor clinical advisories to remind caregivers of implemented best practices
- Use the quick-editing feature to enable/disable features your clinicians find most/least helpful

Optimize patient comfort

Configure parameters for night mode to optimize your patients' comfort.

* As compared to use of Agilia Infusion System Large Volume Pump without Vigilant Drug'Lib Software.

Vigilant Drug'Lib Software

Software specifications

- Weight-based dosing
- Clinical Advisories
- Loading dose
- Bolus dose
- Drug X - for non-formulary and new drugs
- 33 different dose units to meet your medication delivery needs
- Hard and soft limits

References

1. Cauchi, Abigail, Patrick Oladimeji, Gerrit Niezen, and Harold Thimbleby. "Triangulating empirical and analytic techniques for improving number entry user interfaces." *EICS '14 Proceedings of the 2014 ACM SIGCHI symposium on Engineering interactive computing systems*. New York, NY, USA: ACM, 2014. 243-252.
2. FDA. "Design Consideration for Devices Intended for Home Use." *U.S. Food and Drug Administration*. 05 August 2014. <http://www.fda.gov/downloads/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/UCM331681.pdf> (accessed September 03, 2014).
3. Lidwell, William, Kritina Holden, and Jill Butler. *Universal Principles of Design*. Beverly, Massachusetts: Rockport, 2010.
4. Oladimeji, Patrick, Harold Thimbleby, and Anna L. Cox. "A Performance Review of Number Entry Interfaces." In *Human-Computer Interaction - INTERACT 2013*, 365-382. Springer Berlin Heidelberg, 2013.
5. Oladimeji, Patrick. "Towards Safer Number Entry in Interactive Medical Devices." *EICS '12 Proceedings of the 4th ACM SIGCHI symposium on Engineering interactive computing systems*. New York, NY, USA: ACM, 2012. 329-332.
6. Wiseman, Sarah, Anna L. Cox, Duncan P. Brumby, Sandy J.J. Gould, and Sarah O'Carroll. "Using Checksums to Detect Number Entry Error." *Changing Perspective (CHI)*. 2013: 2403-2406.
7. Zhang, Jiajie, Todd R. Johnson, Vimla L. Patel, Danielle L. Paige, and Tate Kubose. "Using usability heuristics to evaluate patient safety of medical devices." *Journal of Biomedical Informatics* 36, no. 1-2 {February 2003}: 23-30.

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