



Arrow®

AC3 Optimus™ Intra-Aortic Balloon Pump

Simply outstanding performance, support, and efficiency in an IABP

Advanced IABP performance even in the most critical conditions

For patients requiring mechanical cardiac support, the performance of your IABP can mean all the difference. With the onset of an elevated heart rate or arrhythmia, the patient's survival can suddenly depend on the ability of the IABP to keep pace with the situation. The AC3 Optimus™ Intra-Aortic Balloon Pump provides intra-beat inflation timing accuracy across the broadest range of patient conditions — including those with severe arrhythmias.^{1,3}



Simply everything you're looking for in an IABP

Critical therapy delivery when it matters most

- WAVE® Algorithm provides precise and accurate support for patients with the most severe arrhythmias and heart rates as high as 200 bpm³
- Exclusive ProActive Counterpulsation® Technology determines individual AV closure points to provide intra-beat inflation timing accuracy¹⁻³
- A trio of proprietary algorithms that help improve the clinical efficacy of IABP therapy⁴ and simplicity with which it's delivered
- The third-generation, state-of-the-art AutoPilot® Mode automatically adjusts timing and triggering parameters with precise volume delivery

Outstanding clinical support to ensure effective delivery

- Initial installation clinical training
- Onsite clinical accredited training programs
- On-going web-based learning and training
- 24/7 hotline with guaranteed timing and response

Designed for simplicity, engineered for economy

- Pneumatic drive system with no scheduled replacement parts
- Low component replacement costs
- Minimal service required



User-friendly features and functionality

Control and access to alarm history, allows all alarm controls to be set

Icon indicates zero status of current AP source and provides controls to zero the status

All IABP functions are controlled with six keys



Illuminating switch indicates pump is alarming and the priority level

Assisted and unassisted hemodynamic values are displayed in separate colors

A touch of the waveform accesses signal related controls for lead selection and scaling

References:

1. Donelli A, Jansen JRC, Hoeksel B, et al. Performance of a real-time dirotic notch detection and prediction algorithm in arrhythmic human aortic pressure signals. *J Clin Monit.* 2002;17(3-4):181-185. Study sponsored by Teleflex.
2. Hoeksel S, Jansen JRC, Blom J, et al. Detection of dirotic notch in arterial pressure signals. *J Clin Monit.* 1997;13(5):309-316. Study sponsored by Teleflex.
3. Schreuder J, Castiglioni A, Donelli A, et al. Automatic intraaortic balloon pump timing using an intra beat dirotic notch prediction algorithm. *Ann Thorac Surg.* 2005;79(3):1017-1022. Study sponsored by Teleflex.
4. Torracca, L. Overcoming electro-surgical inference in IABP therapy with the combined use of AutoPilot and FiberOptix IAB sensor signal. 2007. (*case report, data on file*). Study sponsored by Teleflex.

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