Arrow®
AC3 Optimus® Intra-Aortic Balloon Pump
IABP performance evolved
The AC3 Optimus® Intra-Aortic Balloon Pump is up and running with the push of a button. Set up is fast and easy, guided by visual prompts on the large, high-definition touchscreen — including confirmation that therapy can be initiated. Delivering advanced IABP support to even the most compromised patient has never been so simple.

Simplicity, right from the start

Touchscreen access to alarm settings

Most IABP functions are controlled with six keys

Adjust balloon volume by 0.5cc increments

Enhanced value

Beyond its clinical value, the AC3 Optimus® IABP offers low cost of ownership. As budget pressures continue to grow, cost-effective features like these become increasingly appealing:

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

Exceptional service

Teleflex is committed to providing attentive and responsive support. In customer surveys regarding Teleflex IABP service programs:

- 97.5% of surveyed customers said their service representative was knowledgeable about our products and services
- 95% of surveyed customers were overall satisfied with their last interaction with their customer service representative
- 95% of surveyed customers said they were likely to refer others to Teleflex

*Based on customer surveys conducted by Teleflex.
Third-generation AutoPilot® Mode
More than advanced, approachable

A user-friendly design, intuitive interface, and state-of-the-art AutoPilot® Mode makes the AC3 Optimus® IABP simple to use. With this powerful combination, Teleflex counterpulsation therapy is more accessible than ever.

• Built for ease-of-use
  Simple, clean design, large display, fewer keys, mobility/portability
• Getting started checklist
  Provides simple and quick confirmation that routine tasks have been completed
• Touchscreen
  Allows for fast and easy interaction. Action bar combines assessment and action in a single location
• Therapy Status Report
  Quick and easy access to documenting therapy status
• Graphics
  Simple green, yellow, and red graphics allow for communication of parameter status
• Alarm history report
  Allows interpretation of alarm history to assess impact on therapy

Key actions and assessments made easy and accessible:

- **Alarm History**
  - Access to alarm history allows for quick review of past alarms and the ability to assess repeated alarms.

- **Getting Started**
  - An interactive review of the three step startup and confirmation when the pump is ready to start.

- **Therapy Status**
  - One-button summary of patient hemodynamics (response to IABP therapy) and therapy settings. Allows for one key stroke charting, with ability to print reports.

Innovative features from the third-generation AutoPilot® Mode

- **Deflation timing management**
  - Automated to provide real-time and comprehensive deflation timing.

- **Up to 200 bpm**
  - Provides precise and accurate support for patients with severe arrhythmias and heart rates as high as 200 bpm.¹

- **Best signal analysis**
  - Continuously analyzes up to 6 ECG sources in two trigger modes to identify the optimal trigger.²
IntraBeat™ Timing: An advanced solution for a growing problem

To address a growing population of arrhythmic patients, the AC3 Optimus® IABP features IntraBeat™ Timing. It determines individual AV closure points to provide remarkable accuracy during IABP support, even in patients with severe arrhythmias. The AC3 Optimus® IABP can help your facility be better equipped for your current and future patient populations.

Projected prevalence of diagnosed AF cases in United States

Accurate timing is critical to IABP performance. Early inflation timing errors can have negative effects on IABP therapy, including a decrease in stroke volume by as much as 20% (+/-6% to -55%). Late deflation is also associated with less-than-desirable hemodynamic responses.

The solution? IntraBeat™ Timing for accurate inflation and AutoPilot® Mode for controlled deflation timing management. The AC3 Optimus® IABP makes it easy to track, sense, and adapt to changing conditions without routine clinician intervention, allowing the clinician to focus on what matters most — the patient.

The problem: The arrhythmic patient.

The challenge: In published literature, conventional timing only showed 4 out of 16 beats were accurately timed.

The solution: IntraBeat™ Timing has shown 98.1% accurately timed beats in severe arrhythmia.

Representative of study. Individual results may vary.
Immediate support with patented technology

The AC3 Optimus® IABP is designed to deliver support from the very first beat, increasing the volume of blood while decreasing blood pressure.6,10 Accurate aortic flow and pressure is maintained by two proprietary solutions — Flow Conversion and WAVE® Algorithm.

2018 Medical Design Excellence winner

The AC3 Optimus® Intra-Aortic Balloon Pump was named a bronze winner in the cardiovascular device category of the 20th annual Medical Design Excellence Awards competition — the industry’s premier design competition.
Managing risk with Protective Pumping™ Technology

While a larger balloon has been shown to improve augmentation, it does not come without potential risks.⁷,⁸,⁹

Patient height and BMI have long been the measuring tools for IABP sizing selection; however, recent studies have shown poor correlation of aortic length to height.⁷,⁸,⁹

There are a variety of risks associated with IABP therapy, including among others:⁷,⁸,⁹
- Risk of balloon rupture
- Risk of thromboembolism
- Risk of thrombocytopenia/hemolysis
- Risk of compromised organ perfusion

The Goal: 90—95% Occlusive¹⁰
Monitoring pressure to optimize balloon sizing

Compare the pressure within the balloon to the augmented pressure. Protective Pumping™ Technology, another AC3 Optimus® IABP exclusive feature, allows for measurement of the balloon within the aortic space to determine proper sizing.

For illustrative purposes only
References:


11. Data on file

Teleflex is a global provider of medical technologies designed to improve the health and quality of people’s lives. We apply purpose driven innovation – a relentless pursuit of identifying unmet clinical needs – to benefit patients and healthcare providers. Our portfolio is diverse, with solutions in the fields of vascular and interventional access, surgical, anesthesia, cardiac care, urology, emergency medicine and respiratory care. Teleflex employees worldwide are united in the understanding that what we do every day makes a difference. For more information, please visit teleflex.com.

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