Acumen Assisted Fluid Management (AFM) software on HemoSphere advanced monitor

Quick Setup Guide

Please refer to the HemoSphere advanced monitoring platform operator's manual for detailed information on setup and use of AFM software.

Acumen AFM software algorithm

- The rules-based algorithm makes fluid management suggestions by recognizing patterns of fluid responsiveness using a patient's hemodynamic data and past responses to fluid administration

- AFM fluid suggestions are derived from the predicted increase in stroke volume computed in part by measure of fluid responsiveness – this prediction is based upon a combination of information derived from:
  - Patient past responses to fluid boluses
  - Algorithm's proprietary patient population model
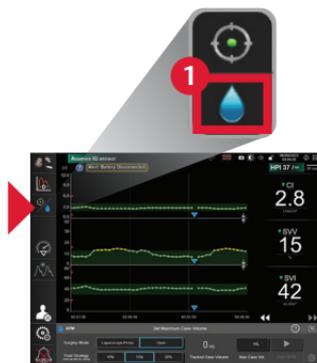
Hemosphere advanced monitor

Accessing Acumen AFM software

- To access AFM software, you will need to utilize an Acumen IQ sensor

- Enter Acumen AFM software mode by selecting the **Assisted Fluid Management icon 1** on the navigation bar

Edwards

Acumen AFM software settings

- Set the desired AFM settings for **<u>surgery mode</u> 1** (laparoscopic/prone or open) and **<u>fluid strategy</u> 2** (10%, 15%, or 20%)

- Enter the **<u>maximum case volume</u> 3**, the target fluid volume planned to be given to patient during the entire case; the maximum case volume does not limit functionality of the AFM feature or influence AFM fluid suggestions

Starting Acumen AFM software

- Upon entering desired settings, touch **<u>Start AFM</u> 4** to initiate AFM session

Pausing an AFM session

- An active AFM session can be paused or stopped at any time by pressing the **<u>AFM pause button</u> 5** or the **<u>stop button</u> 6**, causing the AFM algorithm to suspend new fluid suggestions

- To resume AFM session after being paused, touch the start button

Fluid Status Icon

- The fluid status icon has seven states:

Fluid recommended	Bolus in progress	AFM mode paused	Bolus being analyzed	Test bolus suggested	Fluid not recommended	Bolus completed

AFM Dashboard

1. AFM Icon
2. Fluid status icon
3. Tracked case volume
4. Maximum case volume
5. Help
6. Minimize icon
7. Target icon
8. Settings

Acumen AFM dashboard

The AFM dashboard can be minimized at anytime by touching the **minimize button 6** or restored at anytime by touching the **AFM icon 1**

Acumen AFM software maximum case volume

- Acumen AFM software tracks and notifies you if the volume delivered through Acumen AFM software is approaching (within 500 mL) or exceeds the **maximum case volume entered 4**

- If a notification appears, AFM will pause until the notification is acknowledged and/or the maximum case volume is increased

- The AFM session will continue once a selection has been made

Managing fluids with Acumen AFM software

- When the algorithm suggests fluid, a **Fluid Bolus Suggested** message appears on the AFM dashboard; if upon reviewing the patient's hemodynamics you agree with the suggestion, open the roller clamp to initiate bolus and touch the green **Start Bolus icon** to indicate timing of the start of the bolus

- Upon completion of bolus, close the roller clamp and touch the red **Stop Bolus button** and the **Bolus Volume keypad** will display

- Enter the fluid bolus volume on the **Bolus Volume keypad** and touch enter when complete

- Verify if information on the AFM dashboard is correct. If incorrect, touch the **End Time 1** or **Bolus Volume button 2** to edit

- Touch **Yes 3** to accept the current bolus and analyze hemodynamic response or touch **No 4** to exclude bolus from further analysis

Acumen AFM software features

- **Bolus history:** Touch the **blue shaded region 5** on the graphical trends plot to display historical bolus information

- **Goal-Directed Therapy (GDT) tracking:** Press the **target icon 6** to view **Time-in-Target value for SVV ≤12% 7** and **Fluid Suggestions Taken 8** for percent of fluid suggestions by AFM you accept

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CAUTION: Federal (United States) law restricts this device to sale by or on the order of a physician. See instructions for use for full prescribing information, including indications, contraindications, warnings, precautions, and adverse events.

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