**The Cardiohelp System**

**Priming the system**

**Step 1**
Before priming the set, ensure the steps below have been performed.
- HLS Set is attached to drive.
- Integrated sensor cable connected.
- Venous probe connected and on safety bar.
- Three Luer caps are tightened.
- Flow/bubble sensor connected and attached to the red line.
- Gas source attached.

**Step 2**
Close two stopcocks at the top of the prime bag. Close integrated clamp on the blue line.

**Step 3**
Attach priming set to table set (both blue and red lines).

**Step 4**
Switch on Cardiohelp:
- Check battery charge
- Select thApp
- Activate Global Override
- Confirm Venous Probe initialization and recognition of mounted set

**Step 5**
With the tubing free of liquid, zero all three pressure sensors ($P_{\text{Ven}}$, $P_{\text{Art}}$, and $P_{\text{Int}}$).

**Step 6**
Attach heater unit water lines to HLS Module. Check for leaks by running water through heat exchanger.

**Step 7**
Open integrated clamp on blue line to passively prime.

**Step 8**
Set 3,000 rpm for 2 minutes. Set 0 rpm for >5 seconds.

**Step 9**
Reset the flow/bubble sensor.

**Step 10**
Tap module and tubing with hand to remove bubbles.

**Step 11**
Set 4,000 rpm for 1 minute. Set 0 rpm.
The system is now primed. Connection to patient can be initialized.