

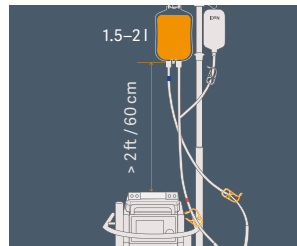
# The Cardiohelp System

## Priming the system

**Before priming the set, ensure below has been set up:**

- 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.

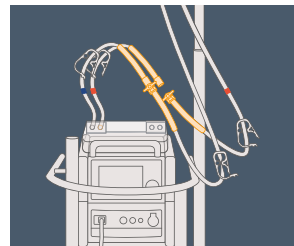
### Step 1



Close two stopcocks at the top of the prime bag. Close clamp on the blue line.

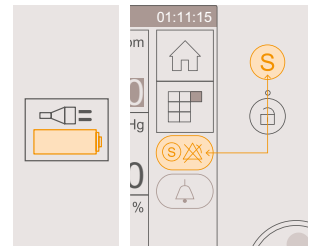
Fill with 1.5 – 2 l of solution, clamp prime line and raise bag > 2 ft / 60 cm.

### Step 2



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

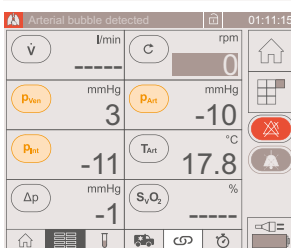
### Step 3



**Switch on Cardiohelp:**

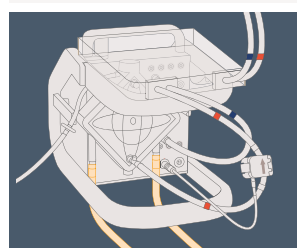
- Check battery charge
- Select thApp
- Activate Global Override
- Confirm Venous Probe initialization and recognition of mounted set

### Step 4



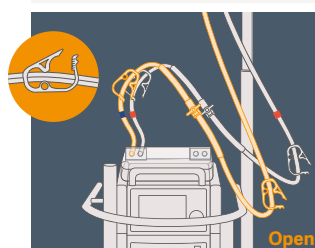
With the tubing free of liquid, zero three pressure sensors (P<sub>Ven</sub>, P<sub>Art</sub>, and P<sub>Int</sub>).

### Step 5



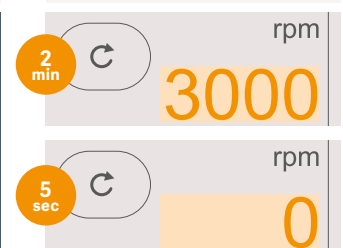
Attach heater unit water lines to HLS Module. Check for leaks by running water through heat exchanger.

### Step 6



Completely open the integrated tube clamps on the blue line to passively prime.

### Step 7



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

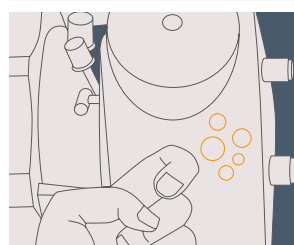
### Step 8



Reset the flow/bubble sensor.

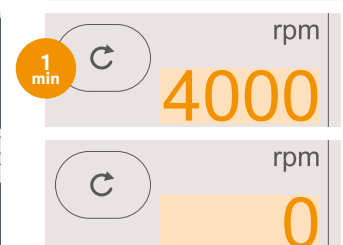


### Step 9



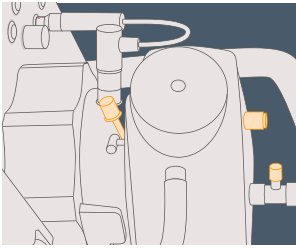
Tap the tube system and the HLS Module with your hand to remove any gas bubbles.

### Step 10



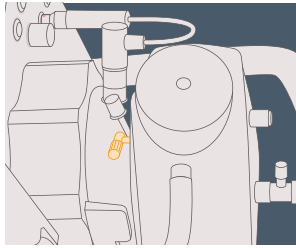
Set the speed to 4,000 rpm for 1 minute. Reduce the speed to 0 rpm.

### Step 11



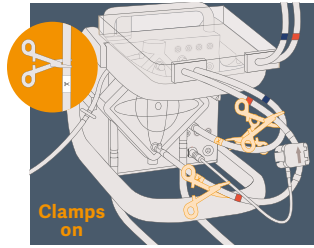
De-air all Luer lock connectors. If a bubble is detected, go back to step 7.

### Step 12



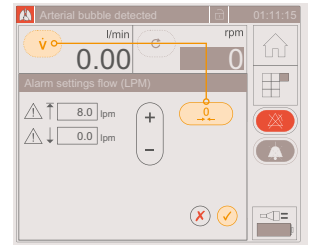
Close the de-airing membrane with the yellow protective cap.

### Step 13



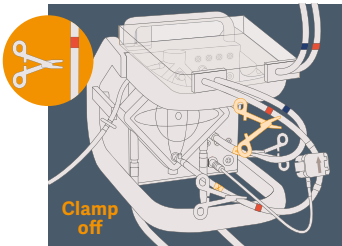
Clamp the red and blue line on the clamp symbol. Apply a third clamp downstream of the flow/bubble sensor.

### Step 14



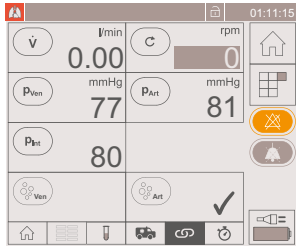
Calibrate the flow/bubble sensor.

### Step 15



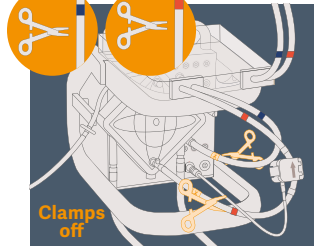
Remove the clamp downstream of the flow/bubble sensor.

### Step 16



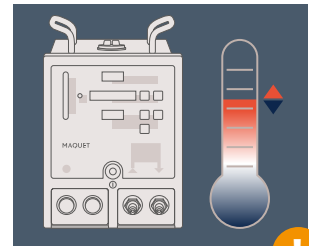
Deactivate Global Override mode, one tap to the touchscreen icon.

### Step 17



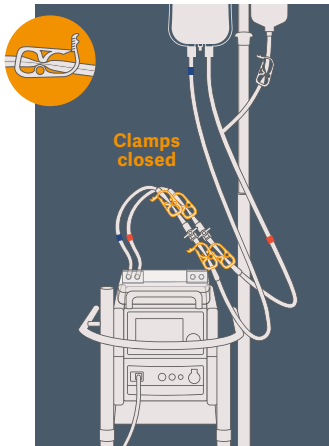
Remove all clamps from the red and blue lines.

### Step 18



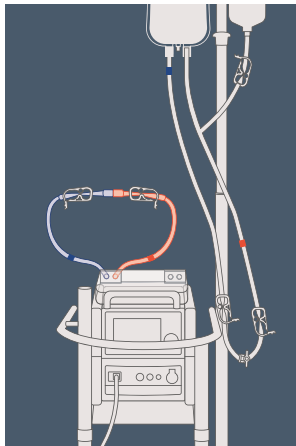
Heat priming solution before starting perfusion to avoid cardiac arrhythmias and other health risks.

### Step 19



Close all integrated clamps on the red and blue lines.

### Step 20



Separate the priming set from the table set by disconnecting the quick-action couplings. Connect the red and blue lines of the table set.

**The system is now primed.  
Connection to patient can be initialized.**



### More resources

Scan this QR code to access and download our online learning content, including detailed digital guides and interactive learning simulations.

This document is intended to provide information to an international audience outside of the US. It does not replace the corresponding instructions for use. Only use the Cardiohelp-i and all other products mentioned in this poster together with the respective instructions for use. See instructions for use for full prescribing information, including indications, contraindications, warnings, precautions and adverse events.

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