

The Cardiohelp System

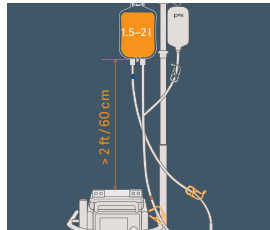
Priming the system

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.

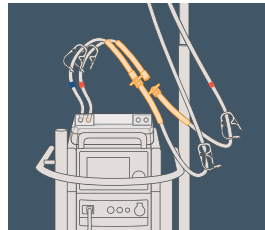
Step 2



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

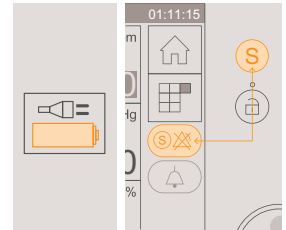
Fill with 1.5 – 2 l of solution, clamp prime line and raise bag 2 ft / 60 cm.

Step 3



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

Step 4



Switch on Cardiohelp:

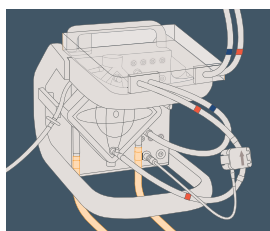
- Check battery charge
- Select thApp
- Activate Global Override
- Confirm Venous Probe initialization and recognition of mounted set

Step 5



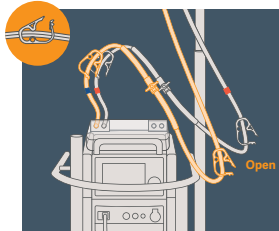
With the tubing free of liquid, zero all three pressure sensors (P_{Ven} , P_{Art} , and P_{Int}).

Step 6



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

Step 7



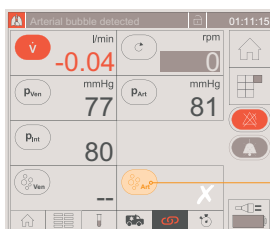
Open integrated clamp on blue line to passively prime.

Step 8

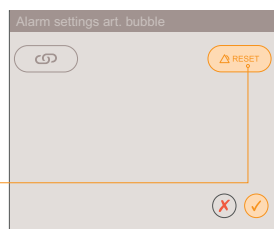


Set 3,000 rpm for 2 minutes. Set 0 rpm for >5 seconds.

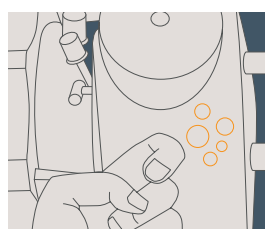
Step 9



Reset the flow/bubble sensor.



Step 10



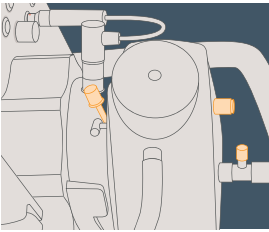
Tap module and tubing with hand to remove bubbles.

Step 11



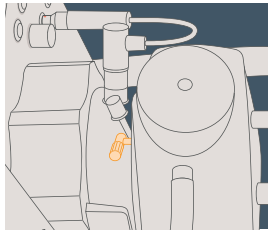
Set 4,000 rpm for 1 minute. Set 0 rpm.

Step 12



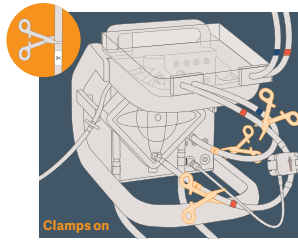
De-air three Luer ports. If a bubble is detected, go back to step 8.

Step 13



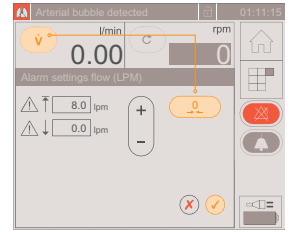
Close the de-airing membrane with the yellow protective cap.

Step 14



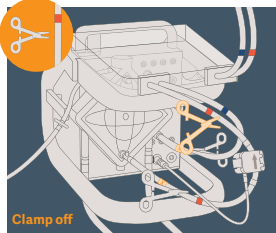
Clamp the red and blue line on the clamp symbol. Apply a third clamp downstream of the flow/bubble sensor.

Step 15



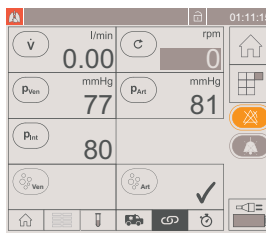
Calibrate the flow/bubble sensor.

Step 16



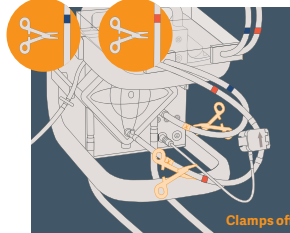
Remove the clamp downstream of the flow/bubble sensor.

Step 17



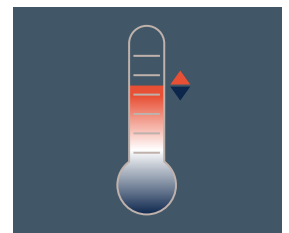
Deactivate Global Override mode by tapping the icon once.

Step 18



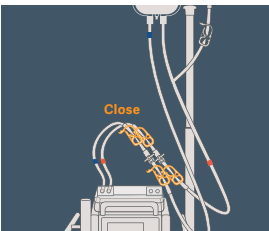
Remove all clamps from the red and blue lines.

Step 19



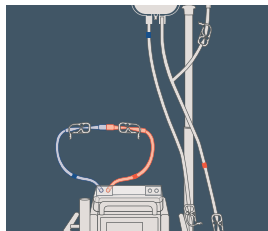
Heat priming solution before starting perfusion to avoid cardiac arrhythmias and other health risks.

Step 20



Close all integrated clamps on the red and blue lines.

Step 21



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.



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