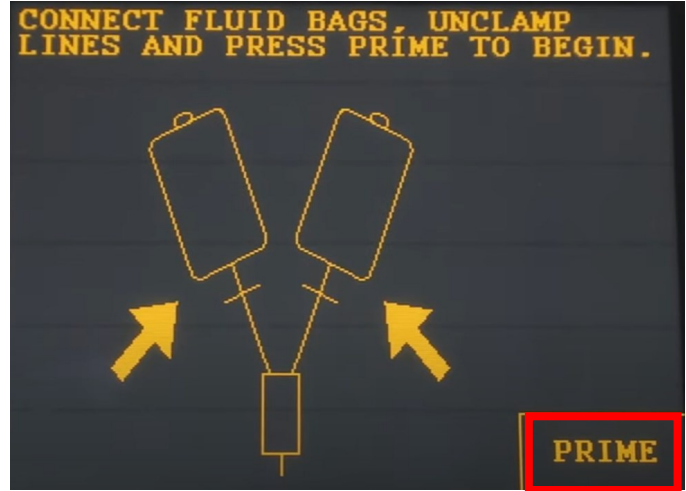
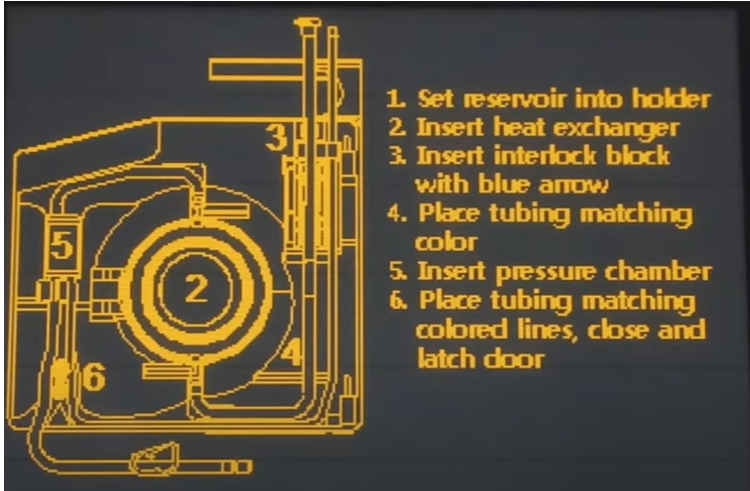


# Belmont Rapid Infuser

## PRIMING THE PUMP

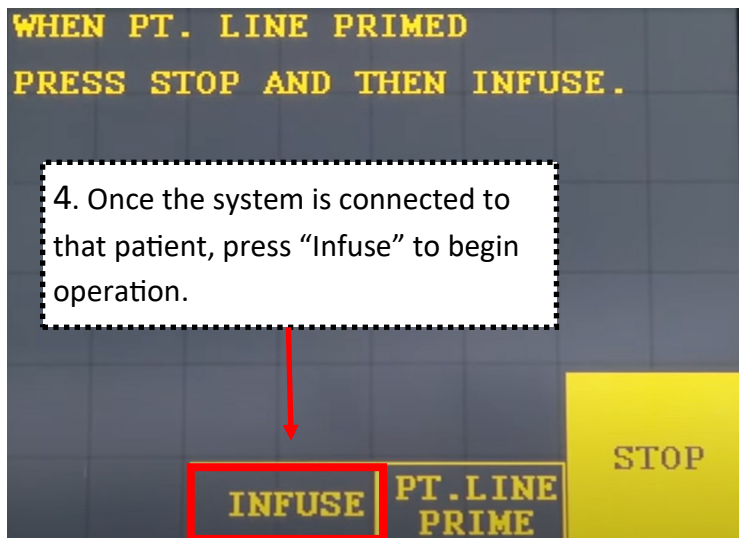
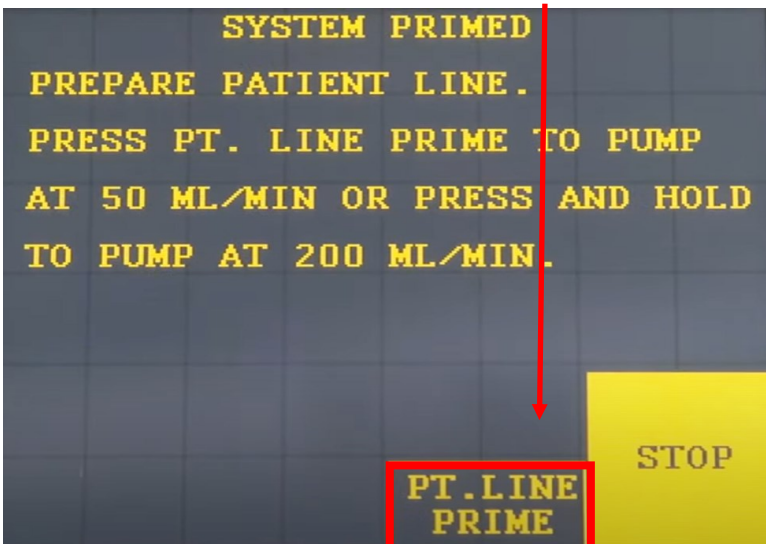
1. When switched on, the screen will display instructions for installing the disposable set. Press “next” to move to the prime screen. Follow prompt on screen to connect fluid bags, unclamp lines, and press “prime.”



2. Priming the System: A count-down is displayed. The roller-pump will automatically prime the pump in ~13 seconds. The total amount primed is 100mL. If the screen does not count down, or reverts back to 100 mL, ensure there is proper connection and no kinks.



3. Priming the Patient Line: Press the prime key once to prime at 50mL/min. Press and HOLD the prime key to prime at 200 mL per minute. Press “STOP” when you have confirmed that all air has been purged from the patient line.



# Belmont Rapid Infuser

## OPERATING THE SYSTEM

Infusion rate will automatically start at 10mL/min.

SET RATE = 10 $\frac{\text{ml}}{\text{min}}$	INFUSING
ACTUAL RATE = 10 $\frac{\text{ml}}{\text{min}}$	T = 37.8 °C
VOL = 0 ml	P < 70 mmHg
INFUSE RATE ▲ 500 $\frac{\text{ml}}{\text{min}}$ INFUSE RATE ▼	BOLUS 1000ml RECIRC STOP

Press the up and down arrows to increase/decrease the infusion rate. Press and hold the button to change the rate quickly.

Pressing the bolus key will deliver a specific volume of fluid. The fluid delivered will be displayed on the lower half of the bolus operation key until the bolus is complete.

### Available BOLUS options:

100 mL      500 mL  
 200 mL      1000 mL  
 400 mL

SET RATE = 500 $\frac{\text{ml}}{\text{min}}$	INFUSING
ACTUAL RATE = 80 $\frac{\text{ml}}{\text{min}}$	T = 37.2 °C
VOL = 668 ml	P < 70 mmHg
RATE ▲ 500 $\frac{\text{ml}}{\text{min}}$ RATE ▼	200ml 5ml RECIRC STOP

To change the BOLUS settings: press the STOP button, then PRESS & HOLD the Bolus button to scroll through the different values. These will be displayed on the BOLUS screen. When the desired bolus volume is displayed, release the bolus key.

The default infusion rate is 200 mL/min.

If you would like the bolus to be administered at 500 mL/min, press the BOLUS key, then press the 500 mL/min rate key.

# Belmont Rapid Infuser

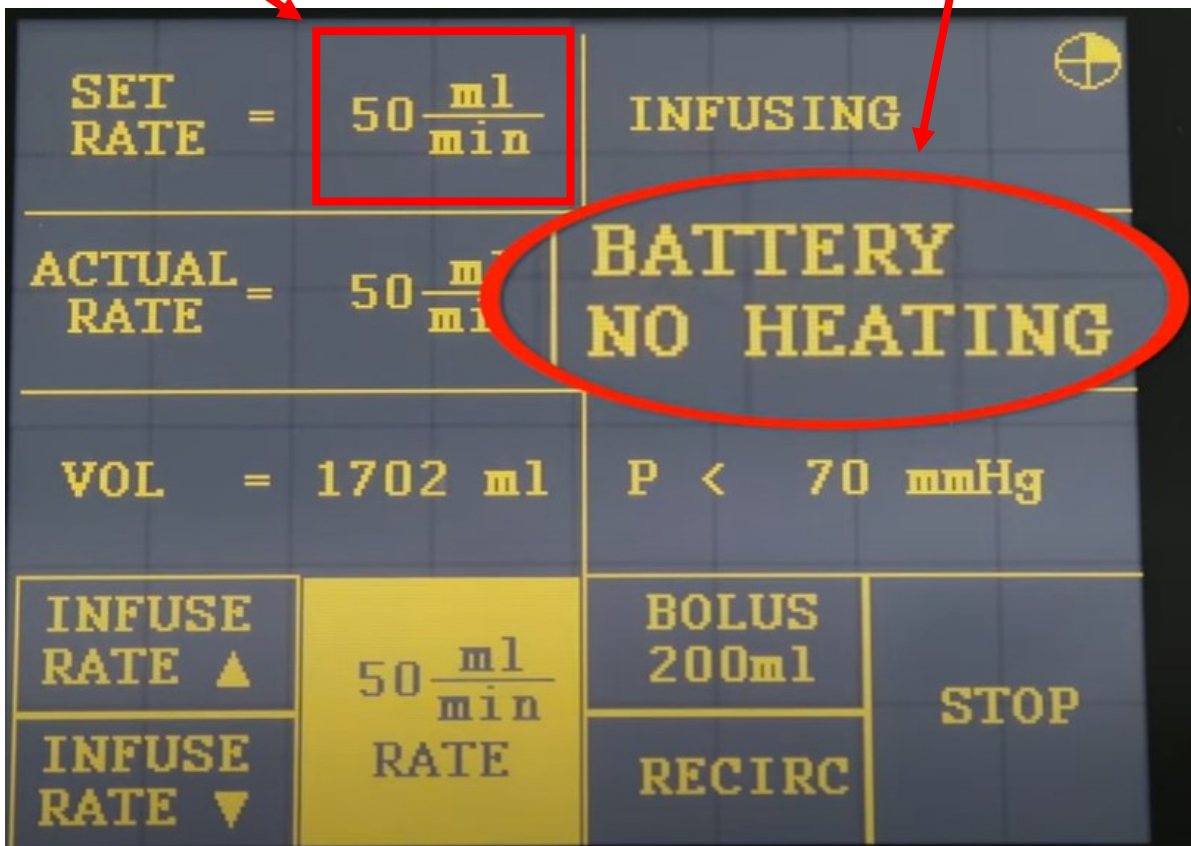
## BATTERY OPERATION

If there is a loss of power, if the machine is accidentally unplugged, or if the patient needs to be transported between units, the Belmont will automatically switch to battery power.

Once the Belmont is plugged back into a circuit, it will re-initiate warming and the rate can be increased if needed.

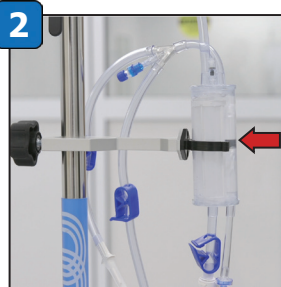
To protect the patient from rapid infusion of cold fluids, the maximum infusion rate is limited to 50mL/min.

THERE IS NO FLUID HEATING WHEN THE DEVICE IS ON BATTERY POWER





**1** Plug the main connector of the detachable power cable into a dedicated circuit breaker. Fully seat the device connector (C-19) of the power cable into the power receptacle on the back of The Belmont® Rapid Infuser RI-2. If a moisture guard is present, ensure it is over the device connector and at against the back of the machine.



Tighten all connections and snap the reservoir chamber into the support



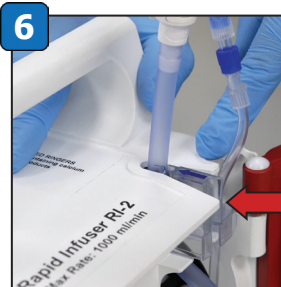
Load the circular heat exchanger with the red arrow pointing up



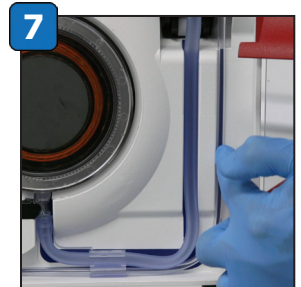
Place the pressure chamber into the pressure chamber well and press the infuse line into the air detector



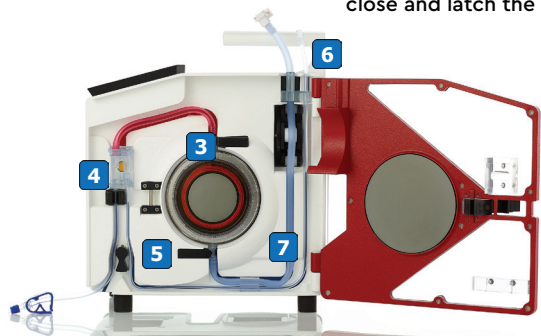
Place the infuse line to the left of the valve wand and the thinner recirc line to the right of the valve wand



Firmly position the interlock block on top of the shelf with the blue arrow pointing inward

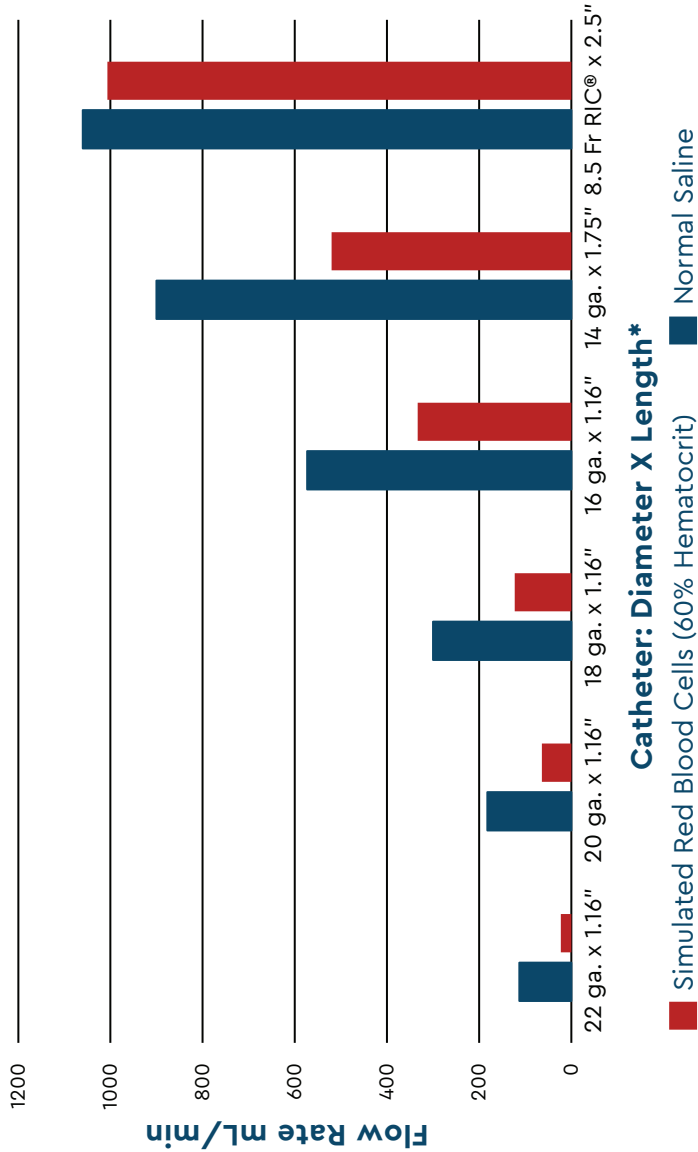


Place the larger blue tubing in the groove to the left and the smaller tubing to the right, close and latch the door





# Maximum Achievable Flow Rate at 300mmHg<sup>+</sup>



## Catheter: Diameter X Length\*

■ Simulated Red Blood Cells (60% Hematocrit) ■ Normal Saline

\*All catheters are plastic material

<sup>+</sup>Data on file at Belmont

Solution	Description	Compatible?
Salvaged blood that is processed, washed, and anticoagulated through a cell saver device		YES
FFP	Fresh Frozen Plasma	YES
RBCs	Red Blood Cells	YES
NS	0.9% NaCl	YES
Albumin 5%		YES
Hydroxyethyl Starch (HES)	Hetastarch in 0.9% Saline	YES
Normosol	Electrolytes in H <sub>2</sub> O	YES
Plasma-Lyte A		YES
Sodium Bicarbonate Solutions		NO
½ NS	0.45% NaCl	NO
3% NS	3% NaCl	NO
Platelets	Should not be diluted, stick to tubing	NO
Cryoprecipitate	Should not be diluted	NO
Calcium containing Solutions	Ca	NO
Lactated Ringer's Solution	K, Na, Cl, Ca, Lactate	NO
Ringer's Solution	K, Na, Cl, Ca, Lactate	NO
Hartmann's Solution	K, Na, Cl, Ca, Lactate	NO
Hextend	Hetastarch in Lactated Ringer's	NO
8% Amino Acids		NO
Intralipids 10%		NO
Intralipids 20%		NO
D5W	5% Dextrose in Water	NO
D10W	10% Dextrose in Water	NO
D20W	20% Dextrose in Water	NO
D50W	50% Dextrose in Water	NO
D5 ¼ NS	5% Dextrose 0.2% NaCl	NO
D5 ½ NS	5% Dextrose 0.45% NaCl	NO
D5NS	5% Dextrose 0.9% NaCl	NO
D10NS	10% Dextrose 0.9% NaCl	NO
10% Dextran in 5% Dextrose		NO
10% Dextran 40 in 0.9% NS		NO
5% Alcohol in 5% Dextrose		NO
D5 LR	5% Dextrose in Lactated Ringer's	NO
D10 LR	10% Dextrose in Lactated Ringer's	NO
Glucose		NO
Granulocyte Suspension		NO

# Lactated Ringer's Warning



Please **DO NOT** mix Lactated Ringer's or other solutions containing **calcium** with citrated blood products.

Mixing Lactated Ringer's or other solutions containing calcium with citrated blood products will compromise the anticoagulants in the blood, which could clot in the blood blocking the flow and cause an over-temperature / overheating issue.



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