



USER GUIDE



ARTERIAL PUNCTURE WRIST



STANDARD ULTRASOUND

72500

72501

FOR MORE SKILLS TRAINING PRODUCTS VISIT

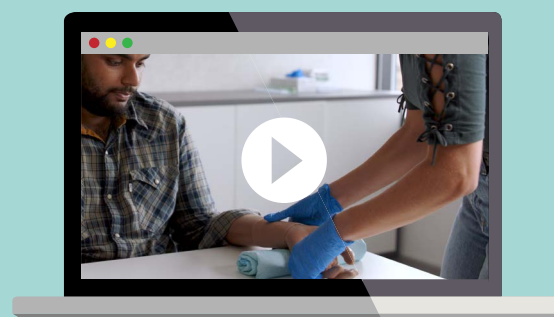
limbsandthings.com

Sussex Street, St Philips, Bristol, BS2 0RA, UK | sales@limbsandthings.com | +44 (0) 117 311 0500

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TAKE A LOOK
AT OUR **VIDEO**



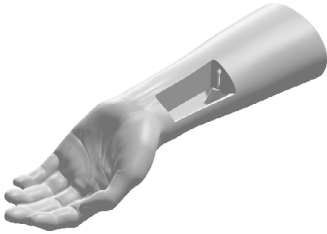
VISIT THE WEBSITE
limbsandthings.com

OR YOUTUBE CHANNEL
youtube.com/limbsandthings

PACKAGE SUPPLIED

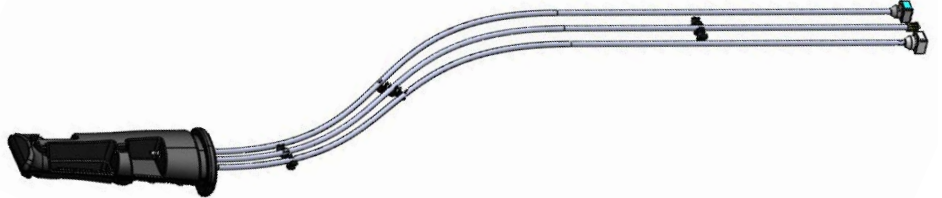
Outer Skin

72522



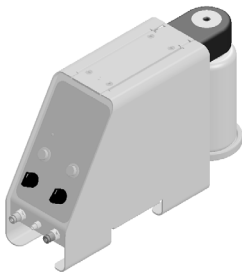
Inner Wrist

70521



Pump Unit

70520



Stand

70524



Vessels (pk 10)

70510



Standard Block (x2)

72512



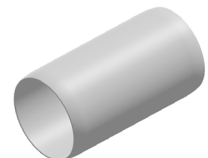
Ultrasound Block (x2)

72511



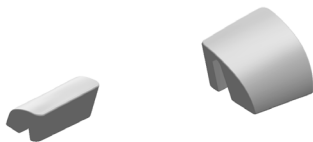
Skin Cuff

72514



Vessel Connector Covers

70523



Vessel Tube Tidies pk 3

70526



Fluid Bottle

70525



Blood concentrate

00021



International Power Supply

70527



Product Storage Box

70530



SAFETY & CLEANING INSTRUCTIONS

READ THE SAFETY INSTRUCTIONS CAREFULLY BEFORE USING YOUR ARTERIAL PUNCTURE WRIST

DO's



Follow all instructions. Keep these instructions. Heed all warnings.

Only use simulated blood supplied with this product. Use of non-recommended fluid products may weaken or damage the simulator.



Wear gloves at all times and remove all jewellery items. Sharp surfaces such as finger nails and rings can lead to damage of silicone parts.

Clean the product with a damp soft cloth or sponge, using only warm water with mild detergent, after every training session.



DON'Ts



Do not install near any heat sources, do not expose the product to flames or use near naked flame sources. Do not use flammable solvents near or on this product.

Do not set up the product near electrical appliances or items damaged by water.



Do not wear any jewellery items.

Do not disassemble the product or attempt to repair a faulty unit, please return the product to Limbs & Things for assessment and repair.



Do not leave the product filled with blood when putting into storage.

STORAGE & TRANSPORTATION

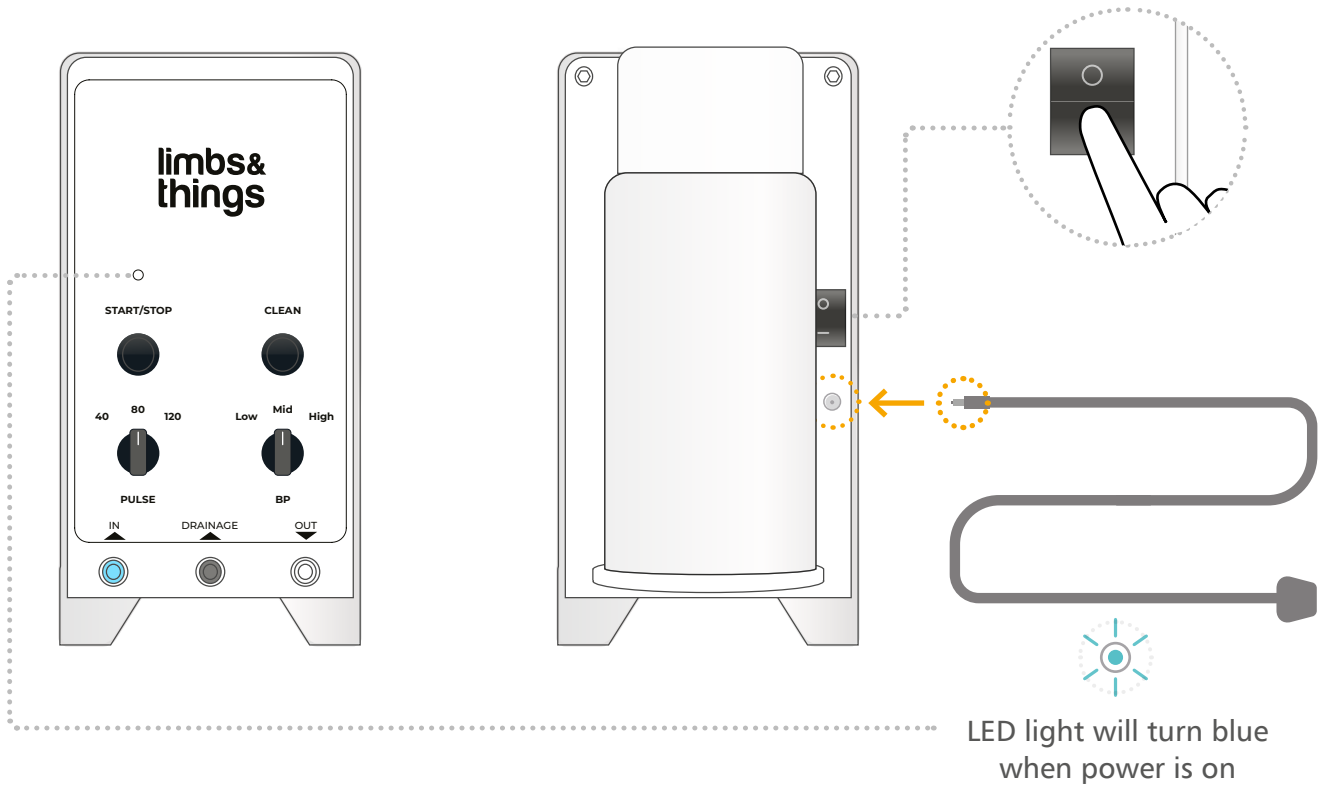


Always ensure that the products are properly packed and secured during transportation and storage in order to prevent personal injury or damage to the product.

SET UP

INITIAL SET UP

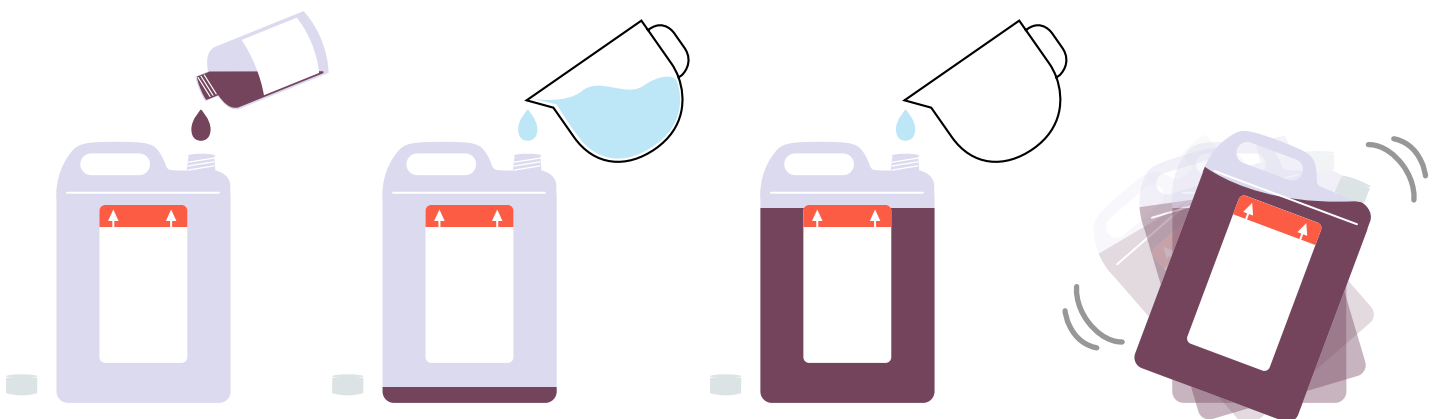
1



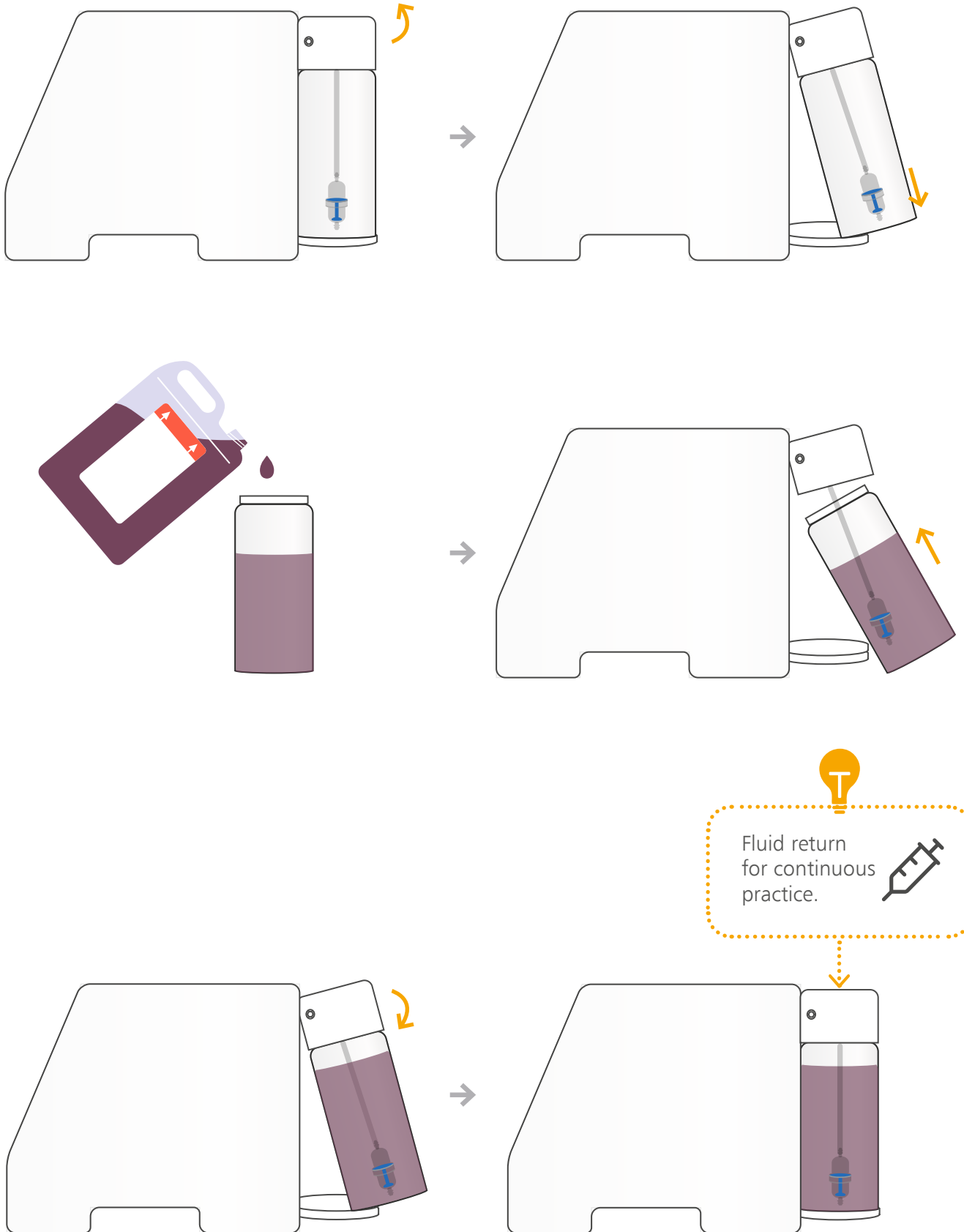
2



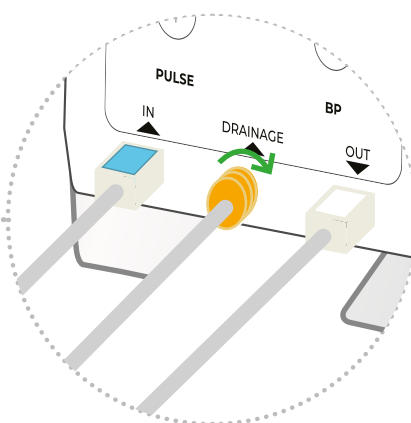
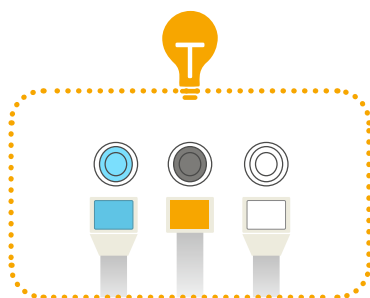
Prepare your blood as described on the blood refill label



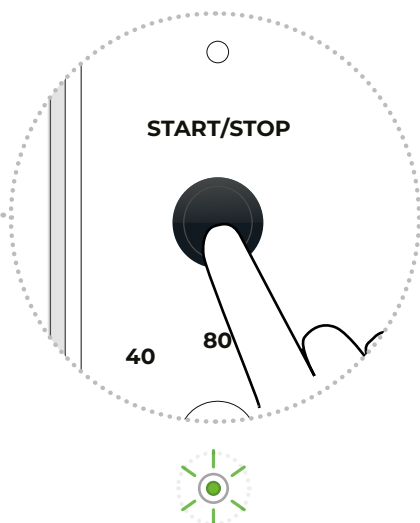
3



4



Reposition the tube ties: place one 100–150 mm from the unit and the other 100–150 mm from the wrist.



LED light will turn green to show program is running



limbs& things

START/STOP

CLEAN

40 80 120

Low Mid High

PULSE

BP

IN DRAINAGE OUT

IHHI

IHHI

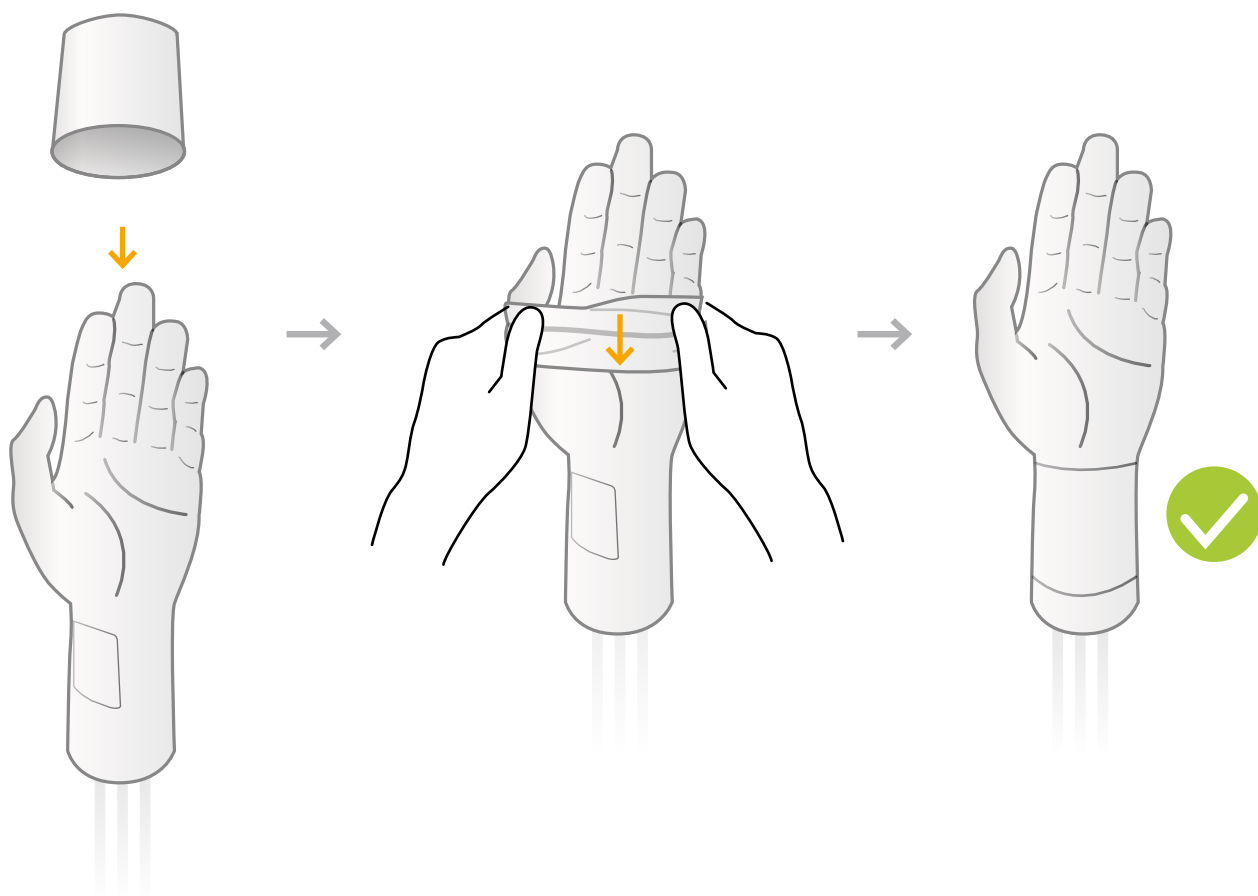
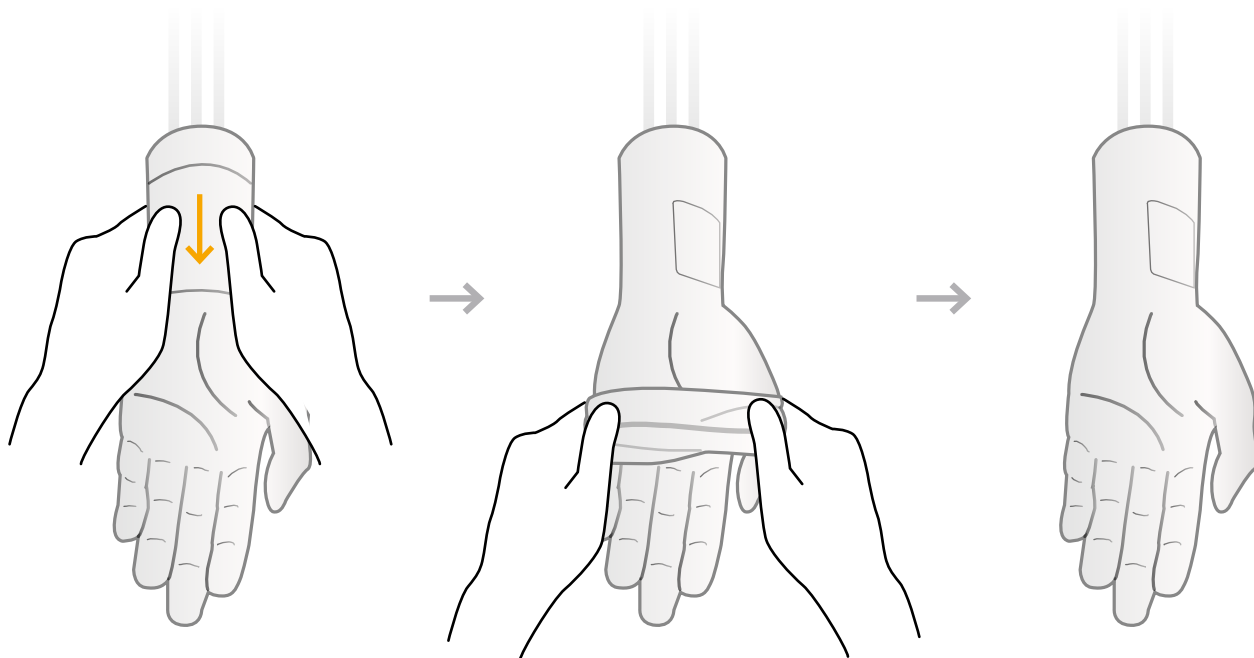
IHHI



SET UP

CHANGING SKIN CUFF

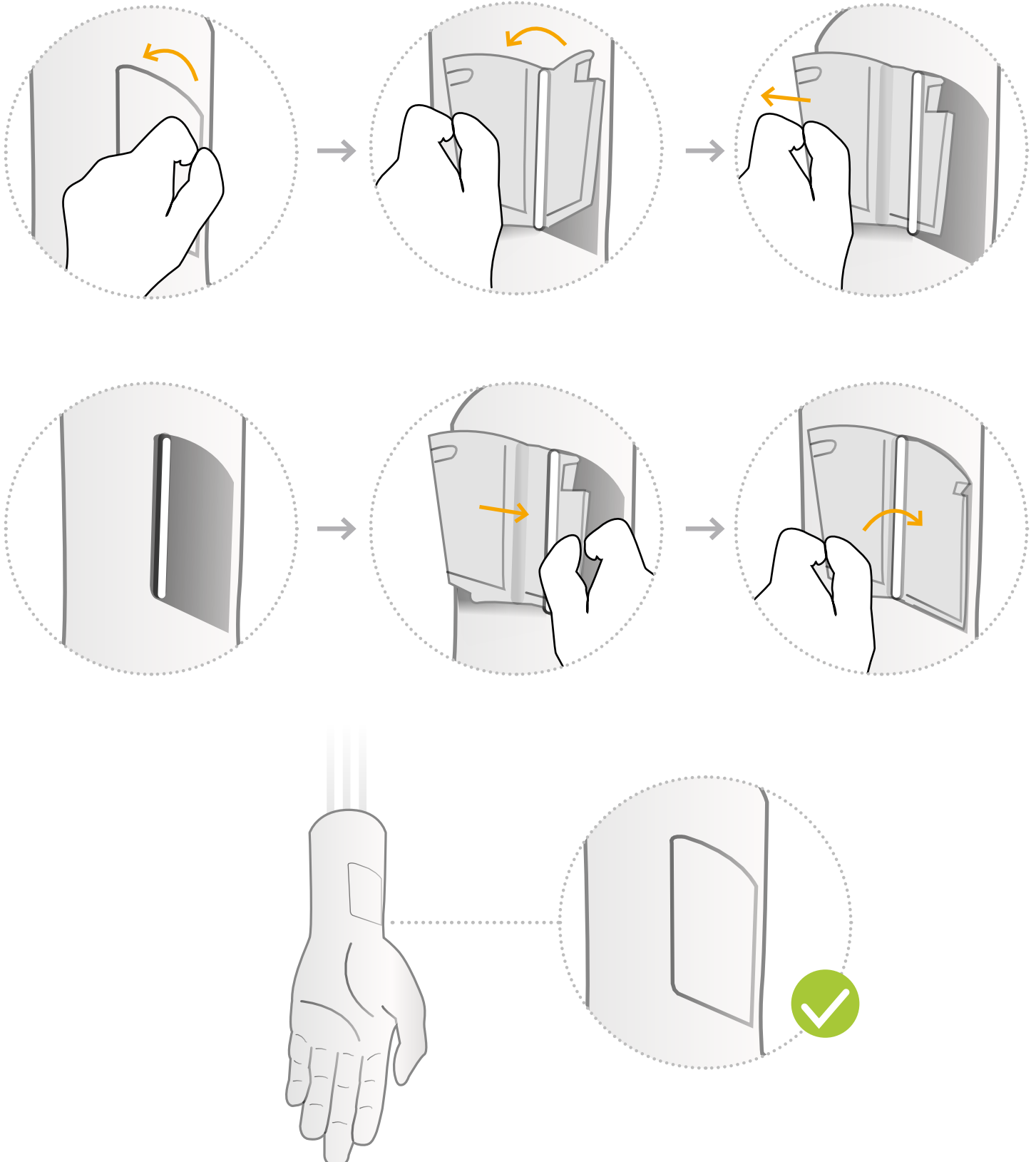
Before proceeding, press STOP. The LED should change to blue.



SET UP

CHANGING PADS

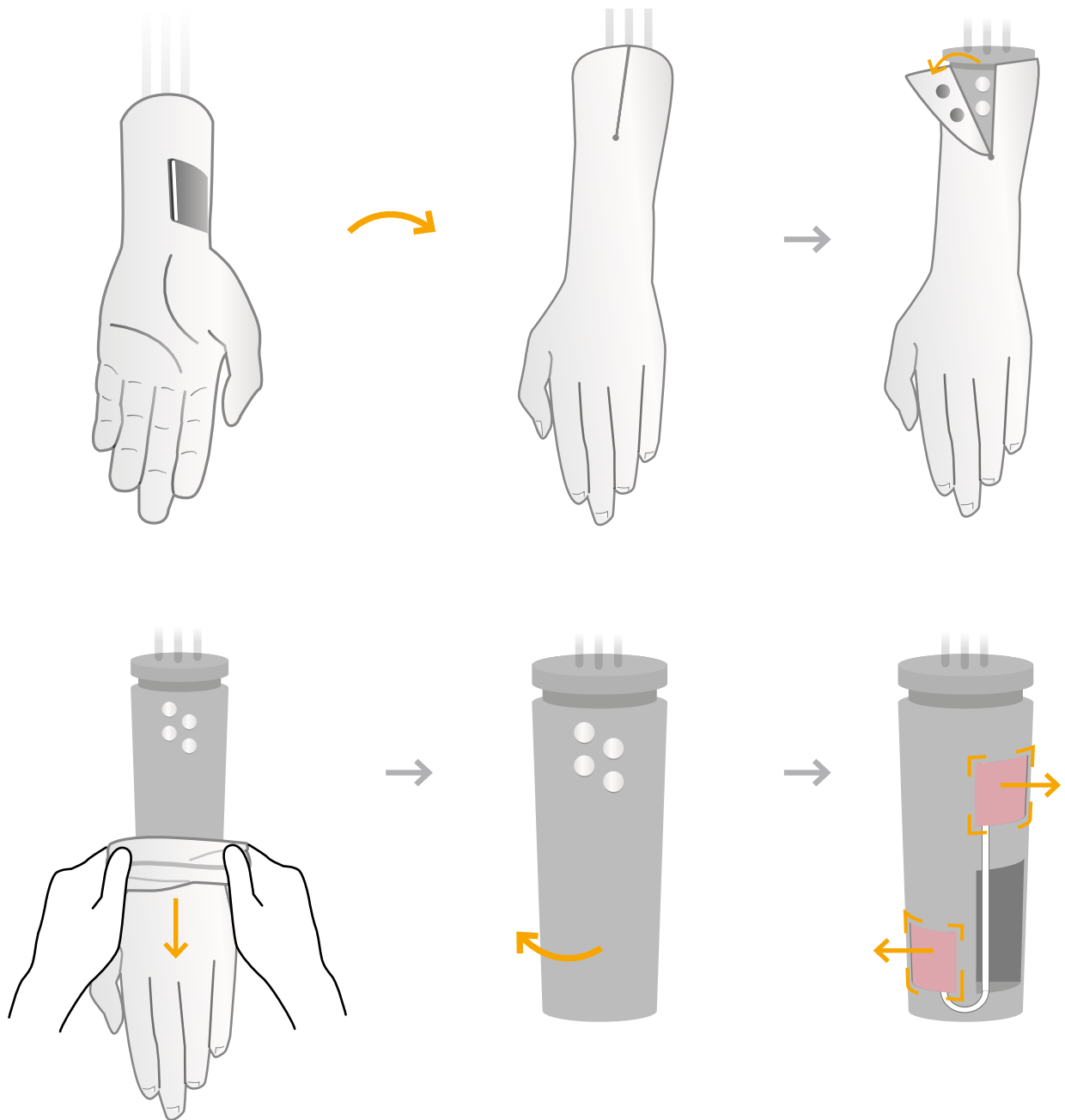
- Before proceeding, press STOP. The LED should change to blue.
- Remove skin cuff if present.

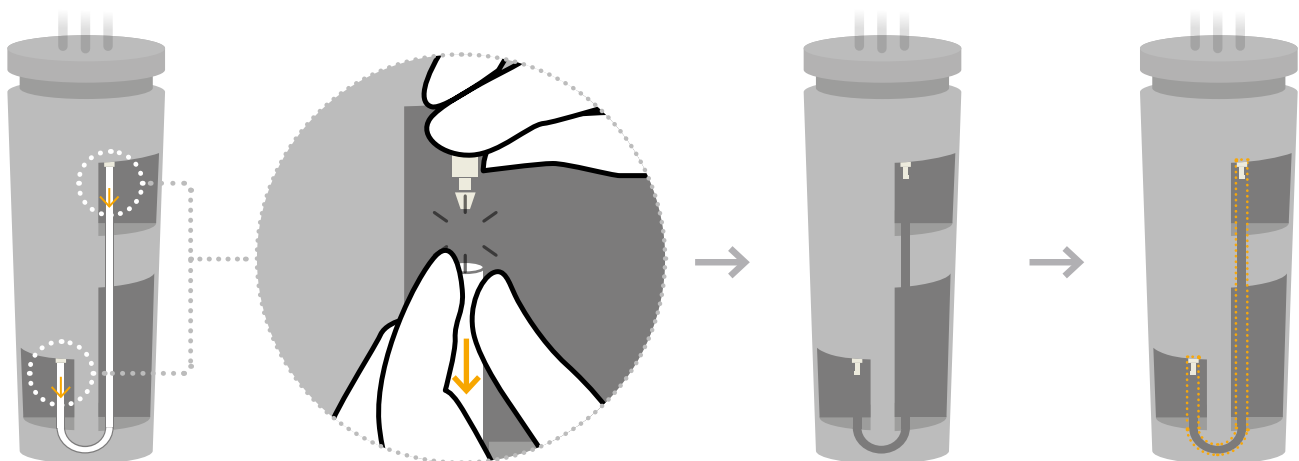


SET UP

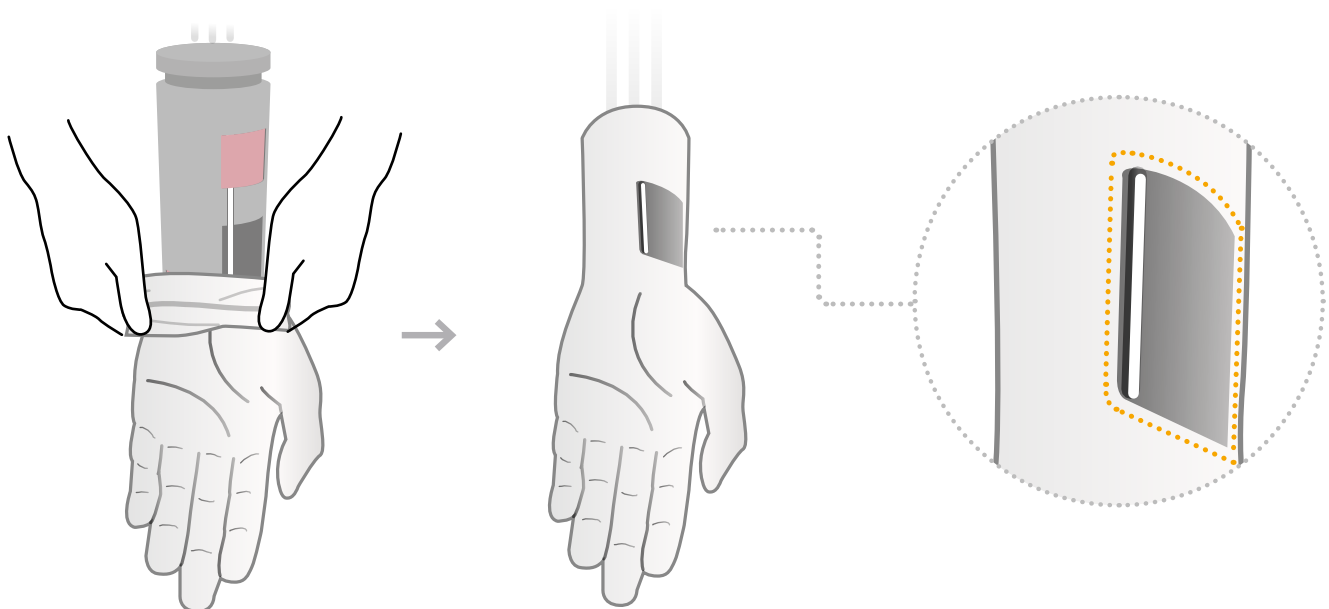
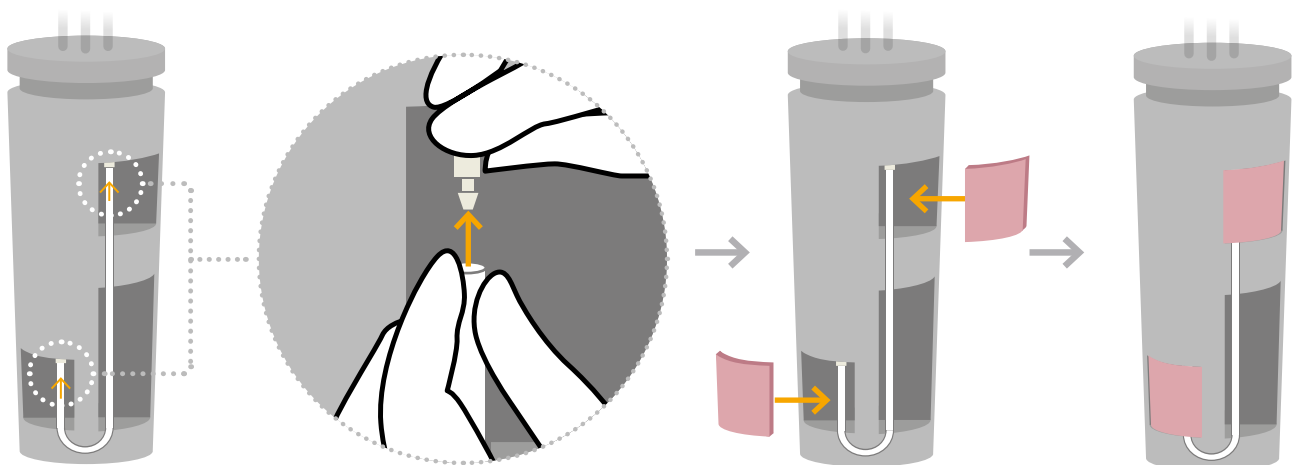
CHANGING VESSELS

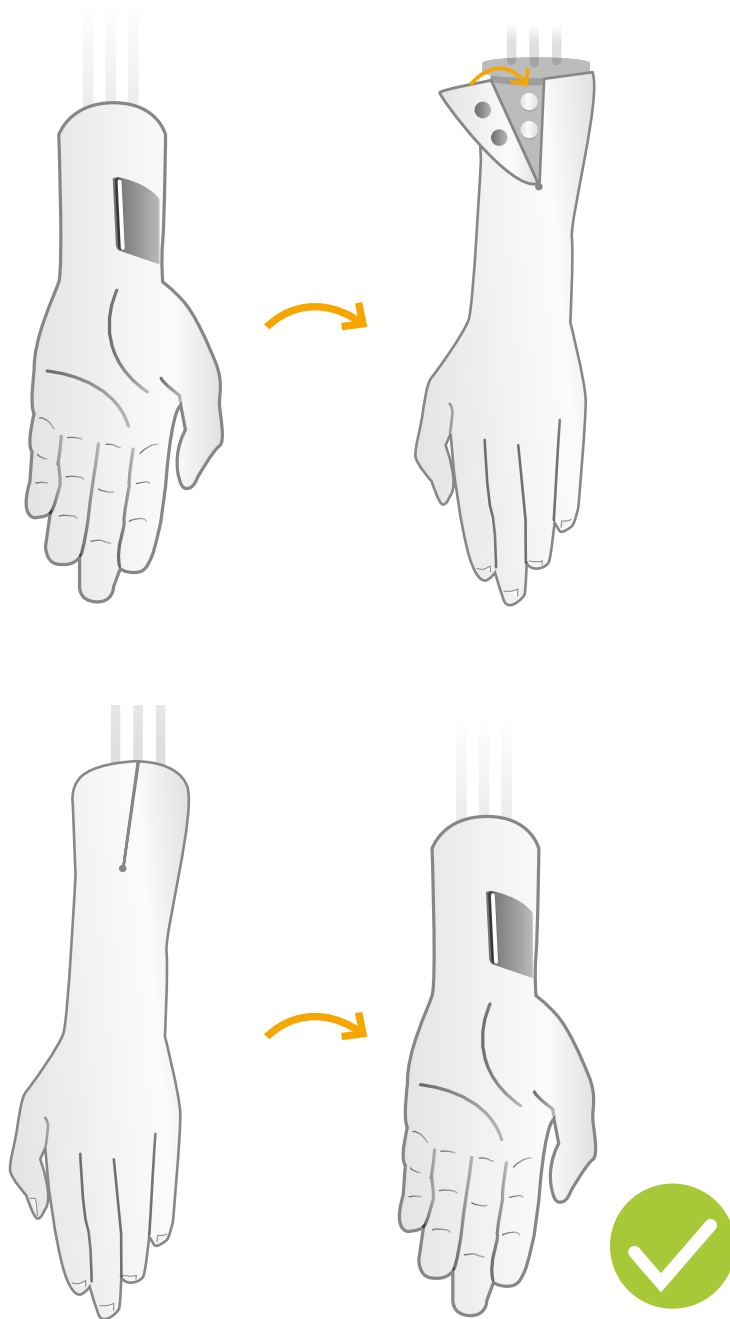
- Before proceeding, press STOP. The LED should change to blue.
- Remove skin cuff if present.
- Take out pad.





Ensure that the vessel remains within its designated channel.



**Recommended Equipment**

20G. Radial artery catheterization set (22G needle with a 20G cannula)
23G. Arterial blood sampling kit with dry lithium heparin for gases & electrolytes.

SET UP

CONTROL SETTINGS

STATUS - LED Colour:

- BLUE** – Standby
- GREEN** – Program running
- YELLOW** – Cleaning Cycle
- RED** – Error

START / STOP

Starts and stops the program.

PULSE RATES:

Toggle through each position to try different Pulse rates.

- 40 bpm
- 80 bpm
- 120 bpm

CLEAN:

Press and hold the CLEAN button for 2 seconds until the LED turns yellow; the 30-second cleaning cycle will start and can be stopped anytime by pressing the button again.

BP BLOOD PRESSURES:

Toggle through each position to try different blood pressures.

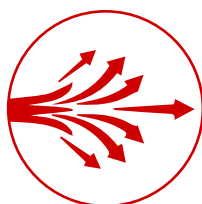
- LOW
- MID
- HIGH

PRESSURES ARE HAPTIC REPRESENTATIONS

(not the same applied pressures as found in humans).

For Guidance:

LOW - represents BP: 90/60
 MID - represents BP: 120/80
 HIGH - represents BP: 150/110

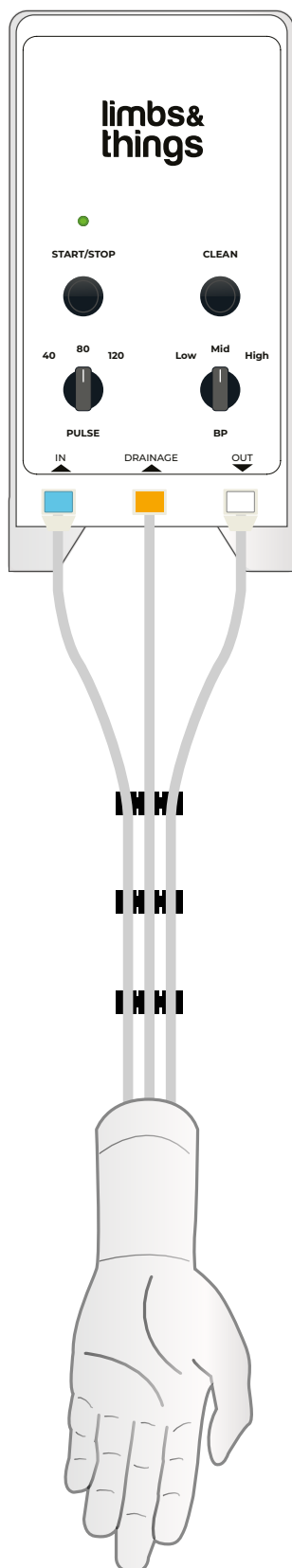


Please note: This is a pressurised system.

When cannulating, fluids will forcefully evacuate the artery, we therefore advise not to stand directly in front of the cannula.

CLEANING & STORAGE

CLEANING CYCLE



Cleaning Cycle Instructions

Start cycle – Press and hold the Clean Cycle button for 2 seconds.

Prepare – When Clean Cycle is finished, remove the blood bottle. Rinse and replace with a bottle filled with clean water and Milton (30ml per 500ml of water).

Press start – Press start to prime the system with water and let it run for 30 seconds.

Restart – Press the Clean Cycle button again to complete the rinse.

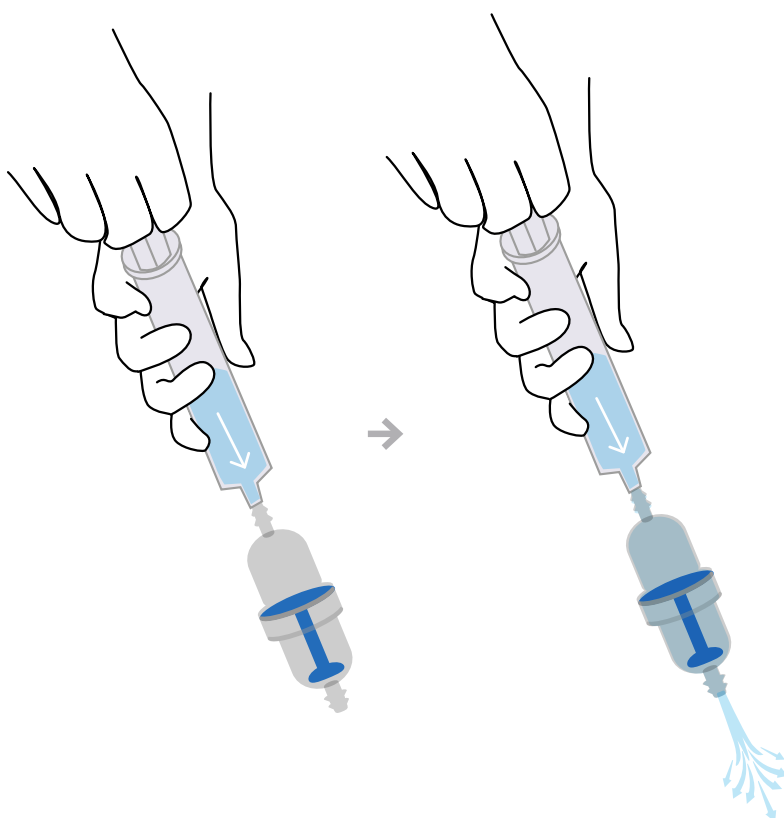
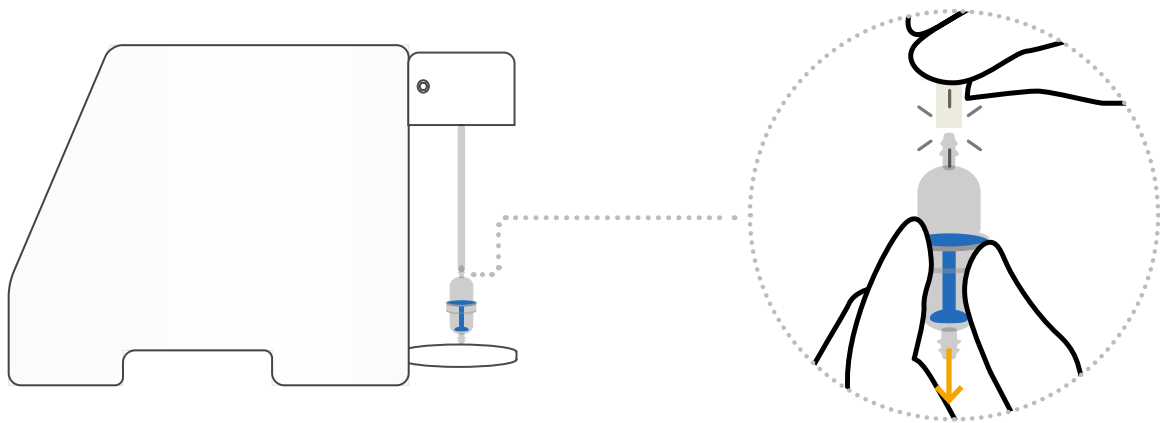
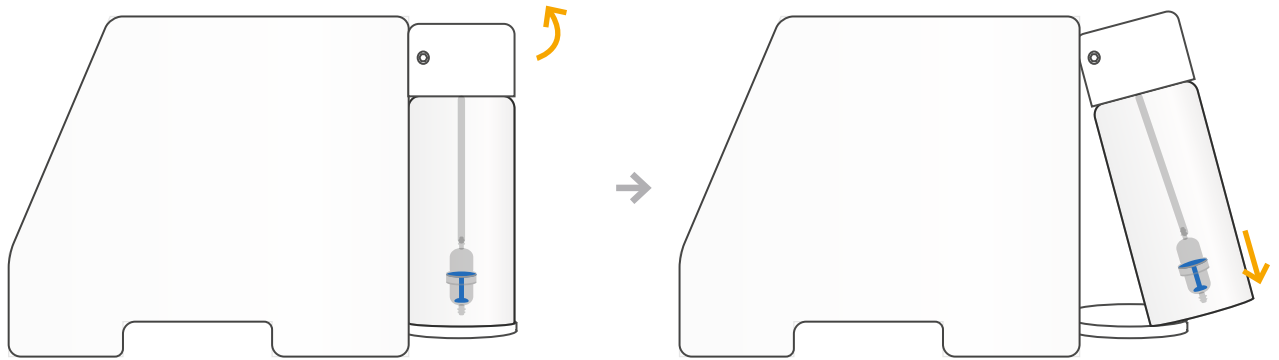
Empty – Remove the bottle of water and empty it.

Final step – Replace the bottle, dry it thoroughly, and store it in a clean, dry place.



CLEANING & STORAGE

CLEANING THE FILTER



If sediment has built up, remove the filter as shown, clean and reattach to the tube, this way up.

TEST CERTIFICATION

Software version	Changes
Electrical Supply:	Input Voltage Range - 110 – 240VAC +/-10% Input Frequency Range - 50/60Hz +/- 3Hz Output Voltage Rating +12V DC Output Current Range – 2A MAX. System Pressure – 0.2MPa Flowrate - 30 - 100mL/MIN
Environmental conditions: Recommended operation environment for the circulation pump.	Working environment – Indoor Use (avoid exposure to the elements) Operating Temperature - 10°C to +40°C Operating Humidity - 10 to 90% (avoiding condensation) Storage Humidity – 10 to 90% Degree of ingress protection rating – IPX0 Altitude: Up to 2000 meters above sea-level
Materials:	Medical-grade silicone, latex-free, compatible with ultrasound gel
Set-up / Safety:	We recommend placing the unit on a stable, level surface and clean spills immediately.
Cleaning & Maintenance:	Wipe clean; Ensure unit is empty of fluids. Change vessels after suggested no. of procedures. Remove vessels during storage.

YOU MAY
ALSO BE
INTERESTED
IN...

OPTIONAL TO PURCHASE:

VENEPUNCTURE ARM

ADVANCED

70300

70301



STANDARD

70302

70303

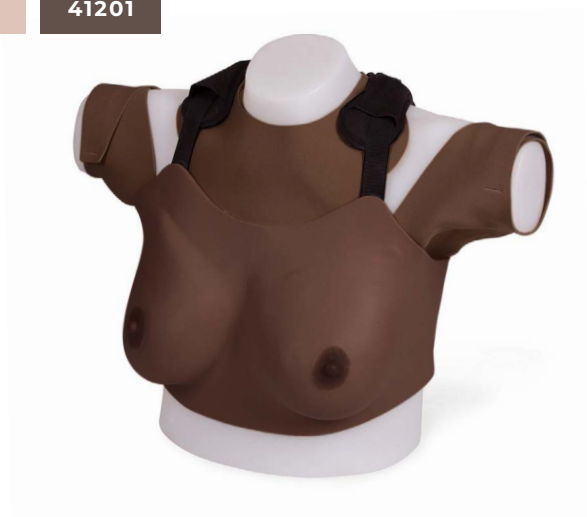


BREAST EXAMINATION TRAINER - ADVANCED & STANDARD

ADVANCED

40201

41201



STANDARD

40200

41200



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