DIAGNOSTICS

When something does not work.

FAULT	POSSIBLE CAUSE	REMEDY
White LED is off, but the trainer pumps.	LED or control-unit fault.	Contact the manufacturer's technical support.
White LED is off and the trainer does not pump.	Battery discharged.	Charge the battery. If the fault persists, contact technical support.
	Control-unit fault.	Contact the manufacturer's technical support.
Trainer does not pump fluid.	The inlet tube is not in contact with the fluid.	Refill the reservoir or move the fluid towards the connected tube.
	The inlet tube is damaged and draws in air.	Inspect the tube and replace it if damaged.
	The tube is not correctly connected to the quick coupling.	Disconnect and reconnect the tube to the quick coupling.
	Pump fault.	Contact the manufacturer's technical support.
Pressure is not detected and the pump continues to run.	Leak in the internal circuit.	Disconnect the wound and press a finger against the end of the tube from the trainer. If the fault persists, contact technical support.
	Control-unit fault.	Contact the manufacturer's technical support.

MANUFACTURER

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simBLEED®

INSTRUCTIONS FOR USE

simBLEED®

Trainer for bleeding control techniques

! **Read the complete instructions for use carefully before use.**

DEVICE OVERVIEW

01 ON/OFF switch

Switches the device power on and off.

02 USB-C port

Battery charging: 5 V, minimum 2 A. Charging during operation is supported.

03 White LED

Operating status. Flashes rapidly three times at startup; slow flashing indicates a low battery.

04 Green LED

Battery fully charged.

05 Red LED

Battery charging in progress.

LED QUICK REFERENCE

White: operation / low battery Red: charging Green: fully charged

WORKFLOW

From setup to training.

Preparation

01 Charge the device

Connect the trainer via USB-C and allow it to charge fully. The green LED indicates a full charge.

02 Choose a stable surface

Place the trainer on a dry, firm and level surface.

03 Connect the tubing

Insert the tubing into the connectors on the trainer and wound. Connect the fluid reservoir last. Confirm that all connections are secure.

04 Switch on the trainer

Move the switch to "ON". The white LED flashes rapidly three times and then remains lit.

05 Check for leaks

Check the tubing and connectors for leaks or damage. If a leak is found, switch the device off immediately and replace the faulty part.

Using the trainer

01 Bleeding simulation

The pump starts automatically after power-on and simulates active bleeding.

02 Wound packing

Insert gauze into the simulated wound. The trainer evaluates pressure applied to the bleeding source.

03 Bleeding control

The pump stops automatically when the defined pressure is reached.

04 Bleeding resumes

If pressure drops below the defined level, the pump starts again.

Charging during operation: Connect USB-C when the white LED flashes slowly. The red LED indicates charging. The green LED lights when fully charged.

Shutdown: Move the switch to "OFF". The white LED turns off. Then disconnect the tubing from the reservoir.

! Bleeding stops only when the defined pressure is reached. It resumes automatically if pressure drops.

AFTER EVERY USE

Clean. Protect. Store.

Maintenance and cleaning

A Trainer and tubing

After each use, disconnect the tubing, rinse it with clean water and allow it to dry at 20-28 °C. Wipe the enclosure with a damp cloth.

B Reservoir

Wash with a mild soap-and-water solution. Water temperature must not exceed 60 °C / 140 °F. Rinse and allow to dry at 20-28 °C.

C Storage

Store simBLEED in a cool, dry place away from direct sunlight.

D Battery

Check the charge level regularly. Fully charge the battery before extended storage.

E Prohibited cleaning agents

Do not use thinner, benzene, alcohol or other chemicals.

Safety instructions

A Battery

Do not expose the product to fire or direct sunlight. Electrolyte leakage, overheating or explosion may occur.

B Repairs

Do not repair the product yourself. Contact the manufacturer's technical support.

C Charging cable

The connected cable must not be placed in moisture or water.

D Inspection

The device must be free of visible damage.

E Temperature

Do not operate at 0 °C or below, or above 40 °C.

F Fluid

Do not use excessively thick or viscous fluids. They may impair the pump or block the tubing.

G Impact

Protect the product from falls and severe impact.

H Rattling

If the device rattles, do not start it. Contact technical support.

CH Overheating

If the device overheats, do not start it. Contact technical support.