

High Vacuum Liposuction / Surgical Suction Unit

Operating Manual

Surgical Equipment

Intended use

Electrically powered high-vacuum suction unit for aspiration during liposuction and other surgical procedures, collecting aspirate in twin collection jars.

Intended users

For use by trained healthcare professionals (licensed surgeons and clinical staff) in an appropriate operating or procedure room. Follow your facility's protocols and applicable regulations.

Read this manual completely before first use and keep it with the product. This document provides general operating, care and safety guidance. Where the product is supplied with manufacturer labeling or instructions, those take precedence. For questions, a replacement copy, or a digital copy of this manual, email sales@scimedstore.com.

1. Safety

Safety warnings and cautions

- For use by trained healthcare professionals. Follow your facility's protocols and applicable regulations.
- Vacuum level and all procedure parameters must be set according to clinical protocol and the physician's judgment.
- Connect only to a grounded outlet with the supply voltage marked on the unit.
- Always use the overflow check valves and the moisture filter. Never run the unit without them; fluid entering the pump will damage it.
- Do not let collection jars overflow. Monitor fluid levels throughout the procedure and change jars before they are full.
- Treat all aspirate as potentially infectious. Wear appropriate personal protective equipment and follow your facility's biohazard procedures.
- Unplug before cleaning, changing filters or servicing. Do not allow liquids to enter the motor housing.
- Do not use in the presence of flammable anesthetics or in oxygen-enriched atmospheres unless your facility has confirmed it is suitable.

2. Package contents

- Suction unit
- 2 x 2000 cc polycarbonate collection jars
- Connecting tubing
- Moisture filter
- Vacuum tubing
- User manual

Check contents on receipt. Report missing or damaged items to sales@scimedstore.com within 48 hours of delivery.

3. Specifications

Suction capacity	45-50 L/min
Maximum vacuum	750 ±10 mmHg, regulable with vacuum control knob
Vacuum gauge	Bourdon type, 4 in, 0-760 mmHg
Pump	Rotary twin pump (double stage), 1 HP, self-lubricating
Collection jars	2 x 2000 cc unbreakable polycarbonate, float-type overflow check valve
Tubing	Non-collapsible
Filter	Removable moisture/bacteria filter
Motor protection	Thermal cut-off
Body	Powder-coated steel with SS 304 top
Dimensions (L x W x H)	380 x 390 x 825 mm
Weight	Approx. 34 kg
Power	220V 50 Hz single-phase (110V/60Hz on request)

4. Unpacking and setup

- 1 Place the unit on a level floor in the procedure room and lock any casters.
- 2 Check that the supply voltage marked on the unit matches your supply.
- 3 Fit the two collection jars securely and check that the float-type overflow valves move freely.
- 4 Fit the moisture filter between the jars and the pump inlet.
- 5 Connect the tubing from the jars to the unit and from the jars to the patient-side connection, making sure all connections are tight.
- 6 Plug the unit into a grounded outlet.
- 7 Before the patient is connected, switch on, occlude the patient tubing and confirm that vacuum builds on the gauge and that the vacuum control knob adjusts it. Switch off.

5. Operation

During a procedure

- 1 Connect sterile patient-side tubing and cannula according to your facility's aseptic procedure.
- 2 Switch the unit on.
- 3 Set the vacuum with the vacuum control knob according to clinical protocol and the physician's judgment, reading the level on the gauge.
- 4 Monitor the gauge and the jar fluid levels throughout use.
- 5 If a jar approaches full, switch to the second jar or stop and replace the jar as per facility procedure.
- 6 If the overflow valve closes, stop, switch off and empty or replace the jar before continuing.

After the procedure

- 1 Turn the vacuum control knob down and switch off the unit.
- 2 Disconnect the patient-side tubing and dispose of single-use items as biohazard waste.
- 3 Remove the collection jars carefully and dispose of contents per facility biohazard procedure.
- 4 Clean and disinfect the jars, lids and float valves as described below.
- 5 Check the moisture filter and replace it if wet or discolored.

6. Cleaning and disinfection

- Switch off and unplug before cleaning.
- Empty and rinse the collection jars, lids and float valves, then clean and disinfect them per facility protocol using agents compatible with polycarbonate.
- Do not autoclave jars or other parts unless labeled as autoclavable; clean and disinfect per facility protocol.
- Wipe the body and stainless steel top with a cloth dampened with a compatible surface disinfectant. Do not spray liquid into vents or the motor housing.
- Replace tubing and filters as required by facility protocol.

7. Maintenance and storage

- Store clean and dry, with jars and tubing dry before reassembly.
- Inspect jars for cracks, lids for seal damage, and tubing for wear before every use.
- Replace the moisture filter regularly and whenever it becomes wet.
- Check the power cord and gauge regularly.
- Refer pump and electrical repairs to qualified service personnel.

8. Troubleshooting

Problem	Likely cause	What to do
No vacuum or low vacuum	Loose connection, cracked jar, leaking lid or vacuum knob set low	Check all connections, jar lids and seals; adjust the vacuum control knob.
Suction stops suddenly	Overflow valve closed or tubing blocked	Check jar level and empty or replace; check tubing and cannula for blockage.
Unit does not start	No power or thermal cut-off activated	Check the outlet and cord; if the motor is hot, allow it to cool before restarting.
Fluid in filter	Jar overfilled or overflow valve failure	Stop use, replace the filter and check the float valve; contact service if fluid reached the pump.
Gauge reading does not change	Gauge fault or blocked gauge line	Contact service.
Unusual noise	Pump wear or obstruction	Switch off and contact service.

9. Disposal

- Dispose of aspirate, tubing, filters and single-use items according to facility biohazard waste procedures.
- Decontaminate the unit before disposal.
- Dispose of the unit as electronic waste in accordance with local regulations.

10. Warranty and support

Products are covered by SciMed's standard warranty (12 months from purchase unless a different period is stated on your invoice). Warranty terms: scimedstore.com/pages/warranty.

Support, spare parts and additional copies of this manual: sales@scimedstore.com. Please include your order number and a photo of the product or issue.

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