

Mini Cryogun 350 mL Liquid Nitrogen Sprayer with 6 Heads

Instructions for Use

Dermatology Equipment

Intended use

Hand-held liquid nitrogen spray device for cryotherapy of skin lesions in outpatient settings, with interchangeable heads for matching spray size to the lesion.

Intended users

For use by trained healthcare professionals. 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.
- Treatment selection, spray technique and freeze duration must follow clinical protocol and the physician's judgment. This manual does not give treatment times.
- Liquid nitrogen causes severe cold burns. Wear cryogenic gloves and eye or face protection when filling and handling the device.
- Do not overfill. Leave headspace in the reservoir for boil-off as stated in the listing (about 10%).
- Never seal the device in a way that prevents venting. Use only the cap supplied with the device.
- Use and store liquid nitrogen in a well-ventilated area; nitrogen gas can displace oxygen in closed spaces.
- Protect the patient's eyes and surrounding healthy skin. Do not spray toward eyes or open wounds unless specifically directed by clinical protocol.
- Keep the device upright when filled and away from children and untrained persons.

2. Package contents

- Mini cryogun with 350 mL reservoir
- Interchangeable freeze heads x 6
- Storage case / bench stand
- User manual

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

3. Specifications

Reservoir capacity	350 mL liquid nitrogen
Freeze heads	6 interchangeable heads
Construction	Stainless steel, vacuum-insulated body
Trigger	Continuous or intermittent spray, one-handed operation
Weight (empty)	Approx. 0.9 kg
Supplied	Empty; liquid nitrogen not included

4. Unpacking and setup

- 1 Inspect the device, cap, trigger and freeze heads for damage before use.
- 2 Fit the chosen freeze head securely.
- 3 Wearing cryogenic gloves and eye protection, open the cap and slowly pour liquid nitrogen into the reservoir from a suitable dewar, using a funnel if available.
- 4 Fill to the level that leaves headspace for boil-off; do not overfill.
- 5 Replace the cap and let the device stand briefly to stabilize.
- 6 Test spray away from people into a sink or open space before use on a patient.

5. Operation

Treatment

- 1 Select the freeze head appropriate to the lesion size, per clinical judgment.
- 2 Position the patient and protect the eyes and surrounding skin as needed.
- 3 Hold the device upright and aim the nozzle at the lesion at the distance set by your clinical method.
- 4 Press the trigger to spray, using continuous or intermittent spray as directed by clinical protocol.
- 5 Release the trigger to stop the spray.
- 6 Repeat cycles only as directed by clinical protocol and the physician's judgment.
- 7 Record the treatment per facility documentation.

Changing heads and after use

- 1 Release the trigger and point the nozzle away from people before changing heads.
- 2 Wear cryogenic gloves; heads become extremely cold.
- 3 Unscrew the head and fit the new one securely.
- 4 At the end of the session, let remaining liquid nitrogen boil off with the device upright in a ventilated area, or return it to the dewar per facility procedure.
- 5 Allow the device to warm to room temperature before cleaning or storage.

6. Cleaning and disinfection

- Allow the device and heads to warm to room temperature before cleaning.
- Wipe freeze heads between patients with a disinfectant such as an alcohol pad, per facility protocol.
- Wipe the exterior daily with a clinical disinfectant per facility protocol.
- Do not immerse the device in liquid.
- Do not autoclave unless labeled as autoclavable.

7. Maintenance and storage

- Store empty, upright and with the cap in place, in a clean, dry area.
- Inspect the cap seal and head O-rings regularly and replace worn seals.
- Check that the nozzle openings are clear before each session.
- Do not attempt to repair the insulated body or trigger mechanism; refer for service.

8. Troubleshooting

Problem	Likely cause	What to do
No spray when trigger pressed	Reservoir empty or nozzle blocked	Refill, or let the device warm and clear the nozzle.
Weak or sputtering spray	Low liquid level or ice in nozzle	Refill; let the head warm and dry, then retry.
Liquid nitrogen leaks from cap or head	Worn seal or loose head	Tighten the head; replace the seal.
Frost on outside of body	Insulation damaged	Stop using the device and refer for service.
Nitrogen runs out quickly	Overfilling with venting or frequent spraying	Fill correctly and keep the device upright between uses.

9. Disposal

- Allow all liquid nitrogen to evaporate in a well-ventilated area before disposal. Never pour liquid nitrogen down a drain.
- Disinfect the device and dispose of it as metal 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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