

Mini Liquid Nitrogen Cryosurgery Sprayer with 6 Freeze Heads

Instructions for Use

Dermatology Equipment

Intended use

Hand-held liquid nitrogen sprayer for cryotherapy of skin lesions in dermatology and outpatient practice.

Intended users

Physicians and trained clinical staff under physician direction. 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.
- Liquid nitrogen causes severe cold burns. Always wear cryogen-protective gloves and eye or face protection when filling and using the device.
- Treatment selection, freeze duration and technique must be set according to clinical protocol and the physician's judgment. This manual does not give treatment parameters.
- Protect the patient's eyes and surrounding skin from spray, per clinical protocol.
- Fill and use only in a well-ventilated area. Nitrogen gas can displace oxygen in small enclosed spaces.
- Never seal or block the vent. Pressure builds as liquid nitrogen boils.
- Do not store liquid nitrogen in the cryogun long term. Fill only when ready to use, and empty after the session.
- Do not overfill. Fill only to the level stated in the instructions supplied with the unit.

2. Package contents

- Cryogun unit
- 6 interchangeable freeze heads

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

3. Specifications

Cryogen	Liquid nitrogen (not included; unit ships empty)
Freeze heads	6 interchangeable heads
Design	Hand-held, single-handed operation

4. Unpacking and setup

- 1 Inspect the unit, lid seal, trigger and freeze heads for damage before use.
- 2 Put on cryogen-protective gloves and eye protection.
- 3 Place the cryogun on a stable surface and remove the lid.
- 4 Slowly pour liquid nitrogen from a suitable dewar into the reservoir, using a funnel if available, to the fill level stated in the supplied instructions.
- 5 Refit and tighten the lid, keeping the vent clear.
- 6 Fit the freeze head chosen for the lesion size.
- 7 Point the head safely away from people and press the trigger briefly to check for spray.

5. Operation

Treatment

- 1 Confirm the treatment plan and parameters according to clinical protocol and the physician's judgment.
- 2 Prepare and position the patient, and protect the eyes and surrounding skin.

- 3 Hold the cryogun upright and aim the freeze head at the lesion at the distance used in your clinical technique.
- 4 Press the trigger to apply liquid nitrogen as set by the clinical protocol.
- 5 Release the trigger to stop the spray.
- 6 Repeat freeze cycles only as directed by the physician.
- 7 Provide aftercare information to the patient per your facility's protocol.

After the session

- 1 Point the head away from people and release any remaining pressure per the supplied instructions.
- 2 Wearing protective gloves, open the lid and allow remaining liquid nitrogen to evaporate in a ventilated area, or return it to a dewar.
- 3 Remove the freeze head for cleaning.
- 4 Store the unit with the lid loosely fitted or open until fully warmed and dry.

6. Cleaning and disinfection

- Allow the unit and freeze heads to warm to room temperature before cleaning.
- Wipe the exterior and freeze heads with an alcohol wipe or a disinfectant approved by your facility between patients.
- Clean and disinfect per facility protocol. Do not autoclave unless labeled as autoclavable.
- Dry all parts fully before storage to prevent ice and moisture build-up.

7. Maintenance and storage

- Store empty, dry and at room temperature.
- Check the lid seal and O-rings regularly and replace if worn or cracked.
- Check freeze heads for blockage and damage before each use.
- Do not modify the vent, valve or trigger.

8. Troubleshooting

Problem	Likely cause	What to do
No spray when trigger pressed	Reservoir empty or freeze head blocked	Refill with liquid nitrogen; warm and clean the head.
Weak or sputtering spray	Low liquid level or pressure not built up	Wait briefly after filling for pressure to build; refill if low.
Leak at the lid	Lid not tight or seal worn	Tighten the lid; replace the seal or O-ring if worn.
Spray continues after release	Trigger or valve fault	Point away from people, open the vent per the instructions, stop use and contact the supplier.
Ice on the outside of the unit	Normal during use, or long use without pause	Wear gloves; allow the unit to warm between sessions.

9. Disposal

- Empty the unit completely and let it warm to room temperature before disposal.
- Clean and disinfect before disposal.
- Dispose of the unit 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.

SciMed Scientific Equipment LLC · San Jose, California, USA · scimedstore.com