

Cryogun Cryosurgical Unit with 5 Interchangeable Probes

Instructions for Use

Cryosurgery Equipment

Intended use

Hand-held, trigger-operated cryosurgical instrument that delivers nitrous oxide (N₂O) gas to an interchangeable probe tip to freeze targeted tissue during outpatient cryotherapy procedures in gynecology, ENT, dermatology and general surgery.

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 only. Follow your facility's protocols and applicable regulations.
- Freeze duration, number of freeze-thaw cycles and treatment margins must be set according to clinical protocol and the physician's judgment.
- The probe tip reaches extremely low temperatures. Avoid contact with healthy tissue, skin of the operator and surrounding surfaces.
- Handle high-pressure gas cylinders according to compressed medical gas safety rules: secure cylinders upright, keep away from heat, and never drop or strike them.
- Use only in a well-ventilated area. Vent exhaust gas away from the patient's and operator's face.
- Check all connections, washers and the hose for leaks or damage before each use. Do not use if a leak is detected.
- Close the cylinder valve and release residual pressure before changing probes or disconnecting the unit.
- Wear appropriate personal protective equipment, including eye protection and gloves.

2. Package contents

- Cryogun with silencer x 1
- Interchangeable probes x 5 (as specified at order)
- High-pressure connector for N2O cylinder
- Spare washers
- Portable carrying case
- Instructions for use

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

3. Specifications

Cryogenic gas	Nitrous oxide (N2O); also compatible with carbon dioxide (CO2)
Probes included	5 interchangeable probes (tips specified at order)
Body material	ABS plastic
Operation	Hand-held, trigger-operated
Noise attenuation	Integrated silencer
Working temperature	Approximately -89 °C at probe tip (N2O)
Gas connection	Standard high-pressure N2O connector
Gas cylinder	Not included; source separately from a medical gas supplier
Case	Portable carry case included

4. Unpacking and setup

- 1 Unpack the case and check all items against the package contents list.
- 2 Inspect the gun body, probes, connector and washers for damage.

- 3 Ensure the cylinder valve is closed and the cylinder is secured upright.
- 4 Fit a washer and attach the high-pressure connector to the N2O cylinder outlet. Tighten firmly with the appropriate tool; do not overtighten.
- 5 Connect the cryogun to the connector line.
- 6 Select the probe required for the procedure and thread it onto the gun until secure.
- 7 Open the cylinder valve slowly and check all joints for leaks (listen for hissing). Close the valve and correct any leak before use.
- 8 Briefly press the trigger away from the patient to confirm gas flow and probe cooling.

5. Operation

Performing a cryotherapy application

- 1 Prepare the patient and treatment site according to clinical protocol.
- 2 Open the cylinder valve slowly.
- 3 Position the probe on the target tissue under direct visualization.
- 4 Press the trigger to release gas to the probe tip and begin freezing.
- 5 Maintain contact and monitor ice formation; freeze time and margins are set according to clinical protocol and the physician's judgment.
- 6 Release the trigger to stop gas flow and allow the tissue to thaw before withdrawing the probe. Do not pull a frozen probe away from tissue.
- 7 Repeat freeze-thaw cycles only as directed by clinical protocol.

Changing probes

- 1 Close the cylinder valve.
- 2 Press the trigger away from the patient to release residual pressure.
- 3 Allow the probe to return to room temperature.
- 4 Unscrew the probe and fit the new probe, checking the washer is in place.
- 5 Open the cylinder valve and check for leaks before use.

Shutting down

- 1 Close the cylinder valve fully.
- 2 Press the trigger to vent residual gas from the line.
- 3 Disconnect the cryogun and connector from the cylinder.
- 4 Remove the probe for cleaning and reprocessing.
- 5 Store the gun and probes in the carrying case.

6. Cleaning and disinfection

- Allow the probe to warm to room temperature before handling.

- Remove probes from the gun after each patient.
- Clean probes and the gun body with a mild detergent and soft cloth to remove visible soil.
- Clean and disinfect or sterilize probes per facility protocol. Do not autoclave unless labeled as autoclavable.
- Do not immerse the gun body or allow liquid to enter the gas pathway.
- Dry all parts thoroughly before storage.

7. Maintenance and storage

- Inspect washers at each use and replace worn or damaged washers with the spares supplied.
- Check probe threads and tips for damage before each use.
- Store the unit and probes clean and dry in the carrying case.
- Store gas cylinders separately according to compressed gas storage regulations.
- Refer repairs to qualified service personnel. Do not disassemble the gun body.

8. Troubleshooting

Problem	Likely cause	What to do
No gas flow when trigger is pressed	Cylinder valve closed or cylinder empty	Open the valve fully; check cylinder contents and replace if empty.
Hissing at connections	Missing or worn washer, or loose connection	Close the valve, release pressure, replace the washer and retighten.
Probe does not freeze adequately	Low cylinder pressure, moisture in line or probe not seated	Check cylinder contents, ensure the probe is fully threaded and dry, and retry.
Probe sticks to tissue	Withdrawal before thaw	Release the trigger and wait for complete thaw before removing the probe.
Frost forming on the gun body or hose	Gas leak in the line	Stop use, close the valve and inspect connections and hose.
Trigger stiff or does not return	Debris or damage in trigger mechanism	Stop use and contact service.

9. Disposal

- Return empty gas cylinders to the gas supplier; do not dispose of pressurized cylinders in waste.
- Decontaminate the unit and probes before disposal.
- Dispose of the instrument and accessories in accordance with local regulations for medical equipment.

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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