



TROUBLESHOOTING GUIDE

ISSUE	SOLUTION
<p>If the Cryosurgical Unit does not spray or sprays only intermittently.</p>	<p>Spray Tip may be clogged. Remove tip. If the Cryosurgical Unit sprays without a tip, clean the opening of the tip with a fine needle or bang the tip gently on a table or counter to dislodge any foreign matter. Then check the Liquid Nitrogen supply (Dewar) for contaminants that can clog the tips and unit. To help ensure the Liquid Nitrogen remains free of particulate matter, such as ice crystals, carbon dioxide slush, lint, etc., the storage Dewar used should be completely emptied at least 4 times a year just prior to having it refilled. This is accomplished by vigorously agitating the residual amount of Liquid Nitrogen in the Dewar and discarding it in a safe, outdoor area.</p> <p>If the unit still has a problem it may have been over filled and there is insufficient air space inside the bottle to create an adequate build up of pressure to enable that is required for the Liquid Nitrogen to spray.</p> <p>Check that the Gasket is in place inside the cover and is not split or missing. Always ensure you have spare Gaskets available.</p>
<p>Trigger Handle sticks open.</p>	<p>Valve Stem sticking. Depressurize the unit immediately by unscrewing the top a quarter to one half turn. Lubricate valve stem as follows: Wait until the Cryosurgical Unit is warm and dry, the top center valve stem should be lubricated with a DROP of silicone lubricant or WD-40. Lubrication should be carried out every 3 to 6 months. CAUTION: If an excessive amount of lubricant is applied the trigger mechanism could freeze open.</p>
<p>Unit appears to be "Leaking" or "Hissing" from the Relief Valve.</p>	<p>During normal operating conditions, if the Unit is left standing for a period of time the constant evaporation of the Liquid Nitrogen inside the bottle will result in the temporary opening of the Relief Valve venting the excess pressure. This "hissing" is also heard when the Unit is picked up. THIS IS NOT A PROBLEM. The Relief Valve is just operating as designed.</p>
<p>Unit is frosting over and excessive hissing from the Relief Valve.</p>	<p>If the Exterior of Bottle is frosting over there will be excessive Relief Valve activity (hissing). THIS IS A PROBLEM. The vacuum inside the bottle has deteriorated due to age or the bottle has been damaged. Replacement of Bottle is necessary. Return the complete Cryosurgical Unit to an Authorized Brymill Dealer. Note: If the unit is found to have been misused or abused (Dropped, dented, cracked etc.) the 3 year warranty will be void.</p>
<p>Trigger does not operate.</p>	<p>The position of the Trigger should be on the left or right hand side of the delivery tube and not at the back of the Unit.</p>

If you experience any further problems with your Cryosurgical Unit contact the company where you purchased it immediately.

WARRANTY & REPAIRS

All units carry a warranty against manufacturing defects for a period of 3 years from the date of purchase. If for any reason you require your unit to be serviced or repaired the repair must be carried out by a Brymill Authorised Repair Center.

To claim warranty the unit must be sent back to where it was originally purchased from.

The warranty does not cover damage as a result of misuse and abuse.

If repairs are performed by any other party the warranty will become invalid. Unauthorized repairing will also absolve Brymill Cryogenic Systems of any claims for injury caused by an unauthorized repaired unit.

Warranty on Replacement Flask is 3 months.

NOTES & TIPS

Caution – When handling Liquid Nitrogen ensure you are familiar with the information contained in the Material Safety Data Sheet for Liquid Nitrogen and that you are wearing the appropriate recommended Personal Protective Equipment.

The Cryosurgical Unit is easily filled warm or refilled cold after prolonged use.

Liquid Nitrogen may be carefully poured into the Bottle (slowly when warm) or by any standard LOW pressure withdrawal device from a Liquid Nitrogen storage Dewar.

The volume of Liquid Nitrogen needed for adequate functioning is from 33% to 70% full.

It is recommended that for a 3 - 6 hour duration of intermittent use that the Cryosurgical Unit be 70% filled.

However, the physician will find that if the unit is filled approximately 40%, it will be lighter in weight and the Top will remain slightly warmer for further comfort in continued handling.

Before replacing the top, ensure that the rubber gasket is still in place inside the cap. If it is missing the Cryosurgical Unit may not pressurize correctly and the top may become stuck. In this event the Cryosurgical Unit must be returned to an Authorized Repair Centre for proper removal.

After filling a warm Cryosurgical Unit, allow 30 to 60 seconds for the initial boiling of the Liquid Nitrogen to subside before attempting to replace the Top. If a large number of cryosurgery procedures are scheduled, the reservoir of Liquid Nitrogen may be topped off after the first boiling, and the unit has cooled off.

Caution - To refill a Cryosurgical Unit after it has been in use you must ensure that the unit is depressurized before removing the top. To Depressurize the Cryosurgical Unit, unscrew the top a quarter to half turn only. The pressurized gas inside will begin to vent from the hole situated in front of the Valve Body. Once the hissing has stopped the top can be unscrewed and removed.



OUTSIDE PART IDENTIFICATION



INSIDE PART IDENTIFICATION

