

November, 2024

## **TECHNICAL SERVICE BULLETIN SB-2024-11-01 Rev A**

### **Subject: RECOMMENDED LN2 FREEZER MAINTENANCE**

This Service Bulletin provides customers with a LN2 Freezer Maintenance schedule that is recommended by IC Biomedical to ensure optimum operation and performance, as well as maximum service life.

This is the IC Biomedical recommended preventative maintenance. IC Biomedical's Distributors may have a more comprehensive maintenance/service plan. At the minimum, the below schedule should be followed.

 1-855-750-8191

 [www.icbiomedical.com](http://www.icbiomedical.com)

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### IC Biomedical Recommended LN2 Freezer Maintenance Schedule

Task	Weekly	1 Month	6 Months	1 Year	3 Years	5 years	Additional Information
Level Confirmation (Dipstick LN2 level v. Controller Reading)	O						Contact Distributor if the measured level deviates more than 0.5" / 13mm from the displayed level.
Verify LN2 Adequate Supply is available	O						Adequate LN2 supply pressure and flow is imperative to the proper operation of freezers. Any LN2 supply whether from bulk tank or liquid cylinder must be able to maintain a pressure of 10-20 psig (0.7 – 1.4 bar) during a filling cycle, and must have enough liquid to ensure the completion of a fill cycle.
Remove any Ice build-up on lid and around neck of vessel		O or D					
Check Lid alignment			D				Check lid is aligned correctly
Check Lid Seal and Boot			D				Check lid seal and boot for damage or wear, also that lid seals correctly when closed
Check Lid Gas Springs			D				Check lid gas springs for wear and lid opens and closes correctly
Check Lid hinges			D				Check lid hinges for wear and cracking
Check Step			D				Check to ensure step opens and closes correctly, and bolts are tight.
Controller Alarm Function Test			D				See relevant controller technical manual
Calibrate Controller Level Measurement Sensors / Offset			D				Every 6 months or if the measured level deviates more than 0.5" / 13mm from the displayed level. See relevant controller technical manual
Defrost the LN2 Freezer				D			Annually or whenever ice buildup exceeds 0.2" / 5mm
Calibrate Controller Temperature Measurement Sensors / Offset				D			See relevant controller technical manual
Clean Inlet Filter / Strainer				D			
Check Turntable				D			Check to ensure turntable rotates freely
Lubricate Worm Gear Assembly (if equipped)				D			Brush cryogenic compatible grease on exposed worm gear connected to driveshaft
Replace Relief valve					D		
Replace Batteries (if equipped)					D		Dispose of used batteries as per local country or regional rules and regulations
Replace Solenoid Valve / Solenoid Coil and Plunger Assembly						D	Every 5 years or upon failure
Normal Evaporation Rate Test						D	Every 5 years or if there are signs of abnormally high nitrogen consumption
<b>Key:</b>	<b>D = Distributor</b>						
	<b>O = Operator</b>						

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