

# CRYO-CAL-1

Cryogenic Temperature Calibrator



## Standard Features

- Temperature Ranges From 77 K To 273 K
- Stability Of  $\pm 0.002$  K (Over 30 Min.)
- Injection Molded Lid For Durability & Reduced Heat Conduction
- Corrosion Resistant Gold Plated Equalization Block
- Replaceable Teflon® Bushings To Accommodate Any Size Sensor



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The Cyro-Cal-1 is an alternative to argon triple point and other cryogenic calibrators. It is used to calibrate temperature sensors such as SPRTs, RTDs, and thermocouples via comparison calibration. EDL's Cryo-Cal utilizes the phase change point of liquid nitrogen to establish a reference temperature of approximately 77 K (-196°C).

The Cryo-Cal utilizes a gold plated equalization block which greatly reduces corrosion and oxidation, and contributes to  $\pm 0.002$  K stability and uniformity of the entire system. Four Teflon® lined bushings guide sensors into the Gold Plated Equalization Block; the block is completely immersed in the cryogenic liquid contained within a super-insulated vacuum dewar.



## Standard Features

- Virtually maintenance free - no moving parts or pumps
- Replaceable Teflon® bushings to accommodate any size sensor
- Injection molded lid for durability & reduced heat conduction
- Easily accessible snap-open lid allows for easy cleaning
- Corrosion Resistant Gold Plated Equalization Block
- 12-Month Warranty

## Specifications

Part #	CRYO-CAL-1
Diameter	18 cm (7.0")
Height	32 cm (12.5")
Weight	14.5 kg (32 lbs.)
Capacity	3.8 Liters
Liner Bushings	Teflon®
Wells	Accommodate Sensors Ranging From 1 mm to 7.5 mm (0.040 to 0.312")
Block Diameter	63.5 mm (2.5")
Insertion Length	233 mm (9.2")
Immersion Depth	144 mm (5.66")
Dewar Material	Stainless Steel Shrouded Vacuum Insulated Glass
Block Material	Gold Plated OFHC
Lid Material	Injection Molded Polycarbonate
Minimum Use Temperature	-196° C or 77 K
Maximum Use Temperature	0° C or 273 K
Stability	$\pm 0.002$ K (Over 30 Min.)
Uniformity Of Equalization Block Temperature	$\pm 0.002$ K

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