SOTECH

-56.558°C

Carbon Dioxide Triple Point Cell

If you need to cover the Military ambient temperature range you need to measure from -55° C to $+125^{\circ}$ C.

The official ITS-90 fixed point closest to -55°C is the Mercury Triple Point at -38.8344°C, some 16°C above -55°C.

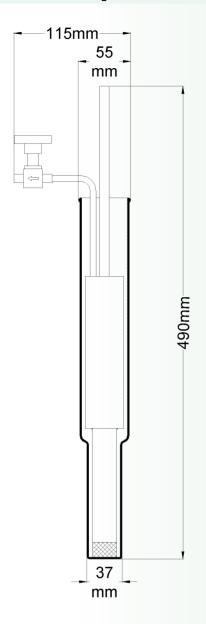
The Carbon Dioxide Triple Point at -56.558°C is much closer to -55°C, and below it.

Using 6N pure Carbon Dioxide uncertainties approaching ± 0.1 mK can be realised.

Isotech's Carbon Dioxide Triple Point Cell can be conditioned in the 814 Bench Mounted Circulating Liquid Bath used with a two stage chiller (refer to databook two) and can calibrate sensors up to 8mm in diameter.

Key Features

- ITS-90 Secondary Point
- Close to Military Ambient minimum temperature of -55°C
- Accurate to ±0.001°C
- Absolute Temperature Calibration
- Proven design





| Model No. | Carbon Dioxide Triple Point Cell |
|----------------------|---|
| Temperature Range | -56.558°C |
| Re-entrant Well | 8mm diameter 440mm total depth 240mm immersion in cell |
| Suitable Apparatus | 814 Bench Mounted Circulating Liquid Bath with 2 Stage Chiller (Refer to Pages 11 - 13, databook 2) |
| Dimensions | Height 490mm Diameter 55mm width (incl. valve) 115mm |
| Weight | 1kg |
| How to Order | Carbon Dioxide Triple Point Cell |