TECHNICAL DATA

7911A2 Constant Temperature Ice Bath

Key features

- Provides lower uncertainty zero-point to ± 0.002 °C uniformity.
- Affordable solution with excellent uniformity and stability.
- Capable of checking/calibrating multiple probes at once.
- Vacuum-insulated stainless steel dewar for ice-point realization longevity.
- Rosemount-designed “flow chute” stirring mechanism to ensure repeatability of the ice point.

Product overview: 7911A2 Constant Temperature Ice Bath

- Lower uncertainty zero-point (to ± 0.002 °C uniformity)
- Affordable—amazing price for this uniformity and stability
- Many probes can be checked/calibrated at once

Take a look at this easy and affordable zero-point source for calibrating temperature sensors—the Fluke Calibration 7911A2 Constant Temperature Ice Bath.

Now you can attain lower uncertainties from a simple ice bath. Most people don’t realize just how much uncertainty a stationary ice mixture in a typical ice bath can have. Pockets of non-uniform temperature will wreak havoc on your calibration uncertainties. With a stirred ice bath, the uniformity and stability can easily drop to ± 0.002 °C. Now that’s more like it!

The 7911A2 has a 5-liter tank with a depth of 12 inches. This gives you an optimal calibration zone of 2.5" diameter by 8" deep—enough space to calibrate several probes at once, including odd-shaped or short probes. Think how many thermocouple cold junctions you could put in this bath!

As with all Hart products, the model 7911A2 Constant Temperature Ice Bath is manufactured according to a proven design using the best components.

The vacuum-insulated stainless steel dewar is used to give your ice-point realization longevity (a well-prepared ice bath can be used for several hours without attention).

We use a Rosemount-designed “flow chute” stirring mechanism to saturate the bath water with air as it stirs. Having the same concentration of air in the mixture each time increases the repeatability of the ice point.

Using pure distilled or demineralized water for bath fluid and ice, you’ll consistently produce a 0 °C calibration environment with up to ± 0.002 °C accuracy.

For thermometer calibrations or for a thermocouple cold junction temperature source, if you want the best ice bath results, use the best equipment available—get the Fluke Calibration 7911A2.

Specifications: 7911A2 Constant Temperature Ice Bath

Specifications	
Uniformity	± 0.002 °C[†]
Stability	± 0.002 °C[†]
Optimal Temp. Zone	64 mm dia. x 203 mm D (2.5 x 8 in)
Size	185 mm dia. x 490 mm D (7 x 19 in)
Tank Capacity	5 Liters, 150 mm dia. x 300 mm D (6 x 12 in)
Weight	13.5 lb (6.1 kg)
Power	115 V ac (± 10 %), 60 Hz, 1 A or 230 V ac (± 10 %), 50 Hz, 0.5 A
[†]based on a properly made ice bath mixture	

Ordering information

7911A2

Constant Temperature Ice Bath

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