TECHNICAL DATA

9260 Mini Fixed-Point Cell Furnace

Key features

- Mini fixed point furnace.
- Available indium, tin, zinc, and aluminum mini cells.
- Quartz and Metal fixed point cell options.
- Half the cost of full size fixed point solution.

Product overview: 9260 Mini Fixed-Point Cell Furnace

This furnace costs less than half of a large furnace and works with indium, tin, zinc, and aluminum cells to cover all ITS-90 fixed points from 156.5985 °C to 660.323 °C. The cells themselves, using a smaller volume of 99.9999 % pure metal, also cost much less. But cost is only a part of the issue.

The 9260 makes using fixed points easy. Simply insert the cell at the end of the day and let it sit overnight. The next morning, initialize the built-in software routine for your specific cell. Come back in an hour, verify the stability of the cell, and you can take measurements for the rest of the day from a near-perfect temperature source!

The built-in software lets you choose between using melting-point curves or freezing-point curves for each metal. The ITS-90 calls for freezing points, but melting points are easier to realize, and the difference in uncertainty (less than 2 mK for most applications) is generally insignificant. In fact, the difference between using traditional cells at their freezing points and Fluke Calibration's mini cells at their melting points is not significant for most labs in most applications.

Comparison blocks are also available for the 9260 for high-precision comparison calibrations at high temperatures. Two blocks are available with a variety of pre-drilled wells in addition to blank or custom blocks. Well depth is 229 mm (9 in).

Specifications: 9260 Mini Fixed-Point Cell Furnace

General Specifications	
Temperature Range	50 °C to 680 °C
Ambient Operating Range	5 °C to 45 °C
Stability	±0.03 °C to 300 °C ±0.05 °C above 300 °C
Vertical Gradient	Top and boom zones adjustable by offset
Plateau Duration	6–10 hours typical
Resolution	0.01 °
Display Scale	°C or °F, switchable
Immersion Depth	229 mm (9 in)
Stabilization Time	15 minutes nominal
Preheat Wells	2
Fault Protection	Sensor buout and short protection, over-temperature thermal cutout
Display Accuracy	±0.2 °C to 300 °C ±0.3 °C to 450 °C ±0.5 °C to 680 °C
Comparison Block	Two multi-hole blocks, blanks, and custom blocks available
Well-to-Well Gradient (in comparison block)	±0.02 °C
Heating Time	1.25 hrs. from 25 °C to 680 °C
Cooling Time	10.5 hrs. from 680 °C to 100 °C
Comm.	RS-232 included
Power Requirements	115 VAC (±10 %), 60 Hz, 11 A, or 230 VAC (±10 %), 50 Hz, 6 A, specify, 1200 W
Exterior Dimensions (HxWxD)	489 x 222 x 260 mm (19.25 x 8.75 x 10.25 in)
Weight	20.5 kg (45 lb.) with block

Ordering information

9260
Mini Fixed-Point Furnace (for In, Sn, Zn, Al cells)

5914A
Mini Quartz Indium Cell

5915A
Mini Quartz Tin Cell

5916A
Mini Quartz Zinc Cell

5917A
Mini Quartz Aluminum Cell

5944
Mini Metal Cased Indium Cell

5945
Mini Metal Cased Tin Cell

5946

Mini Metal Cased Zinc Cell

5947
Hart 5947 Mini Metal-Cased Aluminum Cell

2940-9260
Container, Mini-Cell Support, 9260

2942-9260
Container, SST Mini-Cell Support, 9260

1904-In

Accredited Cell Intercomparison, Indium

1904-Sn

Accredited Cell Intercomparison, Tin

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