

# Zero-point dry-well



- Bath-quality stability in a portable ice-point reference
- Easy recalibration for long-term reliability
- Ready light frees user's time and attention
- Solid-state cooling technology

Have you been thinking about buying a zero-point dry-well? Forget those ugly-looking units the competition makes. You can get a great looking and great performing zero-point dry-well from Hart Scientific.

The Hart 9101 has three test wells for inserting more than one probe at a time. All three wells are stable to  $\pm 0.005\text{ }^{\circ}\text{C}$ . One well accommodates changeable inserts for varying probe diameters.

The Model 9101 takes advantage of the latest solid-state cooling technology rather than relying on older, less reliable sealed-water-cell devices. This eliminates the possibility that the sealed water cell will freeze and burst while transporting the unit to field locations. And our solid-state cooler is run by an adjustable electronic controller that can be recalibrated in your lab for convenient recertification. Simply place a certified standards thermometer in one of the wells and, if needed, tweak the 9101 controller until the standards thermometer reaches equilibrium at  $0\text{ }^{\circ}\text{C}$ .

Since the unit is completely self-contained and doesn't require any user settings, you can run it on demand for

instant access to an accurate, traceable zero point. Set it up with the reference junction of a thermocouple for high-accuracy thermocouple measurements.

Less costly than refrigerated baths, more accurate and less problematic than ice baths, and more durable and better looking than competitive units using sealed-water cells, the Hart 9101 Zero-Point Dry-Well is a great choice for any calibration lab!

## Keep it clean!

Be sure to keep those dry-well inserts and blocks clean. They'll perform better and be easier to use (not to mention they'll look better). As needed, you should:

- Clean off any oxidation that has built up in the dry-well block or on an insert. Oxidation can make inserts difficult to remove. It can also cause probes not to fit properly. This oxidation occurs more rapidly at higher temperatures and in humid environments. It will clean up nicely with a Hart 2037 Dry-Well Cleaning Kit.
- Remove any foreign substances in the wells that can make operation difficult. Never intentionally put a foreign substance into a dry-well. Not only can you make probes and inserts difficult to remove, but you may also cause damage to the unit. If you're tempted to pour a fluid into a dry-well, stop. Give us a call and we'll set you up with a proper fluid bath.
- Clean probes before inserting them into the dry-well as a preventative measure.

## Specifications

<b>Temperature Range</b>	0 °C (32 °F)
<b>Stability</b>	$\pm 0.005\text{ }^{\circ}\text{C}$
<b>Total Instrument Error</b>	$\pm 0.02\text{ }^{\circ}\text{C}$ , typical; $\pm 0.05\text{ }^{\circ}\text{C}$ max. (18–25 °C ambient)
<b>Stabilization Time</b>	Approx. 30 minutes (the ready lamp indicates stable control at 0 °C)
<b>Temperature Coefficient</b>	$\pm 0.005\text{ }^{\circ}\text{C}/\text{ }^{\circ}\text{C}$ amb.
<b>Size (HxWxD)</b>	311 x 216 x 146 mm (12.25 x 8.5 x 5.75 in)
<b>Power</b>	115 V ac ( $\pm 10\%$ ), 1 A or 230 V ac ( $\pm 10\%$ ), 0.5 A, 50/60 Hz, 125 W
<b>Well Dimensions</b>	2 wells 6.4 mm dia. x 152 mm D (0.25 x 6 in), 1 well 7 mm dia. x 152 mm D (0.28 x 6 in). Includes one set of telescoping inserts to provide various smaller diameters
<b>Weight</b>	5.4 kg (12 lb)
<b>MIST-Traceable Calibration</b>	Data at 0 °C

## Ordering Information

<b>9101</b>	Zero-Point Dry-Well (includes one set of telescoping inserts to provide various smaller diameters)
<b>2130</b>	Spare Well-Sizing Tube Set
<b>9325</b>	Rugged Carrying Case