



## Features

- Lightweight and very portable
- Accuracy to  $\pm 0.25^{\circ}\text{C}$
- RS-232 and Interface-*it* software included
- Easy to recalibrate
- Interchangeable Inserts



Specifications	9103	9140	9141
Range	$-25^{\circ}\text{C}$ to $140^{\circ}\text{C}$ ( $-13^{\circ}\text{F}$ to $284^{\circ}\text{F}$ ) at $23^{\circ}\text{C}$ ambient	$35^{\circ}\text{C}$ to $350^{\circ}\text{C}$ ( $95^{\circ}\text{F}$ to $662^{\circ}\text{F}$ )	$50^{\circ}\text{C}$ to $650^{\circ}\text{C}$ ( $122^{\circ}\text{F}$ to $1202^{\circ}\text{F}$ )
Accuracy	$\pm 0.25^{\circ}\text{C}$	$\pm 0.5^{\circ}\text{C}$ (holes greater than $1/4''$ [ $6.35\text{ mm}$ ]: $\pm 1^{\circ}\text{C}$ )	$\pm 0.5^{\circ}\text{C}$ to $400^{\circ}\text{C}$ ; $\pm 1.0^{\circ}\text{C}$ to $650^{\circ}\text{C}$ (holes greater than $1/4''$ : $\pm 2^{\circ}\text{C}$ )
Stability	$\pm 0.02^{\circ}\text{C}$ at $-25^{\circ}\text{C}$ $\pm 0.04^{\circ}\text{C}$ at $140^{\circ}\text{C}$	$\pm 0.03^{\circ}\text{C}$ at $50^{\circ}\text{C}$ $\pm 0.05^{\circ}\text{C}$ at $350^{\circ}\text{C}$	$\pm 0.05^{\circ}\text{C}$ at $100^{\circ}\text{C}$ $\pm 0.12^{\circ}\text{C}$ at $500^{\circ}\text{C}$ $\pm 0.12^{\circ}\text{C}$ at $650^{\circ}\text{C}$
Well-to-Well Uniformity	$\pm 0.1^{\circ}\text{C}$ between similarly sized wells	$\pm 0.1^{\circ}\text{C}$ with similarly sized wells	$\pm 0.1^{\circ}\text{C}$ below $400^{\circ}\text{C}$ , $\pm 0.5^{\circ}\text{C}$ above $400^{\circ}\text{C}$ with similarly sized

			wells
<b>Heating Times</b>	18 minutes from ambient to 140°C	12 minutes from ambient to 350°C	12 minutes from ambient to 650°C
<b>Cooling Times</b>	20 minutes from ambient to -25°C	15 minutes from 350°C to 100°C	25 minutes from 650°C to 100°C
<b>Stabilization Time</b>	7 minutes		
<b>Immersion Depth</b>	4.875" (124 mm)		
<b>Inserts</b>	Insert A, B, C, or D included (specify when ordering)		
<b>Outside Insert Dimensions</b>	1.25" diameter x 4.88" length (31.8 x 124 mm)		1.12" diameter x 4.88" length (28.5 x 124 mm)
<b>Computer Interface</b>	RS-232 included with free Interface- <i>it</i> software (Model 9930)		
<b>Power</b>	115 VAC (±10%), 1.3 A or 230 VAC (±10%), 0.7 A, switchable, 50/60 Hz, 150 W	115 VAC (±10%), 4.4 A or 230 VAC (±10%), 2.2 A, switchable, 50/60 Hz, 500 W	115 VAC (±10%), 8.8 A or 230 VAC (±10%), 4.4 A, switchable, 50/60 Hz, 1000 W
<b>Size</b>	5.63" W x 10.25" H x 9.63" D (143 x 261 x 245 mm)	6" W x 3.375" H x 7.75" D (152 x 86 x 197 mm)	4.3" W x 9.3" H x 7.3" D (109 x 236 x 185 mm)
<b>Weight</b>	12 lb. (5.7 kg)	6 lb. (2.7 kg)	8 lb. (3.6 kg)
<b>NIST-Traceable Certificate</b>	Data at -25°C, 0°C, 25°C, 50°C, 75°C, 100°C, and 140°	Data at 50°C, 100°C, 150°C, 200°C, 250°C, 300°C, and 350°C	Data at 100°C, 200°C, 300°C, 400°C, 500°C, and 600°C

If you've been using dry-well calibrators, you know there's a lot more to a dry-well than its temperature range and stability. Size, weight, speed, convenience, and software are also significant.

Dry-wells need to be portable, flexible, and suitable for high-volume calibrations or certifications. If they're not, you'll soon forget about the great stuff the sales rep told you and realize what you've really bought.

At Hart Scientific, we use dry-wells every day in our manufacturing and calibration work, and we know what makes a dry-well easy and productive to use—which is exactly how users describe our series of “field” dry-wells. These dry-wells work for you instead of you working for your dry-well.

These three units beat every other comparable dry-well in the industry in performance, size, weight, convenience, ease of calibration, software, and price. In addition, the heating and cooling rate of each of these dry-wells is adjustable from the front panel, thermal switches can be checked for actuation testing, and multiple-hole inserts are available for a variety of probe sizes.

Hart dry-wells are easy to calibrate. You don't even have to open the case.

This means less maintenance costs and less down time when they do need calibration.