

# PORTABLE LAB DRY-WELLS

# Models 9007 and 9023



Specifications	
Range	<b>9007:</b> -40 to 140°C at 25°C <b>9023:</b> 35 to 650°C
Accuracy	<b>9007:</b> ±0.15°C <b>9023:</b> ±0.3°C to 450°C, ±0.5°C to 650°C
Stability	<b>9007:</b> ±0.02°C <b>9023:</b> ±0.08°C
Heating Times	<b>9007:</b> 25 to 140°C: 20 min. <b>9023:</b> 25 to 650°C: 45 min.
Cooling Times	<b>9007:</b> 25 to -40°C: 25 min. <b>9023:</b> 650 to 100°C: 150 min.
Stabilization	10 minutes
Test Wells	<b>9007:</b> 3/4" dia. x 6" deep <b>9023:</b> 1" dia. x 6" deep
Communications	RS-232 and IEEE-488 incl.
Enclosure	Meets Type II, Class 3, Style D requirements of MIL-T-28800
Power	<b>9007:</b> 115 VAC (±10%), 5 A or 230 VAC (±10%), 2.4 A, switchable, 50/60 Hz, 560 W <b>9023:</b> 115 VAC (±10%), 7 A or 230 VAC (±10%), 3.4 A, specify, 50/60 Hz, 800 W
Size	13.8" H x 10.8" W x 16.9" D (35.1 x 27.4 x 42.9 cm)
Weight	36 lbs. (16.3 kg)
NIST-Traceable Calibration	<b>9007:</b> Data at -40°C, 0°C, 25°C, 75°C, 140°C; <b>9023:</b> Data at 50°C, 100°C, 200°C, 300°C, 400°C, 500°C, 650°C

Portable Lab Dry-Wells	Models 9007 and 9023
Designed for on-ship and on-the-go lab applications	
Two models covering -40°C to 650°C	
Includes three-inch and six-inch calibration zones	

These calibrators cover temperatures from -40°C to 650°C, deliver the performance you'll only find in true lab standards, and come in a totally portable case. If your work involves ocean vessels, aircraft, or service trucks, these dry-wells were designed for you. The U.S. Navy purchases the Model 9007 on contract N00244-00-D-0100.

The Model 9007 Dry-Well covers -40°C to 140°C. No external cooling is needed, so you get -40°C in normal ambient. Set-point accuracy is ±0.15°C and stability is better than ±0.02°C.

For hotter temperatures, the Model 9023 Dry-Well extends from 35°C to 650°C. Heating time is only 45 minutes to 650°C. Set-point accuracy is ±0.3°C to 450°C and ±0.5°C to 650°C. Stability is better than ±0.08°C even at 600°C.

These dry-wells come with a unique NIST-traceable calibration at the full, six-inch depth of the well and at a three-inch depth for short probes. Coefficients for each calibration are stored in the dry-well and can be easily selected from the front-panel control buttons to match the length of the probe being tested.

Both models are encased in all-aluminum enclosures that are durable, waterproof, and meet the standards of MIL-T-28800. Each unit comes with both RS-232 and IEEE-488 interface connections. A wide variety of inserts are available covering probe widths from 1/16" (1.6 mm) to 7/8" (22 mm).

## Ordering Information

9007	Portable Lab Dry-Well, -40 to 140°C, 1/4" insert	9023	Portable Lab Dry-Well, 35 to 650°C, 1/4" insert
9007-2000	Blank insert	9023-2131	Blank insert
9007-2063	1/16" Insert (1.6 mm)	9023-2125	1/8" Insert (3.2 mm)
9007-2125	1/8" Insert (3.2 mm)	9023-2156	5/32" Insert (4 mm)
9007-2156	5/32" Insert (4 mm)	9023-2188	3/16" Insert (4.8 mm)
9007-2188	3/16" Insert (4.8 mm)	9023-2250	1/4" Insert (6.35 mm)
9007-2250	1/4" Insert (6.35 mm)	9023-2313	5/16" Insert (7.9 mm)
9007-2313	5/16" Insert (7.9 mm)	9023-2375	3/8" Insert (9.5 mm)
9007-2375	3/8" Insert (9.5 mm)	9023-2500	1/2" Insert (12.7 mm)
9007-2500	1/2" Insert (12.7 mm)	9023-2625	5/8" Insert (15.9 mm)
9007-2625	5/8" Insert (15.9 mm)	9023-2750	3/4" Insert (19 mm)
9007-2901	1 User-Specified Hole	9023-2875	7/8" Insert (22 mm)
9007-2902	2 User-Specified Holes	9023-2901	1 User-Specified Hole
		9023-2902	2 User-Specified Holes