

# Термометры, термометры с термистором, регуляторы температуры, термометры сопротивления, стеклянные термометры, цифровые термометры, биметаллические термометры

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# Liquid-In-Glass Thermometer Separation – What You Need To Know

All Liquid-In-Glass Thermometers may be subject to separation; a disruption of the liquid column such that small amounts of liquid are not united with the rest of the liquid in the thermometer. Separation can occur for many reasons including improper handling and storage. To help prevent separation when not in use, thermometers should be stored at an angle of at least 15 degrees, preferably in a vertical position.

Even when stored and used properly, a Liquid-in-Glass Thermometer may separate. This does not mean that the thermometer is defective. Instead, there are a few methods that can be used to reunite the liquid in the column.



## Cooling Method A:

- Place a mixture of dry ice and alcohol in a beaker
- Place the bulb of the thermometer only into the beaker
- Hold until all liquid retreats into the bulb

Cooling Method A



## Heating Method B:

- Place water in a beaker
- Heat to a gentle boil
- Place the bulb of the thermometer only into the beaker
- Hold until all liquid collects at the top of the thermometer

## Heating Method C:

- Use extreme caution
  - Light Bunsen burner to create a soft yellow flame. If you see a blue flame lower the gas input
  - Carefully move bulb of the thermometer into and out of the flame. Do not hold in the flame for any period of time
  - The liquid will expand into the expansion chamber.
- Be sure not to fill the expansion chamber more than ¾ full

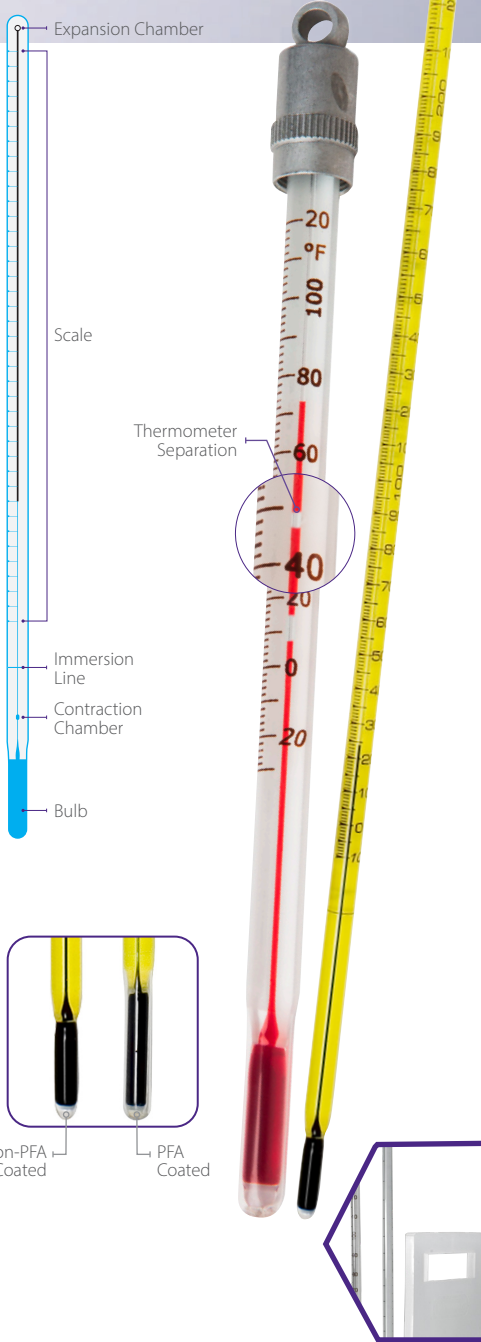
Heating Method B



The key to successful reunification is to determine which method is best for the thermometer you own. Below is a useful reference guide:

Reunification Matrix						
Temperature Range	If Thermometer Has/Is				Reuniting Method Recommended	
	Expansion Chamber	Contraction Chamber	PFA Coating*	Longer than 14"	Cooling	Heating
Above -10°C (14°F) and below 110°C (230°F)	X	X	X		A	C
	X		X			C
	X	X			A	C
	X					C
Above -10°C (14°F) and below 150°C (302°F)	X	X	X		A	C
	X		X			C
	X	X			A	C
	X					C
Above -10°C (14°F) and below 260°C (500°F)	X	X	X		A	C
	X		X			C
	X	X			A	C
	X			X		C
Below -10°C (15°F)	X	X	X		A	B
	X		X			B
	X	X			A	B
	X					B

\*PFA Coated thermometers have a thin layer around the thermometer with a softer feel than non-PFA coated thermometers



# Cole-Parmer® Advanced Precalibrated Thermocouple Thermometers



Perfect for the lab to production floor

- Reliable measurements, guaranteed!
- Choose from meter or meter system—both include calibration
- Heavy duty construction to protect against knocks and jars.
- Super large LCD for easy viewing of data
- Min, Max, and Avg readings, for quick analysis of the object
- Electronic Offset function allows compensation of probe errors

The Cole-Parmer® Professional Thermocouple Thermometers offer fast response and laboratory accuracy. Features include automatic backlight, Max/Min readings, and automatic power-off. These thermometers provide precise measurements when accuracy is a must, delivering dependable results every time! Each model is packed with distinctive features for use in a wide array of applications. Robust and reliable constructed to protects against knocks and jars. These thermometers produce a high degree of accuracy, with a rapid response time, and exceptional battery life of up to 3000 hours.

Digi-Sense instrument are fully tested and calibrated to NIST-traceable standards, saving you hundreds of dollars and extra waiting time to calibrate separately.

item	Data Logging	Number Of Probe Channels	Description
 EW-20250-91	No	1	Single-Input Thermocouple Thermometer with NIST-Traceable Calibration

item	Data Logging	Number Of Probe Channels	Description
<div> EW-20250-92</div>	Yes	2	Dual-Input Data Logging Thermocouple Thermometer with NIST-Traceable Calibration
<div> EW-20250-98</div>	No	1	Single-Input Thermocouple Thermometer System with NIST-Traceable Calibration

# Cole-Parmer Thermistor Thermometer, NIST-Traceable Calibration



Cole-Parmer – Item # EW-20250-93

Perfect for the lab to production floor

- Reliable measurements, guaranteed!
- NIST-traceable certificate included
- Heavy duty construction to protect against knocks and jars.
- Super lager LCD for easy viewing of data
- Accepts a wide variety of probes
- Min, Max, and Avg readings, for quick analysis of the object

## Specifications & Description

• Meter Measurement Type	Thermistor
• Number Of Probe Channels	1
• Types Of Probes Accepted	400 Series
• Min Temperature (° F)	-40
• Max Temperature (° F)	257
• Min Temperature (° C)	-40
• Max Temperature (° C)	125
• Accuracy	±0.9°F (±0.5°C) from 32 to 158°F, (0 to 70°C); ±2°F (1°C) outside range
• Resolution	0.1°F (0.1°C)
• Data Logging	No
• Low Battery Indicator	Yes
• Display Type	Large, dual, backlit LCD
• Battery Life	3000 hours
• Battery	1 9V (included)
• Description	Thermistor Thermometer, NIST Traceable Calibration
• Warranty	2 year



## KEY FEATURES

- Reliable measurements, guaranteed!
- NIST-traceable certificate included
- Heavy duty construction to protect against knocks and jars.
- Super lager LCD for easy viewing of data
- Accepts a wide variety of probes
- Min, Max, and Avg readings, for quick analysis of the object
- Electronic Offset function allows compensation of probe errors
- 2 year warranty

## MORE ABOUT THIS ITEM

The Cole-Parmer® Professional Single-Input Thermometers offer fast response and laboratory accuracy. Features include automatic backlight, Max/Min readings, and automatic power-off. These thermometers provide precise measurements when accuracy is a must, delivering dependable results every time! Each model is packed with distinctive features for use in a wide array of applications. Robust and reliable constructed to protects against knocks and jars. These thermometers produce a high degree of accuracy, with a rapid response time, and exceptional battery life of up to 3000 hours.

Probe not included.


# Cole-Parmer® Advanced Precalibrated RTD Thermometers




Perfect for the lab to production floor

- Reliable measurements, guaranteed!
- NIST-traceable certificate included
- Heavy duty construction to protect against knocks and jars.
- Super large LCD for easy viewing of data
- Accepts a wide variety of probes
- Min, Max, and Avg readings, for quick analysis of the object
- Electronic Offset function allows compensation of probe errors

The Cole-Parmer® Professional Single-Input Thermometers offer fast response and laboratory accuracy. Features include automatic backlight, Max/Min readings, and automatic power-off. These thermometers provide precise measurements when accuracy is a must, delivering dependable results every time! Each model is packed with distinctive features for use in a wide array of applications. Robust and reliable constructed to protects against knocks and jars. These thermometers produce a high degree of accuracy, with a rapid response time, and exceptional battery life of up to 3000 hours.

item	Data Logging	Meter Measurement Type	Number Of Probe Channels
<div>  EW-20250-95</div>	No	RTD	1

item	Data Logging	Meter Measurement Type	Number Of Probe Channels
  EW-20250-96	Yes	RTD	2

Item # EW-20250-96

## Specifications & Description

- Meter Measurement TypeRTD
- Number Of Probe Channels2
- Types Of Probes AcceptedRTD
- Min Temperature (° F)-320
- Max Temperature (° F)1562
- Min Temperature (° C)-200
- Max Temperature (° C)850
- Accuracy±1.5°F (0.8°C) from -148 to 392°F (-99.9 to 199.9°C); ±2°F (1°C) ±0.5% of reading outside range
- Resolution0.1°F (0.1°C) from 148 to 1562°F (-99.9 to 850°C); 1°F (1°C) outside range
- Data LoggingYes
- Memory Capacity16000 data points
- AlarmYes
- Low Battery IndicatorYes
- Display TypeLarge, dual, backlit LCD
- Battery Life300 hours
- Battery1 9V (included)
- DescriptionRTD Thermometer, 2-Input Data Logging, NIST Traceable Cal



### KEY FEATURES

- Reliable measurements, guaranteed!
- NIST-traceable certificate included
- Heavy duty construction to protect against knocks and jars.
- Super large LCD for easy viewing of data
- Accepts a wide variety of probes
- Min, Max, and Avg readings, for quick analysis of the object
- Electronic Offset function allows compensation of probe errors
- Data logging models record up to 16,000 measurements for expanded data analysis capability
- Data logging models feature software that provides quick and easy data interpretation
- Temperature differential plus Min, Max, and Avg readings, for quick analysis of the object
- Relative time clock on Min, Max, and Avg provides a time reference for major events
- USB Interface
- 2 year warranty



MORE ABOUT THIS ITEM

The Cole-Parmer® Professional Single-Input Thermometers offer fast response and laboratory accuracy. Features include automatic backlight, Max/Min readings, and automatic power-off. These thermometers provide precise measurements when accuracy is a must, delivering dependable results every time! Each model is packed with distinctive features for use in a wide array of applications. Robust and reliable constructed to protects against knocks and jars. These thermometers produce a high degree of accuracy, with a rapid response time, and exceptional battery life of up to 3000 hours. Advanced features include data logging, USB interface, relative time clock, offset compensation, temperature differential.

EW-20250-95

Specifications & Description

• Meter Measurement Type	RTD
• Number Of Probe Channels	1
• Types Of Probes Accepted	RTD
• Min Temperature (° F)	-320
• Max Temperature (° F)	1562
• Min Temperature (° C)	-200
• Max Temperature (° C)	850
• Accuracy	±1.5°F (0.8°C) from -148 to 392°F (-99.9 to 199.9°C); ±2°F (1°C) ±0.5% of reading outside range
• Resolution	0.1°F (0.1°C) from 148 to 1562°F (-99.9 to 850°C); 1°F (1°C) outside range
• Data Logging	No
• Low Battery Indicator	Yes
• Display Type	Large, dual, backlit LCD
• Battery Life	300 hours
• Battery	1 9V (included)
• Description	RTD Thermometer, NIST Traceable Calibration
• Warranty	2 year



KEY FEATURES

- Reliable measurements, guaranteed!
- NIST-traceable certificate included
- Heavy duty construction to protect against knocks and jars.
- Super large LCD for easy viewing of data
- Accepts a wide variety of probes
- Min, Max, and Avg readings, for quick analysis of the object
- Electronic Offset function allows compensation of probe errors
- 2 year warranty

MORE ABOUT THIS ITEM

The Cole-Parmer® Professional Single-Input Thermometers offer fast response and laboratory accuracy. Features include automatic backlight, Max/Min readings, and automatic power-off. These thermometers provide precise measurements when accuracy is a must, delivering dependable results every time! Each model is packed with distinctive features for use in a wide array of applications. Robust and reliable constructed to protects against knocks and jars. These thermometers produce a high degree of accuracy, with a rapid response time, and exceptional battery life of up to 3000 hours.


# Cole-Parmer® Essentials Red Spirit Dry Block Glass Thermometers - Celsius Scale






Replace mercury thermometers for a specific application with the same accuracy without any of the hazards

- Non-mercury liquid  
These thermometers are designed for use in specific applications. These Durac thermometers feature markings that are permanently printed on the glass, individually serialized, and red spirit liquid that has a dark scale contrasts against a white background. Some thermometers are PFA coated for added safety which may cause a slight change in accuracy up to 1 division.

Dry block thermometers - designed for use in all standard heating blocks and water baths with most having arrows indicating critical temperatures.

item	Max Temperature (°C)	Min Temperature (°C)	Overall Length (mm)
 EW-08006-14	105	-15	150


item	Max Temperature (°C)	Min Temperature (°C)	Overall Length (mm)
<div data-bbox="126 253 256 376"></div> <div data-bbox="132 443 298 477">EW-08006-16</div>	100	0	225
<div data-bbox="126 694 256 817"></div> <div data-bbox="264 692 429 725">EW-08006-18</div>	80	0	225
<div data-bbox="126 1135 256 1258"></div> <div data-bbox="264 1133 429 1167">EW-08006-21</div>	100	20	300


# Cole-Parmer® Panel-Mount Solar Powered LED Thermometers



Perfect for use in freezers and walk-in coolers!

- Replace existing 2" mechanical thermometers!
  - NSF (National Sanitation Foundation) certified for food storage areas
- These maintenance-free thermometers operate on solar power in light levels above 100 LUX, and use a battery back-up below 100 LUX. The calibration adjustment is on back of unit. The 48"L cable has no lead-containing pigments.
- Use panel-mount thermometers for front flange attachment.  
Use wall-mount thermometers for rear flange attachment.  
U-clamp thermometers are for mounting without flange attachment.

item	Display Type	Max Temperature (° F)	Min Temperature (° F)
 EW-90150-04		158	-40

item	Display Type	Max Temperature (° F)	Min Temperature (° F)
<div data-bbox="127 253 255 376"></div> <div data-bbox="263 253 430 286">EW-90150-42</div>	3.5-digit LCD	158	-40

# Cole-Parmer Heavy-Duty Pen Style Digital Pocket Thermometer, With Potentiometer For Calibration



Cole-Parmer – Item # EW-90090-07

Heavy-duty .20" dia., 304 stainless steel penetration stem

- Typical response time is 30 seconds for 99% of new reading
- All include a protective case with pocket clip and a battery
- 1 year warranty

## Specifications & Description

- |                            |                   |
|----------------------------|-------------------|
| • Meter Measurement Type   | Digital Indicator |
| • Number Of Probe Channels | 1                 |
| • Min Temperature (° F)    | -58               |
| • Max Temperature (° F)    | 302               |

- |                            |   |
|----------------------------|---|
| • Min Temperature (° C)    | -50   |
| • Max Temperature (° C)    | 150   |
| • Accuracy                 | ±2.0°F (±1.0°C)   |
| • Resolution               | 0.1°  |
| • Display Type             | 0.3" Display, 3.5-digit LCD   |
| • No. of Probe(s) Included | 1   |
| • Probe Diameter (in)      | 0.2   |
| • Probe Length (in)        | 4 1/2   |
| • Battery                  | 1 1.5V LR44 (included)  |
| • Description              | Heavy-Duty Pen Style Digital Pocket Thermometer, With Potentiometer For Calibration |
| • Warranty                 | 1 year  |



### INCLUDES

one 1.5V LR44 battery.

### MORE ABOUT THIS ITEM

T-Handle Waterproof Pocket Thermometer has F/C switchable ranges and a 1-second display update. Features a large 15/16" LED display, potentiometer for calibration and heavy-duty stem. Use ON/OFF button to conserve battery life, or unit automatically shuts off after five minutes of nonuse. Ideal for firm and semi-firm product.

# Cole-Parmer® Compost Bimetal Thermometers







Long stem designed for soil measurements

- Hermetically sealed case to prevent entry of moisture, interior corrosion and coil freeze up
  - Anti-parallax dial for precise readings of both scales
  - Silicone dampened coil for reduction of pointer flutter on high-vibration application and provides improved response times
  - External adjustment
  - 304 stainless steel case and stem
- From a 12" to a 48" long stem, these thermometers make compost and soil measurements easy.

Long stem designed for soil measurements

- Hermetically sealed case to prevent entry of moisture, interior corrosion and coil freeze up
- Anti-parallax dial for precise readings of both scales
- Silicone dampened coil for reduction of pointer flutter on high-vibration application and provides improved response times
- External adjustment
- 304 stainless steel case and stem
- 5 year warrant

item	Max Temperature (° C)	Min Temperature (° C)	Stem Length (in)
 EW-90577-30	93	-20	12

item	Max Temperature (°C)	Min Temperature (°C)	Stem Length (in)
 EW-90585-30	93	-20	24
 EW-90586-30	93	-20	36
 EW-90587-30	93	-20	48







# Cole-Parmer® Adjustable-Angle Industrial Silicone-Filled Bimetal Thermometers






Silicone filled to provide superior response times and greatly reduce pointer flutter


- Hermetically sealed case prevents entry of moisture, interior corrosion and coil freeze up
  - Anti-parallax dial for precise readings of both scales
  - External adjustment reduces maintenance
  - NEMA 4X/IP66 protection
  - Able to perform quick and limited span adjustments
  - All-welded stainless steel construction
- Silicone-filled bimetal thermometers are best suited to high-vibration applications. Available in multiple temperature ranges and dial sizes for a variety of needs.

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
<div>EW-90590-41</div>	3	120	-20

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-42	3	120	-20
 EW-90590-43	3	120	-20
 EW-90590-44	3	120	-20

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-47	3	290	10
 EW-90590-48	3	290	10
 EW-90590-90	5	120	-20

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-91	5	120	-20
 EW-90590-92	5	120	-20
 EW-90590-94	5	120	-20

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-98	5	290	10

## Cole-Parmer® Industrial Bimetal Thermometers







Read two scales simultaneously

- Easy-to-read dual °F/°C scales provide enhanced flexibility
- Anti-parallax dished dial for superior readability
- Durable all-welded stainless steel construction for tough environments
- Prevent dial fog, entry of moisture, interior corrosion, and coil freeze up with hermetically sealed case
- Rugged NEMA 4X/IP66 protection
- Recalibrate using the external reset screw

- ±1% full-scale accuracy according to ASME B40.200 (B40.3 Grade A)  
 The Cole-Parmer® industrial bimetal thermometers feature NEMA 4X/IP66 protection for tough applications. Accuracy is ±1% full-scale when stem is immersed 2" in liquids or 4" in gases (immerse models with a 2.5" stem length 2" in gases). Stem length is measured from the top of the threads to the bottom of the stem tip. Stem diameter is 0.25" with a ½" NPT(M) back connection. Maximum overtemperature for thermometers with a max temperature of 250°F is 100% of span, and thermometers with a max temperature of 550°F is 50% of span. The ambient temperature range limits are -40 to 200°F (-40 to 93°C).

•




item	Dial Size (in)	Max Temperature (° F)	Stem Length (in)
 EW-90590-00	3	250	2.5
 EW-90590-01	3	250	4
 EW-90590-02	3	250	6
 EW-90590-03	3	250	9



item	Dial Size (in)	Max Temperature (° F)	Stem Length (in)
 EW-90590-04	3	250	12
 EW-90590-06	3	120	4
 EW-90590-07	3	120	6
 EW-90590-08	3	120	9

item	Dial Size (in)	Max Temperature (° F)	Stem Length (in)
 EW-90590-09	3	120	12
 EW-90590-10	3	550	2.5
 EW-90590-11	3	550	4
 EW-90590-12	3	550	6



item	Dial Size (in)	Max Temperature (° F)	Stem Length (in)
 EW-90590-13	3	550	9
 EW-90590-14	3	550	12
 EW-90590-51	5	250	4

item	Dial Size (in)	Max Temperature (° F)	Stem Length (in)
 EW-90590-52	5	250	6
 EW-90590-53	5	250	9
 EW-90590-54	5	250	12

item	Dial Size (in)	Max Temperature (° F)	Stem Length (in)
 EW-90590-55	5	120	2.5
 EW-90590-56	5	120	4

# Cole-Parmer® Industrial Silicone-Filled Bimetal Thermometers



Zoom Image






## • COLE-PARMER




Improve readings and response times with silicone-filled dial




- Silicone-filled for reduction of pointer flutter on high vibration applications
- Easy-to-read dual °F/°C scales provide enhanced flexibility
- Anti-parallax dished dial for superior readability
- Durable all-welded stainless steel construction for tough environments
- Prevent dial fog, entry of moisture, interior corrosion, and coil freeze up with hermetically sealed case
- Rugged NEMA 4X/IP66 protection
- Recalibrate using the external reset screw
- $\pm 1\%$  full-scale accuracy according to ASME B40.200 (B40.3 Grade A)

The Cole-Parmer® silicone-filled industrial bimetal thermometers feature NEMA 4X/IP66 protection for tough applications. Designed for the most severe vibration conditions, the silicone is used to dampen and lubricate internal parts, enhancing readability and lifespan. Silicone-filled thermometers offer superior performance that will hold up to the toughest vibration applications. The lens material is constructed of polycarbonate due to the expansion properties of silicone.

Accuracy is  $\pm 1\%$  full-scale when stem is immersed 2" in liquids or 4" in gases (immerse models with a 2.5" stem length 2" in gases). Stem length is measured from the top of the threads to the bottom of the stem tip. Stem diameter is 0.25" with a  $\frac{1}{2}$ " NPT(M) back connection. Maximum over temperature for thermometers with a max temperature of 250°F is 100% of span, and thermometers with a max temperature of 550°F is 50% of span. The ambient temperature range limits are -40°F to 150°F (-40°C to 65°C).

item	Dial Size (in)	Max Temperature (° F)	Stem Length (in)
 EW-90590-15	3	250	2.5
 EW-90590-16	3	250	4
 EW-90590-17	3	250	6

item	Dial Size (in)	Max Temperature (° F)	Stem Length (in)
 EW-90590-18	3	250	9
 EW-90590-19	3	250	12
 EW-90590-21	3	550	4

item	Dial Size (in)	Max Temperature (° F)	Stem Length (in)
 EW-90590-22	3	550	6
 EW-90590-65	5	250	2.5
 EW-90590-67	5	250	6


# Cole-Parmer® Adjustable-Angle Industrial Bimetal Thermometers






NEMA 4X/IP66 protection with all-welded stainless steel construction for the toughest of jobs




- Hermetically sealed case prevents entry of moisture, interior corrosion and coil freeze up
- Anti-parallax dial for precise readings of both scales
- Silicone-dampened coil reduces pointer flutter and improves response time during high vibration applications
- Adjustable-angle connection can be rotated 360 degrees
- External adjustment reduces maintenance
- NEMA 4X/IP66 protection

Use these industrial dual-scale thermometers for a wide variety of applications from petroleum plants to food and beverage. Various temperature ranges and dial sizes can accommodate anyone. Each thermometer can perform quick and limited span adjustments. Dry; no liquid fill.


item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
<div>EW-90590-25</div>	3	120	-20










item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-26	3	120	-20
 EW-90590-27	3	120	-20
 EW-90590-28	3	120	-20

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-30	3	50	-40
 EW-90590-36	3	290	10
 EW-90590-37	3	290	10

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-38	3	290	10
 EW-90590-39	3	290	10
 EW-90590-75	5	120	-20

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-76	5	120	-20
 EW-90590-77	5	120	-20
 EW-90590-78	5	120	-20

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-79	5	120	-20
 EW-90590-83	5	50	-40
 EW-90590-84	5	50	-40

item	Dial Size (in)	Max Temperature (°C)	Min Temperature (°C)
 EW-90590-85	5	290	10
 EW-90590-86	5	290	10
 EW-90590-88	5	290	10
 EW-90590-89	5	290	10



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