

Product Specifications

Thermal Shield

Operating Environment (Time Limited)	-328°F to 482°F (-200°C to 250°C) 0% RH to 100% RH
Dimension	2.75" H x 2.0" dia (69.85mm H x 51mm dia.)
Weight	6.7oz (190g)
Material	Enclosure: PTFE

Ambient Temperature	Time In Air To Max Internal Temp (302°F/ 150°C)	Time In Liquied To Max Internal Temp (302°F/ 150°C)
-328°F (-200°C)	12 minutes	N/A
-292°F (-180°C)	13 minutes	N/A
-256°F (-160°C)	15 minutes	N/A
-220°F (-140°C)	17 minutes	N/A
-184°F (-120°C)	19 minutes	N/A
-148°F (-100°C)	22 minutes	N/A
-112°F (-80°C)	27 minutes	N/A
-76°F (-60°C)	37 minutes	22 minutes
-40°F to +284°F (-40°C to +140°C)	Indefinitely	Indefinitely
302°F (150°C)	59 minutes	34 minutes
320°F (160°C)	51 minutes	29 minutes
338°F (170°C)	43 minutes	25 minutes
356°F (180°C)	37 minutes	23 minutes
374°F (190°C)	34 minutes	20 minutes
392°F (200°C)	31 minutes	18 minutes
410°F (210°C)	29 minutes	17 minutes
428°F (220°C)	27 minutes	16 minutes
446°F (230°C)	25 minutes	15 minutes
464°F (240°C)	23 minutes	14 minutes
482°F (250°C)	22 minutes	13 minutes



Data Logger Not Included

Model 20632

- For use with High Temp Stainless Steel Data Logger Models 20629 & 20630
- Protects body of the logger when used outside of its operating range
- Probe is exposed through hole on top, for uses requiring internal temperature monitoring
- Ideal for extreme temperature applications:
 - ▶ Peanut roasting
 - ▶ Conveyer ovens
 - ▶ Autoclave validation
 - ▶ Dishwasher testing
 - ▶ Food processing

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Listed specifications can be used to determine maximum allowable exposure times for the Thermal Shield at different temperatures beyond normal operating range of the logger. **Both the data logger and Thermal Shield must be at ambient temperature (approximately 25 °C) before being placed in the extreme temperature environment.** Immediately following exposure to high temperature, the logger should be removed from the thermal shield (using appropriate precautions, as it could be VERY hot) OR the logger and shield should be placed in a water bath (approximately 25 °C) for at least 15 minutes to allow it to cool. **Failing to do this may allow heat trapped in the Thermal Shield to continue to heat the data logger to potentially unsafe levels.**

If your application involves a ramp up to a temperature above 140 °C and/or any complex temperature profile that isn't simply a constant temperature, please contact Tech Support to determine whether the High Temp Stainless Steel Logger with Thermal Shield is suitable.

Please provide DeltaTrak with a detailed description of your temperature profile, including temperatures, durations, ramp times, and process media (air, steam, oil, water, etc.). If DeltaTrak is unable to definitively calculate the suitability of these products for your application, we can provide a test unit outfitted with a high temperature indicator sticker. This sticker has an indicator dot which will turn black if exposed to temperatures above 143 °C. Apply the sticker to the bottom of the data logger itself (not the thermal shield), remove the battery for safety, place the data logger into the thermal shield and run the assembly through the proposed temperature program. The first indicator dot on the sticker will turn black at 143 °C. If that happens, the Stainless Steel Data Logger with Thermal Shield is not appropriate for the application.

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