

## Protect your DataTrace Data Loggers from Thermal Damage

If the process you want to monitor reaches temperatures above 140°C, the upper operating limit of DataTrace Micropack III data loggers, you need to thermally protect the electronics and battery from damage. For these applications you can choose from 6 different DataTrace Thermal Packs, depending on your particular application. These thermal barriers are designed to insulate the logger body from the high temperatures, while allowing the temperature probe to extend out into the environment. All of the barriers work well in a dry environment and, all except the Model 3080 will work in liquid environments, such as hot oil baths.

In addition to high temperature applications, the thermal barriers will protect the data logger battery in ultra-low temperature environments.

Several DataTrace Thermal Packs are available, depending on your particular needs.

### Model 3000 - Moderate Temperature

Designed for either dry or liquid environments, the Model 3000 is an economical choice to protect a single logger in moderate temperature environments.

### Model 3080 – Multi-Logger

With the lowest cost per measurement channel, the Model 3080 is designed to protect 3 Micropack III data loggers in moderate temperature environments.

### Models 3140, 3200, 3400 – High Temperature

For the ultimate in protection, choose from 3 different 2 inch diameter vacuum Dewar thermal barriers. The largest, Model 3400 will protect your loggers for several hours at above 350°C.

### Model 3175 – Slim Line

If space is at a premium, such as in depyrogenation ovens, the 1.2 inch diameter Model 3175 vacuum Dewar is an excellent choice for the ultimate protection of your Micropack III data loggers.

### Business benefits

- Extend the use of your DataTrace data loggers to high temperature processes, getting more from your capital investment.
- Eliminate the need for unstable and cumbersome thermocouple-based measurement systems, saving you time and money.
- Monitor additional manufacturing processes, optimizing your productivity.

### Food Applications

- Baking Oven Monitoring
- Frying Oil Temperature

### Pharmaceutical Applications

- Depyrogenation Ovens
- Ultra-low temperature Freezers

### Industrial Applications

- Textile and Carpet Processing
- Powder Painting Monitoring



## Specifications

### Model 3000

Size: Cylinder, 75 mm D by 120 mm L  
 Loggers: (1) MP111, FRB, or MP11  
 Insulation: High Temperature Teflon  
 Use: Dry or Liquid  
 Typical Dry Performance\*:

Temperature	Maximum Time
250°C/482°F	59 min.
350°C/662°F	42 min.
400°C/752°F	38 min.

### Model 3080

Size: Rectangular Box, 95mm X 82mm X 46mm  
 Loggers: (3) MP111 Only  
 Insulation: High Temp Teflon, Carbon  
 Use: Dry Only  
 Typical Dry Performance\*:

Temperature	Maximum Time
250°C/482°F	36 min.
350°C/662°F	27 min.
400°C/752°F	24 min.

### Model 3140

Size: Cylinder, 50 mm D by 140 mm L  
 Loggers: (1) MP111, FRB, or MP11  
 Insulation: Vacuum Dewar, Teflon  
 Use: Dry or Liquid  
 Typical Dry Performance\*:

Temperature	Maximum Time
250°C/482°F	109 min.
350°C/662°F	77 min.
400°C/752°F	68 min.

## Thermal Packs

### Model 3175

Size: Cylinder, 30 mm D by 175 mm L  
 Loggers: (1) MP111 Only  
 Insulation: Vacuum Dewar, Teflon  
 Use: Dry or Liquid  
 Typical Dry Performance\*:

Temperature	Maximum Time
250°C/482°F	93 min.
350°C/662°F	61 min.
400°C/752°F	53 min.

### Model 3200

Size: Cylinder, 50 mm D by 200 mm L  
 Loggers: (1) MP111, FRB, or MP11  
 Insulation: Vacuum Dewar, Teflon  
 Use: Dry or Liquid  
 Typical Dry Performance\*:

Temperature	Maximum Time
250°C/482°F	195 min.
350°C/662°F	135 min.
400°C/752°F	120 min.

### Model 3400

Size: Cylinder, 50 mm D by 400 mm L  
 Loggers: (1) MP111, FRB, or MP11  
 Insulation: Vacuum Dewar, Teflon  
 Use: Dry or Liquid  
 Typical Dry Performance\*:

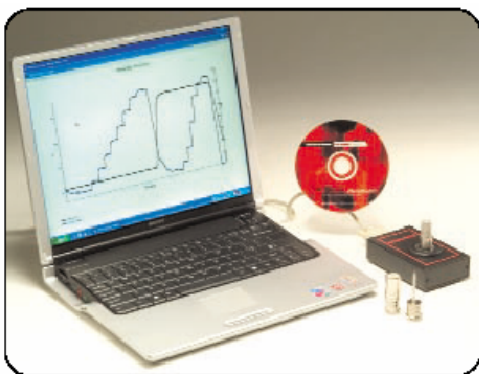
Temperature	Maximum Time
250°C/482°F	380 min.
350°C/662°F	240 min.
400°C/752°F	205 min.

**NOTE: The upper temperature limit of all Thermal Packs is 400°C**

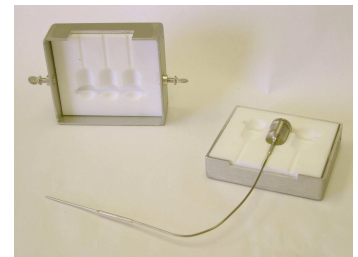
\*MP111 Logger(s) installed. Program: Initial 25°C for 1 minute, ramp to temp in 1 min., dwell at set point, ramp back to 25°C in 1 min. and dwell at 25°C for 1 min. Typical times, your results may vary.

### You can't beat the system

All DataTrace Tracers require a **PC Interface System**, which includes robust DataTrace for Windows software, an interface module and a serial cable. The DTW software operates with any combination and number of DataTrace Temperature, HiTemp, HiTemp EXT, Humidity, Pressure and 4-20mA Tracers. So instead of dealing with the expense and confusion of disparate monitoring systems, users can **monitor, log and analyze data for multiple parameters using a single integrated, powerful and complete solution.** *This makes DataTrace unique in the industry.*



Model 3000



Model 3080



Model 3175

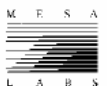


Models 3140,  
3200 & 3400

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21 CFR Part 11  
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