The standard XL2 barrier, designed specifically for use on automotive paint lines, has a patented Silicone-free construction, eliminating concerns for contamination and possible damage to paint finishes caused by silicone products, and helps you provide the high quality needed in your process. Weighing less than 4 kg (9 lbs) ensures easy, safe handling and transportation.

Datapaq® also provides a range of thermal barriers to suit special process needs:

- **High temperature protection** – PTFE/Dacromet cure
- **Long duration protection** – aluminum aging; multiple ovens in single run (Ecoat, surfacer base etc.)
- **Waterproofing** dry-off ovens
- **Low height clearance** – 2 and 3-piece can manufacture
- **16 channel operation in single unit** – automotive optimization studies

**No paint contamination or defect risk**
The patented Silicone-free barrier construction eliminates concerns for contamination and possible damage to paint finishes caused by silicone products.

**Thermal protection you can trust**
Ceramic insulation and phase-change heatsink technology provides dual heat protection and enables safe logger operation for 3 hrs at 200ºC (392ºF). This allows multiple runs and eliminates the chance of damage to the data logger during unplanned process delays.

**Easy access to data logger**
With the redesigned barrier lid, even a bulky gloved hand can easily access the logger. You can even check the data logger status without removing it from the barrier.

**Secure lid guaranteed**
Strong, secure catches with locking pins guarantee the lid remains securely in place.

**Safe handling**
Aluminum construction ensures the barrier is lightweight, compact and easy to handle. Carry in one hand with magnetic thermocouples attached to the ferrous lid plate for easy transportation.

**Damage protection**
Heatsink allows easy cable routing from the data logger out of the barrier.

### TB0090 Standard XL2 Thermal Barrier

**Weight**
- Thermal Barrier: 2.65 kg (5.85 lbs)
- Heatsink (1 x TB9930): 1.0 kg (2.2 lbs)

**Dimensions (H x W x L)**
- 134 mm x 187 mm x 296 mm (5.3 in x 7.4 in x 11.7 in)

**Heatsink**
- Phase change temperature: 58ºC (136ºF)

**Temperature**
- 100ºC (212ºF)
- 150ºC (302ºF)
- 200ºC (392ºF)
- 250ºC (482ºF)
- 300ºC (572ºF)

**Duration (hours)**
- 11
- 5.0
- 3.0
- 1.8
- 1.0

**Processes:** automotive assembly; automotive component supply; general paint/powder/E-coat OEM applications; large custom coaters.

*Thermal barrier weights specified on this datasheet do NOT include the data logger.*
### TB0091 Low Height XL2 Thermal Barrier

**Construction:**
- Aluminum/Silicone free

**Weight**
- Thermal barrier 2.1 kg (4.6 lbs)
- Heatsink (1 x TB9115B) 1.1 kg (2.4 lbs)
- Insert tray (1 x TB9121) 0.2 kg (0.45 lbs)

**Dimensions (H x W x L):** 104 mm x 187 mm x 296 mm (4.1 in x 7.4 in x 11.65 in)

**Heat Sink:**
- Stainless Steel, phase change temperature 58°C (136°F)

**Temperature (°C):**
- 100°C (212°F)
- 150°C (302°F)
- 200°C (392°F)
- 250°C (482°F)
- 300°C (572°F)

**Duration (minutes):**
- With heat sink (TB0091-WH): 270 150 105 75 48
- With heat sink (TB0091-IT): 106 66 49 42 35

**Processes:**
- 2-piece can manufacture (IBO); general low height, mesh belt ovens; portable system for traveling paint representatives.

### TB0080 High Temperature Thermal Barrier

**Construction:**
- Stainless Steel (304 grade)

**Catches:**
- Over center catches

**Weight**
- Thermal barrier 6.7 kg (14.8 lbs)
- Heatsink (1 x TB1001) 1.0 kg (2.2 lbs); (1 x TB9115B) 1.1 kg (2.3 lbs)

**Dimensions (H x W x L):** 150 mm x 215 mm x 335 mm (5.9 in x 8.5 in x 13.2 in)

**Heat Sink:**
- Stainless Steel, phase change temperature 58°C (136°F)

**Temperature (°C):**
- 200°C (392°F)
- 300°C (572°F)
- 400°C (752°F)
- 500°C (932°F)
- 600°C (1112°F)

**Duration (minutes):**
- 300 180 120 100 75

**Processes:**
- High temperature coating cure applications, such as PTFE and Dacromet.

### TB0081 Long Duration Thermal Barrier

**Construction:**
- Stainless Steel (304 grade)

**Weight**
- Thermal barrier 9.0 kg (19.8 lbs)
- Heatsink (1 x TB9963) 1.5 kg (3.3 lbs); (1 x TB1001) 1.0 kg (2.2 lbs)

**Dimensions (H x W x L):** 182 mm x 236 mm x 370 mm (7.2 in x 9.3 in x 14.6 in)

**Heat Sink:**
- Stainless Steel, phase change temperature 58°C (136°F)

**Temperature (°C):**
- 100°C (212°F)
- 150°C (302°F)
- 200°C (392°F)
- 250°C (482°F)
- 300°C (572°F)

**Duration (hours):**
- 24 13 9 6 —

**Processes:**
- Aluminum aging/long low temperature cure. Monitor complete automotive paint cure line with a single uninterrupted run (E-coat; primer surfacer; base coat; clear coat).

### TB5010-XL IP65 Waterproof Thermal Barrier

**Construction:**
- Stainless Steel (304 grade)

**Weight**
- Thermal barrier 4.5 kg (9.9 lbs)
- Heatsink (1 x TB9963) 1.5 kg (3.3 lbs)

**Dimensions (H x W x L):** 100 mm x 219 mm x 393 mm (3.9 in x 8.6 in x 15.5 in)

**Heat Sink:**
- Stainless Steel, phase change temperature 58°C (136°F)

**Temperature (°C):**
- 100°C (212°F)
- 150°C (302°F)
- 200°C (392°F)
- 250°C (482°F)
- 300°C (572°F)

**Duration (hours):**
- 10 5.5 3.75 2.5 —

**Processes:**
- Dry-off ovens or processes where there is a risk of the system traveling via water shower/rinse operations.

### TB0083 XL2 DIB Thermal Barrier (XL2 8-16 Channels)

**Construction:**
- Stainless Steel (304 grade)/Silicone free

**Weight**
- Thermal barrier 4.5 kg (9.9 lbs)
- Heatsink (1 x TB9960) 1.45 kg (3.2 lbs)

**Dimensions (H x W x L):** 144 mm x 172 mm x 390 mm (5.7 in x 6.8 in x 15.4 in)

**Heat Sink:**
- Stainless Steel, phase change temperature 58°C (136°F)

**Temperature (°C):**
- 100°C (212°F)
- 150°C (302°F)
- 200°C (392°F)
- 250°C (482°F)
- 300°C (572°F)

**Duration (hours):**
- 11 5 3 1.8 1

**Processes:**
- Automotive assembly. Monitoring new model paint lines during optimization studies that require up to 16 channels.

*Thermal barrier weights specified on this datasheet do NOT include the data logger.*