DATAPAQ®
A Fluke Company

Oven Tracker® XL2 Thermal Barriers

Discover the XL2 range of thermal barriers... unique and better than ever!

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 200°C (392°F). 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 TB9950) 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 58°C (136°F)				
Temperature	100°C (212°F)	150°C (302°F)	200°C (392°F)	250°C (482°F)	300°C (572°F)
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.*

TECHNICAL SPECIFICATIONS

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)			
Heatsink		Stainless Steel, phase change temperature 58°C (136°F)			
Temperature	100°C (212°F)	150°C (302°F)	200°C (392°F)	250°C (482°F)	300°C (572°F)
Duration (minutes) With heatsink (TB0091-WH)	270	150	105	75	48
Duration (minutes) With heatsink (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)			
Heatsink		Stainless Steel, phase change temperature 58°C (136°F)			
Temperature	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)			
Heatsink		Stainless Steel, phase change temperature 58°C (136°F)			
Temperature	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)			
Heatsink		Stainless Steel, phase change temperature 58°C (136°F)			
Temperature	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)			
Heatsink		Stainless Steel, phase change temperature 58°C (136°F)			
Temperature	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.*

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