

# TS Series

## Thermal Shock Chambers

The Weiss Technik Thermal shock series offers a complete line for all your testing applications. Available in Horizontal, Vertical and Liquid models, the TS Series meets many of the stringent MIL-STD 883 test standards; contact your local sales office for a complete list.



Vertical

Liquid

Horizontal

### Features:

- Two and Three Zone with multiple capacity available
- Guaranteed part temperature recovery/soak
- Many standard safety features
- Traveling port for product temperature monitoring

### Design & Performance

Configuration		Vertical	Horizontal		Liquid
Model Number		TS V11	TSH27	TSH45	TSL5
<b>Basket Volume</b>	<b>Cubic Feet / Liters</b>	11 / 311	27 / 765	45 / 1274	0.55 / 16
<b>Basket Capacity</b>	<b>Pounds</b>	125 lbs	500 lbs	500 lbs	10 lbs
<b>Basket Size</b>	<b>Width</b>	30" (762mm)	36" (914mm)	60" (1524mm)	13.25" (337mm)
	<b>Depth</b>	25" (635mm)	36" (914mm)	36" (914mm)	12" (305mm)
	<b>Height</b>	25" (635mm)	36" (914mm)	36" (914mm)	6" (152mm)
<b>Chamber Exterior Dimensions</b>	<b>Width</b>	89" (2261mm) <sup>2</sup>	230" (5842mm) <sup>4</sup>	308" (7823mm) <sup>4</sup>	82" (2082mm)
	<b>Depth</b>	70" (1778mm) <sup>2</sup>	86" (2184mm)	92" (2337mm)	68" (1727mm)
	<b>Height</b>	134" (3404mm) <sup>3</sup>	99" (2515mm)	99" (2515mm)	96" (2439mm)
<b>Temperature Range</b>	<b>Minimum</b>		-67°C (-88°F)		-65°C (-85°F)
	<b>Maximum</b>		+200°C (+392°F)		+160°C (+320°F)
<b>Temperature Recovery</b>		171 lbs	376 lbs	327 lbs	7.5 lbs
<b>Product Load<sup>1</sup></b>		125 lbs	276 lbs	240 lbs	5.5 lbs <sup>5</sup>

Performances are based on laboratory conditions at +24°C, 60 Hz, with cooling water inlet temperature and flow rate according to requirements. Performances at 50 Hz may vary. Please consult with your local Sales Representative if your conditions vary.

<sup>1</sup> Weights are for Aluminum (other materials will vary), and test conforms to MIL-SPEC 883L 1010.9 test condition B for Air-Thermal-Shock

<sup>2</sup> TSV11 has a separate machine pack, 78"W x 88"D x 42"H (1727 x 2235 x 1067 mm)

<sup>3</sup> TSV11 travelling port extends 44" above top of chamber when basket is in top (Hot Zone) chamber

<sup>4</sup> TSH travelling port extends out from right side. Extension: TSH9: 40", TSH27: 48", TSH45: 67".

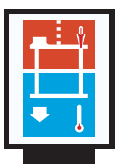
<sup>5</sup> Liquid Thermal Shock recovery < 5 min. per MIL-SPEC-883L 1011.9 Test Conditions B

Dimensions are chamber only, control console to be mounted separately.

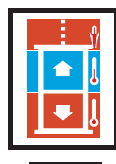
MIL-SPEC 883L Standards are critical for many customers. Weiss Technik Thermal Shock chambers are designed to conform to MIL-SPEC 883L 1010.9 Test Conditions A, B, C, D, and F for air thermal shock, depending upon the customer's product; and to conform to 1011.9 Test Condition C for liquid thermal shock. These chambers can meet many of the most stringent MIL-SPEC standards. Chamber dimensions and capacity can vary according to customer floor plan needs; please consult with your local Sales Representative for customizing the chamber for your facility.

**Custom sizes available**

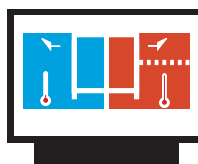
### TS Series Zone Options



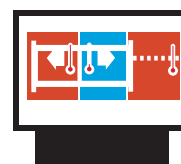
**TWO ZONE, SINGLE CAPACITY**  
(One hot zone & one cold zone)  
The products under test travel via a vertical lift system, alternating between the hot and cold zones.



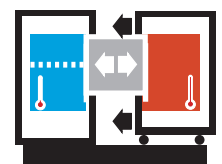
**TWO ZONE, DOUBLE CAPACITY**  
(Two hot zones & one cold zone)  
In the two zone, double capacity system, the cold zone is always in use, which contributes to the efficiency of the system.



**TWO ZONE, SINGLE CAPACITY**  
(One hot zone & one cold zone)  
The products under test travel via a carrier basket, alternating between the hot and cold zones.



**TWO ZONE, DOUBLE CAPACITY**  
(Two hot zones & one cold zone)  
In the two zone, double capacity system, the cold zone is always in use, which contributes to the efficiency of the system.



**THREE ZONE, SINGLE CAPACITY**  
(One cold zone, one ambient zone & one hot zone)  
In the horizontal three zone, the products travel via a carrier basket between the cold and ambient zones, and the hot zone travels to envelop the carrier basket.

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