

TSL Series > TSL5-2-6-WC Liquid-to-Liquid Thermal Shock Bath



Liquid-to-Liquid Thermal Shock Bath

Fluid Temperature Range:

Cold Zone: ambient to -65°C (-85°F)

Hot Zone: ambient to $+160^{\circ}\text{C}$ ($+320^{\circ}\text{F}$)

The TSL Series Liquid-to-liquid thermal shock bath is designed to operate within current military standards for semiconductor devices such as Mil-Std 883 Method 1011.8 and Mil-Std 202 Method 107G. The system is designed to be operated with a load of between 7.5 and 10 lbs. of product and fixture.

The basket travels between the hot bath and the cold bath by means of a mechanical arm. After the basket emerges from the bath, it stops briefly to allow excess liquid to drip back into the bath, reducing the amount of thermal load transfer between baskets.

There is an agitator system in each bath to ensure good temperature distribution and the large transparent plexiglass lid allows full access to the baths for loading and unloading the test basket.

Standard Features

- 13.25" W x 12" D x 6" H product basket
- Full opening plexiglass door to access baths
- ETL (UL STD 508) approved main power panel
- 2 Agitator systems, one in each bath
- Electrical isolation of basket through 1 Megohm resistor
- Bank of immersion heaters in hot zone
- Bank of immersion heaters in cold zone (used to raise fluid temperature to ambient)
- Expansion tank for fluid pressure during transfer
- Fluid filtering system
- Set of 4 casters with levelling leg

Instrumentation System

- Solutions Plus Touchscreen Programmer/Controller
- Honeywell DR450T Dual Pen Chart recorder (optional)
- Running Time Meter connected to Auto Operation Switch
- Auto/Manual basket transfer switch
- Manual high heat limit on hot bath (Max. $+160^{\circ}\text{C}$)

Refrigeration System

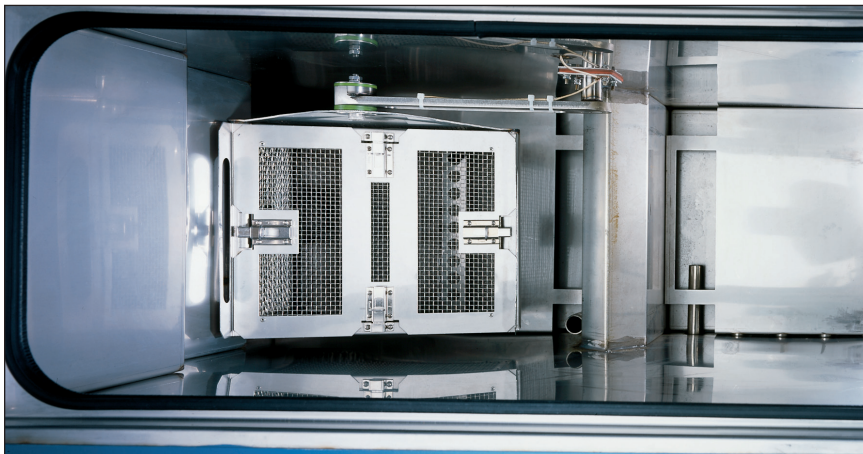
- 6 HP water cooled, attached cascade refrigeration system

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Specifications

Model TSL5-2-6-WC

Basket Dimensions	13.25" W x 12" D x 6" H 336.6mm D x 304.8mm W x 152.4mm H
Bath Capacity	13 Gal. (49.27 L) each
Exterior Dimensions	76" W x 64.5" D x 80" H 1930mm W x 1638mm D x 2032mm H
Shipping Dimensions	88" W x 76" D x 87" H 2235mm W x 1930mm D x 2210mm H
Shipping Weight	3900 lbs. 1773 kg
Refrigeration System	(2) 6 HP compressors utilizing "environmentally correct" refrigerants and a water-cooled condenser
Water Requirements	Machine package cooling water (1" F.P.T.) 7 GPM (26.53 LPM) at 75°F (23.9°C) inlet temperature 12 GPM (45.48 LPM) at 85°F (29.4°C) inlet temperature 30 psi minimum pressure drop
Power Requirements	460 volts, 3 phase, 60 hertz. 44 Full Load Amps
System Noise Level	Less than 85 dBa as measured 3 feet from the chamber at right angles



View of the transfer basket, robotic arm and further, into the baths through the full access lid opening.

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Weiss Envirotronics, Inc.
Environmental Test Chambers

3881 N. Greenbrooke Dr. SE • Grand Rapids, MI USA 49512
Tel (800) 368-4768 • (616) 554-5020 Email sales@envirotronics.com
Fax (800) 791-7237 • (616) 554-5021 Web www.envirotronics.com

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