



Thermal Shock Chambers

Thermal shock testing from -73°C to +40°C (cold chamber) and +40°C to + 200°C (hot chamber)

► Applications

- Electronics
- Consumer Products
- Military and Defense
- Aerospace
- Telecommunications

Non-hazardous, non-flammable, and non-volatile materials only

► Benefits

- Value priced – water cooled vs. liquid nitrogen cooling
- Available in two sizes
- Provides 281 cubic feet of internal workspace
- Meets military standard 883 method 1010.8 with 15lbs. of product
- Limit switches stop the transfer process and allow for precise product positioning
- Alarm and shutdown circuit provide over/under temperature protection to ensure product safety and accurate test results
- Efficient refrigeration system provides thermal capability to meet temperature stabilization times for military specifications.



Carriage Capacity		Product Load	Refrigeration	Heat	Exterior	Dimensions W x H x D inches (cm)	Model	Wt. lbs.
Ft ³	W x H x D inches (cm)	Lbs.	HP	kW		Vertical		
TSJR Model (Air Cooled)								
.25	10.5 x 6 x 6.125 (26.7 x 15.2 x 15.6)	3	½ + ½ + LN2	2.5/5	N/A	N/A	TSJR	900
TS2 Models - Two Zone: Hot/Cold (Water Cooled)								
2	15 x 15 x 15 (38.1 x 38.1 x 38.1)	15	4 + LN2	9/2	56" OAW Chamber 76" OAD Chamber 93" OAH Chamber 114" OAH With travelling port fully extended	89 x 72 x 58 (226.1 x 182.9 x 147.3)	TS2.02.04B	3700
2		15	10				TS2.02.10	4000
8	25 x 23 x 25 (V) (63.5 x 58.4 x 63.5)	25	6 + LN2	21/4	76" OAW Chamber 96" OAD Chamber 105" OAH Chamber 125" OAH With travelling port fully extended	97 x 89 x 75 (246.4 x 226.1 x 190.5)	TS2.08.06B	4200
8	or 23 x 25 x 25 (H) (58.4 x 63.5 x 63.5)	25	30				TS2.08.30	4700
TSD Models - Dual Load: Hot/Cold (Water Cooled)								
2	15 x 15 x 15 (38.1 x 38.1 x 38.1)	28	4 + LN2	18/4	56" OAW Chamber 76" OAD Chamber 93" OAH Chamber 114" OAH With travelling port fully extended	88 x 57 x 74 (223.5 x 144.8 x 188)	TSD.02.04B	4200
2		18	10				TSD.02.10	4500
8	25 x 23 x 25 (V) (63.5 x 58.4 x 63.5)	60	6 + LN2	42/4	76" OAW Chamber 96" OAD Chamber 105" OAH Chamber 125" OAH With travelling port fully extended	99 x 75 x 88 (251.5 x 190.5 x 223.5)	TSD.08.06B	4700
8	or 23 x 25 x 25 (H) (58.4 x 63.5 x 63.5)	56	30				TSD.08.30	5200

► Performance

Temperature range:

- Hot chamber: +40°C to +200°C
- Cold chamber: -73°C to +40°C
- Control tolerance measured at air leaving conditioner +/- 1 °C

► Options

- 15" x 15" viewing windows with chamber lights
- Available in 230V-3PH-60Hz or 460V-3PH-60Hz
- Additional Wire Mesh Type Basket
- DR4300 2 Pen Recorder
- OTP TempGard per chamber
- Dry Air Purge System per chamber
- Main Power Disconnect
- IEEE Communications
- Specview Software

► Features

- Vertical air circulation
- 2" traveling port
- Open-air, rapid-responding, low-mass, nichrome wire heating elements
- Two zone types with hot/cold compartment setups
- Cascade refrigeration system with TEV control and two semi-hermetic compressors
- Vapor-tight, interior liners made of 100% continuously welded stainless steel
- Vertical configurations
- Fiberglass and polyurethane insulation ensures minimal thermal transfer
- Double-gasket doors provide additional insulation
- Door switch
- Limit switch
- Dual-carriage transport system with stainless steel, wire mesh basket



TPS[™]
Thermal Product Solutions

**Baker Furnace, Blue M, Gruenberg, Lindberg/MPH,
Lunaire, Tenney, Wisconsin Oven**

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Specifications and Product Information are subject to change without notice.