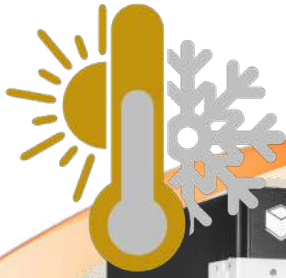


dbSAFE TSE 2.0



Next Gen, High-Quality 100db RF Test Enclosure with Thermal Capability

Used in the industry for over 10 years, the NEW TSE 2.0 utilizes proven double wall dbSAFE architecture to provide one of the best RF environments on the market.

New and improved waveguide Air Inlets and Exhausts eliminate thermal response on the exterior of the unit and a larger inner to outer wall dimensions allows for more insulation opening up even more extreme temperature possibilities.

dbSAFE TSE 2.0 units now include an internal polymethacrylimide (PMI) based structural foam inner wall, covering a 0.5" broadband lossy foam RF absorber lining – no longer do you have to accept internal reflections for temperature testing!

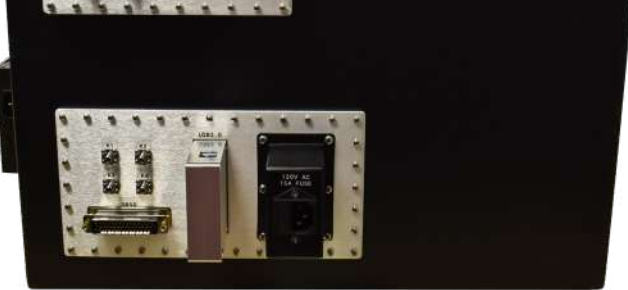
Incorporating the thermal isolation characteristics of the DVTEST Fixtreme series of moisture free thermal test environments, when paired with a temperature forcing unit, the system is capable of RF shielded testing at extremes of - 80 to +180°C*. Air inlets and exhausts feature DVTEST's Waveguide Technology, ensuring no isolation loss at air apertures. A frostfree adapter on the exhaust port ensures zero moisture build up and dual offset IO panels maintain isolation between the inner and outer RF shields. Custom sizes, air distribution, and internal fixtures are available.





PMI Foam

Polymethacrylimide foam, is a lightweight, rigid material with excellent thermal and mechanical properties. PMI foam's low dielectric constant allows RF signals to pass through with minimal interference, while its low loss tangent ensures minimal energy loss during transmission. In thermal applications, it serves as effective rigid insulation.



Choice of Preconfigured I/O Panels

dbSAFE TSE features dual offset I/O panels. Choose from our large selection of preconfigured I/O panels. All interfaces are filtered to maintain signal integrity, minimize interference from entering and exiting the test enclosure.

All I/O panels are user interchangeable in the field via an optional torque screwdriver.

Specifications for dbSAFE TSE

Isolation

Shielding Effectiveness* (dB)	300 MHz - 3 GHz	≥ 100 dB
	3 GHz - 6 GHz	≥ 90 dB
	6 GHz - 18 GHz	≥ 80 dB

*Isolation measurements taken adjacent to each seam.

Construction

Chassis Type	Double Wall Welded Aluminum
Surface Treatment	Tri-Shield coated to MIL-DTL-5541F
Door Style	Front Load or Top Load
RF Gasket	Braid Over Foam
Absorber	Broadband Lossy Foam Absorber

Mechanical

Insulation Type	Minimum 1" Silco-Soft™
Input Fitting	Swaglok™ quick connect fitting
Temperature Sensing	QTY 2 T or K type Thermocouples
Temperature Range	- 80°C to +180°C*
	Extended range available

I/O Panel Options

RF Connectors	SMA, N Type, BNC, TNC
I/O Data Modules	USB 2.0/3.0/3.1*, 1 & 10 GigE+PoE, HDMI 1.4/2.0, Audio 3.5 mm *USB single, dual, quad and high density port versions available
I/O Connectors	D-Sub DB-9, DB-15, DB-25, DB-37 50V/5A Per Pin
AC Power	TYPE A - 120V AC Module (IEC-320 to NEMA 5R) TYPE F - 230V AC Module (IEC-320 to Schuko) TYPE G - 230V AC Module (IEC-320 to BS 1363)
DC Power	DC - 100V/20A Module (+.- terminals)

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