

## T2.5



Part Number: 971-4200

### Standard Features

- High Rate, High Flow Typhoon Thermal System
- xLF2 Vibration Table with PSD Management
- Vacuum Jacketed Manifold
- PLC Control
- Desktop PC with Monitor
- Typhoon Manager Software

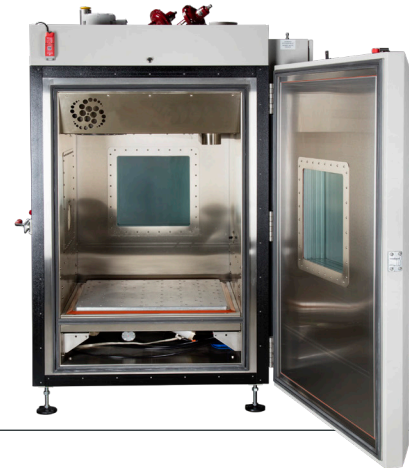
ESPEC's Qualmark T2.5 is a popular chamber with a 30" x 30" vibration table. This table size is a good size for Highly Accelerated Life Testing (HALT) applications and many Highly Accelerated Stress Screening (HASS) applications. The table can be mounted in an upper or lower position, to suit different product and ergonomic requirements.

<b>Work Space</b>	Lower Table Position
	35.0"w x 35.0"d x 35.0"h (889 mm x 889 mm x 889 mm)
	Upper Table Position
	35.0"w x 35.0"d x 25.0"h (889 mm x 889 mm x 635 mm)
<b>Outer Dimensions</b>	46.8"w x 61.6"d x 86.4"h (1188 mm x 1565 mm x 2193 mm)
<b>Table Size</b>	30" x 30" (762 mm x 762 mm)
<b>Actuators</b>	8 Actuators Lubricant-free
<b>Table Capacity<sup>1</sup></b>	320 lb (145 kg)
<b>Acceleration<sup>2</sup></b>	5 – 75 gRMS
<b>Temp Range</b>	+200°C to -100°C
<b>Thermal Ramp Rate<sup>3</sup></b>	70°C/min
<b>Power Requirements</b>	480V, 440V 3Φ 50/60Hz, 60A (Service Rating) 400V, 380V 3Φ 50/60Hz 80A (Service Rating)

See Qualmark product line brochure for configuration options, accessories, and post warranty service and maintenance plans. All specifications are subject to change without notice.

## T2.5 System includes:

- Two (2) year warranty
- Operations & Maintenance manual
- One (1) accelerometer for table control, Three (3) additional accelerometer input channels available
- Two (2) 72" high temperature thermocouples - one (1) for product, one (1) for air  
Four (4) additional thermocouple input channels available
- One (1) 20 ft accelerometer cable
- Eight (8) User State Relays (USR)
- Control PC with Windows® operating system and monitor



<b>Vibration Features</b>	Table Top	30" x 30" (762 mm x 762 mm)	
	Table Top Hardware	64 threaded holes 3/8-16 on 4" centers; M10 optional	
	Actuators	8 pneumatic, impulse-type, lubricant-free actuators	
	Vibration	Six degree of freedom, random, OmniAxial™ broadband excitation	
	PSD Management	Monitor and reset to factory specification for Power Spectral Density (PSD)	
	Table Product Capacity <sup>1</sup>	320 lb (145 kg)	
	Vibration Range <sup>2</sup>	5 - 75 gRMS (10 Hz to 5000 Hz)	
<b>Thermal Features</b>	Heating System	Open-element nichrome type	
	Cooling System	Vacuum jacketed liquid nitrogen injection	
	Temperature Range	+200°C to -100°C (+392°F to -148°F)	
	Thermal Ramp Rate <sup>3</sup>	70°C /minute	
<b>Internal Features</b>	Interior Dimension	Table in Lower Position: 35.0"w x 35.0"d x 35.0"h (889 mm x 889 mm x 889 mm) Table in Upper Position: 35.0"w x 35.0"d x 25.0"h (889 mm x 889 mm x 635 mm)	
	Interior Construction	Stainless steel	
	Lighting	1 recessed ceiling light	
<b>Exterior Features</b>	Exterior Dimensions	46.8"w x 61.6"d x 86.4"h (1188 mm x 1565 mm x 2193 mm)	
	Doors	2 doors, one on each side; each door opens 105°	
	External Construction	Painted steel construction with stainless steel trim	
	Windows	(2) 17" x 17" (432 mm x 432 mm) multi-pane windows, 1 in each door	
	Access Ports	(1) 6" (152 mm) round port with phenolic cover. Custom wall panel available.	
	Door Locks	System prohibits system operation when any door is ajar	
<b>Control</b>	Sound	73 dBA at 50 gRMS (at 1 meter)	
	<b>Control</b>	Vibration/Temperature	PLC based, PC
		PLC Based, PC	Typhoon Manager
		Operating System	Microsoft Windows
		Safety	Temperature Limit Controller (independent safety)
	<b>Utilities</b>	Electrical	480V, 440V, 3Φ, 50/60 Hz, 60A; 400V, 380V, 3Φ, 50/60Hz, 80A
		Air	64 SCFM @ 85 psi (1.8 m <sup>3</sup> /min at 5.9 bar)

1. Greater load capacities can be designed; contact ESPEC for custom options.
2. Measured on bare table; maximum gRMS level dependent on table configuration.
3. Measured as the average rate between -65°C and 85°C in open air 3" above table center (in an empty chamber); levels vary by make and model.

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