

Typhoon 2.5



Part Number: 971-4026

Standard Features

High Rate, High Flow
Typhoon Thermal System
xLF2 Vibration Table with
PSD Management
Vacuum Jacketed Manifold
Allen-Bradley PLC Control
Desktop PC with a 17" Monitor
Typhoon Manager Software

The Typhoon 2.5 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.

Work Space	Lower Table Position 44" w x 45" d x 35" h (1118 x 1143 x 889mm)
	Upper Table Position 44" w x 45" d x 25" h (1118 x 1143 x 635mm)
Outer Dimensions	56.1" w x 68.8" d x 84" h (1425 x 1748 x 2134mm)
Table Size	30" x 30" (762 x 762mm)
Actuators	8 Actuators Lubricant-free
Table Capacity¹	320lbs (145kg)
Acceleration²	5 – 75 gRMS typical >100 gRMS special order
Temp Range	+200°C to -100°C
Thermal Ramp Rate³	70°C – 100°C/min average
Power Requirements	380V, 400V, 440V, 480V 3Φ 50/60Hz, 80A (Service Rating)

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

Typhoon 2.5 System Includes:

- One (1) year warranty
- System start-up by a qualmark certified service engineer
- System and software orientation
- Operations & Maintenance manual
- One (1) accelerometer for table control provided;
Three (3) additional accelerometer input channels available
- Two (2) 72" thermocouples provided - 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 17" flat screen monitor



Vibration Features	Table Top	30" x 30" (762 x 762mm)
	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 ¹	320 lbs. (145 kg)
	Vibration Range ²	5 - 75 gRMS (10 Hz to 5000 Hz) typical (>100 gRMS special order)
Thermal Features	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); Optional 250°C
	Thermal Ramp Rate ³	70°C - 100°C /minute average
Internal Features	Interior Dimensions	Table in Lower Position: 44" w x 45"d x 35"h (1118 x 1143 x 889mm)
	Table in Upper Position:	44" w x 45"d x 25"h (1118 x 1143 x 635mm)
	Interior Construction	Stainless steel
	Plenum Exit	Adjustable airflow to direct air to product
	Lighting	2 recessed ceiling lights
Exterior Features	Exterior Dimensions	56.1" w x 68.8" d x 84" h (1425 x 1748 x 2134mm)
	Doors	2 doors, one on each side; each door opens 135°
	External Construction	Painted steel construction with stainless steel trim
	Windows	(2) 19" x 19" (482 x 482mm) multi-pane windows; 1 in each door (1) 11" x 17" (280 x 432mm) multi-pane window in the front wall
	Access Ports	(2) 4" (102mm) round ports with phenolic cover in the front wall (1) 6" (152mm) round port with phenolic cover in the front wall
	Door Locks	Interlocking system prohibits system operation when any door is ajar
	Sound	Nominally 73 dB (A) at 1 meter
Control	Vibration/Temperature	PLC based, PC
	PLC Based, PC	Typhoon Manager
	Operating System	Microsoft Windows
	Safety	Eurotherm temperature (independent safety)
Utilities	Electrical	380V, 400V, 440V, 480V, 3Φ, 50/60 Hz, 80A
	Air	60 SCFM Max @ 80 PSI (1.70 m3/min at 5.52 bar)

1. Greater load capacities can be designed; contact Qualmark for custom options.
2. Measured on bare table; maximum gRMS level dependent on table configuration.
3. Measured -65°C to 85°C in open air 3" above table center; levels vary by make and model.

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