



CHAMBER: TYPHOON 2.5V

The Typhoon 2.5V 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.

PART NUMBER: 971- 4026

STANDARD FEATURES

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

WORK SPACE

UPPER TABLE POSITION

44.1" w x 45" d x 25" h
(1120 x 1143 x 635mm)

LOWER TABLE POSITION

44.1" w x 45" d x 35" h
(1120 x 1140 x 889mm)

OUTER DIMENSIONS

55.9" w x 68.8" d x 84.0" h
(1419 x 1748 x 2134mm)

TABLE SIZE

30" x 30"
(762 x 762mm)

POWER REQUIREMENTS

380V, 400V, 440V, 480V
3Φ
50/60Hz,
80A (Service Rating)

TEMP RANGE

+ 200° C to -100° C

THERMAL RAMP RATE*

>100°C/min peak
>70°C/min average**

* Manufacturer certified under specified test range and load conditions.

** - 65°C to 85°C in open air 3" above table center

ACCELERATION

5 - 60 GRMS

* Higher GRMS available by special order

TABLE CAPACITY

Recommended 320lbs (145kg)
Maximum* 640lbs (290.3kg)

*may require custom options

8 ACTUATORS

ACCESSORIES

CE KIT (INTERNATIONAL)

HALT FIXTURE KIT

MULTIPLE DEWAR KIT

CALIBRATION KIT

OXYGEN SENSORS

ELEVATION STAND

CABLE NOTCHES

Q-LINK SOFTWARE

NEW! QUALVIEW

AIR PURGE DOOR LOCK KIT

DUAL WINDOW PORT ADAPTOR

QUALMARK SPECTRUM ANALYZER

PCA QUICK RELEASE FIXTURE

REDUNDANT VIBRATION ACCELEROMETER KIT

AUXILIARY THERMOCOUPLES

GHI SPECTRUM & FATIGUE ANALYZER

ACCESS PORTS AND OPTIONAL WINDOWS

KEEPFUL VACUUM INSULATED LIQUID LEVEL

PCBV ADHESIVE-MOUNT ACCELEROMETER

Typhoon-2.5 Features



Included

- 1 Year Warranty
- Start-up Of a Complete System by a Service Engineer
- Customer Training with The PLC Control System
- Operations & Maintenance Manual
- One Accelerometer for Table Control Provided; and (3) additional accelerometer input channels available.
- Two 72" thermocouples provided; (1)for Product, (1)for Air, and (4) additional thermocouple input channels available.
- (1) 10 ft Accelerometer Cable
- (8) User Controllable Solid State Relays
- Control PC with Windows Operating System and a 17" Flat Screen Monitor

Vibration Features

Table Top	30" X 30" (762mm X 762mm)
Table Top Hardware	(64) Threaded Holes 3/8-16 On 4" Centers (Optional M10)
Actuators	8 Pneumatic, Impulse-type Actuators
Vibration	Six Degree Of Freedom, Random, Onmi-Axial™ Broadband Excitation
Table Product Capacity	Recommended 320 Lbs. (145kg) Maximum* 640lbs (290.3kg) *may Require Custom Options
Vibration Range	5 - 60 Grms (10hz To 1khz)
Vibration Overshoot	< 2 Grms
Vibration Dwell	+/- 1 Grms

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)
Thermal Ramp Rate**	>100°C /min peak >70°C /min average*
Thermal Overshoot	< 5°C
Thermal Dwell	+/- 1°C

* Manufacturer certified under specified test range and load conditions. **- 65°C to 85°C in open air 3" above table center

Requirements

Electrical Requirements	380V, 400V, 440V, 480V, 3Φ, 50/60 Hz, 80A
Air Requirements	60 SCFM Max @ 80 PSI (1.70 m3/min at 5.52 Bar)
Sound Level	Nominally 73 dB (A) at 1 meter

Internal Features

Interior Dimensions	Table In Lower Position: 44.1" w X 45" d X 35" h (1120mm X 1143mm X 889mm) Table In Upper Position: 44.1" w X 45" d X 25" h (1120mm X 1143mm X 635mm)
Interior Construction	Stainless Steel
Side Plenum	Adjustable Airflow To Direct The Air To The Product
Lighting	(2) Recessed Ceiling Light

Exterior Features

Exterior Dimensions	55.9w" X 69.2" X 84.0" (1420mm X 1758mm X 2134mm)
Doors	(2) Doors, One Each Side, Doors Open 95
External Construction	Painted Steel Construction With Stainless Steel Trim
Windows	(2) 19" X 19" (482mm X 482mm) Multi-pane Windows (1 In Each Door) (1) 11" X 17" (280mm X 432mm) Multi-pane Window In The Front Wall
Access Ports	(2) 4" Round Ports (102mm) With Phenolic Cover In The Front Wall (1) 6" (152mm) Round Port With Phenolic Cover In The Front Wall
Door Interlocks	Prohibit Thermal And Vibration System Operation When Any Door Is Ajar

Control

Vibration/Temperature	PLC Based, PC
User Interface	Typhoon Manager
Operating System	Microsoft Windows
Safety	Eurotherm Temperature (Independent Safety)