



Typhoon 8.0V shown with optional lower windows in doors and optional windows and lower access ports on front.

CHAMBER: TYPHOON 8.0V

The Typhoon 8.0V doubles the width of our popular Typhoon 4.0 chamber. The thermal system in the Typhoon series has been carefully engineered to have superior thermal efficiency. Key design elements such as our patented blower technology, highly efficient air flow characteristics and careful choice of materials have combined to keep liquid nitrogen and electricity costs down without compromising our industry standard thermal performance. The Typhoon 8.0V has the largest vibration table available in a HALT/HASS chamber.

PART NUMBER: 971-4004

STANDARD FEATURES

- xLF Vibration Table
- (2x) Vacuum Jacketed Manifold
- Allen-Bradley PLC Control
- Typhoon Manager Software
- Desktop PC with a 17" Monitor

WORK SPACE

UPPER TABLE POSITION
105"w x 54"d x 34.6"h
(2667 x 1371 x 904.2mm)

LOWER TABLE POSITION
105"w x 54"d x 53.6"h
(2667 x 1371 x 1361.4mm)

OUTER DIMENSIONS

124.3"w x 78.8"d x 103.9"h
(3157.2 x 2001.5 x 2639mm)

TABLE SIZE

100" x 48"
(2540 x 1220mm)

POWER REQUIREMENTS

380V, 400V, 440V 480V
3Φ
50/60Hz,
200A (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 1000lbs (453.59kg)
Maximum* 2000lbs (907.18kg)
*may require custom options

24 ACTUATORS

ACCESSORIES

CE KIT (INTERNATIONAL)

HALT FIXTURE KIT

CALIBRATION KIT

OXYGEN SENSORS

LAY-DOWN CRATING

Q-LINK SOFTWARE

AIR PURGE KIT

NEW! QUALVIEW

ACCESS PORTS AND OPTIONAL WINDOWS

QUALMARK SPECTRUM ANALYZER

REDUNDANT VIBRATION ACCELEROMETER KIT

AUXILIARY THERMOCOUPLES

GHI SPECTRUM & FATIGUE ANALYZER

KEEFPFUL VACUUM INSULATED LIQUID LEVEL

ADHESIVE-MOUNT ACCELEROMETER KIT

PCA QUICK RELEASE FIXTURE

Typhoon-8.0 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
- Two Accelerometer for Table Control Provided; and (6) additional accelerometer input channels available.
- Two 72" thermocouples provided; (1)for Product, (1)for Air, and (10) additional thermocouple input channels available.
- (2) 20 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	48" X 100" (1220mm X 2540mm)
Table Top Hardware	(300) Threaded Holes 3/8-16 On 4" Centers (M10 Optional)
Actuators	24 Pneumatic, Impulse-type Actuators
Vibration	Six Degree Of Freedom, Random, Omni-axial™ Broadband Excitation
Table Product Capacity	Recommended 1000 Lbs. (453.59kg) Maximum* 2000lbs (907.18kg) *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

Requirements

Electrical Requirements	380V, 400V, 440V, 480V, 3Φ, 60 Hz, 50 Hz, 200A
Air Requirements	192 SCFM Max @ 80 PSI (4.53 m3/min. at 5.52 bar
Sound Level	Nominally 73 dB (A) at 1 meter

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

Internal Features

Interior Dimensions	110"w x 53.3"d x 36"h, Table Upper Position (2794mm x 1353mm x 914mm) 110"w x 53.3"d x 55"h, Table Lower Position (2794mm x 1353mm x 914mm)
Interior Construction	Stainless Steel
Side Plenum	Adjustable Airflow To Direct The Air To The Product
Lighting	(4) Recessed Ceiling Light

Exterior Features

Exterior Dimensions	121"w x 67.3"d x 108.7"h (3081mm x 1710mm x 2761mm)
Doors	(4) Automated Locking Doors Two On Each Side Open 95° For Easy Access To Product Under Stimulation
External Construction	Painted Steel Construction With Stainless Steel Trim
Windows	(4) 18" X 18" (457mm X 457mm) Multi-pane Windows (One Window On Each Door)
Access Ports	(4) 6" X 10" (152mm X 254mm) Ports With Phenolic Covers 2 On Front & 2 On Back
Door Interlocks	Inhibit 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)