

Part Number: 971-4030

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

Typhoon 3.0

The Typhoon 3.0 is specifically designed to help the customer who is performing low volume Highly Accelerated Stress Screens (HASS) and needs a chamber with a 36" x 36" vibration table. It is also ideal for performing Highly Accelerated Life Tests (HALT) on mid-sized and larger products. Like our Typhoon 4.0, the Typhoon 3.0 vibration table mounts at two different heights, so the interior chamber volume can be adjusted for the needs of the product.

Lower Table Position
44.0"w x 45.0"d x 35.0"h
(1118 mm x 1143 mm x 889 mm)
Upper Table Position
44.0"w x 45.0"d x 25.0"h
(1118 mm x 1143 mm x 635 mm)
56.1"w x 69.6"d x 88.1"h
(1759 mm x 1768 mm x 2237 mm)
36" x 36"
(914 mm x 914 mm)
10 Actuators
Lubricant-free
450 lb (204 kg)
5 – 70 gRMS
+200°C to -100°C
70°C/min
380V, 400V, 440V, 480V
3Ф
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 3.0 System includes:

- Two (2) year warranty
- 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 Table Top Hardware Actuators Vibration PSD Management Table Product Capacity ¹ Vibration Range ²	36" x 36" (914 mm x 914 mm) 81 threaded holes 3/8-16 on 4" centers (M10 optional) 10 pneumatic, impulse-type, lubricant-free actuators Six degree of freedom, random, OmniAxial™ broadband excitation Monitor and reset to factory specification for Power Spectral Density (PSD) 450 lb (204 kg) 5 - 70 gRMS (10 Hz to 5000 Hz)
Thermal Features	Heating System Cooling System Temperature Range Thermal Ramp Rate ³	Open-element nichrome type Vacuum jacketed liquid nitrogen injection +200°C to -100°C (+392°F to -148°F) 70°C/min
Internal Features	Interior Dimension Interior Construction Lighting	Table in Lower Position: $44.0''$ w x $45.0''$ d x $35.0''$ h (1118 mm x 1143 mm x 889 mm) Table in Upper Position: $44.0''$ w x $45.0''$ d x $25.0''$ h (1118 mm x 1143 mm x 635 mm) Stainless steel 2 recessed ceiling lights
Exterior Features	Exterior Dimensions Doors External Construction Windows Access Ports Door Lock Sound	56.1"w x 69.6"d x 88.1"h (1425 mm x 1768 mm x 2237 mm) 2 doors, one on each side; each door opens 135° Painted steel construction with stainless steel trim (2) 19" x 19" (483 mm x 483 mm) multi-pane windows; 1 in each door (1) 11" x 17" (280 mm x 432 mm) multi-pane window in the front wall (2) 4" (102 mm) round ports with phenolic cover in the front wall (1) 6" (152 mm) round port with phenolic cover in the front wall Interlocking system prohibits system operation when any door is ajar 73 dBA at 40 gRMS (at 1 meter)
Control	Vibration/Temperature Interface Operating System Safety	PLC based, PC Typhoon Manager Microsoft Windows Eurotherm temperature (independent safety)
Utilities	Electrical Air	380V, 400V, 440V, 480V, 3Φ, 50/60 Hz, 80A 80 SCFM Max @ 85 psi (2.3 m³/min at 5.9 bar)

- Greater load capacities can be designed; contact Qualmark for custom options.
- Measured on bare table; maximum gRMS level dependent on table configuration.
- 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.

920-0190_12

