



PART NUMBER: 971-4001

CONFIGURABLE FEATURES

MAIN SUPPLY VOLTAGE VIBRATION TABLE COMPUTER SOFTWARE

WORK SPACE

UPPER TABLE POSITION

53.7"w x 53.3"d x 36"h (1364 x 1353 x 914mm)

LOWER TABLE POSITION

53.7"w x 53.3"d x 55"h (1364 x 1353 x 1397mm)

80.1"w x 69.6"d x 109"h (2035 x 1768 x 2768mm)

TEMP RANGE

TABLE SIZE 48" x 48"

(1220 x 1220mm)

OUTER DIMENSIONS ACCELERATION

Over 50 G

POWER REQUIREMENTS

380V, 400V, 440V, 480V + 200°C to -100°C

3Ф 50/60Hz,

100A 12 ACTUATORS

CHAMBER TYPHOON 4.0

The Typhoon 4.0 is the largest standard chamber in the Qualmark line. It is designed specifically for the task of performing Highly Accelerated Stress Screening (HASS) and for HALT on large products. Its 48" x 48" vibration table is capable of supporting hundreds of pounds of products and fixturing and mounts at two different heights.

ACCESSORIES

CE KIT (INTERNATIONAL)

HALT FIXTURE KIT

MULTIPLE DEWAR KIT

CALIBRATION KIT

OXYGEN SENSORS

LAY-DOWN CRATING

Q-LINK SOFTWARE

AIR PURGE KIT

QUALMARK SPECTRUM ANALYZER

REDUNDANT VIBRATION ACCLEROMETER KIT

SEISMIC HOLD DOWN CHANNEL KIT

AUXILIARY THERMOCOUPLES

GHI SPECTRUM & FATIGUE ANALYZER

KEEPFUL VACUUM INSULATED LIQUID LEVEL

PCBV ADHESIVE-MOUNT ACCELEROMETER KIT

PCA QUICK RELEASE FIXTURE

Typhoon-4.0 Features

Included

- 1 year warranty
- Start-up and check out of complete system by a factory trained field service engineer
- Customer training on using the PC control system
- Operations & Maintenance Manual
- Table Control Accelerometer and Cable
- 2 Thermocouples Provided

- Product and air chamber control thermocouples
- (8) user controllable solid state relays
- (4) auxiliary thermocouple input channels
- (3) auxiliary vibration input channels
- Control PC with Windows operating system
- 17" Monitor



Vibration Features

Table Top 48" x 48" (1220mm x 1220mm)

Table Top Hardware (144) threaded holes 3/8-16 on 4" centers Actuators 12 pneumatic, impulse-type acuators

Vibration Six degree of freedom, random, Omni-Axial™ broadband excitation

Modulation ASX Actuators (272kg)

Table Product Capacity Recommended 600 lbs. (272.16kg) Maximum* 1200lbs (544.31kg) *may require custom options

Vibration Range 50 Grms (10Hz to 5kHz) 60 Grms (10 HZ to 1kHz)

Thermal Features -

Heating System Open-element NiChrome type
Cooling System Liquid Nitrogen Injection

Temperature Range +200°C to design limit -10°C to design limit (+392°F to -148°F)

Temperature Change Rate 200°C/min (max ramp rate

70°C/min from -50°C to +150°C (typical HALT range) 60°C/min from -50°C to +120°C (example range)

Internal Features -

Interior Dimensions 53.7"w x 53.3"d x 36"h, upper position (1364mm x 1353mm x 914mm)

53.7"w x 53.3"d x 55"h, lower position (1364mm x 1353mm x 1397mm)

Interior Construction 304 Stainless Steel

Side Plenum Adjustable airflow to direct the air to the product Lighting Recessed ceiling lights and a fiber-optic wand

Exterior Features

Exterior Dimensions 80.1"w x 69.6"d x 109"h (2035mm x 1768mm x 2768mm)

Doors (4) automated locking doors two on each side, open 95° for easy access to product

under stimulation

External Construction Painted cold rolled 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 when any door is ajar

Electrical Requirements 380V, 400V, 440V, 480V, 3Φ, 60 Hz, 100A

Air Requirements 96 SCFM Max @ 80 PSI (2.72 m3/min. at 5.52 bar)

Sound Level Nominally 73 dB (A) at 1 meter

Control-

Thermocouples Additional 6 Auxiliary Thermocouples input channels

Vibration/Temperature PLC based, PC
Control Controller
User Interface OVS Manager
Operating System Microsoft Windows
Safety Eurotherm Temperature