

PART NUMBER: 971-4030

CONFIGURABLE FEATURES

MAIN SUPPLY VOLTAGE VIBRATION TABLE COMPUTER 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 69.2"d x 84.0"h (1420 x 1760 x 2134mm)

TEMP RANGE

+ 200°C to -100° C

10 ACTUATORS

TABLE SIZE

36" x 36" (914 x 914mm)

ACCELERATION

Over 50 G

POWER REQUIREMENTS

380V, 400V, 440V, 480V 3Ф 50/60Hz, 80A

CHAMBER TYPHOON 3.0

The Typhoon 3.0 is the latest addition to the Qualmark chamber line, specifically designed to help the customer who is performing low volume HASS and needs a chamber with a 36" x 36" vibration table. It is also ideal for performing 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.

Accessories

CE KIT (INTERNATIONAL)

HALT FIXTURE KIT

MULTIPLE DEWAR KIT

CALIBRATION KIT

OXYGEN SENSORS

ELEVATION STAND

CABLE NOTCHES

Q-LINK SOFTWARE

AIR PURGE DOOR LOCK KIT

DUAL WINDOW PORT ADAPTOR

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-3.0 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

36" x 36" (914mm x 914mm) Table Top

(81) threaded holes 3/8-16 on 4" centers **Table Top Hardware** 10 pneumatic, impulse-type actuators Actuators

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

Modulation ASX Actuators (204kg)

Recommended 450 lbs. (204.12kg) Maximum* 900lbs (408.23kg) *may require custom options **Table Product Capacity**

PLC based, PC Vibration/Temperature

50 Grms (10Hz to 5kHz) Vibration Range 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 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 304 Stainless Steel

Side Plenum Adjustable airflow to direct the air to the product

Recessed ceiling lights Lighting

Exterior Features

Exterior Dimensions 55.9" x 69.2" x 84.0" (1420mm x 1760mm x 2134mm)

(2) doors, one each side, doors open 95° for easy product access Doors **External Construction** Painted stainless 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 when any door is ajar

Electrical Requirements 380V, 400V, 440V, 480V, 3Φ, 60 Hz, 80A Air Requirements 80 SCFM Max @ 80 PSI (2.27 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** Microsoft Windows **Operating System** Safety

Furotherm Temperature