



PART NUMBER: 971-4019 971-4021 (3 Phase)

CONFIGURABLE FEATURES

Main Supply Voltage Vibration Table LN₂ System Computer Software

WORK SPACE

27"w x 27"d x 19.5"h (686 x 686 x 496mm)

TABLE SIZE

18" x 18" (457 x 457mm)

OUTER DIMENSIONS

38.7"w x 46"d x 79.9"h (983 x 1168 x 2030mm)

TEMP RANGE

+ 200° C to -100° C

4 ACTUATORS

ACCELERATION

Over 50 G

POWER REQUIREMENTS

208V, 230V(1Φ), 380V 400V, 440V, 480V 3Φ 50/60Hz,70A (3Φ) 60A (1Φ)

CHAMBER TYPHOON 1.5

The Typhoon 1.5, with its 18" x 18" vibration table, is perfect for performing Highly Accelerated Life Testing (HALT) on small products, or where limited lab space is available. This compact system is built using Qualmark's Typhoon chamber technology. With its impressive thermal performance and six-degree-of-freedom, repetitive-shock vibration, and 30% to 60% savings in utility costs, the compact Typhoon 1.5 is a practical addition to a company's product reliability program.

ACCESSORIES

CE Kit (INTERNATIONAL) HALT FIXTURE KIT MULTIPLE DEWAR KIT CALIBRATION KIT OXYGEN SENSORS CABLE NOTCH Q-LINK SOFTWARE DOOR LOCK KIT QUALMARK SPECTRUM ANALYZER REDUNDANT VIBRATION ACCLEROMETER KIT GHI SPECTRUM & FATIGUE ANALYZER KEEPFUL VACUUM INSULATED LIQUID LEVEL PCBV ADHESIVE-MOUNT ACCELEROMETER KIT PCA QUICK RELEASE FIXTURE CLAMP & WITHOUT CLAMP

Typhoon-1.5 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
- 3 Thermocouples Provided

Vibration Features-

- 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	18″ x 18″ (457mm x 457mm)
Table Top Hardware	(25) threaded holes 3/8-16 on 4" centers
Actuators	4 pneumatic, impulse-type actuators
Vibration	Six degree of freedom, random, Omni-Axial [™] broadband excitation
Modulation	ASX Actuators
Table Product Capacity	Recommended 80 lbs. (36kg) Maximum* 160lbs (72.57kg) *may require custom options
Vibration Specs	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 -100°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	27″w x 27″d x 19.5″h (686mm x 686mm x 496mm)
Interior Construction	304 Stainless Steel
Upper Corner Plenum	Adjustable airflow to direct the air to the product
Lighting	Recessed ceiling lights
Exterior Features ———	
Exterior Dimensions	38.7″w x 46″d x 79.9″h
	(983mm x 1168mm x 2030 mm)
Doors	(1) door, for easy product access
External Construction	Painted stainless steel construction with stainless steel trim
Windows Access Ports	16" x 16" (406mm x 406mm) multi-pane window in the door
Door Interlocks	(1) 4" port with phenolic cover, on side
Electrical Requirements	Inhibit thermal and vibration system when door is ajar 208V, 1Ф, 50/60 Hz, 70A 230V, 1Ф, 50/60 Hz, 70A
Electrical Requirements	400V, 3Φ, 50/60 Hz, 60A 480V, 3Φ, 50/60 Hz, 60A
Air Requirements Sound Level	32 SCFM Max @ 80 PSI (1.91 m3 /min. at 5.52 Bar) Nominally 73 dB (A) at 1 meter
	Norminally 75 GB (A) at 1 meter
Control	
Vibration/Temperature	PLC based, PC Driven
Control	controller
User Interface	OVS Manager
Operating System	Microsoft Windows
Safety	Eurotherm Temperature