

QFusion™ 300



Part Number: 971-7000

Standard Features

High Rate, High Flow
Thermal System

Six Quake™ Vibration Tables

Vacuum Jacketed Manifold

PLC Control

Desktop PC with Flat Panel Monitor

QF Manager Software

FUSING BURN-IN AND HASS/HASA – A MULTI-CAPABLE SYSTEM

Qualmark's QFusion* represents the latest in accelerated stress test technology – specifically addressing the reliability testing needs during production. This system is designed to perform HASS/ HASA (Highly Accelerated Stress Screen/Highly Accelerated Stress Audit) and/or Burn-In on product to locate failure modes that may have been inadvertently introduced during manufacturing. QFusion technology provides maximum performance for driving out process-induced faults and detecting inferior component substitutions that could otherwise turn up in the field as costly failures. QFusion's combined environment (thermal and random shock vibration) and 6 table configuration accelerates process verification and for less cost than with traditional equipment.

Work Space	6 tables; Work space per table 27" w x 19" d x 11.2" h (686 x 482.5 x 285mm)
Outer Dimensions	81.5" w x 38.4" d x 102.0" h (2056 x 976 x 2591mm)
Table Size (Quantity-6)	23.6" x 15.7" / table (600 x 400mm)
Actuators	12 Actuators; 2/table Lubricant-free
Table Capacity	6 tables; 100 lbs (45 kg)/table
Acceleration¹	5 – 40 gRMS typical
Temp Range	+120°C to -60°C
Thermal Ramp Rate²	60°C/min average
Power Requirements	380V, 400V, 440V, 480V 3Φ 50/60Hz, 90A (Service Rating)

*QFusion – patent pending. Since Qualmark continually improves product and service offerings, specifications are subject to change without notice. Please check with Qualmark to ensure you have the latest specification.

QFusion 300 includes:

- One (1) year warranty
- System start-up by a Qualmark certified service engineer
- System and software orientation
- Operations & Maintenance manual
- Control PC with Windows® operating system and flat panel monitor
- 24 months of preventative maintenance and calibration³



Vibration Features	Table Top Table Top Hardware Actuators Vibration Table Product Capacity Vibration Range ¹	Quantity 6; each 23.6" x 15.7" (600 x 400mm) Per table; 24 threaded 3/8-16 holes on 4" centers; M10-1.5 thread optional 12 pneumatic, impulse-type, lubricant-free actuators (2/table) Six degree of freedom, random, OmniAxial™ broadband excitation 100 lbs. (45 kg)/table 5 - 40gRMS
Thermal Features	Heating System Cooling System Temperature Range Thermal Ramp Rate ²	Open-element nichrome type Vacuum jacketed liquid nitrogen injection +120°C to -60°C (+248°F to -140°F) 60°C /minute average
Internal Features	Interior Dimension Interior Construction	27"w x 19"d x 11.2"h (686 x 482.5 x 285mm) per table Stainless steel
Exterior Features	Exterior Dimensions Doors External Construction Windows Access Ports Sound Status Light Tower	81.5"w x 38.4"d x 102.0"h (2056 x 976 x 2591mm) 2; each door opens 135° Painted steel construction with stainless steel trim Optional; on beta unit 6 windows, 3 on each side (9" x 19" viewing/window) 12 total on back/2 per table; 4.5" w x 9" h (114 x 229mm) Nominally <80dBA measured at 1 meter 4 indicator lights; green=run, yellow=standby, white=door warning, red=alarm
Control	Vibration/Temperature Interface Operating System	PLC based, PC QF Manager Microsoft Windows 7
Utilities	Electrical Air	380V, 400V, 440V, 480V, 3Φ, 60 Hz, 90A 96 SCFM Max (estimated) @ 100 PSI (2.72 m ³ /min. at 7 bar)

1. Measured on bare table; gRMS range manufactured for typical HASS needs; greater range can be designed; contact Qualmark for custom options.
2. Measured -40°C to 80°C in open air 3" above table center; levels vary by make and model.
3. Terms and limitations apply and are furnished at the time of formal quote.

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