

QFusion™ 300



Part Number: 971-7000

Standard Features

- High Rate, High Flow Thermal System
- Six 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 *patented* 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 19.2" d x 11.3" h (686 x 486 x 286mm)
Outer Dimensions	81.0" w x 38.4" d x 102.0" h (2056 x 976 x 2591mm)
Table Size (Quantity-6)	23.6" x 15.6" / table (599 x 396mm)
Actuators	12 Actuators; 2/table Lubricant-free
Table Capacity	6 tables; 100 lb (45 kg)/table
Acceleration¹	5 – 40 gRMS
Temp Range	+120°C to -60°C
Thermal Ramp Rate²	60°C/min average
Power Requirements	380V, 400V, 480V 3Φ 50/60Hz 100A (Service Rating)

**QFusion – Patented design. 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:

- Two (2) year warranty
- 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 15.6" (599 x 396mm) 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 lb (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/min average
Internal Features	Interior Dimension Interior Construction	27" w x 19.2" d x 11.3" h (686 x 486 x 286mm) per table Stainless steel
Exterior Features	Exterior Dimensions Doors External Construction Access Ports Sound Status Light Tower	81.0" 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 12 total on back/2 per table; 4.5" w x 9" h (114 x 229mm) 73dBA at 30 gRMS (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, 480V, 3Φ, 50/60Hz, 100A 96 SCFM @ 100 psi (2.7 m ³ /min. at 6.9 bar)

1. Measured on bare table; gRMS range manufactured for typical HASS needs.
2. Measured -50°C to 100°C in open air 1" above table.
3. Terms and limitations apply and are furnished at the time of formal quote.

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