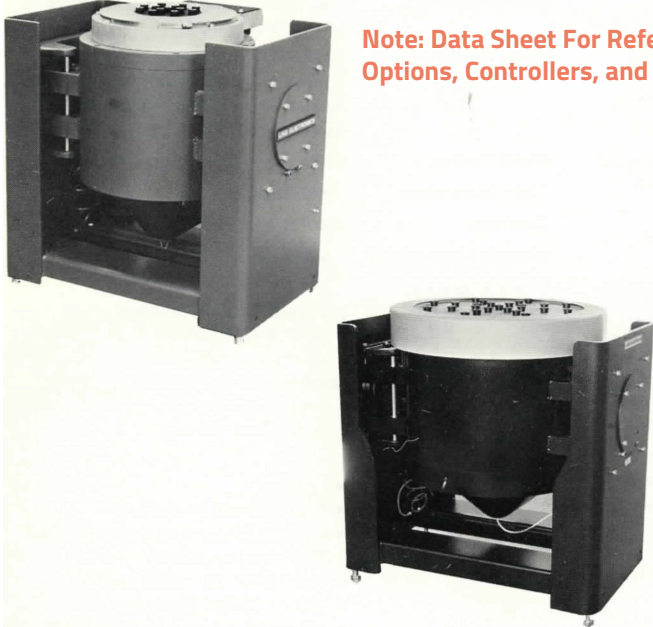


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Note: Data Sheet For Reference Only - Actual System May Vary Depending on Model, Year, Options, Controllers, and Individual Configuration

- **6,000 lb. Force (26.7 kN)**
- **1,000 lb. Force (4.45 kN) Maximum Load**
- **Lin-E-Air™ Isolation**
- **Armature Diameter of 13" (330mm) or 25" (635mm)**
- **Air-Cooled**

The Model A395/C395 Shaker is a wide-band, air-cooled, electrodynamic shaker designed for continuous duty testing of smaller to medium size specimens, ideally suited for product qualification, reliability, and stress screening tests.

To achieve maximum energy efficiency, a double-ended magnetic field structure is used. Two copper field coils provide maximum gauss in the center gap for a high force-to-current ratio. All electrical connections, including armature and field coils, air-flow and over-travel interlocks, are made via locking connectors at a junction box conveniently located at the top of the shaker body.

The armature combines a deeply ribbed, rugged cast magnesium frame which is centered and guided by LING's unique beryllium copper loop flexures and a high-

stiffness linear bearing. Replaceable raised stainless steel table inserts ensure maximum force transmission to the specimen.

With LING's exclusive Lin-E-Air Isolation System, the shaker body is suspended on air springs located at the trunnions. The Lin-E-Air system incorporates linear bearings which guide body motion in the thrust axis, simplifying alignment with auxiliary horizontal tables. A low natural frequency of the body suspension provides excellent isolation and eliminates the need for expensive isolated reaction masses in most applications. Base leveling screws are provided.

The A395/C395 Shaker is cooled by induced air which is exhausted by means of a remotely located blower to minimize heat and blower noise in the area adjacent to the shaker.

SPECIFICATIONS:

	A395	C395		
Force Rating:	6,000 lb (26.7 kN)	6,000 lb (26.7 kN)	Maximum Displacement:	1.5" (38 mm) peak-to-peak between mechanical stops
Maximum Acceleration:	136 g Vector	43 g Vector	Body Suspension:	Lin-E-Air™ pneumatic spring and guidance system with a 2 Hz natural frequency in the direction of the thrust axis (may be locked out)
Fundamental Resonance (bare table):	2350 Hz	1950 Hz	Field Power:	External dc field supply required
Armature Table Diameter:	13¼" (337 mm)	25½" (648 mm)	Field Protection:	Discharge rectifier
Armature Weight:	44 lb (196 N)	125 lb (556 N)	Cooling:	Blower with 10' (3 m) hose
Armature Suspension:	Half Loop beryllium copper flexures with axial stiffness of 1,000 lb/in (175 kN/m)	Included in Payload Support System	Weight (Uncrated):	5,500 lb (2,500 kg)
Pneumatic Payload Support System:	Optional	Standard supports up to 1,000 lbs (4.45 kN) in vertical direction	Environmental Capabilities:	Standard shaker ambient- +40°F to +120°F (+5°C to +49°C) Shaker with top thermal accessories- -85°F to +185°F (-65°C to +85°C)
Overall Height:	45¾" (1162mm)	46¾" (1184mm)	Optional Accessories:	<ul style="list-style-type: none"> • Casters • Top Thermal Protection • Vertical Pneumatic Load Support (Standard on C395) • ¾"-24 UNF2B Table Inserts • M8 x 1.25-6H Table Inserts • Model 301 Alignment Platform • Model 397 Vertical/Horizontal Base • Oil Film Slip Table Assemblies • Acoustic Enclosure for Blower • Weatherproof Enclosure for Remote Cooling Blower • Table Head Expanders • Additional Hose Length for Blower
Armature Guidance:	High-stiffness air bearing	Ruggedized linear recirculating ball bearings		
Stray Magnetic Field:	Less than 3 gauss (0.3 mT); 6" (152 mm) above table	Less than 9 gauss (0.9 mT); 6" (152 mm) above table		
Rated Displacement:	1" (25.4 mm) peak-to-peak continuous duty			
Overtravel Protection:	Normally closed switch for electronic control, set for 1.3" (33.0 mm) peak-to-peak			

Load Mounting:

NOTE: DIMENSIONS ARE IN INCHES AND (mm).

