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LW127.123-500D12 DuoBase System



The LW-127-500D12 is the largest of the current family of Labworks vibration test systems. Its large 12 inch Square oil film Slip Table mounting surface provides high load and off-center moment capability for applications where heavy or large loads are to be tested. The DB-127 also allows the ET-127 shaker to be uncoupled from the slip table and rotated into its vertical position allowing normal vertical testing of smaller components directly on the shakers armature. The Shakers internal high lateral stiffness carbon composite armature suspension reduces problems associated with off-center loads when operating vertically. The ET-127 Shaker in this system is equipped with a degauss coil to ensure low stray magnetic field for sensitive applications. The modular air cooled PA-123 amplifier is direct coupled to the shaker to give the maximum performance at low and high frequencies. Digital meters display the system operating levels and complete shaker and user interlocks help protect the system from accidental abuse.

General Specifications

Sine force 500 lbs force pk
 Random force 350 lbf rms random
 Shock force 1,000 lbf pk shock

Frequency Range:

Horizontal, w/ Slip Table DC to 3000 Hz
 Vertical, no Slip Table DC to 4,500 Hz

Maximum Acceleration:

Horizontal, w/ Slip Table 26 g pk, bare table
 13 g pk, 20 lb. load
 6.3 g pk, 60 lb. load

Vertical, no Slip Table 100 g pk, bare table
 50 g pk, 5 lb. load
 11 g pk, 40 lb. load

Maximum Displacement:

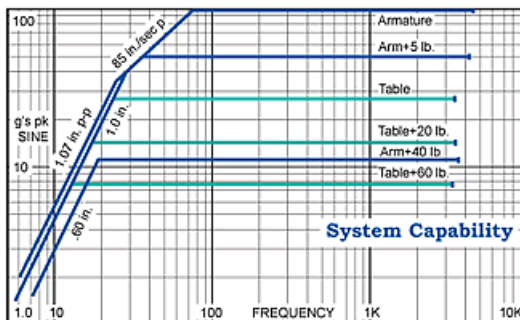
1.0 inch pk-pk, bare table

Cooling:

Amplifier: forced air
 Shaker: cooling vacuum

Power Requirements:

5,200 VA @ 100*, 110*, 200,
 220, or 240V, single phase
 50/60 Hz



System Options

- [VL-144/VL-145 Vibration Controller](#)
- [SC-121 Sine Servo Controller](#)
- [SG-135 Manual Sine Controller](#)
- [CS-123 Current Source Signal Conditioner](#)
- [LS-127 Armature Load Support/](#)
- [AI-127 Base Isolation](#)

System Components

- [ET-127 Electrodynamic Shaker](#)
- [DB-127 12 in.sq. Slip Table Base](#)
- [PA-123-3/2-500 Amplifier, Degauss & Field Supply](#)
- [CB-127 Cooling Vacuum](#)

Amplifier Cabinet

Interconnect Cables and Hoses



LS-127



AI-127

*Consult the factory for low line voltage operation details.



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