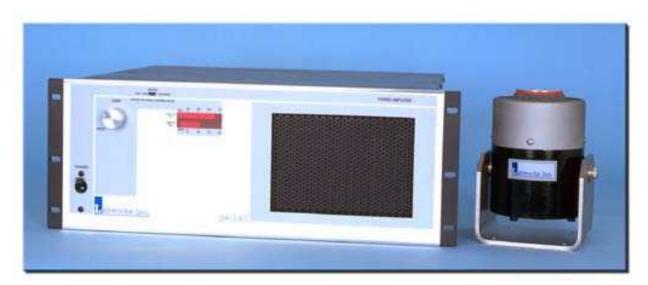
LW126.141-25 Vibration System



The LW126.141-25 system offers a combination of the maximum force available from the light-weight armature ET-126 shaker to yield the highest acceleration in our line. This system is perfectly suited for high acceleration testing of small transducers as well as electrical and mechanical assemblies. The ET-126 also satisfies high frequency requirements with operation up to 8,500 Hz. The combination of high acceleration, high frequency range as well as high force with good load carrying ability and desktop convenience, makes this the most universal vibration test system of its size.

General Specifications

Sine Force:

Random Force:

Shock Force:

Frequency Range:

Max. Acceleration:

25 lbs force pk

11 lbf rms random

27 lbf pk shock

DC to 8,500 Hz

125 g pk, bare table

62 g pk, 0.2 lb. load

62 g pk, 0.2 lb. load 21 g pk, 1 lb. load

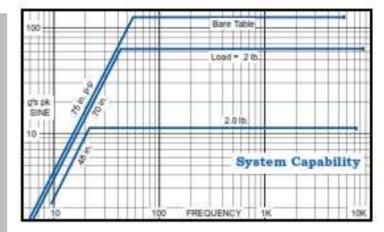
Max. Displacement: 0.75 inch pk-pk, bare table Cooling: Amplifier: forced air

Amplifier: forced air Shaker: cooling vacuum

Power Requirements: 3000 VA @100-125*, 200-240V

1Ø, 50/60 Hz.

*Consult factory for low line voltage operation.







Standard trunnion allows shaker operation in any position from vertical to horizontal. The PA-141 features switched 115 Vac power provided on the amplifier for shaker cooling and optional instrumentation.

System Components*

- ET-126-4 Electrodynamic Shaker
- PA-141 Linear Power Amplifier
- CB-152-126 Cooling Vacuum and Hose Assembly
- Interconnect Cables and Hoses

System Options*

- VL-144 2 Ch. Sine, Random and Shock Controller
- VL-145 1 Ch. Digital Controller
- SC-121 Sine Servo Controller
- SG-135 Manual Sine Controller
- Rack Cabinet
- *See individual components for more detailed specifications and options.

ET-126/ET-126HF Electrodynamic Shaker



- 25 pounds pk sine force
- .75 inch stroke
- 2.125 inch diameter table
- Payloads up to 3 lbs.
- Low stray magnetic field
- Frequency range₂ DC-10 KHz. DC-14 KHz(HF)
- **■** Trunnion mounting base
- Body and Trunnion Through hole

The Labworks ET-126 Electrodynamic Shaker is a rugged, full featured, small permanent magnet shaker. It is ideally suited for the production screening of small components or for larger transducer calibration systems. The shaker features a 2.125 inch diameter table with multiple attachment points, and an extraordinary 0.75 inch stroke. The ET-126 has a linearly compliant armature suspension that Is particularly well suited to modal testing with a current Source amplifier. The shaker body and trunnion through-hole allow operation with modal stingers as well as tension wire set ups. The HF version of the ET-126 offer full performane up to 14,000 Hz with operation up to 20,000 Hz at up to 7 lbf..

General Specifications

Performance

Sine force
Natural cooling
With blower
Random force
13 lbf pk
25 lbf pk

Natural coolling 8 lbf rms
With blower 17.5 lbf rms
Shock force 53 lbf pk

Max displacement
Continuous pk-pk
Detween stops
0.75 in
0.75 in

Maximum velocity 120 ips pk (100 ips pk / -HF)

Physical

Armature weight 0.20 lb (0.35 lb / -HF)

Suspension stiffness 15 lb/in

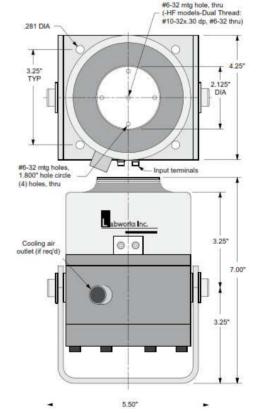
Dimensions 6.5" H x 4.8" W x 4.25" D

Shaker weight 11 lbs

Options

- Vibration isolation mounts.
- Modal stingers and mounts.
- CB-152 Cooling Vacuum (required for operation above 13 lbf).
- ¹ Please see systems ratings for additional specifications
- 2 Load dependent

Specifications subject to change.

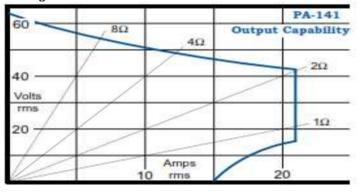


PA-141 Linear Power Amplifier



- Output: 50V, 1000 VA
- Direct coupled linear output
- Voltage and current source mode
- **■** External interlock circuitry
- Optional shaker field supplies

The Labworks PA-141 Linear Power Amplifier has two operational modes. The amplifier can be used as either a wide-band, highly damped voltage source, or as a high impedance current source. Optional, internal DC field power supplies can be supplied for use with Labworks ET-140 and ET-127 Shakers. These options provide the convenience of a single chassis, as well as fully integrated power-up and cooling interlocks.





General Specifications*

Output voltage 50 V rms
Output current 20 A rms
Max. cont. dissipation
Frequency response

DC input: DC to 10 KHz
AC input: 1.0 to 10 KHz
Ax. voltage gain
-.6 dB
36 dB

Cooling 2-speed fan, automatic

Input impedance $10 \text{ k}\Omega$

Volts, pk 19 segment \pm 5 % Amps, rms 19 segment \pm 5 %

Interlock circuit

External, user F.O. switch or TTL

Shaker, internal, optional cooling **Optional field power** 1000 W max

 Input power
 2000 VA (3000 w/field)

 Voltage
 208 or 230 Vac, 1Ø

 Frequency
 48 to 62 Hz

Dimensions 7" H x 19" W x 17" D

Veight 48 lbs

*Specifications subject to change. Call factory for latest specifications.

CB-152

Delux, Long Life, Quiet, Cooling Vacuum



Std:	LW140-110	Opt: ET-139
	LW139-75	ET-126
	LW126-25	ET-132
	LW160-60	ET-160
	LW161-25	ET-161

General Specifications

Suction (vacuum turbine) 35 cfm @ 30" H₂O Flow @ Pressure: Motor: 250 W, Brushless 115/230 Vac, 50 or 60 Hz (Specify) .75" and .63" dia. < 71 dB @ 1 M 7.5', flexible vacuum 30 lbs. Intake:

Noise Level: Hose Leveth: 7.5', flexible va Blower Weight: 30 lbs. Minimum Blower Life: > 25,000 Hrs Dimensions: 11H x 9.5W x 11L in.