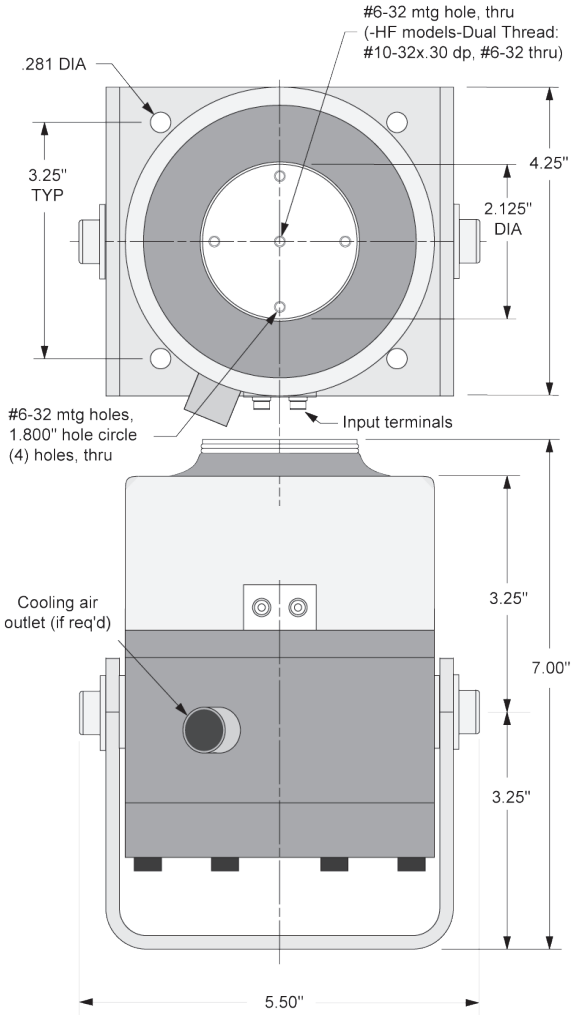
VR5200-HF

The VR5200-HF is a high performance system which incorporates a compact high frequency shaker. This system offers the maximum performance from the shaker without a cooling blower. Full system ratings are available up to 14,000Hz with reduced operation up to 20,000Hz. This system is used for both general purpose high frequency testing and transducer calibration requirements. A voltage-proportional-to-output-current output signal is provided for modal test and other applications requiring force monitoring. The larger mounting surface of the ET-126HF easily supports the calibration of most vibration transducers and smaller high frequency assemblies and components for general purpose testing not requiring high acceleration testing. The shaker can support relatively heavy loads and is perfectly matched to the amplifier, which makes this the most versatile system of its size.

VR5200-HF SYSTEM SPECIFICATIONS

Sine Force	13F-lb pk
Random Force	8F-lb rms
Shock Force	21F-lb pk
Frequency Range	DC to 14,000Hz
Max Acceleration	37g pk, bare table 24g pk, .2lb. load 9.6g pk, 1lb load
Max Velocity	106ips pk
Max Displacement	.75" pk-pk, bare table
Power Requirements	3,000VA @ 100*, 110*, 200, 220 or 240V, 1Ø, 50/60Hz *consult the factory for low line voltage operation details



SHAKER PARAMETERS

PHYSICAL

Armature weight	.35lb
Suspension stiffness	15lb/in
Dimensions	7"H x 4.8"W x 4.25"D
Shaker weight	11lbs
Stray magnetic field	Measured 1.0" above table: <15 gauss Measured .5" from body: <15 gauss
Fundamental resonance[1]	4,000 to 5,000Hz

LOAD DEPENDENT PERFORMANCE

Bare table	37g pk
2lbs Load	24g pk
10lbs Load	9.6g pk
Cooling	Natural convection

Power Amplifier

VR5200-HF SYSTEM OPTIONS

Modal stingers and mounts

Cooling blower (required for operation above 13lbf)

Rack cabinets

Vibration controllers

Accelerometers

The Linear Power Amplifier is a high quality, air-cooled, direct-coupled audio amplifier designed specifically for use with small vibration systems. Although this amplifier has been designed to directly drive low impedance loads, it can be used in any application requiring continuous duty, high quality, audio power. The amplifier features protection from both over current and over temperature insuring long term reliability. The amplifier has full interlock capabilities as well as peak voltage and RMS current bar graphs to monitor output. Two operational modes are incorporated into the design. This amplifier can be used as either a wide bank, highly damped voltage source, or as a high impedance current source. DC and AC coupled signals are provided. These amplifiers are designed for standard 19" rack-mounted installation and require 100, 120, 220 or 240V 48-60Hz power.

AMPLIFIER PARAMETERS

Output voltage	25V rms, 1000VA
Output current	20A rms
Max. continuous dissipation	450VA
Max voltage gain	34dB
Cooling	2-speed fan, automatic
Input impedance	10,000ohms
Meters	Volts pk: 19 segment +/-5% Amps rms: 19 segment +/-5%
Interlock circuit	External, user: F.O switch or TTL
Input power	1,000VA max Voltage: 100, 120, 220, 240V, 1Ø Frequency: 48-62Hz
Dimensions	3.5"H x 19"W x 13"D
Weight	24lbs