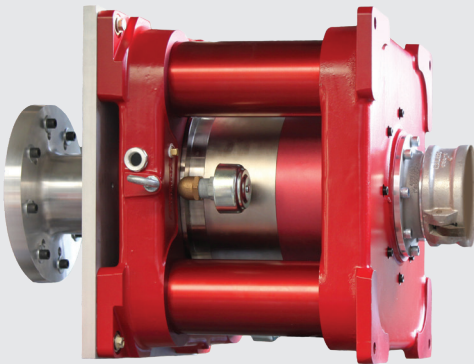
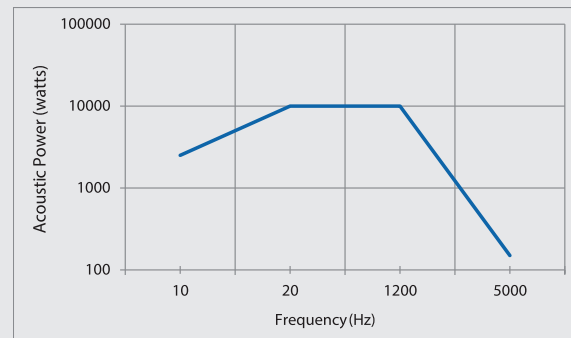


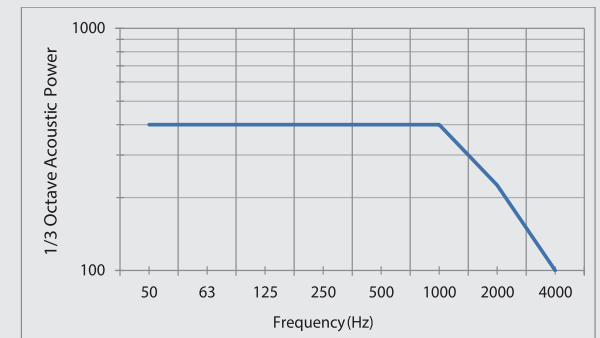
The SignalForce LE-APG-10K is offered as a complete turnkey system, including the acoustic transducer, a 10 KVA amplifier, field power supply, and a cooling unit. The LE-APG-10K is fully compatible with the Ling Electronics EPT-200, and is a direct replacement. The acoustic power generator is capable of generating sinusoidal acoustic energy, or noise according to the spectrum of the MIL-STD-810G acoustic profile. The LE-APG-10K is capable of full modulation up to 1,250 Hz, and the LE-APG-10K LF (low frequency version) is capable of modulation up to 300 Hz. Both models are rated for up to 10,000 acoustic watts.



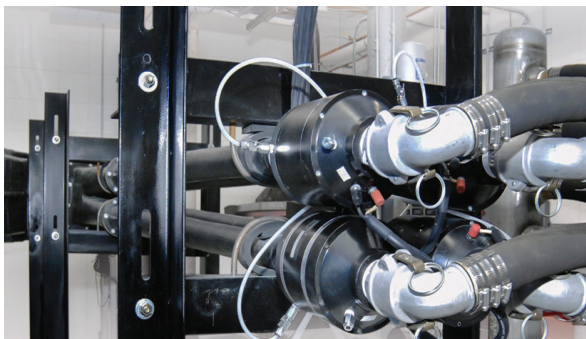
LE-APG-10K



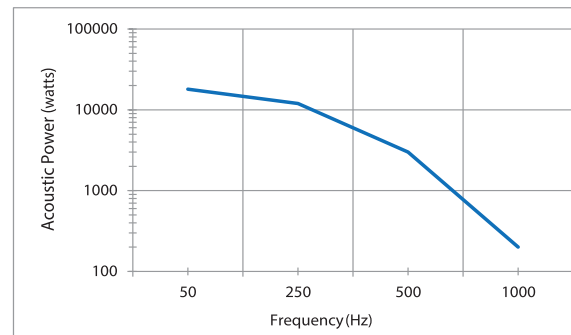
LE-APG-10K Sine Output Power Rating



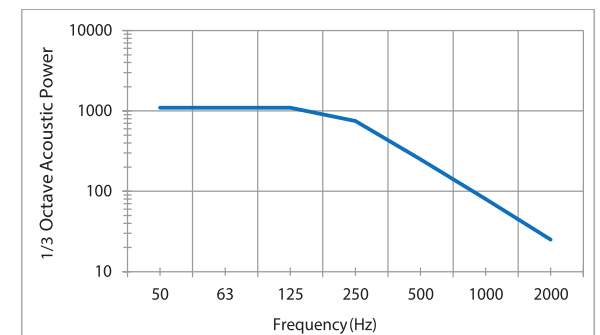
LE-APG-10K Random Rating (overall level=10,000 watts)



LE-APG-10K (LF)

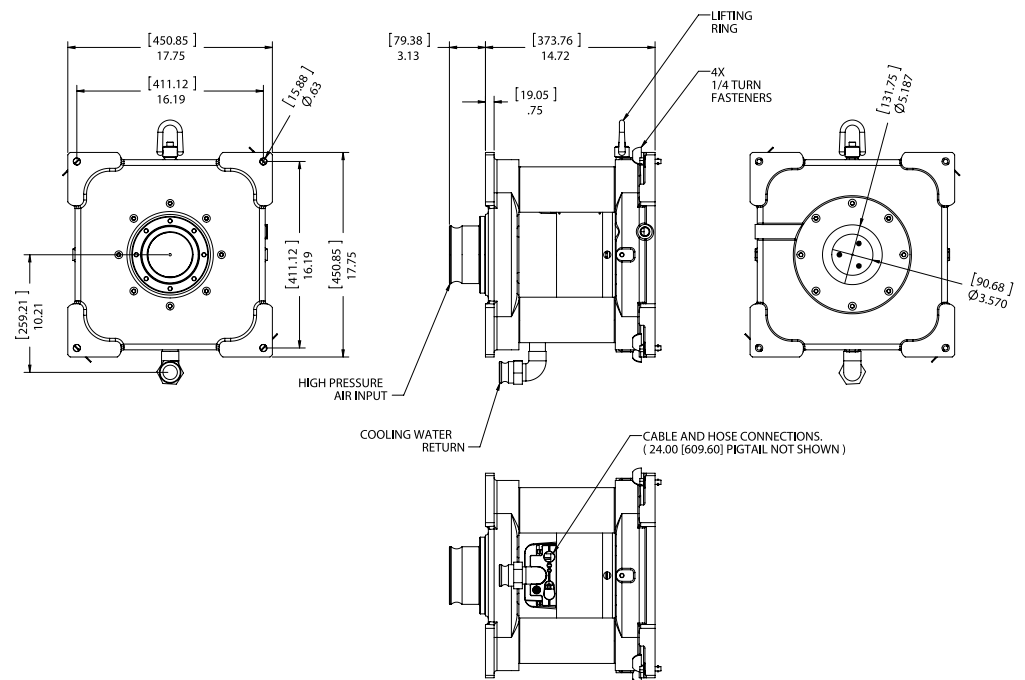
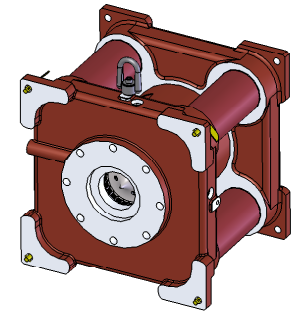
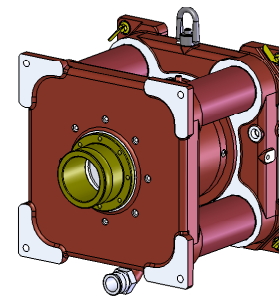


LE-APG-10K (LF) Sine Output Power Rating



LE-APG-10K (LF) Random Rating (overall level=10,000 watts)

Specifications	LE-APG-10K	LE-APG-10K (LF)
Acoustic Output	10,000 Watts	10,000 Watts
Max Frequency Modulation	1.25 kHz	300 Hz
Required Air Flow	1500 scfm (42.5 meter <sup>3</sup> /minute) at 36 psig (2.48 bar)	500 scfm (14.2 meter <sup>3</sup> /minute) at 40 psig (2.76 bar)
Air Input	4" Quick Disconnect	2" NPT Female
Monitor Port	1/4" NPT on Plenum	1/4" NPT on Plenum
Max Air Pressure	60 psig (4.14 bar)	60 psig (4.14 bar)
Air Filtration	25 micron (internal)	50 micron (internal)
Cooling System	External Water and Air System (Included and Interlocked with Amplifier)	Induction cooled using modulation air flow
Shipping Weight	200 lbs (91 kg)	36 lbs (16.3 kg)
Amplifier Requirements	DSA10/10k - 10 kW amplifier (includes field supply and cooling unit)	LE-LMT-100 Star 1.0 (1.0 kW solid state amplifier)



All drawings are in millimeters and [inches] unless otherwise noted. Dimensions are provided for evaluation purposes. Formal layout drawings can be provided for additional dimensions and dimension verification.

## DP 700 Series Acoustic Controller Specifications

### Control Parameters

Profile Type:	1/1 octave, 1/3 octave, narrowband
Frequency Range:	Selectable from 37 ranges, 20 Hz to 20 kHz
Narrowband Resolution:	800, 1600, 3200, and 6400 lines

### Input and Output Channels

Number of Outputs:	1 to 8
Number of Inputs:	4 to 32 per chassis
Input Types:	Control, Measurement

### Reference Profile

Definition:	1/1 octave, 1/3 octave, narrowband
Breakpoints:	Defined as level or slope
Alarm and Abort:	Limits defined in dB or % relative to reference

### Run Schedule

Number of Stages:	Unlimited
Stage Parameters:	Level (dB), Duration, Save, and Abort

### Signals for Display and Save

Control:	Control, Reference, Alarm, Abort, Drive
Limit:	Alarm, Abort, Profiles
Measurements:	Time, Narrowband (all active channels)
(all active channels)	Spectrum, 1/1 Octave, 1/3 Octave
Status Displays:	Elapsed and Remaining Time, Reference Level, Control Level, System, Status Messages, Channel Status

### Safety

Safety Checks:	Continuous measurement and detection of safety limits
Open Channel:	Open loop detection
SPL Limits:	High and low limits for alarm and abort
Spectral Limits:	High and low for alarm and abort, user defined limit on number of lines
Shutdown:	User defined rate
Drive Limit:	Output voltage limit

### Throughput to Disk (Optional)

Continuous throughput of time histories to local ABACUS throughput disk up to 100 kHz sample rate (200 kHz optional) on all channels during test.

