Crescendo 12MB

The Crescendo mid bass drivers are intended for use in two-way ported enclosures, such as the classic bass driver plus horn tweeter or compression driver format. All feature die cast chassis with long throw motor systems and high linearity suspensions allowing solid bass reproduction at high-power levels. The drivers exhibit smooth frequency responses to give a balanced tonal characteristic when properly matched to appropriate high-frequency drivers. The 12MB is designed for use in 25 to 80 litre ported enclosures and features a 2.5-inch voice coil, 300 Watt power handling and 97.5 dB sensitivity.

Electro Mechanical Specifications

Nominal Chassis Diameter	12 inch/305 mm
Impedance	8 Ω[1]
Power Handling	300 (A.E.S.)[2]
Maximum Output Continuous/Peak	119/125 dB
Power Compression at Rated Power	4 dB
Usable Frequency Range (-6 dB)	45 Hz-3.5 kHz
Average Sensitivity (in above range) 1 W/1 m	97.5 dB[3]
Resonance	50 Hz
Moving Mass inc. Air Load	55 grams
BL Product (Newtons/amp)	17.6
Minimum Impedance (Zmin)	7 Ω
Effective Piston Diameter	10.03 inch/255 mm
Flux Density	1.28 Tesla
Magnetic Gap Depth	0.31 inch/8 mm
Coil Winding Height	0.65 inch/16.6 mm
Voice Coil Length	63 feet/19.2 m
Magnet Weight	78 oz/2.2 kg
Maximum Cone Displacement	0.47 inch/12 mm
Peak Displacement Volume of Cone, Vd	0.440 litres
Voice Coil Diameter	2.5 inch/63.7 mm

Thiele & Small Parameters

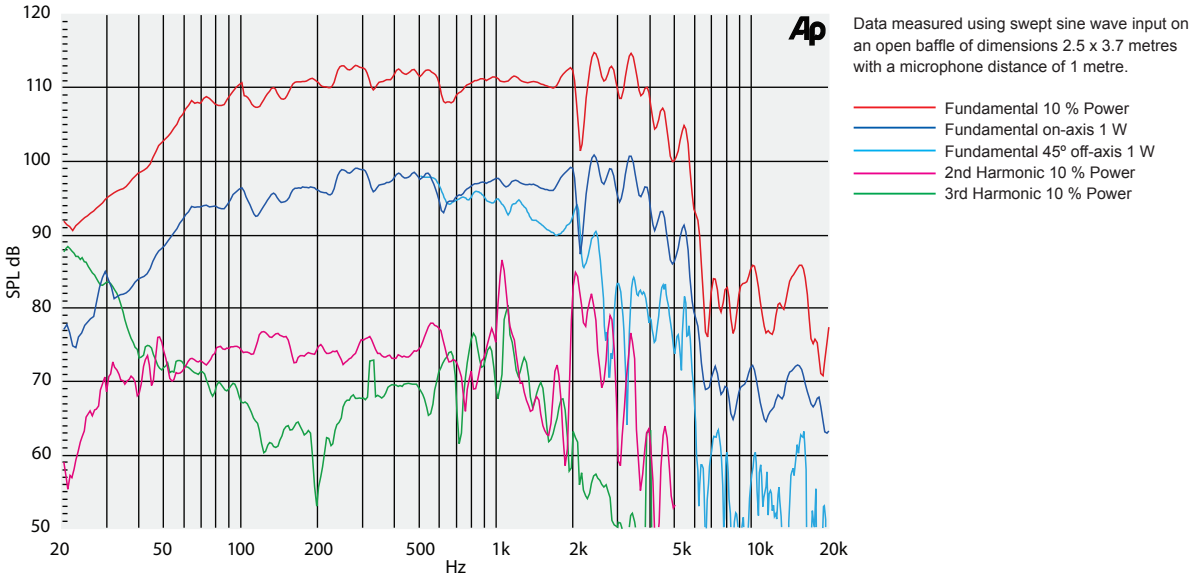
Resonant Frequency fs	50 Hz
D.C Resistance Re	5.6 Ω
Qts	0.295
Qes	0.314
Qms	4.8
Mms (grams)	55
Cms (microns per Newton)	184
BL Product	17.6 Tesla metres
Vas	67 litres
Reference Efficiency no	2.58 %
Piston Area Sd	0.051 m2
Xmax	4.3 mm

Mounting Information

Overall Diameter	13"/330.2 mm
Width Across Flats	12.19"/309.5 mm
Flange Thickness	0.305"/7.8 mm
Baffle Hole Diameter, Front Mount	11.03"/281 mm
Gasket Supplied	Rear
Fixing Holes	4 x 0.218" diam on 12.5 PCD 4 x 5.5 mm diam on 318 PCD
Depth	5.33"/135.5 mm
Weight	14.8 lb/6.7 kg
Recommended Enclosure Volume	0.88-2.83 cu ft/25-80 litres
Volume Displaced by Driver	0.095 cu ft/2.7 litres
Shipping Weight	17.0 lb/7.7 kg
Packing Carton Dimensions	340 x 340 x 222 mm

FANE INTERNATIONAL LTD.
Sovereign House
Gilcar Way
Wakefield Europort
Castleford WF10 5QS
England
TEL +44 (0) 1924 224618
FAX +44 (0) 1924 899166
info@fane-international.com
www.fane-international.com

Frequency Response Data



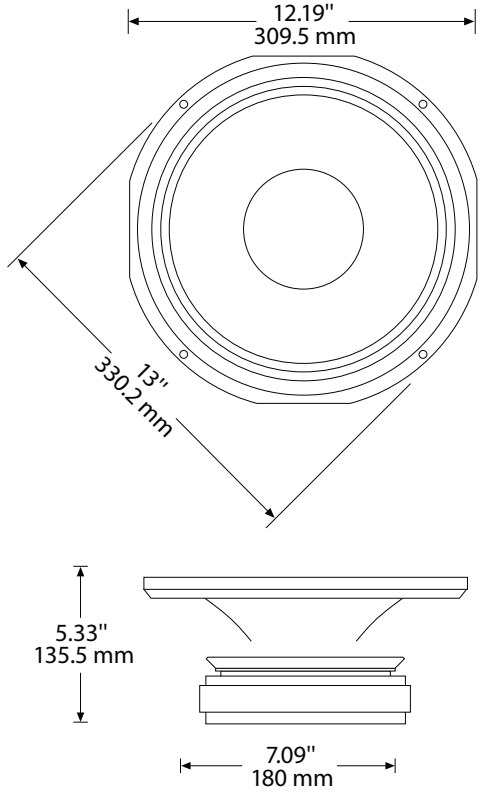
1 Please inquire about alternative impedances.

2 A.E.S. power handling test. Pink noise bandpass filtered at 12 db per octave with cutoff frequencies of 30 Hz and 300 Hz. Driver mounted in free air, test signal applied at rated power for two hours.

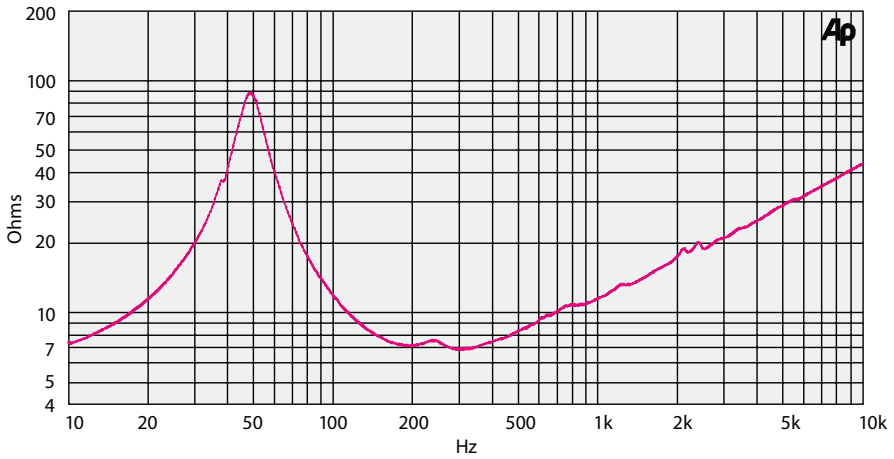
3 The average output across the usable frequency range when applying 1 W/1 m into the nominal impedance. Ie: 2.83 V/8 ohms, 4 V/16 ohms.
Fane response curves are measured under the following conditions: All speakers are tested at 1 W/1 m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1 m from wall/baffle | 2 ft. X 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges).

Materials of Construction

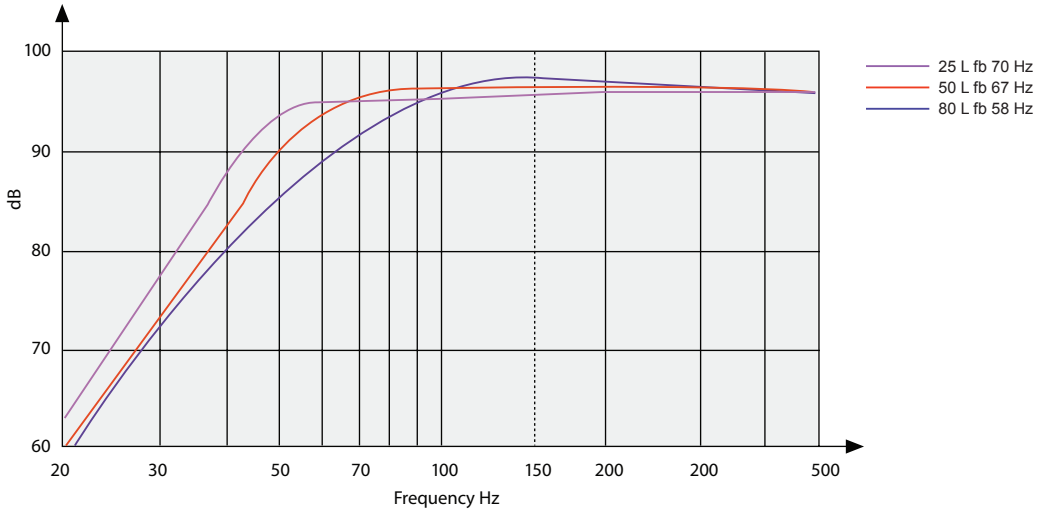
Coil Former	Fibreglass
Voice Coil	Copper
Magnet Material	Ferrite
Chassis	Die Cast Aluminium
Cone	Curvilinear Paper
Surround/Edge Termination	Polyvinyl Damped Half Roll Linen
Dust Dome	Solid Paper
Connectors	Push-button Spring Terminals
Polarity	Positive Voltage at Red Terminal Causes Forward Motion of Cone



Impedance



Computer Predicted Bass Response



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FANE INTERNATIONAL LTD.
Sovereign House Gilcar Way, Wakefield Europort Castleford WF10 5QS, England
TEL +44 (0) 1924 224618 FAX +44 (0) 1924 899166 info@fane-international.com www.fane-international.com