



((AE))
ACOUSTIC ENERGY

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REFERENCE LOUDSPEAKER – MODEL AE3

THE AE3 IS A HIGH POWER, THREE-WAY LOUDSPEAKER FEATURING “**METAL-CONE**” LOW-FREQUENCY AND MID-RANGE DRIVE UNITS.

THE WELL PROVEN 130mm (5”) “**METAL-CONE**” DRIVE UNIT, AS USED IN THE AE1, HAS BEEN FURTHER DEVELOPED AND IS USED IN THE AE3 IN A MID-RANGE FORM IN A HEAVILY DAMPED TUBULAR TRANSMISSION LINE ENCLOSURE WITHIN THE MAIN ENCLOSURE.

THE AE3 ALSO FEATURES THE ALL NEW 200mm (8”) “**METAL-CONE**” LOW-FREQUENCY DRIVE UNIT WHICH PROVIDES UNSURPASSED BASS EXTENSION AND POWER FOR ITS SIZE.

THE AE3 HAS THE POWER AND SCALE OF MUCH LARGER SPEAKERS BUT RETAINS THE DYNAMICS, TRANSPARENCY, SPEED AND DETAIL OF THE AE1.

“**METAL-CONE**” TECHNOLOGY IS PROTECTED BY EUROPEAN PATENT APPLICATION NO. 87310904.5 UNITED STATES PATENT APPLICATION NO. 133,020. WORLD PATENTS PENDING.

FREQUENCY RESPONSE 25Hz – 30KHz

1.	ON AXIS OF HF @ 1 METER ON AXIS OF MF @ 1 METER	55Hz – 17KHz \pm 2.5dB 55Hz – 17KHz \pm 2.0dB
2.	OFF AXIS OF HF \pm 30° HORIZONTAL @ 1 METER	55Hz – 14KHz \pm 3dB
3.	OFF AXIS OF HF + 15° VERTICAL @ 1 METER	55Hz – 17KHz \pm 3dB
4.	OFF AXIS OF HF - 15° VERTICAL @ 1 METER	55Hz – 16KHz \pm 2dB

SENSITIVITY 87dB (REF: 1 WATT INTO 8 OHMS = 2.83 VOLTS RMS INPUT)

IMPEDANCE MINIMUM 4 OHMS AT 110Hz – TYPICALLY 6 OHMS

TOTAL HARMONIC DISTORTION TYPICALLY 0.3% (RANGE 200Hz – 20KHz)

POWER COMPRESSION FACTOR NOT MEASURABLE BELOW 100 WATTS POWER INPUT FROM BAND LIMITED PINK NOISE 63Hz – 20KHz

POWER HANDLING FOR USE WITH AMPLIFIERS UP TO 250 WATTS RMS

CROSSOVER 3 WAY SYSTEM. CROSSOVER FREQUENCIES 300Hz AND 3KHz. 18/24 dB PER OCTAVE FILTER SLOPES. 32 ELEMENT – ALL COILS LOW DCR (IRON DUST CORE OR AIR CORE) ALL CAPACITORS LOW LOSS ELECTROLYTIC OR POLYESTER.

LF UNIT 40mm EDGEWOUND RIBBON COPPER VOICE COIL ON HIGH THERMAL CONDUCTIVITY FORMER THERMALLY COUPLED TO TRI-LAYER ULTRA HARD ALLOY 160mm DIAPHRAGM. MAX LINEAR ELECTRICAL PEAK TO PEAK EXCURSION – 10mm. MAX MECHANICAL PEAK TO PEAK EXCURSION – 20mm.

MF UNIT 32mm EDGEWOUND RIBBON COPPER PLATED ALUMINIUM VOICE COIL ON HIGH THERMAL CONDUCTIVITY FORMER THERMALLY COUPLED TO TRI-LAYER ULTRA HARD ALLOY 90mm DIAPHRAGM. HIGH GAUSS, LOW VISCOSITY FERROFLUID DAMPED AND COOLED.

HF UNIT 25mm EDGEWOUND RIBBON COPPER PLATED ALUMINIUM VOICE COIL THERMALLY COUPLED TO MAGNESIUM ALLOY 25mm DIAPHRAGM. FERROFLUID DAMPED AND COOLED. DAMPED REAR CHAMBER LOADED.

CONNECTORS 3 SETS 4mm BINDING POSTS FOR TRI-WIRING.

CABINET PRECISION ENGINEERED MDF ENCLOSURE WITH BONDED HIGH DENSITY LINING FINISHED IN BLACK TEXTURE, SUPPLIED WITH REMOVABLE FRONT GRILLE.

WEIGHT 33Kg (EACH) **DIMENSIONS** 275mm W x 385mm D x 640mm H

CARTON DIMENSIONS (EACH) 520mm x 400mm x 760mm **CARTON WEIGHT (EACH)** 36.5 Kg