

Acoustic Energy

MODEL 1

THE AE1 IS A HIGH POWER, COMPACT, TWO-WAY LOUDSPEAKER FEATURING THE NEW PATENTED "METAL CONE" BASS/MID-RANGE DRIVE UNIT

THE "METAL-CONE" DRIVE UNIT IS A BREAKTHROUGH IN DIAPHRAGM TECHNOLOGY AND PROVIDES UNEQUALLED MID-BAND CLARITY, REMARKABLE TRANSPARENCY AND STEREO IMAGING DUE TO THE ALMOST COMPLETE ELIMINATION OF DISTORTION.

THE SINGLE MOST IMPORTANT ELEMENT OF A SPEAKER IS THE DIAPHRAGM AND THE UNIQUE DESIGN OF THE ACOUSTIC ENERGY "METAL-CONE" ALSO PROVIDES EXCEPTIONAL POWER HANDLING AND DURABILITY.

"METAL-CONE" TECHNOLOGY IS PROTECTED BY EUROPEAN PATENT APPLICATION NO.87310904.5. UNITED STATES PAT. APP. NO. 133,020. WORLD PATENTS PENDING.

FREQUENCY RESPONSE 35Hz — 30 KHz

- ON AXIS @ 50 cms:
80Hz - 17KHz \pm 1.5dB, 70Hz - 22KHz \pm 3dB, 55Hz - 30KHz \pm 4dB
- OFF AXIS \pm 30° HORIZONTAL @ 50 cms:
80Hz - 16KHz \pm 2.5dB, 70Hz - 17KHz \pm 3.0dB, 70Hz - 19KHz \pm 4.0dB
- OFF AXIS + 30° VERTICAL @ 50 cms:
80Hz - 16KHz \pm 1.5dB, 70Hz - 22KHz \pm 3dB
- OFF AXIS - 30° VERTICAL @ 50 cms:
90Hz - 15KHz \pm 2dB, 75Hz - 20KHz \pm 3dB

SENSITIVITY 2.83 VOLTS RMS PRODUCES 88dB SPL @ 1 METER

IMPEDANCE MINIMUM 8 OHMS @ 250Hz MAX 40 OHMS @ 30Hz

HARMONIC DISTORTION	AT 90 dB - 50 cms	2nd HARMONIC	—	LESS THAN 0.1%
		3rd HARMONIC	—	LESS THAN 0.01%
	AT 98 dB - 50 cms	2nd HARMONIC	—	LESS THAN 0.1%
		3rd HARMONIC	—	LESS THAN 0.02%

POWER COMPRESSION FACTOR LESS THAN 1dB AT MINIMUM IMPEDANCE (200Hz) WITH AN INCREASE OF 16dB, (1 WATT: 40 WATTS RATIO). FREQUENCY RESPONSE WITHIN \pm 0.5dB AT 40 WATTS, (REF TO 1 WATT INPUT).

POWER HANDLING FOR USE WITH AMPLIFIERS UP TO 200 WATTS RMS ON PROGRAM.

CROSSOVER 2 WAY SYSTEM, CROSSOVER FREQUENCY, 3.0KHz 3rd ORDER BUTTERWORTH 18dB PER OCTAVE. 13 ELEMENT ALL COILS LOW DCR (LF IRON DUST CORE, HF AIR CORE) ALL CAPACITORS LOW LOSS POLYESTER.

LF UNIT 32mm EDGEWOUND RIBBON COPPER VOICE COIL. THERMALLY COUPLED TO TRI-LAYER ULTRA HARD ALLOY 90mm DIAPHRAGM. MAX ELECTRICAL PEAK TO PEAK EXCURSION — 8mm. MAX MECHANICAL PEAK TO PEAK EXCURSION — 20mm.

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 4mm BINDING POSTS

CABINET PRECISION ENGINEERED ENCLOSURE WITH BONDED HIGH DENSITY LINING SUPPLIED WITH REMOVABLE FRONT GRILLE.

FINISH TEXTURED BLACK

WEIGHT 8Kg (EACH) **DIMENSIONS** 180mm W x 255mm D x 295mm H

CARTON DIMENSIONS (PAIR) 482 x 382 x 333 **CARTON WEIGHT** 17Kg

Acoustic Energy **MODEL 2**

THE AE2 IS A HIGH POWER, COMPACT, TWO-WAY LOUDSPEAKER FEATURING THE NEW PATENTED "METAL CONE" BASS/MID-RANGE DRIVE UNIT

THE "METAL-CONE" DRIVE UNIT IS A BREAKTHROUGH IN DIAPHRAGM TECHNOLOGY AND PROVIDES UNEQUALLED MID-BAND CLARITY, REMARKABLE TRANSPARENCY AND STEREO IMAGING DUE TO THE ALMOST COMPLETE ELIMINATION OF DISTORTION.

THE USE OF TWO BASS/MID RANGE DRIVE UNITS IN THE AE2 GIVES FURTHER BASS EXTENSION WHILST RETAINING THE SPEED AND CONTROL OF THE UNIQUE "METAL-CONE."

THE SINGLE MOST IMPORTANT ELEMENT OF A SPEAKER IS THE DIAPHRAGM AND THE UNIQUE DESIGN OF THE ACOUSTIC ENERGY "METAL-CONE" ALSO PROVIDES EXCEPTIONAL POWER HANDLING AND DURABILITY.

"METAL-CONE" TECHNOLOGY IS PROTECTED BY EUROPEAN PATENT APPLICATION NO.87310904.5. UNITED STATES PAT. APP. NO. 133,020. WORLD PATENTS PENDING.

FREQUENCY RESPONSE 25Hz — 30KHz

1. ON AXIS @ 1 METRE
65Hz - 18KHz \pm 2.5dB, 50Hz - 22KHz \pm 4dB,
2. OFF AXIS \pm 15° HORIZONTAL @ 1 METRE
60Hz - 18KHz \pm 3dB,
3. OFF AXIS \pm 15° VERTICAL @ 1 METRE
60Hz - 18KHz \pm 3dB.

SENSITIVITY 2.83 VOLTS RMS PRODUCES 91dB SPL @ 1 METER

IMPEDANCE MINIMUM 5.5 OHMS @ 50Hz and 250Hz MAX 16 OHMS @ 27Hz

HARMONIC DISTORTION	AT 90 dB - 1 METRE	2nd HARMONIC	—	LESS THAN 0.05%
		3rd HARMONIC	—	LESS THAN 0.05%
	AT 100dB - 1 METRE	2nd HARMONIC	—	LESS THAN 0.1%
		3rd HARMONIC	—	LESS THAN 0.1%

POWER COMPRESSION FACTOR LESS THAN 1dB AT MINIMUM IMPEDANCE (250Hz) WITH AN INCREASE OF 16dB, (1 WATT: 40 WATTS RATIO). FREQUENCY RESPONSE WITHIN \pm 0.5dB AT 1, VOLTS RMS (REF TO 2.83 V RMS INPUT).

POWER HANDLING FOR USE WITH AMPLIFIERS UP TO 250 WATTS RMS ON PROGRAM.

CROSSOVER 2 WAY SYSTEM, CROSSOVER FREQUENCY, 3.0KHz 4TH ORDER 24dB PER OCTAVE. 10 ELEMENT ALL COILS LOW DCR (LF IRON DUST CORE, HF AIR CORE) ALL CAPACITORS LOW LOSS POLYESTER.

INTERNAL WIRING ALL CONNECTIONS VIA 24 STRAND 0.4mm DIA. SOLID-CORE, OXYGEN-FREE COPPER, SILVER PLATED INDIVIDUALLY INSULATED CONDUCTORS. ALL CONNECTIONS SILVER SOLDERED.

LF UNIT x 2 32mm EDGEWOUND RIBBON COPPER VOICE COIL. THERMALLY COUPLED TO TRI-LAYER ULTRA HARD ALLOY 90mm DIAPHRAGM. MAX ELECTRICAL PEAK TO PEAK EXCURSION — 8mm. MAX MECHANICAL PEAK TO PEAK EXCURSION — 20mm.

HF UNIT x 1 25mm EDGEWOUND RIBBON COPPER PLATED ALUMINIUM VOICE COIL THERMALLY COUPLED TO MAGNESIUM ALLOY 25mm DIAPHRAGM. FERROFLUID DAMPED AND COOLED, DAMPED REAR CHAMBER LOADED.

CONNECTORS 2 SETS 4mm BINDING POSTS FOR BI-WIRING

CABINET PRECISION ENGINEERED ENCLOSURE WITH BONDED HIGH DENSITY LINING SUPPLIED WITH REMOVABLE FRONT GRILLE. FINISH — TEXTURED BLACK.

WEIGHT 17Kg (EACH)

DIMENSIONS 235mm W x 330mm D x 385mm H

CARTON DIMENSIONS (PAIR) 640mm x 510mm x 460mm

CARTON WEIGHT 35Kgs

EXCLUSIVE CANADIAN DISTRIBUTORS



SHINON