

artec 8.....artec series



FEATURES

- » 2-way vented loudspeaker system
- » 8" cone speaker
- » 1" compression driver with constant directivity horn
- » 150 W power handling

SPECIFICATIONS

RMS (Average) Power Handling^R:	150 W
Program Power Handling^P:	300 W
Peak Power Handling^K:	600 W
On-axis Frequency Range:	64 Hz - 22 kHz
Nominal Impedance:	8 Ω
Minimum Impedance:	7.6 Ω (at 237 Hz)
On-axis Sensitivity 1W / 1 m:	91 dB SPL
Rated Peak SPL at Full Power:	119 dB
Nominal -6 dB Beamwidths:	80° Horizontal x 80° Vertical
Enclosure Material:	Wisa® Birch Plywood
Finish:	Black Paint
Transducers/Replacement Parts:	LF: 8 B/8 B HF: M-1/M-1
Connector:	2 paralleled NL4 Speakon, wired to ±1
Dimensions (H x W x D):	45 x 25.3 x 29 cm 17.7 x 9.9 x 11.4 in
Weight:	7.9 kg (17.4 lb)
Accessories (optional):	ANL-2 TRD-2 TRD-4 AXU-AT25/AXU-AT25W (White) AXW-1/AXW-1W (White)

INTRODUCTION

The D.A.S. Artec 8 is a 2-way vented loudspeaker system designed for applications covering speech reinforcement and program reproduction.

DESCRIPTION

The low end utilizes a high efficiency 8" low frequency speaker with 1.5" voice coil.

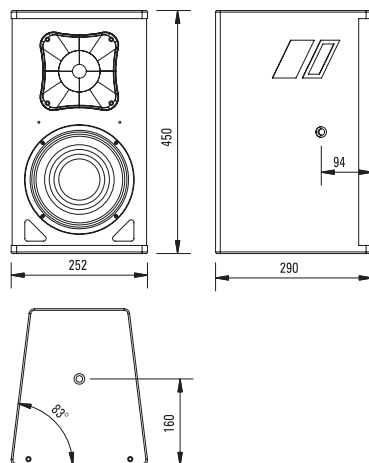
The high end makes use of a 1" annular diaphragm compression driver, coupled to a 80° x 80° horn.

The enclosure is manufactured from Wisa® Birch plywood and is finished with a durable black paint. The trapezoidal enclosure has 10 degree side angles for easier arraying.

The unit has a robust grille design internally lined with acoustically transparent filter cloth to protect the loudspeaker components. The covering is resistant to wear and tear, provides protection from dust and dirt.

4 integrated rigging points that accept 10M forged steel eyebolts or "U" bracket make suspension in either the horizontal or vertical positions safe and simple.

Optional 50W/100 W line transformers are available for use in 70 V/100 V distributed systems.



ALL DIMENSIONS IN MILLIMETERS

^R Based on a 2 hour test using a 6 dB crest factor pink noise signal bandlimited according to IEC 268-1 (1985). All power ratings are referred to the nominal impedance.

^P Conventionally 3 dB higher than the RMS measure, although this already utilizes a program signal.

^K Corresponds to the signal crests for the test described in ^P.

FREQUENCY RESPONSE

Figure 1 shows the frequency response at 1 m of a unit radiating to a half space anechoic environment and driven by a 1 W (2.83 V) swept sine signal, and impedance curve.

DISTORTION

Figure 2 shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves for a unit driven at 10% of its nominal power handling rating.

DIRECTIVITY

Figure 3 shows normalized horizontal isobar plot.

Figure 4 shows normalized vertical isobar plot.

POLAR RESPONSE

Figure 5 shows the 1/3 octave band horizontal (left) and vertical (right) polars for the indicated frequencies. Full scale is 30 dB, 6 dB per division.

