

# artec 25.....artec.....series



## FEATURES

- » 2-way vented loudspeaker system
- » 2 x 5" cone speaker
- » 1" compression driver with constant directivity horn
- » 150 W power handling

## SPECIFICATIONS

<b>RMS (Average) Power Handling<sup>R</sup>:</b>	150 W
<b>Program Power Handling<sup>P</sup>:</b>	300 W
<b>Peak Power Handling<sup>K</sup>:</b>	600 W
<b>On-axis Frequency Range:</b>	75 Hz - 22 kHz
<b>Nominal Impedance:</b>	16/8 Ω
<b>Minimum Impedance:</b>	8.7 Ω (at 20 kHz) / 9.3 Ω (at 11 kHz)
<b>On-axis Sensitivity 1W / 1 m:</b>	92 dB SPL
<b>Rated Peak SPL at Full Power:</b>	120 dB
<b>Nominal -6 dB Beamwidths:</b>	80° Horizontal x 80° Vertical
<b>Enclosure Material:</b>	Wisa® Birch Plywood
<b>Finish:</b>	Black Paint
<b>Transducers/Replacement Parts:</b>	LF: 2 x 5 B/5 B HF: M-1/M-1
<b>Connector:</b>	2 paralleled NL4 Speakon, wired to ±1
<b>Dimensions (H x W x D):</b>	45 x 17.5 x 23.5 cm 17.7 x 6.9 x 9.3 in
<b>Weight:</b>	7 kg (15.4 lb)
<b>Accessories (optional):</b>	ANL-2 TRD-2 TRD-4 AXU-AT25/AXU-AT25W (White) AXW-1/AXW-1W (White)

## INTRODUCTION

The D.A.S. Artec 25 is a 2-way vented loudspeaker system designed for applications covering speech reinforcement and program reproduction.

## DESCRIPTION

The low end utilizes two high efficiency 5" low frequency speaker with 1" voice coil.

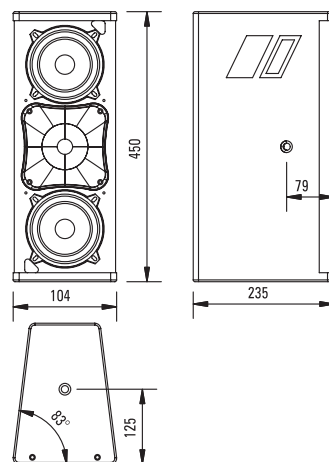
The high end makes use of a 1" annular diaphragm compression driver, coupled to a 80° x 80° horn.

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

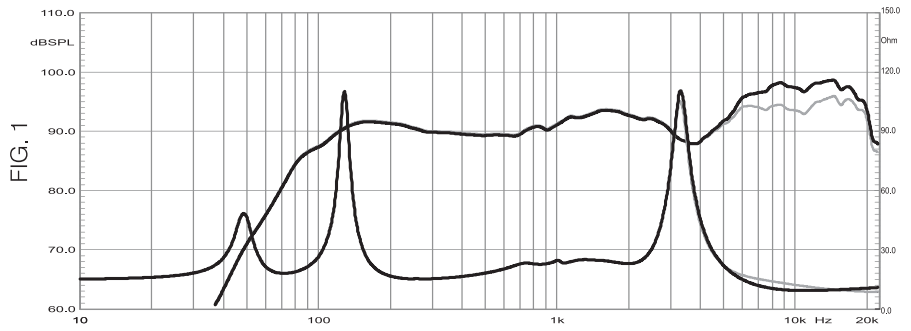
<sup>R</sup> Based on a 2 hour test using a 6 dB crest factor pink noise signal bandlimited according to IEC 268-1 (1985). All power ratings are referred to the nominal impedance.

<sup>P</sup> Conventionally 3 dB higher than the RMS measure, although this already utilizes a program signal.

<sup>K</sup> Corresponds to the signal crests for the test described in<sup>R</sup>.

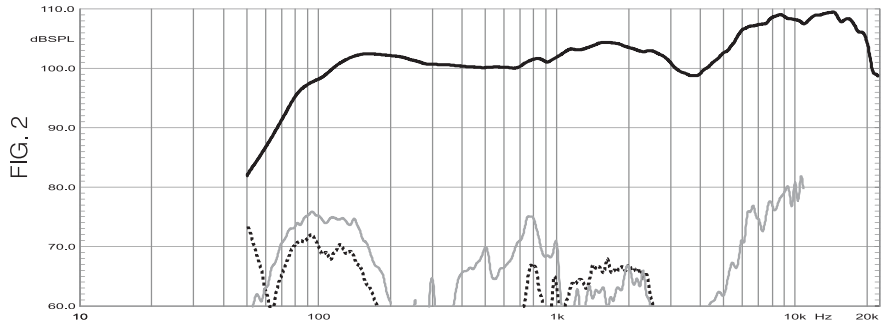
**FREQUENCY RESPONSE**

Figure 1 shows the frequency responses at 1 m of a unit radiating to a half space anechoic environment and driven by a 1 W (4 V) swept sine signal, and impedance curves. Black 8 ohms, grey 16 ohms.



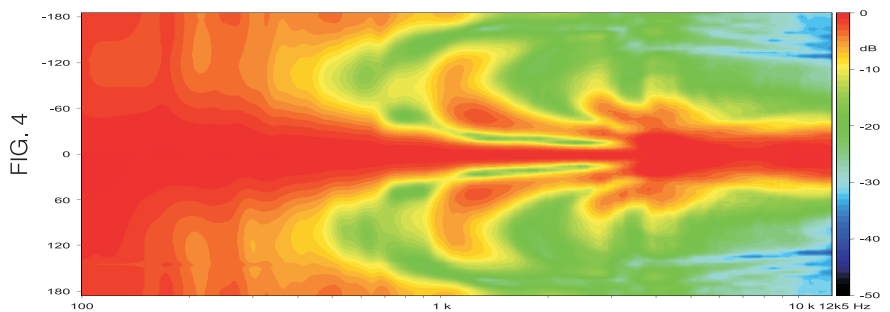
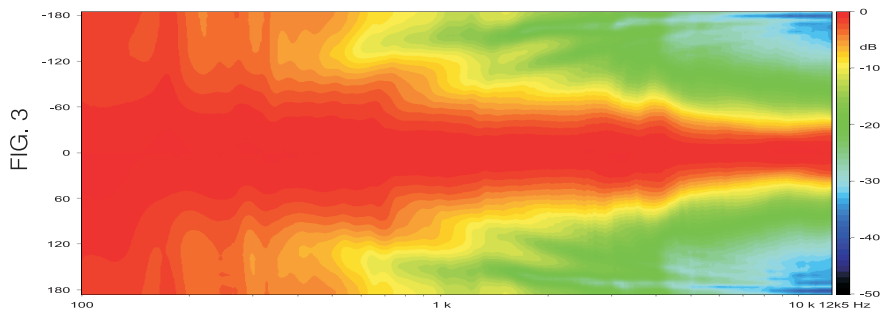
**DISTORTION**

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.

NOTES. 1.Frequency response: referred to 1 m; low end obtained through the use of near field techniques; one-third octave smoothed for correlation with human hearing. 5.Polars were acquired by placing the unit on a computer controlled turntable inside our anechoic chamber. Measurement distance was 4 m.

Product improvement through research and development is a continuous process at D.A.S. Audio. All specifications subject to change without notice.

