

# Arco 4/Arco 4T ARCO series



## FEATURES

- » 2-way vented loudspeaker system
- » 4" cone speaker
- » 19 mm neodymium dome tweeter
- » 100 W program power handling

## SPECIFICATIONS

<b>RMS (Average) Power Handling<sup>R</sup>:</b>	50 W
<b>Program Power Handling<sup>P</sup>:</b>	100 W
<b>Peak Power Handling<sup>K</sup>:</b>	200 W
<b>On-axis Frequency Range:</b>	72 Hz - 22 kHz
<b>Nominal Impedance:</b>	8 Ω
<b>Transformer Taps 100V:</b>	5 W , 10 W, 15 W
<b>70V:</b>	2.5 W , 5 W, 7.5 W
<b>On-axis Sensitivity 1W / 1 m:</b>	86 dB SPL
<b>Rated Peak SPL at Full Power:</b>	109 dB
<b>Nominal -6 dB Beamwidths:</b>	90° Horizontal x 90° Vertical
<b>Enclosure Material:</b>	High Impact ABS
<b>Color/Finish:</b>	Black or White
<b>Transducers/Replacement Parts:</b>	LF: 4G/4G HF: TWT-4/TWT-4
<b>Connector:</b>	Spring-Loaded Terminals
<b>Dimensions (H x W x D):</b>	21 x 14 x 14 cm 8.7 x 5.5 x 5.5 in
<b>Weight:</b>	1.6 kg (3.5 lb)
<b>Accessories (optional):</b>	AX-4RM (Included) AXU-AC4 AXA-AC

## INTRODUCTION

The D.A.S. Arco 4 is a 2-way vented loudspeaker system designed for background/foreground music and paging applications that is both compact in size and light in weight.

## DESCRIPTION

The low end utilizes a 4" woofer with weather resistant polypropylene cone and 1" voice coil.

The high end makes use of a 19 mm neodymium dome tweeter for brilliant highs.

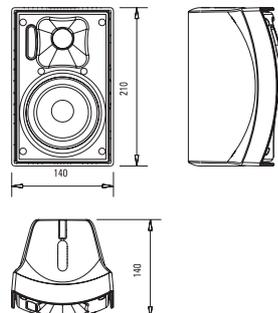
The high impact ABS enclosure is paintable and UV resistant.

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

A full-bandwidth overload safety circuit protects the speakers from damage.

Cabinets are equipped with 4 M6 rigging points and a safety cable attachment point.

Arco 4T version is equipped with factory-installed multi-tap transformer.



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 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**

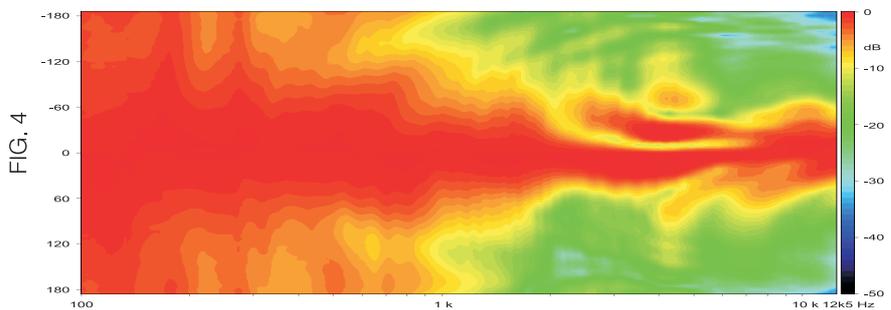
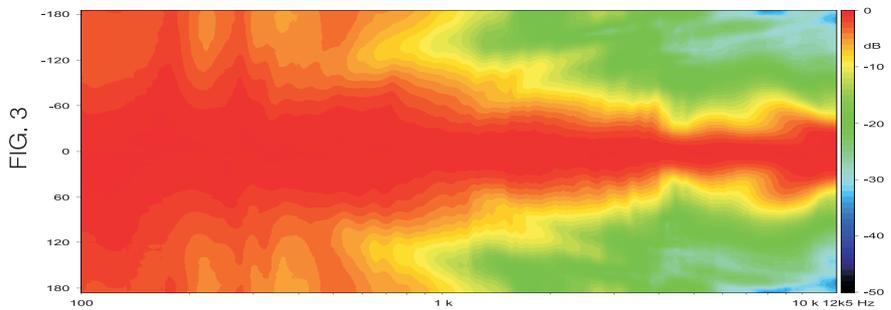
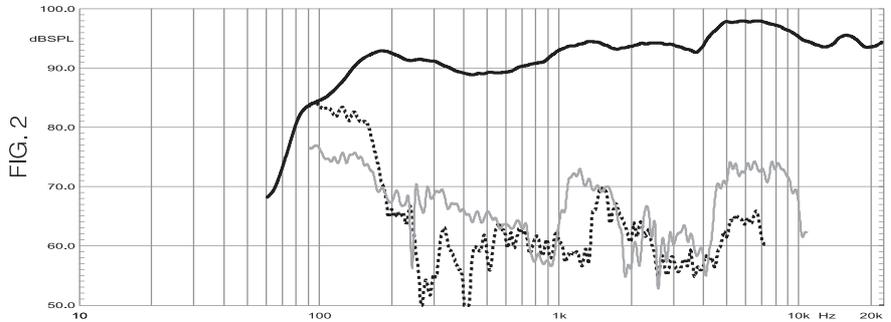
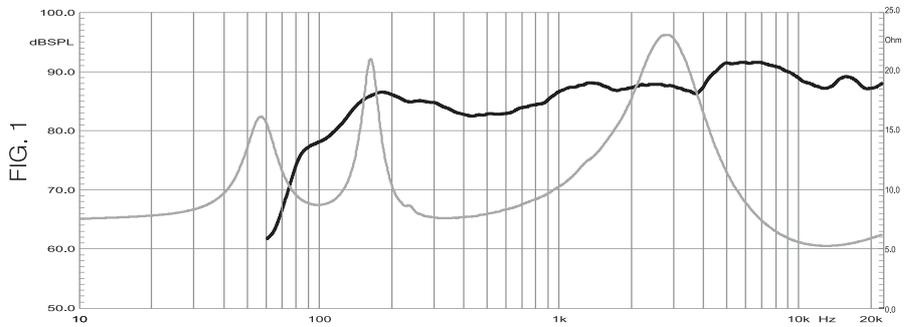
Figure 2 shows the Second Harmonic Distortion (grey) and Third Harmonic Distortion (dotted) curves (rised 20 dB for clarity) for a unit driven at 10% of its nominal power handling rating.

**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.

