Sub-18H Reference series

Introduction

The D.A.S. Sub-18H is a bass-reflex sub-woofer system for use in active systems where bass reinforcement is required.

Description

The unit utilizes a high efficiency 18" low frequency speaker with 4" voice coil configured as a direct radiator. Pole piece, side slot and direct convection cooling provide high power handling and low power compression.

The enclosure is manufactured from Wisa® Birch plywood and is finished with a durable black paint that permits color adaptations and provides weather resistance. 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.

The top panel contains a standard 35 mm diameter pole mount socket for use with metal posts for mounting full-range D.A.S. systems above the SUB-18H sub-woofer unit.

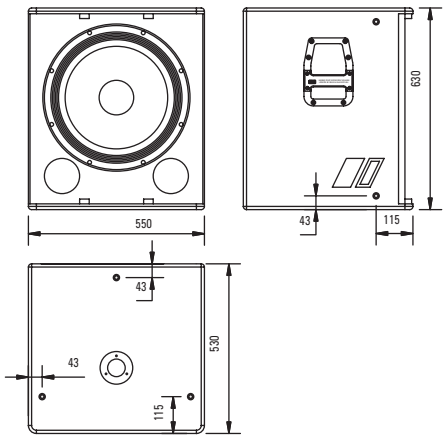
12 integrated rigging points that accept 10M forged steel eyebolts make suspension in either the horizontal or vertical positions safe and simple.

Features

- **Direct radiator sub-woofer**
- **18" low frequency speaker**
- **600 W power handling**

Specifications

RMS (Average) Power Handling[R]:	600 W
Program Power Handling[P]:	1200 W
Peak Power Handling[K]:	2400 W
On-axis Frequency Range:	35 Hz - 160 Hz
Nominal Impedance:	8 Ω
Minimum Impedance:	7.6 Ω (at 33 Hz)
On-axis Sensitivity 1W / 1 m:	98 dB SPL
Rated Peak SPL at Full Power:	132 dB
Enclosure Material:	Wisa® Birch Plywood
Finish:	Black Paint
Transducers/Replacement Parts:	LF: 18 H/GM 18G
Connector:	2 paralleled NL4 Speakon, wired to ±1
Dimensions (H x W x D):	63 x 55 x 53 cm 24.8 x 21.7 x 20.8 in
Weight:	35 kg (77 lb)
Accessories (optional):	ANL-2 TRD-4



ALL DIMENSIONS IN MILIMETERS

[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[R].

D.A.S. SOUND PRODUCTS

Sub-18H

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; DSP-26 processed response (dotted) and impedance curve (grey).

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.

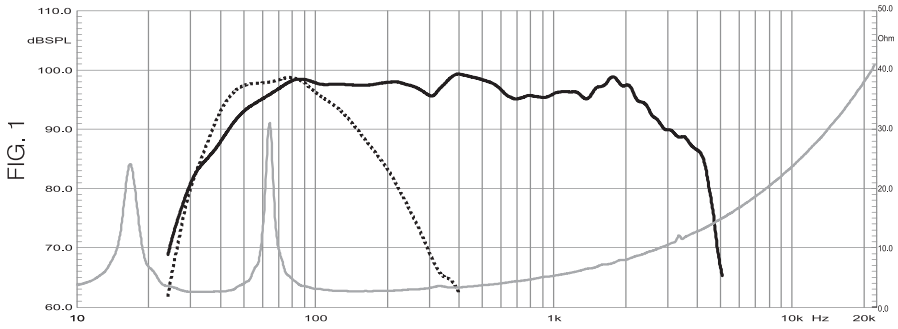


FIG. 1

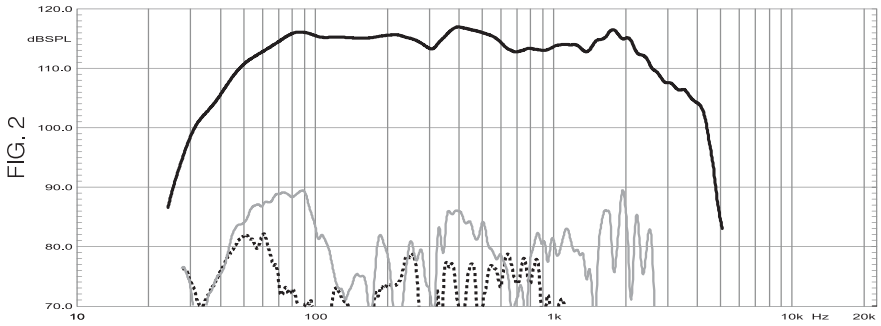


FIG. 2

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.

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