

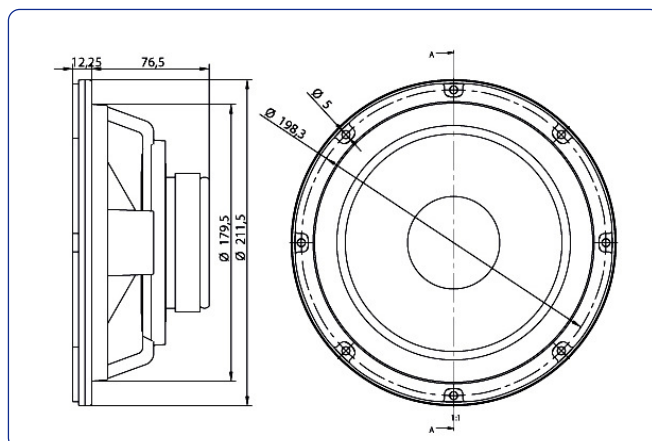
#### KEY FEATURES

- 50 w RMS power handling.
- Sensitivity: 90 dB @ 1w @ 1m.
- 1" voice coil.
- Extended controlled displacement:  $X_{max} \pm 6$  mm
- Low frequency driver

#### TECHNICAL SPECIFICATIONS

Nominal diameter	200mm. 8 in.
Rated impedance	8 ohms
Minimum impedance	8.3 ohms
Power capacity*	50 w RMS
Program power	100 w
Sensitivity	90 dB 2.83v @ 1m @ $2\pi$
Frequency range	30 - 6500 Hz
Recom. enclosure vol.	20 / 50 l 0.7 / 1.77 ft. <sup>3</sup>
Voice coil diameter	25.8 mm. 1 in.
Magnetic assembly weight	1 kg. 2.2 lb.
BL factor	7.0 N / A
Moving mass	0.02 kg.
Voice coil length	15 mm
Air gap height	6 mm
X damage (peak to peak)	20 mm

#### DIMENSION DRAWINGS



#### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	35 Hz
D.C. Voice coil resistance, $R_e$	5.8 ohms
Mechanical Quality Factor, $Q_{ms}$	2.72
Electrical Quality Factor, $Q_{es}$	0.62
Total Quality Factor, $Q_{ts}$	0.50
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	59 l
Mechanical Compliance, $C_{ms}$	858.3 $\mu\text{m} / \text{N}$
Mechanical Resistance, $R_{ms}$	1.95 kg / s
Efficiency, $\eta_o$ (%)	0.39
Effective Surface Area, $S_d$ (m <sup>2</sup> )	0.022 m <sup>2</sup>
Maximum Displacement, $X_{max}^{***}$	4.5 mm
Displacement Volume, $V_d$	100 cm <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1 kHz	0.9 mH

#### MOUNTING INFORMATION

Overall diameter	211.5 mm. 8 in.
Bolt circle diameter	198.3 mm. 7.8 in.
Baffle cutout diameter:	
- Front mount	179.5 mm. 7.06 in.
- Rear mount	182.5 mm. 7.44 in.
Depth	76.5 mm. 3.01 in.
Volume displaced by driver	1.5 l. 0.056 ft. <sup>3</sup>
Net weight	1.3 kg. 2.93 lb.
Shipping weight	1.5 kg. 3.37 lb.

#### Notes:

\*The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

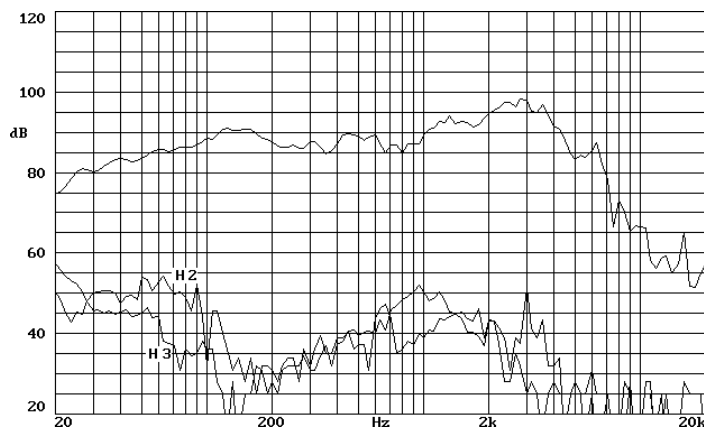
\*\*T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\*The  $X_{max}$  is calculated as  $(L_{vc} - Hag)/2 + Hag/3.5$ , where  $L_{vc}$  is the voice coil length and  $Hag$  is the air gap height.

#### FREE AIR IMPEDANCE CURVE



#### FREQUENCY RESPONSE AND DISTORTION



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w @ 1m.