

KEY FEATURES

- 1400 W program power.
- High sensitivity: 100 dB @ 2,83 V @ 1 m
- FEA optimized magnetic circuit.
- Designed with MMSS technology for high control, linearity and low harmonic distortion.
- CONEX spider for higher resistance and consistency.
- Waterproof treatment for both sides of the cone.
- 4" DUO double layer inner/outer voice coil.
- Extended controlled displacement: $X_{max} \pm 7,4$ mm
- Extended mechanical displacement capability: $X_{damage} \pm 52$ mm

TECHNICAL SPECIFICATIONS

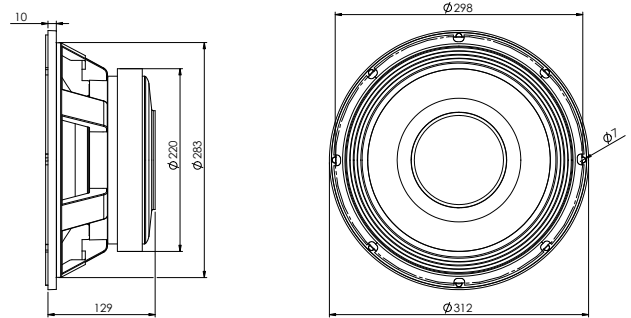
Nominal diameter	300 mm	12 in
Rated impedance		8 Ω
Minimum impedance		7,1 Ω
Power capacity*		700 W _{AES}
Program power		1.400 W
Sensitivity	100 dB	2,83v @ 1m @ 2 π
Frequency range		25 - 4.000 Hz
Recom. enclosure vol.	20 / 60 l	0,7 / 2,24 ft ³
Voice coil diameter	100 mm	4 in
Magnetic assembly weight	9,8 kg	21,61 lb
BI factor		23,1 N/A
Moving mass		0,066 kg
Voice coil length		20 mm
Air gap height		12 mm
X_{damage} (peak to peak)		52 mm

THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	46 Hz
D.C. Voice coil resistance, R_e	5,2 Ω
Mechanical Quality Factor, Q_{ms}	10,14
Electrical Quality Factor, Q_{es}	0,189
Total Quality Factor, Q_{ts}	0,185
Equivalent Air Volume to C_{ms} , V_{as}	75,55 l
Mechanical Compliance, C_{ms}	178 μ m / N
Mechanical Resistance, R_{ms}	1,9 kg / s
Efficiency, η_0	3,78 %
Effective Surface Area, S_d	0,055 m ²
Maximum Displacement, X_{max} ***	7,4 mm
Displacement Volume, V_d	413 cm ³
Voice Coil Inductance, L_e @ 1 kHz	1,5 mH



DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter	312 mm	12,28 in
Bolt circle diameter	298 mm	11,73 in
Baffle cutout diameter:		
- Front mount	282,5 mm	11,12 in
- Rear mount	280 mm	11,1 in
Depth	132 mm	5,2 in
Volume displaced by driver	4 l	0,14 ft ³
Net weight	11,8 kg	26,01 lb
Shipping weight	12,5 kg	27,56 lb

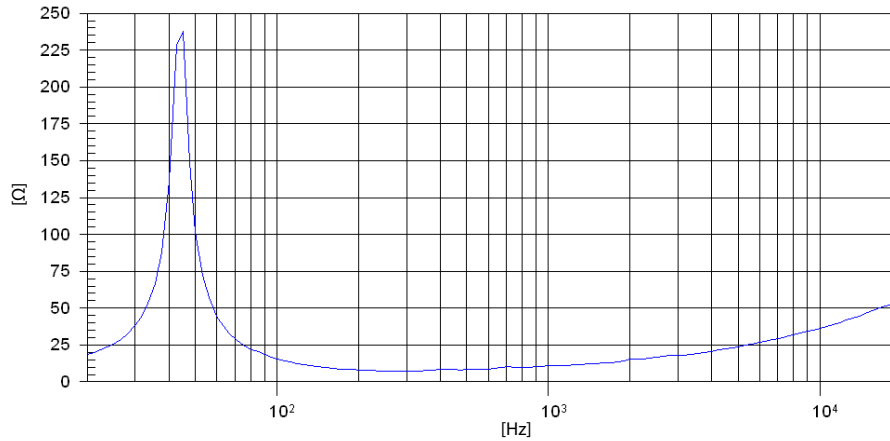
Notes:

* 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.

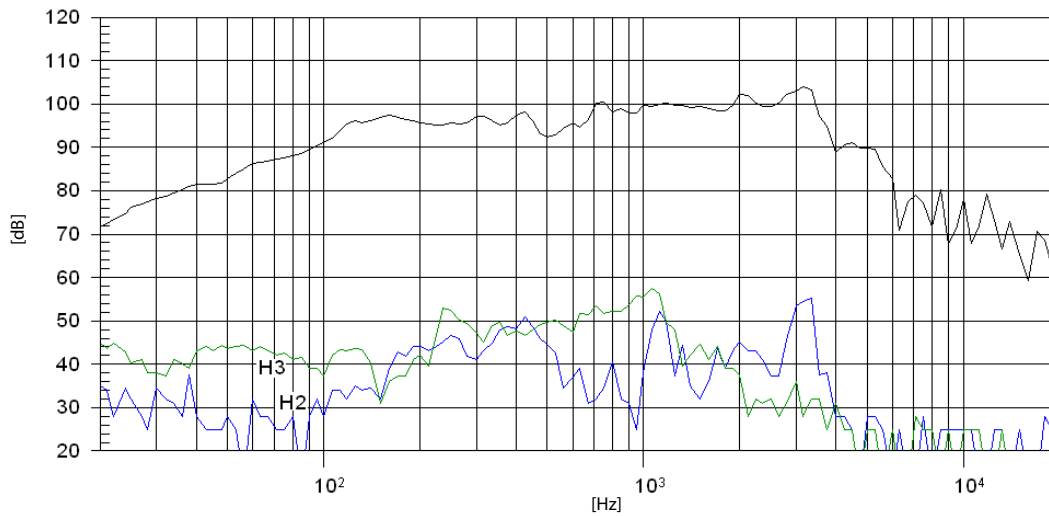
** T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

*** The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$, where L_{vc} is the voice coil length and H_{ag} 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