

KEY FEATURES

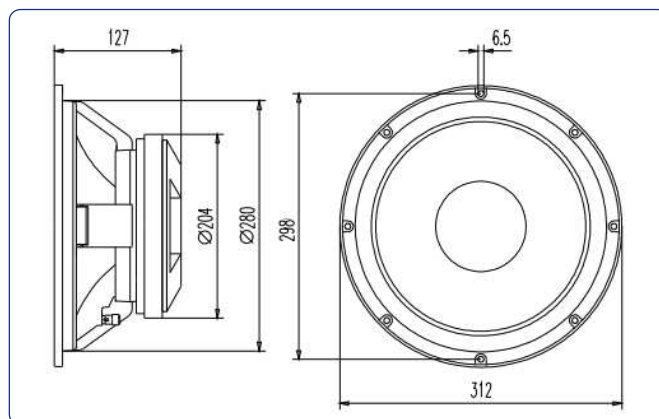
- Excellent power handling (500 W_{RMS})
- High sensitivity (91 dB)
- Designed for subwoofer applications

TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance		4 Ω
Power capacity*	500 W _{RMS}	
Program power		1.000 W
Sensitivity	91 dB @ 1W @ Z _N	
Frequency range		45 - 1.500 Hz
Voice coil diameter	101,6 mm	4 in
Bl factor		20,9 N/A
Moving mass		0,170 kg
Voice coil length		25 mm
Air gap height		10 mm



DIMENSION DRAWINGS

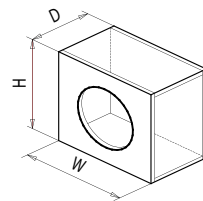


THIELE-SMALL PARAMETERS**

Resonant frequency, f_s	45 Hz
D.C. Voice coil resistance, R_e	3,7 Ω
Mechanical Quality Factor, Q_{ms}	4,8
Electrical Quality Factor, Q_{es}	0,41
Total Quality Factor, Q_{ts}	0,38
Equivalent Air Volume to C_{ms} , V_{as}	31,6 l
Mechanical Compliance, C_{ms}	74 μm / N
Mechanical Resistance, R_{ms}	10 kg / s
Efficiency, η_0	0,7 %
Effective Surface Area, S_d	0,055 m ²
Maximum Displacement, X_{max} ***	10 mm
Displacement Volume, V_d	550 cm ³
Voice Coil Inductance, L_e	1,0 mH

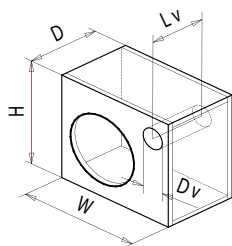
CLOSED BOX

Volume	35 l	1,24 ft ³
Height	420 mm	16,54 in
Width	490 mm	19,29 in
Depth	240 mm	9,45 in
Wall thickness	19 mm	0,75 in



VENTED BOX

Volume	35 l	1,24 ft ³
Height	420 mm	16,54 in
Width	490 mm	19,29 in
Depth	240 mm	9,45 in
Wall thickness	19 mm	0,75 in
N° of vents		1
D_v	100 mm	3,94 in
L_v	201 mm	7,91 in



Notes:

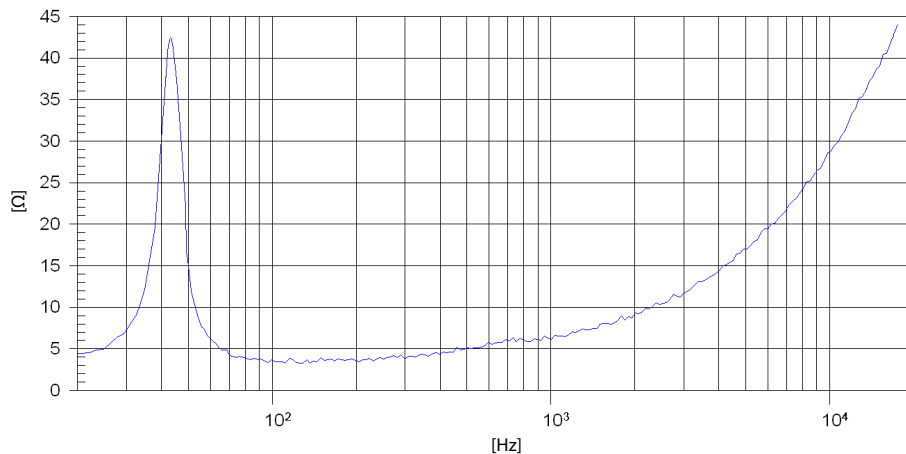
* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

** 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).

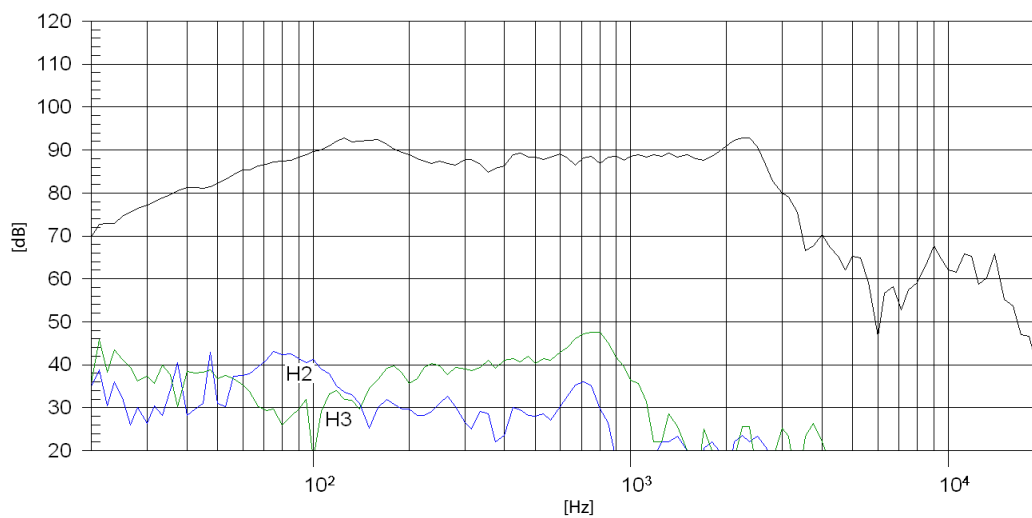
*** The X_{max} is calculated as $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$, where L_{vc} is the voice coil length and H_{ag} is the air gap height.

Drawings dimensions are referred to the external dimensions.

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