

KEY FEATURES

- 15" coaxial with 4" voice coil woofer and 2,85" voice coil compression driver
- Program power: 800 / 160 W_{AES} (LF / HF)
- Sensitivity: 98 dB LF and 105 dB HF
- Common ferrite magnet system design
- Demodulating rings in both LF and HF units
- Composite titanium / mylar diaphragm
- Waterproof LF cone
- 60° coverage horn for HF dispersion control

TECHNICAL SPECIFICATIONS

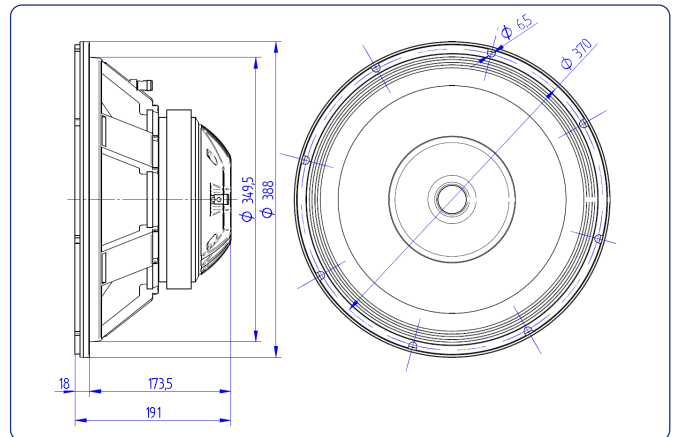
Nominal diameter	380 mm	15 in
Rated impedance (LF/HF)	8 / 16 Ω	
Minimum impedance (LF/HF)	6,3 / 11,3 Ω	
Power capacity* (LF/HF)	400 / 80 W _{AES}	
Program power (LF/HF)	800 / 160 W	
Sensitivity (LF/HF**)	98 dB 1W @ Z _N	
	105 dB 1W @ Z _N	
Frequency range	35 - 20.000 Hz	
Recom. HF crossover	1,5 kHz or higher	(12 dB/oct min slope)
Voice coil diameter (LF/HF)	101,6 mm	4 in
	72,2 mm	2,87 in
BL factor	18,2	N/A
Moving mass	0,090 kg	
Voice coil length	16 mm	
Air gap height	10 mm	
X_{damage} (peak to peak)	51 mm	

THIELE-SMALL PARAMETERS***

Resonant frequency, f_s	40 Hz
D.C. Voice coil resistance, R_e	6,3Ω
Mechanical Quality Factor, Q_{ms}	16,4
Electrical Quality Factor, Q_{es}	0,43
Total Quality Factor, Q_{ts}	0,42
Equivalent Air Volume to C_{ms}, V_{as}	191 l
Mechanical Compliance, C_{ms}	175 μm / N
Mechanical Resistance, R_{ms}	1,38 kg / s
Efficiency, η₀	2,75 %
Effective Surface Area, S_d	0,088 m ²
Maximum Displacement, X_{max} ****	6 mm
Displacement Volume, V_d	350 cm ³
Voice Coil Inductance, L_e @ 1 kHz	0,95 mH



DIMENSION DRAWINGS



MOUNTING INFORMATION

Overall diameter	388 mm	15,28 in
Bolt circle diameter	370 mm	14,57 in
Baffle cutout diameter:		
- Front mount	349,5 mm	13,76 in
Depth	185 mm	7,3 in
Volume displaced by driver	7 l	0,25 ft ³
Net weight	11,9 kg	26,2 lb
Shipping weight	12,4 kg	27,3 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.

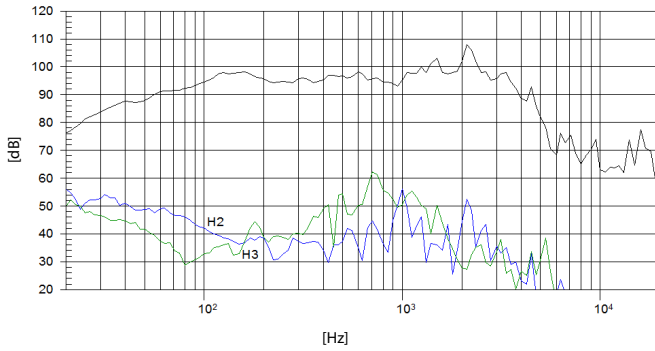
** Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 1 - 7 kHz.

*** 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).

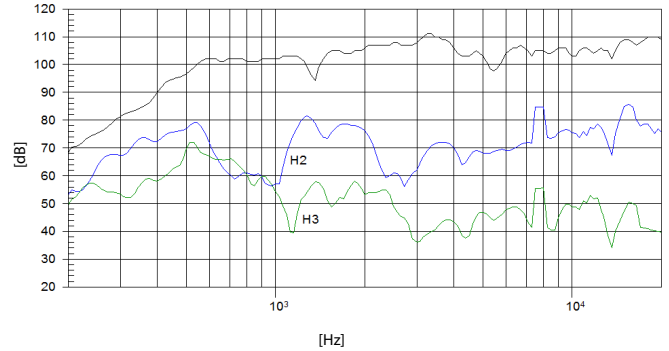
**** The X_{max} is calculated as (L_{vc} - H_{ag})/2 + (H_{ag}/3,5), where L_{vc} is the voice coil length and H_{ag} is the air gap height.

FREQUENCY RESPONSE AND DISTORTION

LOW FREQUENCY RESPONSE

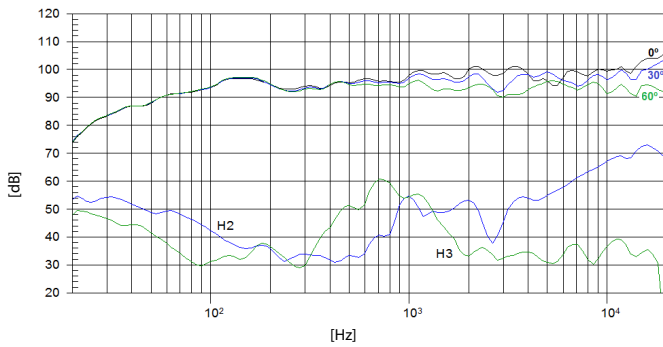


HIGH FREQUENCY RESPONSE



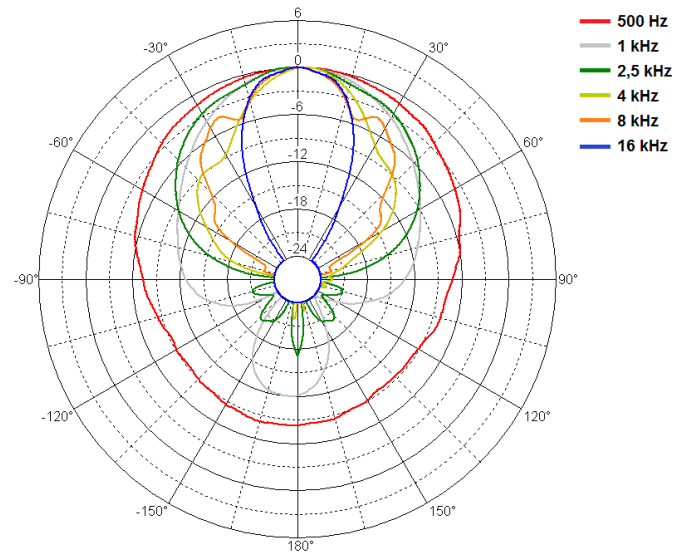
Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

FILTERED FREQUENCY RESPONSE



Note: Filtered frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m with FD-2XA

POLAR PATTERN



FREE AIR IMPEDANCE CURVE

