

### KEY FEATURES

- 12" coaxial with 4" voice coil woofer and 2,85" voice coil compression driver
- Program power: 800 / 160 W<sub>AES</sub> (LF / HF)
- Sensitivity: 96 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

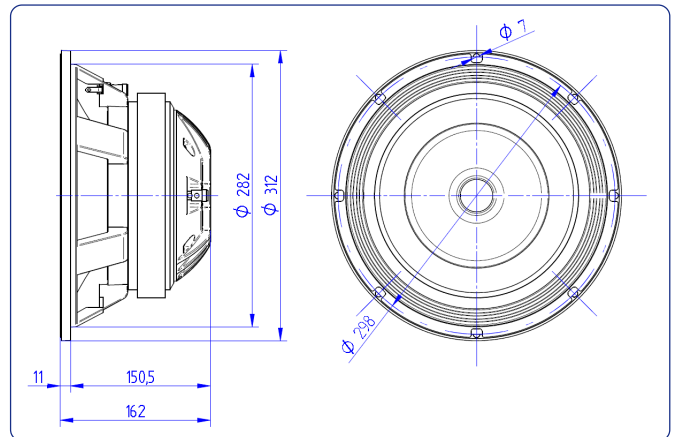
<b>Nominal diameter</b>	300 mm	12 in
<b>Rated impedance</b> (LF/HF)	8 / 16 Ω	
<b>Minimum impedance</b> (LF/HF)	6,2 / 12,2 Ω	
<b>Power capacity*</b> (LF/HF)	400 / 80 W <sub>AES</sub>	
<b>Program power</b> (LF/HF)	800 / 160 W	
<b>Sensitivity</b> (LF/HF**)	96 dB 1W @ Z <sub>N</sub>	
	105 dB 1W @ Z <sub>N</sub>	
<b>Frequency range</b>	35 - 20.000 Hz	
<b>Recom. HF crossover</b>	1,5 kHz or higher	(12 dB/oct min slope)
<b>Voice coil diameter</b> (LF/HF)	101,6 mm	4 in
	72,2 mm	2,87 in
<b>BL factor</b>	18,75	N/A
<b>Moving mass</b>	0,052 kg	
<b>Voice coil length</b>	16 mm	
<b>Air gap height</b>	10 mm	
<b>X<sub>damage</sub></b> (peak to peak)	51 mm	

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

<b>Resonant frequency, f<sub>s</sub></b>	42 Hz
<b>D.C. Voice coil resistance, R<sub>e</sub></b>	6,6 Ω
<b>Mechanical Quality Factor, Q<sub>ms</sub></b>	7,20
<b>Electrical Quality Factor, Q<sub>es</sub></b>	0,26
<b>Total Quality Factor, Q<sub>ts</sub></b>	0,24
<b>Equivalent Air Volume to C<sub>ms</sub>, V<sub>as</sub></b>	119 l
<b>Mechanical Compliance, C<sub>ms</sub></b>	279 μm / N
<b>Mechanical Resistance, R<sub>ms</sub></b>	1,90 kg / s
<b>Efficiency, η<sub>0</sub></b>	3,3 %
<b>Effective Surface Area, S<sub>d</sub></b>	0,055 m <sup>2</sup>
<b>Maximum Displacement, X<sub>max</sub></b> ****	6 mm
<b>Displacement Volume, V<sub>d</sub></b>	210 cm <sup>3</sup>
<b>Voice Coil Inductance, L<sub>e</sub> @ 1 kHz</b>	1,1 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

<b>Overall diameter</b>	311,7 mm	12,27 in
<b>Bolt circle diameter</b>	298 mm	11,73 in
<b>Baffle cutout diameter:</b>		
- Front mount	282,6 mm	11,13 in
<b>Depth</b>	165 mm	6,5 in
<b>Volume displaced by driver</b>	6,5 l	0,23 ft <sup>3</sup>
<b>Net weight</b>	11,3 kg	24,9 lb
<b>Shipping weight</b>	11,7 kg	25,8 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.

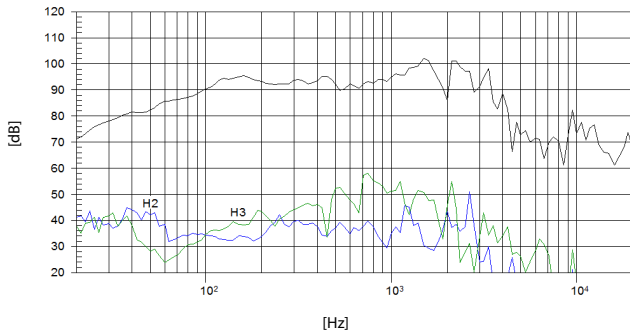
\*\* Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 1 - 7 kHz.

\*\*\* 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).

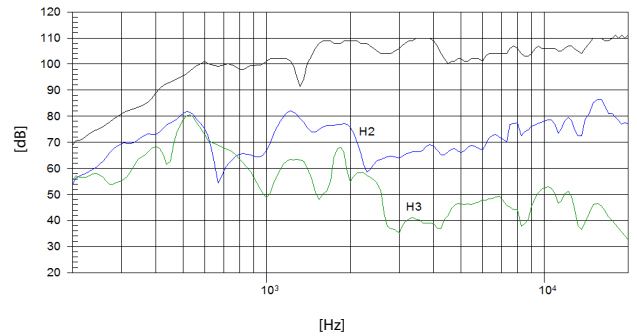
\*\*\*\* The X<sub>max</sub> is calculated as (L<sub>vc</sub> - H<sub>ag</sub>)/2 + (H<sub>ag</sub>/3,5), where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.

### FREQUENCY RESPONSE AND DISTORTION

#### LOW FREQUENCY RESPONSE

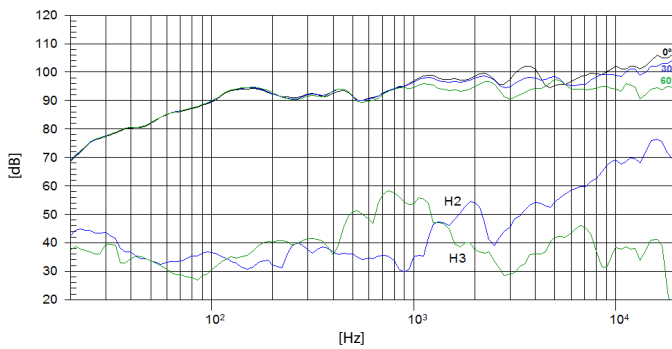


#### HIGH FREQUENCY RESPONSE



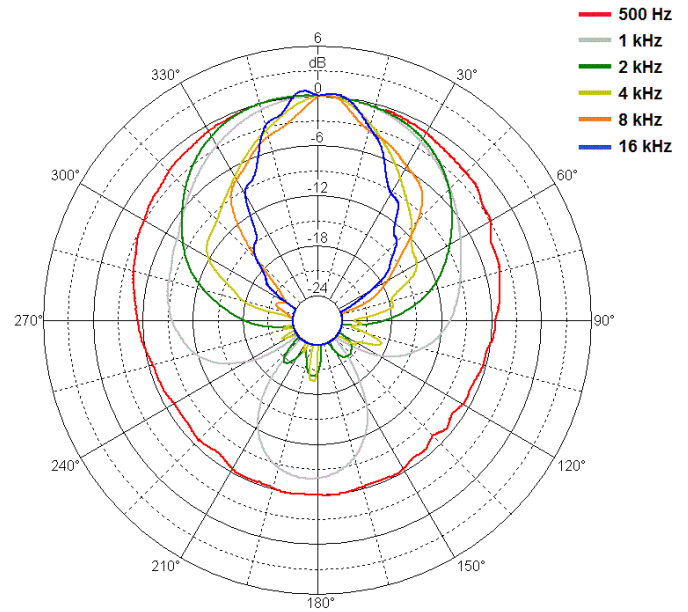
Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

### 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

