

### KEY FEATURES

- Program power: 800 / 160 W<sub>AES</sub> (LF / HF)
- Sensitivity: 96 / 105 dB (1W / 1m) (LF / HF)
- 4" voice coil woofer
- 2.85" voice coil compression driver
- Common ferrite magnet system design
- Demodulating rings in both LF and HF units
- Composite titanium / polyester 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> <sup>1</sup> (LF/HF)	400 / 80 W <sub>AES</sub>	
<b>Program power</b> <sup>2</sup> (LF/HF)	800 / 160 W	
<b>Sensitivity</b> (LF/HF) <sup>3</sup>	96 dB	1W / 1m @ Z <sub>N</sub>
	105 dB	1W / 1m @ Z <sub>N</sub>
<b>Frequency range</b>	40 - 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>BI factor</b>	19,8 N/A	
<b>Moving mass</b>	0,066 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	

**Notes:**

<sup>1</sup> The power capacity is determined according to AES2-1984 (r2003) standard.

<sup>2</sup> Program power is defined as power capacity + 3 dB.

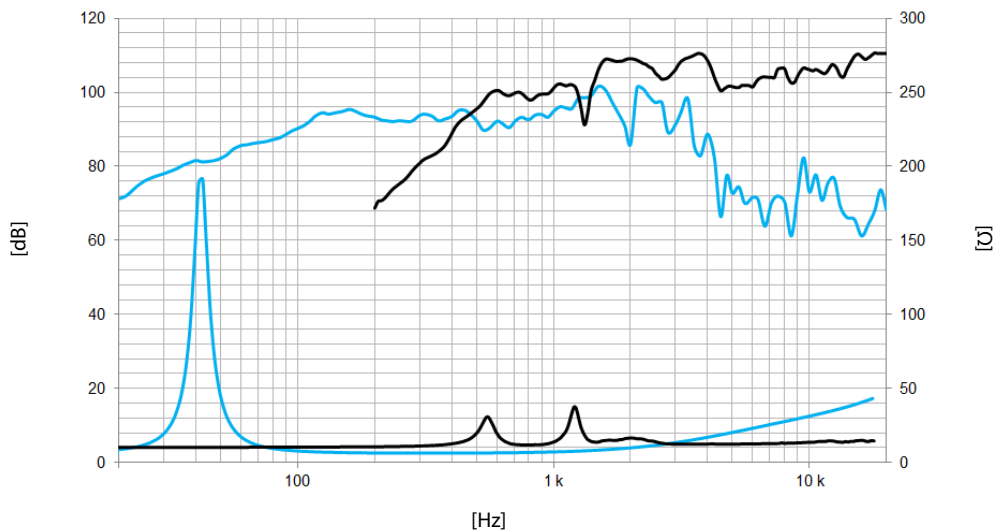
<sup>3</sup> Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 1 - 7 kHz.

<sup>4</sup> 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).

<sup>5</sup> 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.

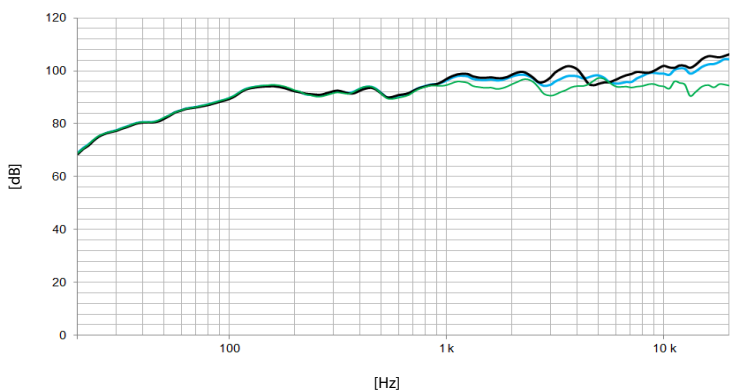
### THIELE-SMALL PARAMETERS<sup>4</sup>

<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>	7,2
<b>Electrical Quality Factor, Q<sub>es</sub></b>	0,26
<b>Total Quality Factor, Q<sub>ts</sub></b>	0,25
<b>Equivalent Air Volume to C<sub>ms</sub>, V<sub>as</sub></b>	94 l
<b>Mechanical Compliance, C<sub>ms</sub></b>	220 μm / N
<b>Mechanical Resistance, R<sub>ms</sub></b>	2,4 kg / s
<b>Efficiency, η<sub>0</sub></b>	2,2 %
<b>Effective Surface Area, S<sub>d</sub></b>	0,055 m <sup>2</sup>
<b>Maximum Displacement, X<sub>max</sub></b> <sup>5</sup>	6 mm
<b>Displacement Volume, V<sub>d</sub></b>	210 cm <sup>3</sup>
<b>Voice Coil Inductance, L<sub>e</sub></b>	1,1 mH



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

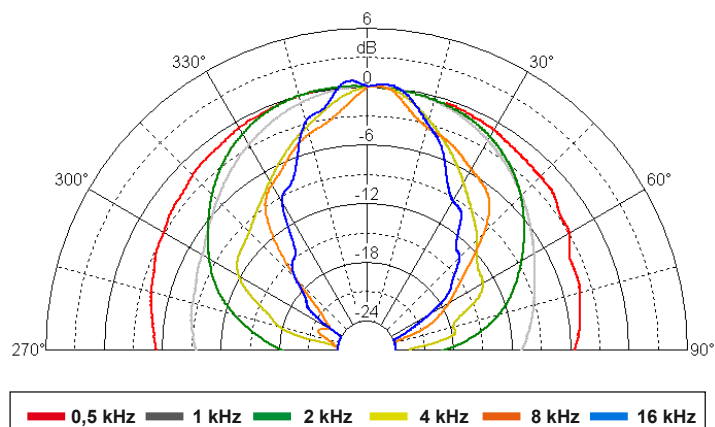
### FILTERED FREQUENCY RESPONSE



— 0 degrees — 30 degrees — 60 degrees

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

### POLAR PATTERN



### MOUNTING INFORMATION

Overall diameter	312 mm	12,3 in
Bolt circle diameter	298 mm	11,7 in
Baffle cutout diameter:		
- Front mount	283 mm	11,1 in
Depth	165 mm	6,5 in
Net weight	11,3 kg	24,9 lb
Shipping weight	11,7 kg	25,8 lb

### DIMENSION DRAWING

