

### 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 HF diaphragm
- Weatherproof LF cone
- 60° coverage horn for HF dispersion control



### TECHNICAL SPECIFICATIONS

Nominal diameter	300 mm	12 in
Rated impedance (LF/HF)	8 / 16 Ω	
Minimum impedance (LF/HF)	6,2 / 12,2 Ω	
Power capacity <sup>1</sup> (LF/HF)	400 / 80 W <sub>AES</sub>	
Program power <sup>2</sup> (LF/HF)	800 / 160 W	
Sensitivity (LF/HF <sup>3</sup> )	96 dB	1W / 1m @ Z <sub>N</sub>
	105 dB	1W / 1m @ Z <sub>N</sub>
Frequency range	40 - 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
BI factor	19,8 N/A	
Moving mass	0,066 kg	
Voice coil length	16 mm	
Air gap height	10 mm	
X <sub>damage</sub> (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.

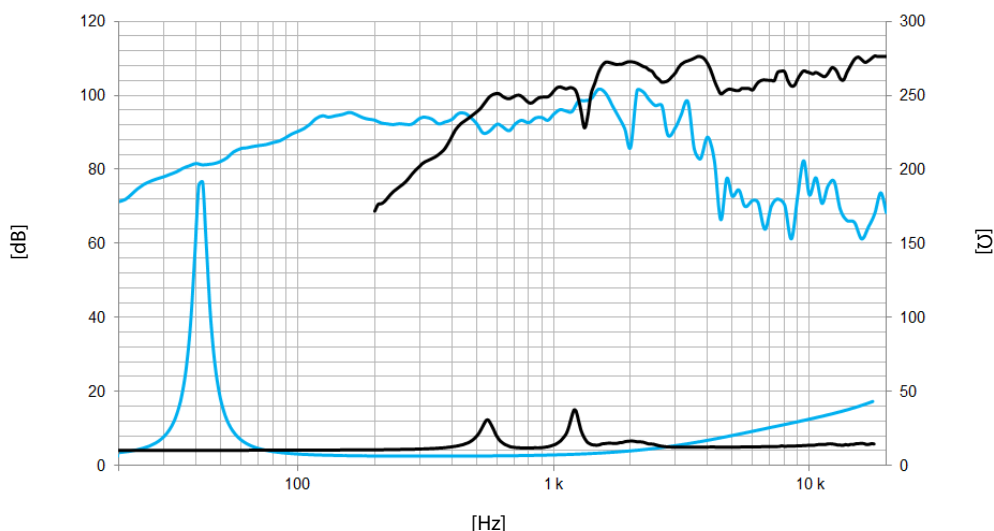
<sup>3</sup> Sensitivity was measured at 1m distance, on axis, with 1W input, averaged in the range 1 - 7 kHz.

<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.

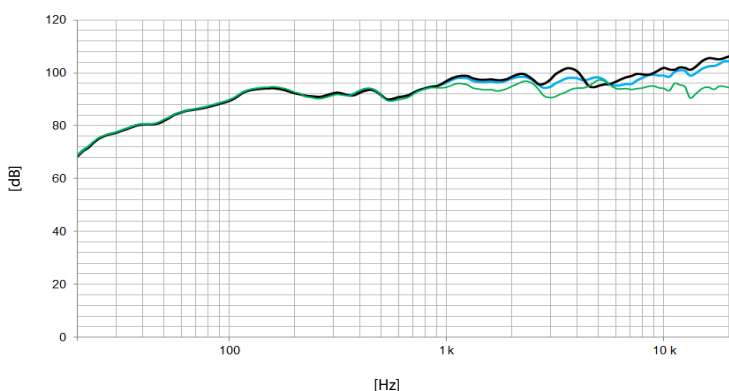
### THIELE-SMALL PARAMETERS<sup>4</sup>

Resonant frequency, f <sub>s</sub>	42 Hz
D.C. Voice coil resistance, R <sub>e</sub>	6,6 Ω
Mechanical Quality Factor, Q <sub>ms</sub>	7,2
Electrical Quality Factor, Q <sub>es</sub>	0,26
Total Quality Factor, Q <sub>ts</sub>	0,25
Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub>	94 l
Mechanical Compliance, C <sub>ms</sub>	220 μm / N
Mechanical Resistance, R <sub>ms</sub>	2,4 kg / s
Efficiency, η <sub>0</sub>	2,2 %
Effective Surface Area, S <sub>d</sub>	0,055 m <sup>2</sup>
Maximum Displacement, X <sub>max</sub> <sup>5</sup>	6 mm
Displacement Volume, V <sub>d</sub>	210 cm <sup>3</sup>
Voice Coil Inductance, L <sub>e</sub>	1,1 mH



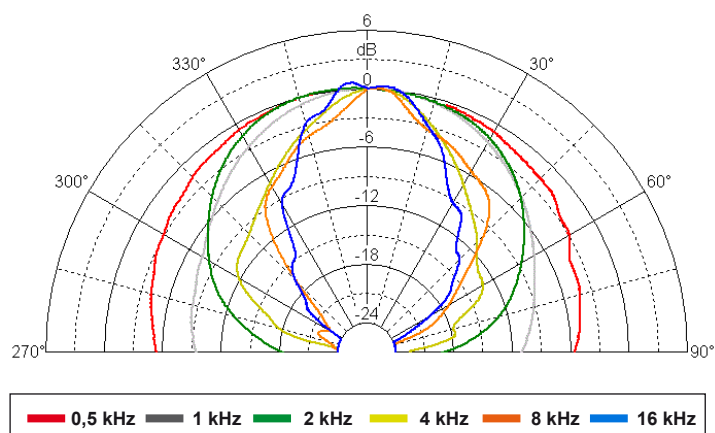
**Note:** Frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

### FILTERED FREQUENCY RESPONSE



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

