

### KEY FEATURES

- High power handling: 350 / 90 W<sub>AES</sub> (LF / HF)
- High sensitivity: 99 / 105 dB (LF / HF)
- Low resonant frequency: 38 Hz
- Low weight and compact common magnet system design
- Demodulating rings in LF and HF units
- Composite Titanium/Mylar diaphragm
- 80° coverage horn for HF dispersion control

### TECHNICAL SPECIFICATIONS

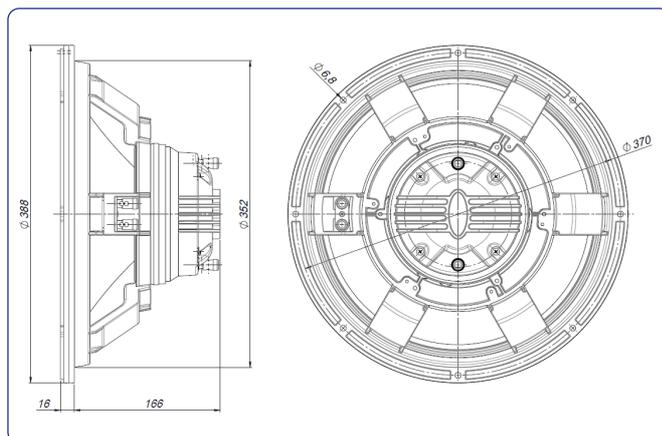
<b>Nominal diameter</b>	380 mm	15 in
<b>Rated impedance</b> (LF/HF)	8 / 16 Ω	
<b>Minimum impedance</b> (LF/HF)	8,4 / 12,6 Ω	
<b>Power capacity*</b> (LF/HF)	350 / 90 W <sub>AES</sub>	
<b>Program power</b> (LF/HF)	700 / 180 W	
<b>Sensitivity</b> (LF/HF**)	99 dB	1W / 1m @ Z <sub>N</sub>
	105 dB	1W / 1m @ 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
	72,4 mm	2,85 in
<b>BL factor</b>	20,4 N/A	
<b>Moving mass</b>	0,082 kg	
<b>Voice coil length</b>	16 mm	
<b>Air gap height</b>	9 mm	
<b>X<sub>damage</sub></b> (peak to peak)	28 mm	

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

<b>Resonant frequency, f<sub>s</sub></b>	38 Hz
<b>D.C. Voice coil resistance, R<sub>e</sub></b>	6,7 Ω
<b>Mechanical Quality Factor, Q<sub>ms</sub></b>	6,4
<b>Electrical Quality Factor, Q<sub>es</sub></b>	0,31
<b>Total Quality Factor, Q<sub>ts</sub></b>	0,30
<b>Equivalent Air Volume to C<sub>ms</sub>, V<sub>as</sub></b>	238 l
<b>Mechanical Compliance, C<sub>ms</sub></b>	217 μm / N
<b>Mechanical Resistance, R<sub>ms</sub></b>	3 kg / s
<b>Efficiency, η<sub>0</sub></b>	3,9 %
<b>Effective Surface Area, S<sub>d</sub></b>	0,088 m <sup>2</sup>
<b>Maximum Displacement, X<sub>max</sub></b> ****	6 mm
<b>Displacement Volume, V<sub>d</sub></b>	528 cm <sup>3</sup>
<b>Voice Coil Inductance, L<sub>e</sub> @ 1 kHz</b>	1 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

<b>Overall diameter</b>	388 mm	15,28 in
<b>Bolt circle diameter</b>	370 mm	14,57 in
<b>Baffle cutout diameter:</b>		
- Front mount	352 mm	13,85 in
<b>Depth</b>	182 mm	7,17 in
<b>Net weight</b>	6,8 kg	14,96 lb
<b>Shipping weight</b>	7,4 kg	16,28 lb

#### Notes:

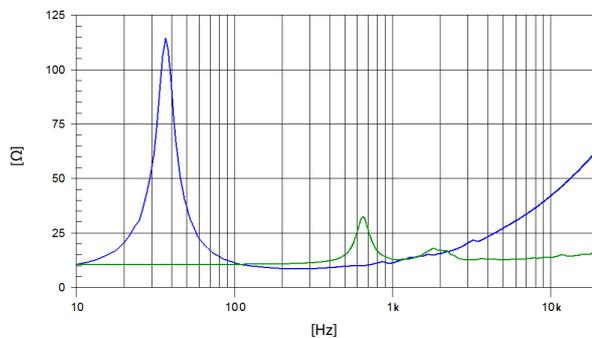
\* The power capacity is determined according to AES2-1984 (r2003) standard. Program power is defined as the transducer's ability to handle normal music program material.

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

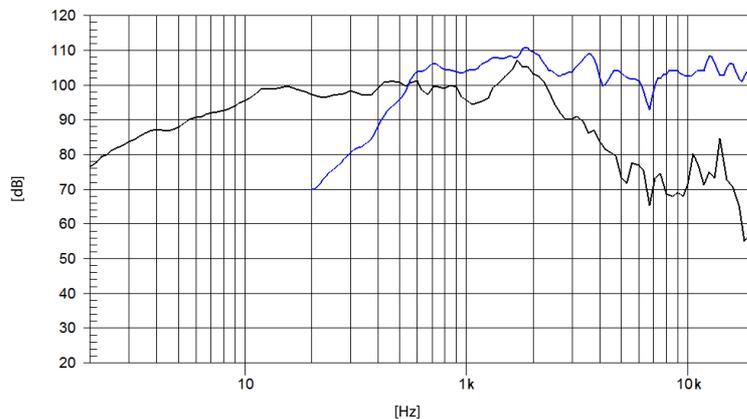
\*\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\*\* 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.

### FREE AIR IMPEDANCE CURVE

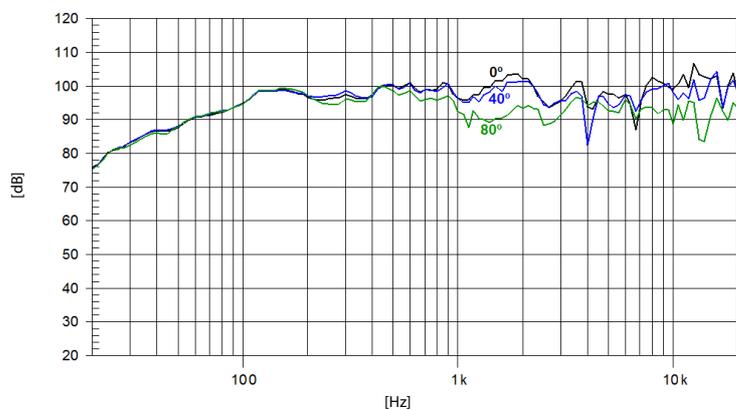


### FREQUENCY RESPONSE CURVE



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

### FILTERED AND OFF-AXIS FREQUENCY RESPONSE



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