

### KEY FEATURES

- High power handling: 700 W<sub>AES</sub>
- High sensitivity: 98 dB
- FEA optimized magnetic circuit
- Designed with MMSS technology for high control, linearity and low harmonic distortion.
- CONEX spider for higher resistance and consistency.
- Waterproof treatment for both sides of the cone.
- 4" DUO double layer inner/outer voice coil.
- Extended controlled displacement:  $X_{\max} \pm 9$  mm
- Massive mechanical displacement capability:  $X_{\text{damage}} \pm 47$  mm

### TECHNICAL SPECIFICATIONS

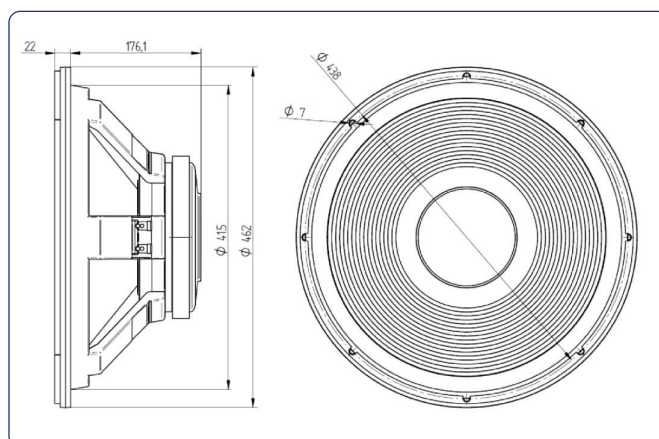
Nominal diameter	460 mm	18 in
Rated impedance		8 $\Omega$
Minimum impedance		6,4 $\Omega$
Power capacity*	700 W <sub>AES</sub>	
Program power	1400 W	
Sensitivity	98 dB	1W @ 1m @ 2 $\pi$
Frequency range	25 - 1.000 Hz	
Recom. enclosure vol.	80 / 250 l	2,8 / 8 ft <sup>3</sup>
Voice coil diameter	100 mm	4 in
Magnetic assembly weight	9 kg	19,84 lb
BI factor		21,8 N/A
Moving mass		0,215 kg
Voice coil length		20 mm
Air gap height		10 mm
X <sub>damage</sub> (peak to peak)		47 mm

### THIELE-SMALL PARAMETERS\*\*

Resonant frequency, $f_s$	35 Hz
D.C. Voice coil resistance, $R_e$	5,1 $\Omega$
Mechanical Quality Factor, $Q_{ms}$	15,7
Electrical Quality Factor, $Q_{es}$	0,5
Total Quality Factor, $Q_{ts}$	0,48
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	236 l
Mechanical Compliance, $C_{ms}$	94,5 $\mu\text{m} / \text{N}$
Mechanical Resistance, $R_{ms}$	3,1 kg / s
Efficiency, $\eta_0$	1,91 %
Effective Surface Area, $S_d$	0,132 m <sup>2</sup>
Maximum Displacement, $X_{\max}$ ***	9 mm
Displacement Volume, $V_d$	1178 cm <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1 kHz	2,1 mH



### DIMENSION DRAWINGS



### MOUNTING INFORMATION

Overall diameter	462 mm	18,19 in
Bolt circle diameter	438 mm	17,24 in
Baffle cutout diameter:		
- Front mount	415 mm	16,33 in
- Rear mount	418 mm	16,46 in
Depth	200 mm	5,70 in
Volume displaced by driver	13 l	0,46 ft <sup>3</sup>
Net weight	11,7 kg	25,7 lb
Shipping weight	13,2 kg	29,0 lb

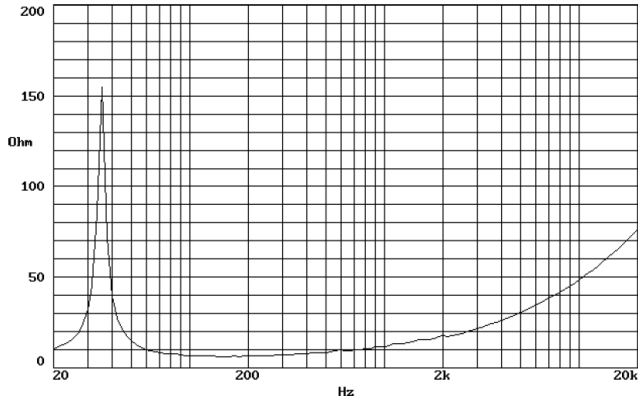
#### Notes:

\* 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.

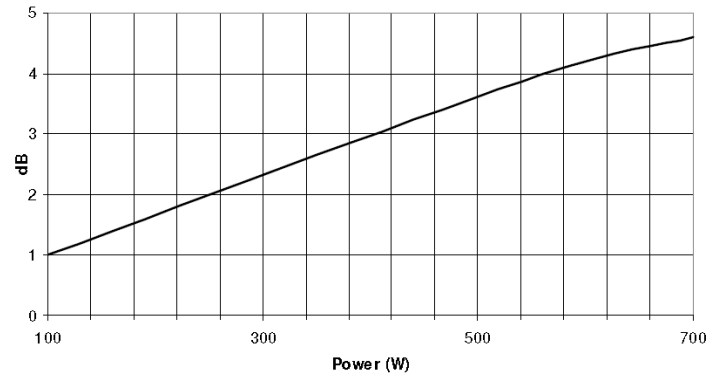
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* 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.

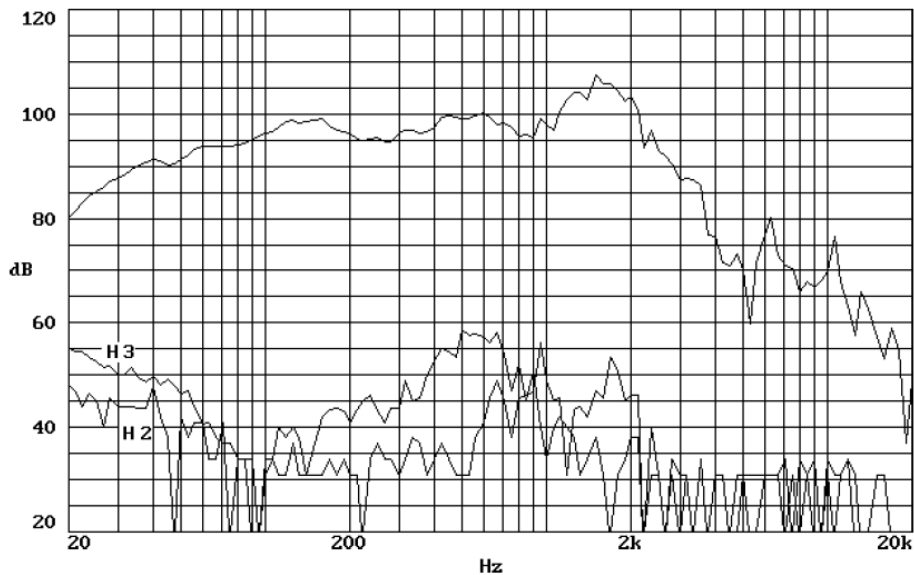
## FREE AIR IMPEDANCE CURVE



## POWER COMPRESSION LOSSES



## FREQUENCY RESPONSE AND DISTORTION



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