

## KEY FEATURES

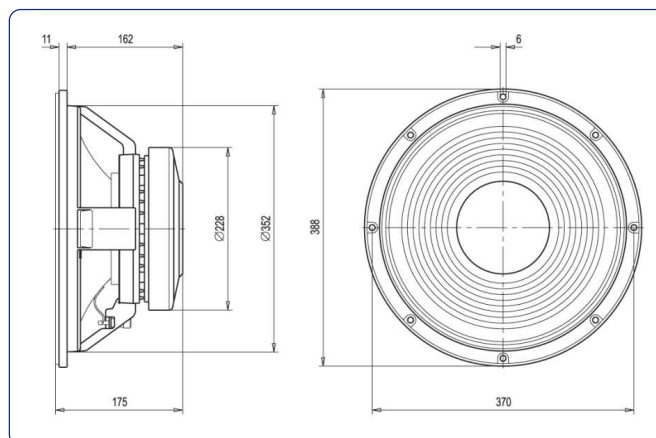
- High power handling ( $750 W_{AES}$ )
- 4,5" copper voice coil with polyimide fiber glass former
- Large  $X_{MAX}$  allowing longer voice coil displacements
- Dual spider configuration to improve mechanical properties at high power
- Excellent heat dissipation due to the use of a metal intercooler
- Designed for high demanding subwoofer and woofer applications



## TECHNICAL SPECIFICATIONS

|                                    |        |                          |
|------------------------------------|--------|--------------------------|
| Nominal diameter                   | 380 mm | 15 in                    |
| Rated impedance                    |        | 8 Ω                      |
| Minimum impedance                  |        | 6,5 Ω                    |
| Power capacity*                    |        | 750 W <sub>AES</sub>     |
| Program power                      |        | 1500 W                   |
| Sensitivity                        | 98 dB  | 1W @ 1m @ Z <sub>N</sub> |
| Frequency range                    |        | 40 - 1.500 Hz            |
| Voice coil diameter                | 114 mm | 4,5 in                   |
| BI factor                          |        | 24,1 N/A                 |
| Moving mass                        |        | 0,135 kg                 |
| Voice coil length                  |        | 19,5 mm                  |
| Air gap height                     |        | 10 mm                    |
| X <sub>damage</sub> (peak to peak) |        | 35 mm                    |

## ***DIMENSION DRAWINGS***



## THIELE-SMALL PARAMETERS\*\*

|                                              |                             |
|----------------------------------------------|-----------------------------|
| Resonant frequency, $f_s$                    | 44 Hz                       |
| D.C. Voice coil resistance, $R_e$            | 5,6 $\Omega$                |
| Mechanical Quality Factor, $Q_{ms}$          | 7                           |
| Electrical Quality Factor, $Q_{es}$          | 0,36                        |
| Total Quality Factor, $Q_{ts}$               | 0,34                        |
| Equivalent Air Volume to $C_{ms}$ , $V_{as}$ | 106 l                       |
| Mechanical Compliance, $C_{ms}$              | 97 $\mu\text{m} / \text{N}$ |
| Mechanical Resistance, $R_{ms}$              | 5,3 kg / s                  |
| Efficiency, $\eta_0$                         | 2,43 %                      |
| Effective Surface Area, $S_d$                | 0,088 $\text{m}^2$          |
| Maximum Displacement, $X_{max}^{***}$        | 7,5 mm                      |
| Displacement Volume, $V_d$                   | 660 $\text{cm}^3$           |
| Voice Coil Inductance, $L_e @ 1 \text{ kHz}$ | 1,5 mH                      |

## 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> |         |          |
| <b>- Front mount</b>           | 352 mm  | 13,86 in |
| <b>Depth</b>                   | 175 mm  | 6,88 in  |
| <b>Net weight</b>              | 11,5 kg | 25,3 lb  |
| <b>Shipping weight</b>         | 12,5 kg | 27,5 lb  |

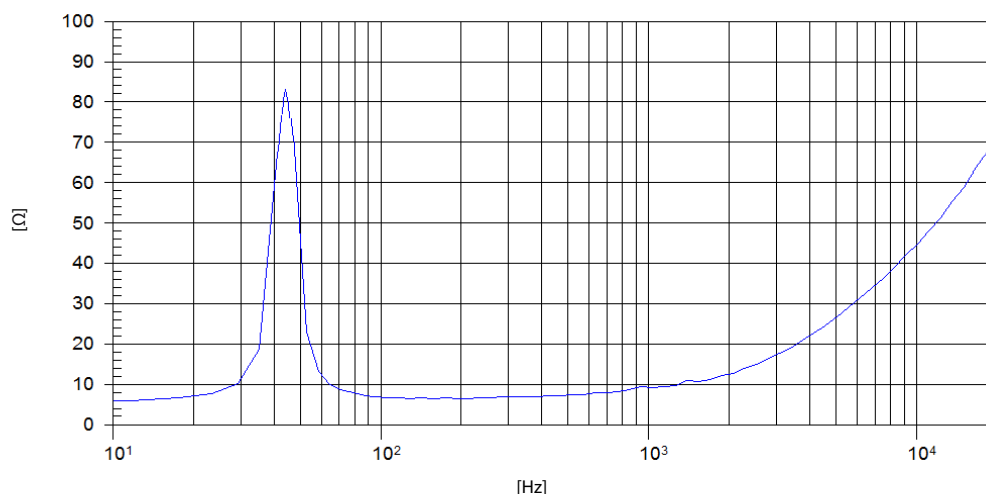
**Notes:**

\* 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.

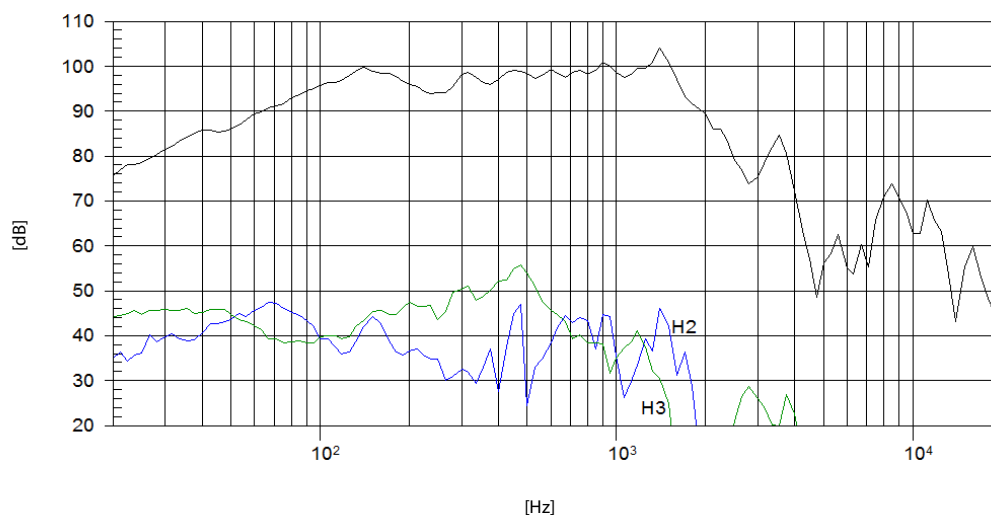
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* 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



### FREQUENCY RESPONSE AND DISTORTION



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