

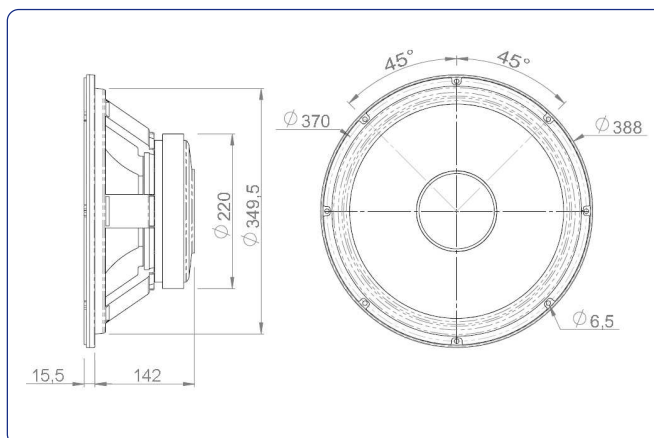
#### KEY FEATURES

- 1.600 W program power
- High sensitivity: 100 dB (1W / 1m)
- FEA optimized magnetic circuit.
- Forced air convection circuit for low power compression.
- CONEX spider for higher resistance and consistency.
- Waterproof treatment for both sides of the cone.
- 4" duo technology voice coil.
- Extended controlled displacement:  $X_{\max} \pm 7,5$  mm
- Massive mechanical displacement capability:  
 $X_{\text{damage}} \pm 52$  mm

#### TECHNICAL SPECIFICATIONS

|                                    |                      |                            |
|------------------------------------|----------------------|----------------------------|
| Nominal diameter                   | 380 mm               | 15 in                      |
| Rated impedance                    | 8 $\Omega$           |                            |
| Minimum impedance                  | 5,5 $\Omega$         |                            |
| Power capacity*                    | 800 W <sub>AES</sub> |                            |
| Program power                      | 1600 W               |                            |
| Sensitivity                        | 100 dB               | 1W @ 1m @ $Z_N$            |
| Frequency range                    | 30 - 4.000 Hz        |                            |
| Recom. enclosure vol.              | 40 / 150 l           | 1,41 / 5,3 ft <sup>3</sup> |
| Voice coil diameter                | 100 mm               | 4 in                       |
| BI factor                          | 23,4 N/A             |                            |
| Moving mass                        | 0,097 kg             |                            |
| Voice coil length                  | 20 mm                |                            |
| Air gap height                     | 12 mm                |                            |
| $X_{\text{damage}}$ (peak to peak) | 52 mm                |                            |

#### DIMENSION DRAWINGS



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

|                                              |                              |
|----------------------------------------------|------------------------------|
| Resonant frequency, $f_s$                    | 32 Hz                        |
| D.C. Voice coil resistance, $R_e$            | 5,3 $\Omega$                 |
| Mechanical Quality Factor, $Q_{ms}$          | 6,5                          |
| Electrical Quality Factor, $Q_{es}$          | 0,19                         |
| Total Quality Factor, $Q_{ts}$               | 0,18                         |
| Equivalent Air Volume to $C_{ms}$ , $V_{as}$ | 282 l                        |
| Mechanical Compliance, $C_{ms}$              | 257 $\mu\text{m} / \text{N}$ |
| Mechanical Resistance, $R_{ms}$              | 2,9 kg / s                   |
| Efficiency, $\eta_0$                         | 4,63 %                       |
| Effective Surface Area, $S_d$                | 0,088 m <sup>2</sup>         |
| Maximum Displacement, $X_{\max}$ ***         | 7,5 mm                       |
| Displacement Volume, $V_d$                   | 660 cm <sup>3</sup>          |
| Voice Coil Inductance, $L_e$ @ 1 kHz         | 1,2 mH                       |

#### MOUNTING INFORMATION

|                            |          |                      |
|----------------------------|----------|----------------------|
| Overall diameter           | 388 mm   | 15,28 in             |
| Bolt circle diameter       | 370 mm   | 14,57 in             |
| Baffle cutout diameter:    |          |                      |
| - Front mount              | 349,5 mm | 13,76 in             |
| - Rear mount               | 355 mm   | 13,98 in             |
| Depth                      | 157,5 mm | 6,2 in               |
| Volume displaced by driver | 5,5 l    | 0,19 ft <sup>3</sup> |
| Net weight                 | 12,36 kg | 27,2 lb              |
| Shipping weight            | 13,30 kg | 29,3 lb              |

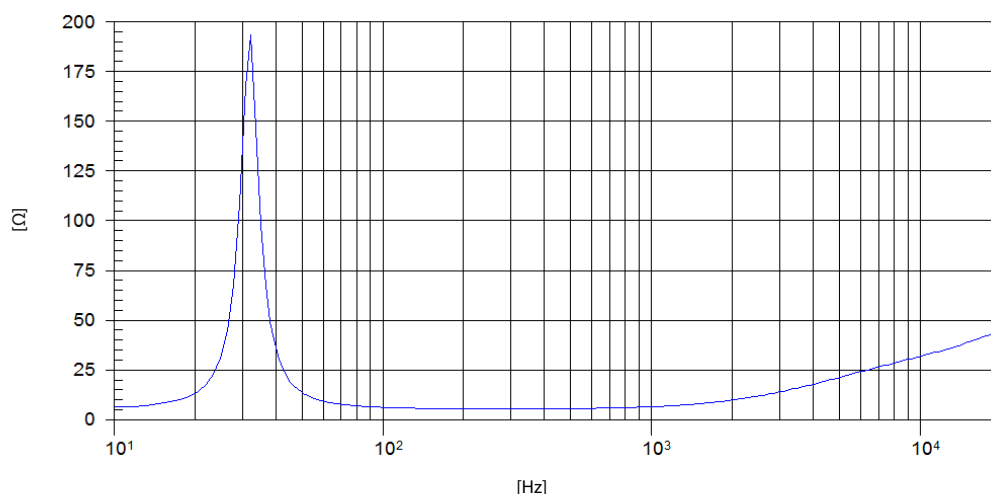
#### Notes:

\* 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.

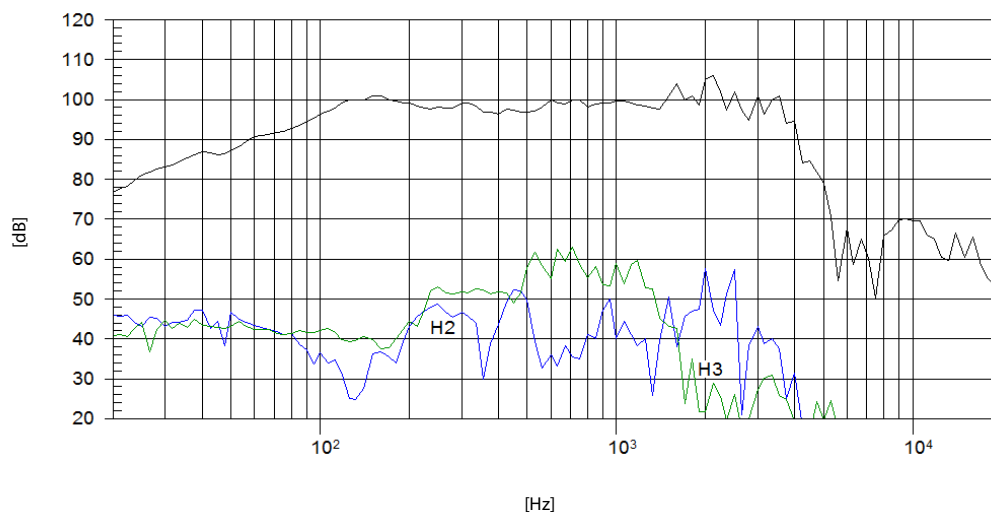
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* 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