

### KEY FEATURES

- 1.600 W program power
- High sensitivity: 101 dB (1W / 1m)
- FEA optimized magnetic circuit
- Forced air convection circuit for low power compression
- CONEX spider for higher resistance and consistency
- 4" duo technology voice coil
- Weatherproof treatment for both sides of the cone
- Extended controlled displacement:  $X_{max} \pm 7,5$  mm
- 52 mm peak-to-peak excursion before damage
- Excellent response in high efficiency and horn loading systems



### TECHNICAL SPECIFICATIONS

|                                    |           |                           |
|------------------------------------|-----------|---------------------------|
| Nominal diameter                   | 380 mm    | 15 in                     |
| Rated impedance                    |           | 8 $\Omega$                |
| Minimum impedance                  |           | 6,3 $\Omega$              |
| Power capacity <sup>1</sup>        |           | 800 W <sub>AES</sub>      |
| Program power <sup>2</sup>         |           | 1.600 W                   |
| Sensitivity                        | 101 dB    | 1W / 1m @ Z <sub>N</sub>  |
| Frequency range                    |           | 30 - 4.000 Hz             |
| Recom. enclosure vol.              | 40/ 150 l | 1,4 / 5,3 ft <sup>3</sup> |
| Voice coil diameter                | 101,6 mm  | 4 in                      |
| Bl factor                          |           | 22,1 N/A                  |
| Moving mass                        |           | 0,088 kg                  |
| Voice coil length                  |           | 20 mm                     |
| Air gap height                     |           | 12 mm                     |
| X <sub>damage</sub> (peak to peak) |           | 52 mm                     |

Notes:

<sup>1</sup> The power capacity is determined according to AES2-1984 (r2003) standard.

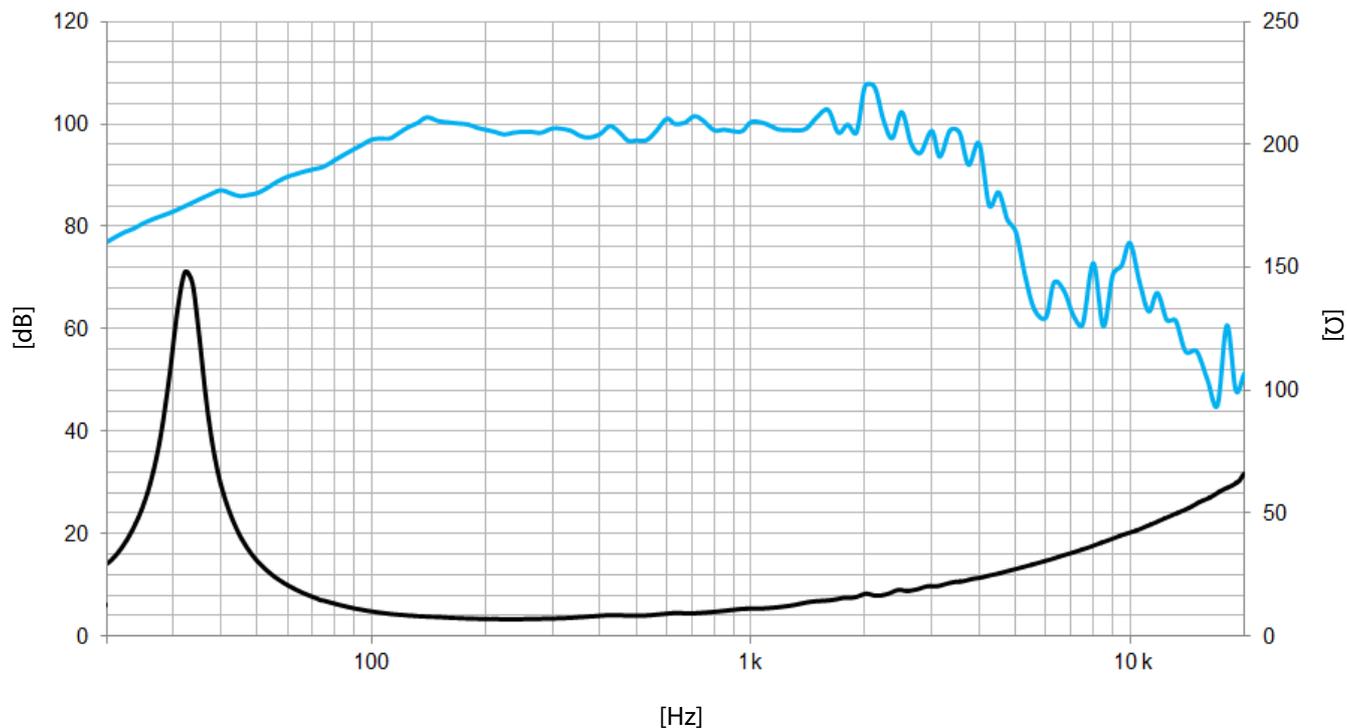
<sup>2</sup> Program power is defined as power capacity + 3 dB.

<sup>3</sup> 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>4</sup> The X<sub>max</sub> is calculated as  $(L_{vc} - H_{ag})/2 + (H_{ag}/3,5)$ , where L<sub>vc</sub> is the voice coil length and H<sub>ag</sub> is the air gap height.

### THIELE-SMALL PARAMETERS<sup>3</sup>

|  |                      |
|--|----------------------|
| Resonant frequency, f <sub>s</sub>                         | 32 Hz                |
| D.C. Voice coil resistance, R <sub>e</sub>                 | 5,3 $\Omega$         |
| Mechanical Quality Factor, Q <sub>ms</sub>                 | 5,5                  |
| Electrical Quality Factor, Q <sub>es</sub>                 | 0,19                 |
| Total Quality Factor, Q <sub>ts</sub>                      | 0,18                 |
| Equivalent Air Volume to C <sub>ms</sub> , V <sub>as</sub> | 305 l                |
| Mechanical Compliance, C <sub>ms</sub>                     | 279 $\mu$ m / N      |
| Mechanical Resistance, R <sub>ms</sub>                     | 3,2 kg / s           |
| Efficiency, $\eta_0$                                       | 5 %                  |
| Effective Surface Area, S <sub>d</sub>                     | 0,088 m <sup>2</sup> |
| Maximum Displacement, X <sub>max</sub> <sup>4</sup>        | 7,5 mm               |
| Displacement Volume, V <sub>d</sub>                        | 660 cm <sup>3</sup>  |
| Voice Coil Inductance, L <sub>e</sub>                      | 1,2 mH               |



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

### MOUNTING INFORMATION

|                         |         |         |
|-------------------------|---------|---------|
| Overall diameter        | 388 mm  | 15,3 in |
| Bolt circle diameter    | 370 mm  | 14,6 in |
| Baffle cutout diameter: |         |         |
| - Front mount           | 352 mm  | 13,8 in |
| Depth                   | 164 mm  | 6,5 in  |
| Net weight              | 12,5 kg | 27,5 lb |
| Shipping weight         | 13,5 kg | 29,7 lb |

### DIMENSION DRAWING

