

#### KEY FEATURES

- 50 W<sub>RMS</sub> power handling
- Sensitivity: 91 dB (1W / 1m)
- 1" copper voice coil
- Extended controlled displacement:  $X_{max} \pm 6,7$  mm
- Low resonance for low frequency extension
- Flat response and low harmonic distortion
- Rubber surround
- Die cast aluminium basket
- Ferrite magnet

#### TECHNICAL SPECIFICATIONS

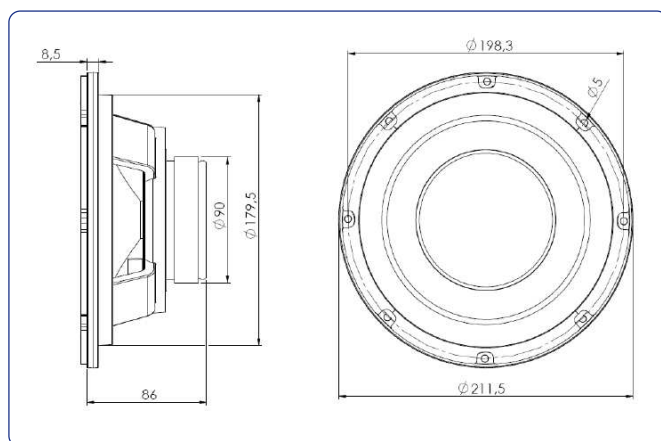
Nominal diameter	200 mm	8 in
Rated impedance		8 Ω
Minimum impedance		6,4 Ω
Power capacity*		50 W <sub>RMS</sub>
Program power		100 W
Sensitivity	91 dB	1W / 1m @ Z <sub>N</sub>
Frequency range		30 - 6.000 Hz
Recom. enclosure vol.	20 / 60 l	0,7 / 2,12 ft <sup>3</sup>
Voice coil diameter	25,4 mm	1 in
BI factor		6,8 N/A
Moving mass		0,021 kg
Voice coil length		16 mm
Air gap height		6 mm
X <sub>damage</sub> (peak to peak)		20 mm

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

Resonant frequency, $f_s$	30 Hz
D.C. Voice coil resistance, $R_e$	5,5 Ω
Mechanical Quality Factor, $Q_{ms}$	2,05
Electrical Quality Factor, $Q_{es}$	0,48
Total Quality Factor, $Q_{ts}$	0,39
Equivalent Air Volume to $C_{ms}$ , $V_{as}$	89,1 l
Mechanical Compliance, $C_{ms}$	1.301 μm / N
Mechanical Resistance, $R_{ms}$	1,99 kg / s
Efficiency, $\eta_0$	0,5 %
Effective Surface Area, $S_d$	0,022 m <sup>2</sup>
Maximum Displacement, $X_{max}$ ***	6,7 mm
Displacement Volume, $V_d$	147 cm <sup>3</sup>
Voice Coil Inductance, $L_e$ @ 1 kHz	0,5 mH



#### DIMENSION DRAWINGS



#### MOUNTING INFORMATION

Overall diameter	211,5 mm	8,00 in
Bolt circle diameter	198,3 mm	7,80 in
Baffle cutout diameter:		
- Front mount	179,5 mm	7,06 in
Depth	77,5 mm	3,05 in
Net weight	1,35 kg	2,98 lb
Shipping weight	1,55 kg	3,41 lb

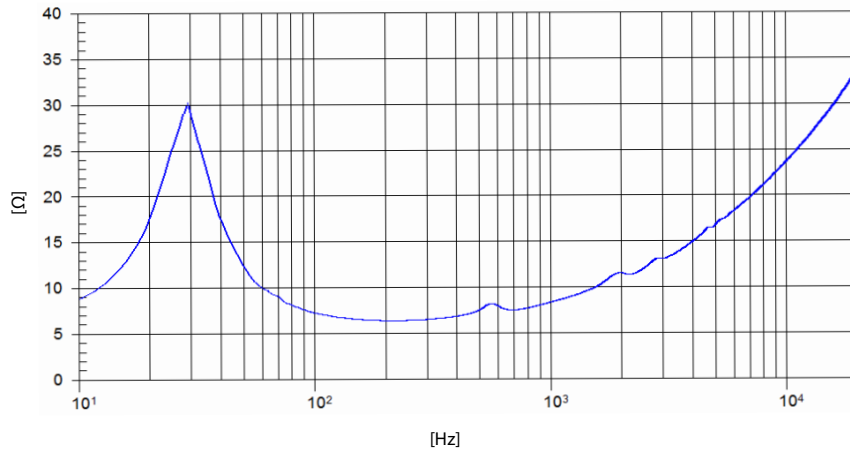
#### Notes:

\* 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.

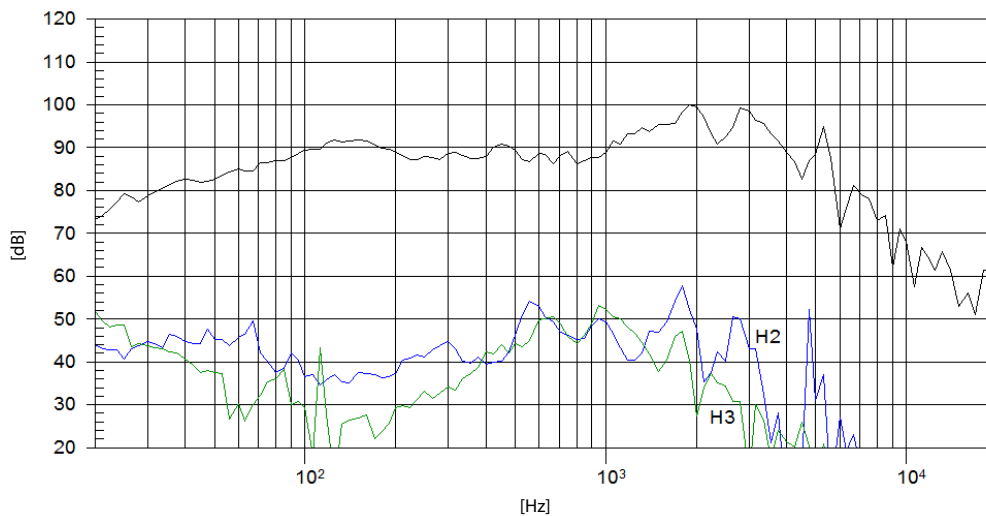
\*\* T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

\*\*\* 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