

Illuminator 1" Tweeter



Type Number: D3004/664000

Features:

The Illuminator tweeters continue on with the heritage of the renowned Revelator D29. The large-roll surround and textile dome diaphragm provide a flat frequency response to above 30KHz with outstanding off-axis dispersion.

This version features a Beryllium dome diaphragm. The face plates are die cast in aluminum for a beautiful look with maximum mechanical stability.

ScanSpeak's unique AirCirc Magnet System -- named for the way it optimizes air flow within the chamber -- rearranges the traditional magnet structure from a single magnet to an open magnetic circuit comprised of six separate neodymium slugs. This, in combination with the chamber, results in the elimination of the reflections and resonances that compromise the performance of traditional motors. The D3004 gives engineers improved control over critical midrange performance, for superb vocal rendition and excellent imaging at all listening locations.

Driver Highlights: 1" soft dome, AirCirc Magnet System, Black rubber painted aluminium faceplate, Beryllium Diaphragm



Specs:

Electrical Data

| | | | |
|-----------------------|------|-----------|-----|
| Nominal impedance | Zn | 4 | ohm |
| Minimum impedance | Zmin | 3,8 / 398 | ohm |
| Maximum impedance | Zo | 16,8 | ohm |
| DC resistance | Re | 3,0 | ohm |
| Voice coil inductance | Le | 0,02 | mH |

T-S Parameters

| | | | |
|-------------------------|-----|------|-----------------|
| Resonance Frequency | fs | 490 | Hz |
| Mechanical Q factor | Qms | | |
| Electrical Q factor | Qes | | |
| Total Q factor | Qts | | |
| Force factor | Bl | 2,3 | Tm |
| Mechanical resistance | Rms | | Kg/s |
| Moving mass | Mms | 0,35 | g |
| Suspension compliance | Cms | 0,3 | mm/N |
| Effective cone diameter | D | | cm |
| Effective piston area | Sd | 7,0 | cm ² |
| Equivalent volume | Vas | | ltrs |
| Sensitivity (2.83V/1m) | | 90,7 | dB |
| Ratio BL/√(Re) | | | |
| Ratio fs/Qts | F | | |

Power Handling

| | | |
|--------------------------------|-----|------|
| 100h RMS noise test (IEC) | 90 | W |
| Long-term Max Power (IEC18.3) | 150 | W |
| Max linear SPL (rms) @ power | | dB/W |
| Short-term Max Power (IEC18.2) | | W |

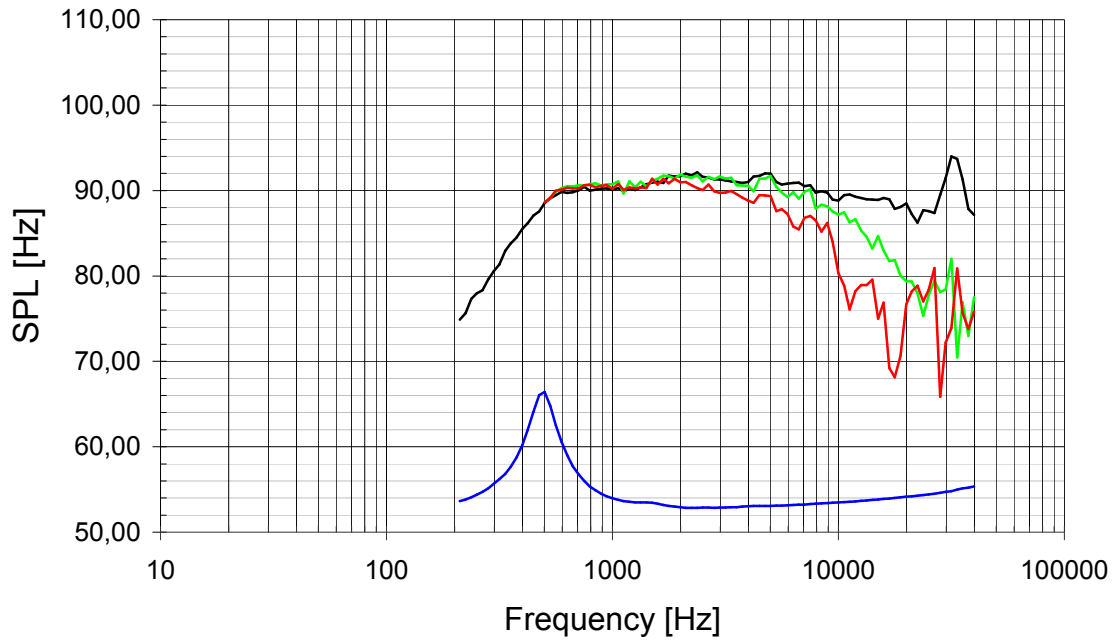
Voice Coil and Magnet Parametres

| | | |
|-------------------------|------|-----|
| Voice coil diameter | 26,0 | mm |
| Voice coil height | 2,1 | mm |
| Voice coil layers | 2 | |
| Height of gap | 2,5 | mm |
| Linear excursion +/- | 0,2 | mm |
| Max mech. Excursion +/- | 1,6 | mm |
| Flux density of gap | | mWb |
| Total useful flux | | mWb |
| Diameter of magnet | | mm |
| Height of magnet | | mm |
| Weight of magnet | | Kg |
| Unit net weight | | Kg |

Notes:

IEC Specs refer to IEC 60268,5 third edition. 2.5 kHz, 2. order BW
All Scan Speak products are RoHS compliant

Frequency:



— Impedance — On axis — 30 degrees — 60 degrees

Mechanical Dimintions:

