

KEY FEATURES



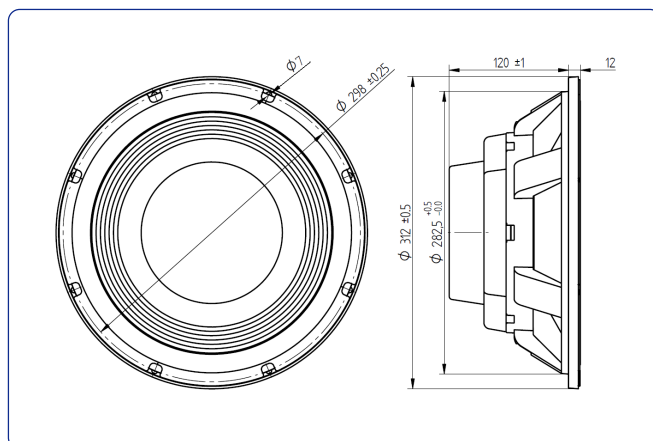
- HELICEX® cooling technology
- 1200W AES power handling capacity
- High sensitivity: 96dB @ 2.83v
- Low resonant frequency: 45Hz
- Extended controlled displacement: $X_{max} \pm 10$ mm
- Massive mechanical displacement capability: X_{pp} 60mm
- Designed with MMSS technology
- 4" DUO double inner/outer voice coil winding
- CONEX Spider



TECHNICAL SPECIFICATIONS

| | |
|--------------------------|---------------------------------------|
| Nominal diameter | 300mm. 12 in. |
| Rated impedance | 8 ohms |
| Minimum impedance | 6.2 ohms |
| Power capacity* | 1200 w AES |
| Program power | 2400 w |
| Sensitivity | 96 dB 2.83v @ 1m @ 2 π |
| Frequency range | 25 - 1800 Hz |
| Maximum Recom. Frequency | 200 Hz |
| Recom. enclosure vol. | 12 / 60 l 0.7 / 2.24 ft. ³ |
| Voice coil diameter | 100 mm. 4 in. |
| Magnetic assembly weight | 4.62 kg. 10.16 lb. |
| BL factor | 25.3 N / A |
| Moving mass | 0.118 kg. |
| Voice coil length | 25 mm |
| Air gap height | 14 mm |
| X damage (peak to peak) | 60 mm |

DIMENSION DRAWINGS



THIELE-SMALL PARAMETERS**

| | |
|---|----------------------|
| Resonant frequency, f_s | 45 Hz |
| D.C. Voice coil resistance, R_e | 4.9 ohms |
| Mechanical Quality Factor, Q_{ms} | 12.07 |
| Electrical Quality Factor, Q_{es} | 0.27 |
| Total Quality Factor, Q_{ts} | 0.26 |
| Equivalent Air Volume to C_{ms} , V_{as} | 45l |
| Mechanical Compliance, C_{ms} | 105.5 μ m / N |
| Mechanical Resistance, R_{ms} | 2.77 kg / s |
| Efficiency, η_0 (%) | 1.47 |
| Effective Surface Area, S_d (m ²) | 0.055 m ² |
| Maximum Displacement, X_{max} *** | 10 mm |
| Displacement Volume, V_d | 550 cm ³ |
| Voice Coil Inductance, L_e @ 1 kHz | 3.25 mH |

MOUNTING INFORMATION

| | |
|----------------------------|----------------------------|
| Overall diameter | 312 mm. 12.28 in. |
| Bolt circle diameter | 298 mm. 11.73 in. |
| Baffle cutout diameter: | |
| - Front mount | 283 mm. 11.14 in. |
| - Rear mount | 280 mm. 11.02 in. |
| Depth | 132 mm. 5.20 in. |
| Volume displaced by driver | 4 l. 0.14 ft. ³ |
| Net weight | 7.2 kg. 15.84 lb. |
| Shipping weight | 8 kg. 17.6 lb. |

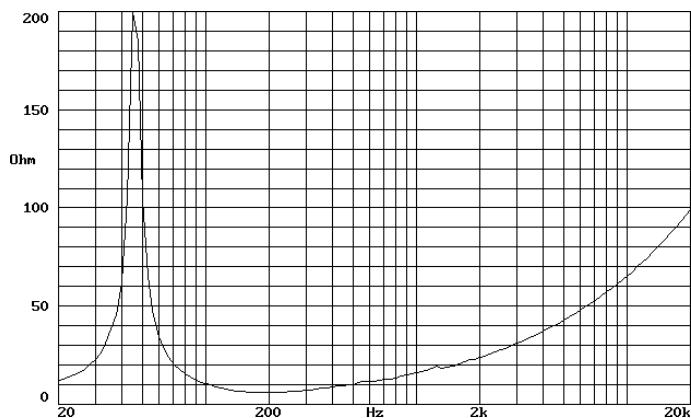
Notes:

*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.

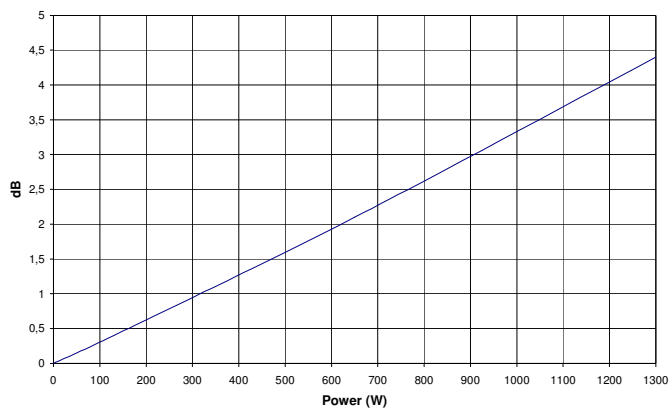
**T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

***The X_{max} is calculated as $(L_{vc} - Hag)/2 + Hag/3.5$, where L_{vc} is the voice coil length and Hag is the air gap height.

FREE AIR IMPEDANCE CURVE

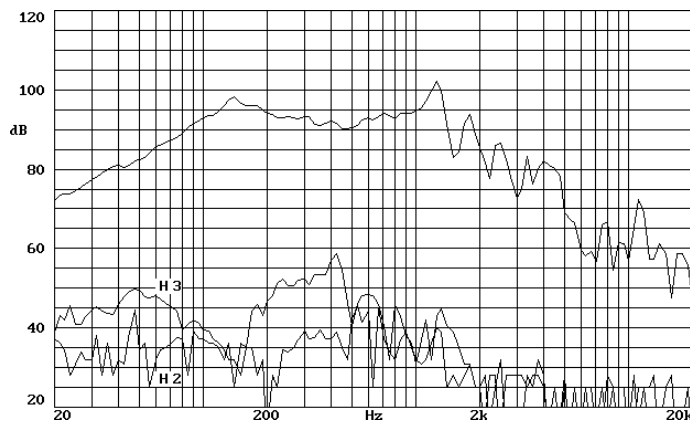


POWER COMPRESSION LOSSES



Note: Power Compression Losses were calculated after 5 minutes period applying a pink noise signal filtered between 25 and 200 Hz.

FREQUENCY RESPONSE AND DISTORTION



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