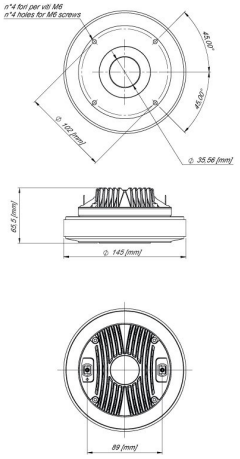
HD2000 8Ω

HF Drivers - 1.4 Inches



- Best performance to price 1.4” exit driver on the market
- 108 dB 1W / 1m average sensitivity
- 1.4 inch throat exit
- 2.4 inch edgewound aluminum voice coil
- 140 W program power handling
- Pure Titanium diaphragm assembly
- Proprietary phase plug design
- HF copper sleeve for reduced distortion and increased output
- Available also in 2" exit version

The HD2000 1.4 inch exit high frequency compression driver has been designed for use in high quality audio systems.

The titanium diaphragm is produced in-house and has been developed to assure unmatched transient response. A proprietary treated Nomex former with edge-wound copper-clad aluminum wire (CCAW) 60mm voice coil completes diaphragm assembly. It has been made by joining the proprietary-treated Nomex former directly to the titanium dome through its upper bend edge. In comparison with a usual straight former joint, the driver design assures extended frequency energy transfer for improved response linearity and unparalleled reliability. This feature maintains proper motion control of the dome in real working conditions. Due to its physical properties, the proprietary-treated Nomex former shows a 30% higher value of tensile elongation at working operative temperatures (200°C) when compared to Kapton. Moreover, this material is suitable to work also in higher moisture-content environments.

Equipped with Proprietary Phase Plug 3P architecture, the HD2000 has been designed to give a smooth coherent wave front at the horn entrance in all working frequency ranges with a high level manufacturing consistency. The phase plug with its short openings and high flare rate, assures low distortion with excellent mid-high frequency reproduction.

The HD2000 powerful ceramic magnet assembly has been designed to obtain 16 kGauss in the gap within a compact ferrite motor structure. The motor structure is equipped with copper ring on the pole piece, reducing inductance effect and distortion.

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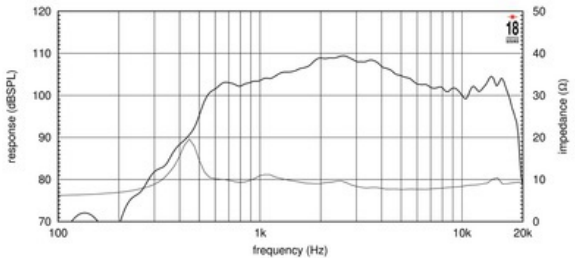

SPECIFICATIONS[1]

Throat Diameter	35 mm (1.4 in)
Nominal Impedance	8 Ω
Minimum Impedance	7.6 Ω
Nominal Power Handling[2]	70 W
Continuous Power Handling[3]	140 W
Sensitivity[4]	108.0 dB
Frequency Range	1.0 - 20.0 kHz
Recommended Crossover[5]	1.0 kHz
Voice Coil Diameter	61 mm (2.4 in)
Winding Material	Aluminum
Diaphragm Material	Titanium
Flux Density	1.6 T
Magnet Material	Ferrite

MOUNTING AND SHIPPING INFO

Overall Diameter	145 mm (5.71 in)
Depth	65 mm (2.56 in)
Net Weight	2.8 kg (6.17 lb)
Shipping Weight	3.0 kg (6.61 lb)
Shipping Box	188x170x85 mm (7.40x6.69x3.35 in)

1. Driver mounted on Eighteen Sound XR1464C horn
2. 2 hour test made with continuous pink noise signal within the range from the recommended crossover frequency to 20 kHz. Power calculated on rated nominal impedance.
3. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
4. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
5. 12 dB/oct. or higher slope high-pass filter.

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