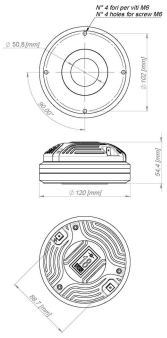
ND32ST 8Ω

HF Drivers - 2.0 Inches



- 2 inch exit Neodymium compression driver
- Very fast impulse response for excellent transient reproduction
- Natural Sound frequency response extended up to 20 kHz
- 240 W program power handling
- 112 dB 1W / 1mt sensitivity
- 75 mm (3 in) Edgewound CCAW voice coil
- Titanium diaphragm with proprietary suspension geometry
- Next gen 4-slot metal alloy phase plug design
- Copper sleeve for reduced distortion and increased high end output

Eighteen Sound Srl
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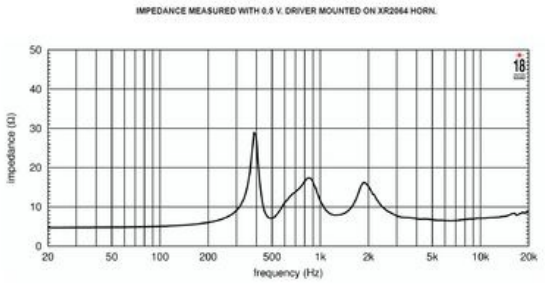
The ND32ST 2 inch exit Natural Sound neodymium high frequency compression driver has been designed to fulfill state of the art performances needed for present and future very high quality sound reinforcement applications.

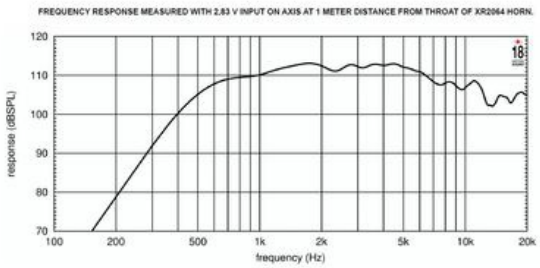
The next-gen titanium diaphragm is produced in house and has been developed to assure unmatched transient response. The diaphragm assembly is made by joining the former directly to the titanium dome on its upper bend edge. In comparison with a usual straight former joint, the driver's design assures extended frequency energy transfer for improved response linearity and unparallel reliability. This feature facilitates proper motion control of the dome in real working conditions. A proprietary treated Nomex former is used as Nomex shows a 30% higher value of tensile elongation at a working operative temperature (200°C) when compared to Kapton. Moreover, this proprietary former material is also suitable for use in higher moisture content environments.

The ND32ST neodymium magnet assembly has been designed to obtain 21KGauss in the gap for major benefits in transient response. The motor structure, throughout the precisely coherent proprietary designed metal alloy phase plug with 4 circumferential slots and copper ring on the pole piece, reduces inductance effect and distortion.

The diaphragm kit self-centering design allows high precision mounting and at the same time makes very easy the servicing procedure.

The ability to perform properly under inclement weather conditions is a key point of the Eighteen Sound philosophy. Hence, a special treatment is applied to the magnet and the top and back plates of the magnetic structure in order to make the driver more resistant to the corrosive effects of salts and oxidization. This treatment is more effective than any other coating commonly used.





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SPECIFICATIONS[1]

Throat Diameter	50 mm (2.0 in)
Nominal Impedance	8 Ω
Minimum Impedance	6.4 Ω
Nominal Power Handling[2]	120 W
Continuous Power Handling[3]	240 W
Sensitivity[4]	112.0 dB
Frequency Range	0.8 - 20.0 kHz
Recommended Crossover[5]	1.2 kHz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	Aluminum
Diaphragm Material	Titanium
Flux Density	2.1 T
Magnet Material	Neodymium

MOUNTING AND SHIPPING INFO

Overall Diameter	120 mm (4.72 in)
Depth	53 mm (2.09 in)
Net Weight	2.8 kg (6.17 lb)
Shipping Weight	2.9 kg (6.39 lb)
Shipping Box	165x150x65 mm (6.50x5.91x2.56 in)

1. Driver mounted on Eighteen Sound XR2064C 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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