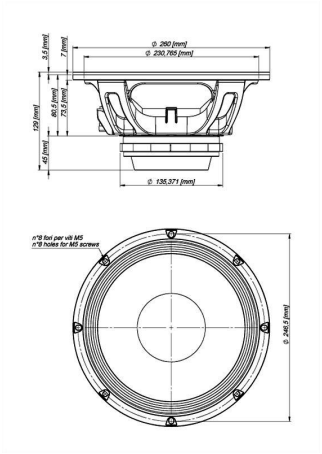
10NW750 8Ω

LF drivers - 10.0 Inches



- 94 dB SPL 1W@1m average sensitivity
- 900 W program power handling
- 75 mm (3 in) Interleaved Sandwich Aluminum Voice Coil (ISV)
- External Neodymium magnet assembly
- Single Demodulating Ring (SDR) for lower distortion and maximum sound clarity
- Weather protected cone and coated plates
- Suitable for high performance line arrays and compact two-way systems

18 Sound's 10NW750 neodymium low frequency transducer is a state-of-the-art 10-inch woofer that combines excellent linearity with high power handling capabilities (900 W) and reduced power compression. The external neodymium magnet assembly assures high flux concentration and excellent heat exchange. The 75mm (3 in) inside outside aluminum voice coil employs Interleaved Sandwich Voice coil (ISV) technology.
A sophisticated distortion reduction system has been implemented using a demodulating ring for flux modulation cancellation related to voice coil excursion, together with a copper ring for the reduction of intermodulation distortion.
The cone is treated against extremely aggressive environment conditions.
The compact size makes the 10NW750 an ideal choice for high performance line arrays and compact two-way systems.

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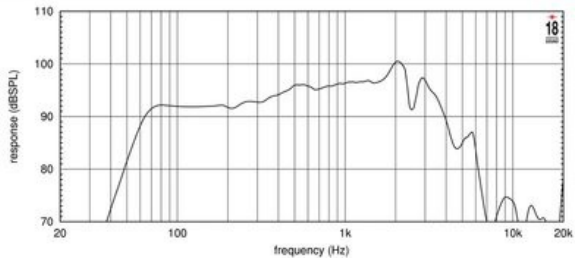

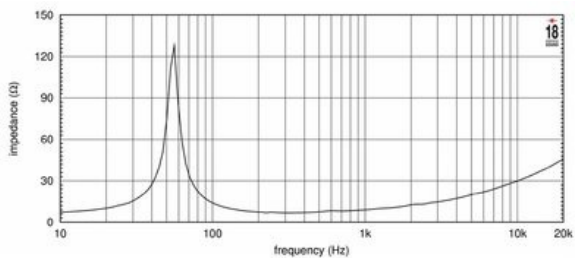

SPECIFICATIONS

Nominal Diameter	260 mm (in)
Nominal Impedance	8 Ω
Minimum Impedance	6.9 Ω
Nominal Power Handling[1]	450 W
Continuous Power Handling[2]	900 W
Sensitivity[3]	94.0 dB
Frequency Range	50 - 5000 Hz
Voice Coil Diameter	75 mm (3.0 in)
Winding Material	aluminum

DESIGN

Surround Shape	Triple roll
Cone Shape	Curvilinear
Magnet Material	Neo
Woofer Cone Treatment	Weather protected
Recommended Enclosure	25.0 dm^3 (0.88 ft^3)
Recommended Tuning	60 Hz

PARAMETERS[4]

Resonance Frequency	53 Hz
Re	5.8 Ω
Qes	0.32
Qms	5.74
Qts	0.31
Vas	34.0 dm^3 (1.2 ft^3)
Sd	340.0 cm^2 (52.7 in^2)
Xmax	7.5 mm
Mms	45.0 g
Bl	16.4 Txm
Le	0.6 mH
EBP	165 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	260 mm (10.24 in)
Bolt Circle Diameter	244 mm (9.61 in)
Baffle Cutout Diameter	232.0 mm (9.13 in)
Depth	130 mm (5.12 in)
Flange and Gasket Thickness	11 mm (0.43 in)
Net Weight	3.8 kg (8.38 lb)
Shipping Weight	4.3 kg (9.48 lb)
Shipping Box	275x275x164 mm (10.83x10.83x6.46 in)

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.

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