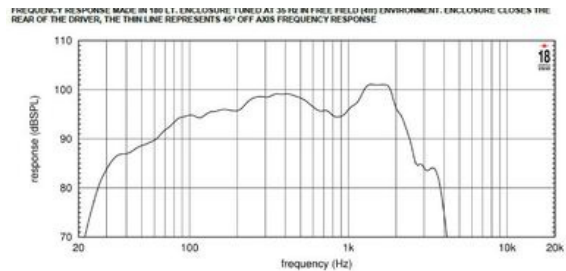
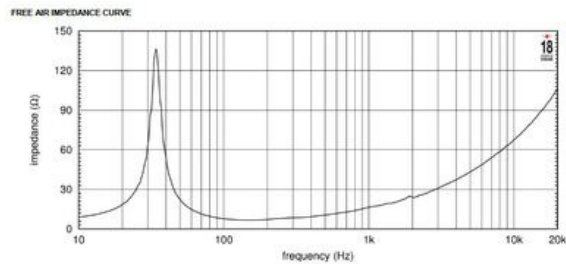




- 97 dB SPL 1W / 1m average sensitivity
- 135 mm (5.3 in) split winding four layers ISV aluminum voice coil
- 3600 W program power handling
- Reinforced cellulose cone
- Double Silicon Spider (DSS) for improved excursion control
- High force neodymium magnet assembly
- Weather protected cone and plates for outdoor usage
- Suitable for reflex and bandpass high SPL subwoofer systems

The 18NLW9000 is an extended low frequency 18 inch neodymium high performance transducer. The loudspeaker has been designed for use as a subwoofer component, in either a reflex or bandpass high SPL demanding applications. For optimum results recommended amplifier should be able to deliver 3600 Watt program power. At the heart of the transducer stands a double silicon spider based on DSS technology let the 18NLW9000 being able to control the moving mass with high linearity, showing an exceptional stability of mechanical parameter values in the long term. The state-of-the-art 5,3" diameter ISV copper clad aluminum wire CCAW voice coil shows a inside-outside split winding, four layers design, enabling the 18NLW9000 to handle up to 3600W program power. Bl force factor, as well as all other electro-dynamic parameters, are linear within the working range. This, together with the exceptional high excursion behavior - 70mm before damage, ± 14 mm linear Xmax - makes the 18NLW9000 an extremely low distortion, highly dynamic transducer. The 18NLW9000 has been developed after intense FEA and fluidodynamics simulation and testing, focusing on dissipating the heat generated by the powerful voice coil. Special attention was given to the optimization of air flow into the gap without introducing audible noise. A low-density foam diffractor placed into the vent hole acts as a cooling system, increasing the power handling capability and lowering the power compression figure. The reinforced, straight ribbed cone shows a proprietary treatment for extra pulp strength and water repellent properties. A special coating applied to both the top and back plates makes the transducer far more resistant to the corrosive effects of salts and oxidization.



SPECIFICATIONS

Nominal Impedance	8 Ω
Minimum Impedance	6.7 Ω
Nominal Power Handling ¹	1800 W
Continuous Power Handling ²	3600 W
Sensitivity ³	97.0 dB
Frequency Range	32 - 2500 Hz
Voice Coil Diameter	135 mm (5.31 in)

DESIGN

Surround Shape	Triple roll
Cone Shape	Straight
Magnet Material	Neo
Spider	Double Silicon Spider
Recommended Enclosure	200.0 dm ³ (7.06 ft ³)
Recommended Tuning	36 Hz

PARAMETERS⁴

Resonance Frequency	34 Hz
Re	5.5 Ω
Qes	0.32
Qms	7.0
Qts	0.31
Vas	206.0 dm ³ (7.27 ft ³)
Sd	1222.0 cm ² (189.41 in ²)
Xmax	14.0 mm
Mms	218.0 g
Bl	28.0 Txm
Le	1.9 mH
EBP	106 Hz

MOUNTING AND SHIPPING INFO

Overall Diameter	462 mm (18.19 in)
Bolt Circle Diameter	440 mm (17.32 in)
Baffle Cutout Diameter	422.0 mm (16.61 in)
Depth	237 mm (9.35 in)
Flange and Gasket Thickness	26 mm (1.02 in)
Net Weight	12.5 kg (27.56 lb)
Shipping Weight	14.0 kg (30.86 lb)
Shipping Box	482 x 482 x 257 mm (18.98x18.98x10.12 in)

1. 2 hours test made with continuous pink noise signal within the range F_s -10 F_s . 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.