

# WOOFER L18P300ND

Professional Low Frequency Transducer

PART NUMBER 11100037

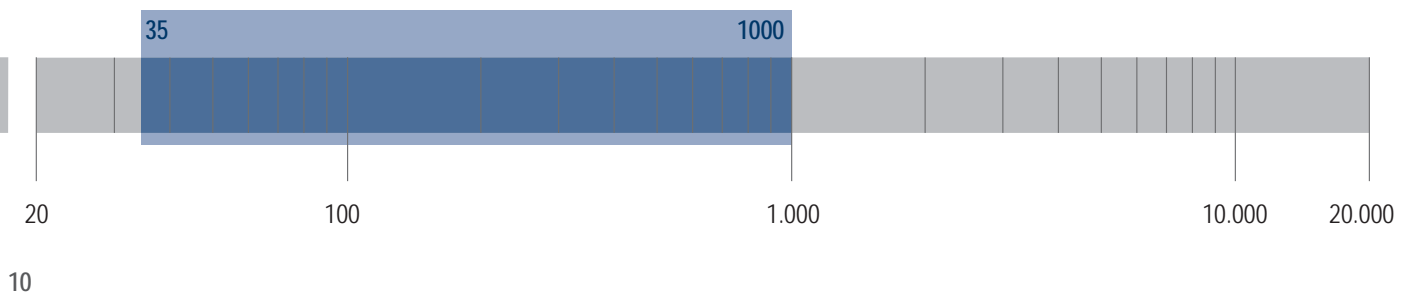
The L18P300ND is derived from L18P300 but with a neo magnetic design and manufactured with a newly designed aluminum basket that provides an excellent ventilation of voice coil, this solution is perfectly compatible with the ferrite version for size and performance . The neo magnetic assembly use a 15mm thickness plates that ensure a high flux density in the gap , low power compression and excellent heat dissipation. A specially designed of M-roll suspensions that combined with a double silicon spider ensure an excellent linear piston control and an undistorted low frequency reproduction at very high power.

## Features

- 4-inch , fibreglass inside-outside copper voice coil
- 2000W continuous program power handling
- 97dB Sensitivity
- 35Hz -1KHz Frequency range
- Forced air ventilation and 15mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- M-roll surround and exponential cone geometry
- Neo magnetic assembly
- The net weight of L18P300ND result half in comparison to the ferrite version.

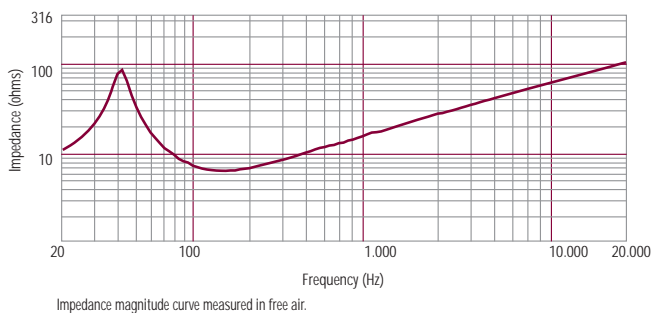
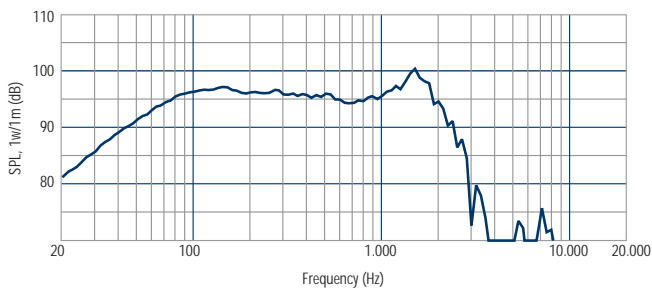
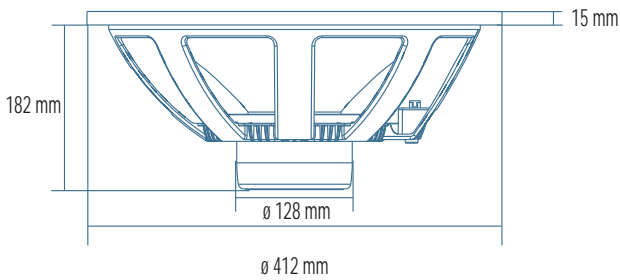
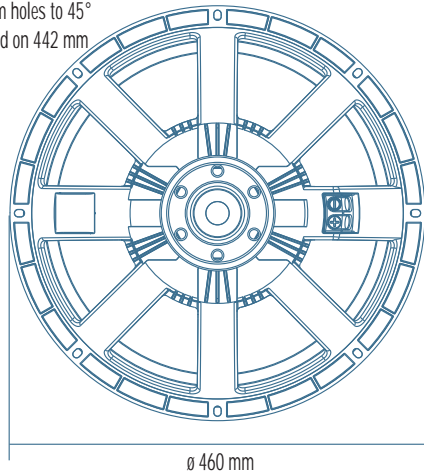
## Applications

The L18P300ND finds its application in bass reflex and band pass system.. Its capacity to reproduce extremely low frequencies along with extraordinary definition make it a no compromise woofer in its category, ideal for live and recorded music.





8 x ø 8 mm holes to 45°  
on 436 and on 442 mm



## General Specifications

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power <sup>1</sup>	2000	Watts
Power handling capacity <sup>2</sup>	1000	Watts
Sensitivity <sup>3</sup>	97	dB
Frequency Range	35 - 1000	Hz
Effective Piston Diameter	380/14.9	mm/inch
Max Excursion Before Damage (peak to peak)	40/1.57	mm/inch
Minimum Impedance	6.0	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	23/0.90	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M-roll	

## Thiele - Small Parameters <sup>4</sup>

Resonance frequency	Fs	33	Hz
DC resistance	Re	5.0	ohm
Mechanical factor	Qms	8.3	
Electrical factor	Qes	0.33	
Total factor	Qts	0.32	
BL Factor	BL	23.5	T · m
Effective Moving Mass	Mms	180	gr
Equivalent Cas air load	Vas	230	liters
Effettive piston area	Sd	0.113	m <sup>2</sup>
Max. linear excursion (mathematical) <sup>5</sup>	Xmax	7.8	mm
Voice - coil inductance @ 1KHz	Le1K	1.9	mH
Half-space efficiency	Eff	2.30	%

## Mounting Information

Overall Diameter	460/18.1	mm/inch
Bolt Circle Diameter	436-446/17.1-17.4	mm/inch
Bolt Hole Diameter	8/0.31	mm/inch
Front Mount Baffle Cut-out	416/16.3	mm/inch
Rear Mount Baffle Cut-out	418/16.4	mm/inch
Depth	206/8.1	mm/inch
Volume occupied by the driver <sup>6</sup>	5.5/0.19	liters/ft <sup>3</sup>

## Shipping Information

Net Weight	6.5/14.3	Kg/Lbs
Shipping Weight	7.3/16.1	Kg/Lbs

## Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 100-500 Hz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as:  $(Hvc - Hg)/2 + Hg/4$  where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.