# WOOFER
# L18P300ND

Professional Low Frequency Transducer

PART NUMBER **11100037**

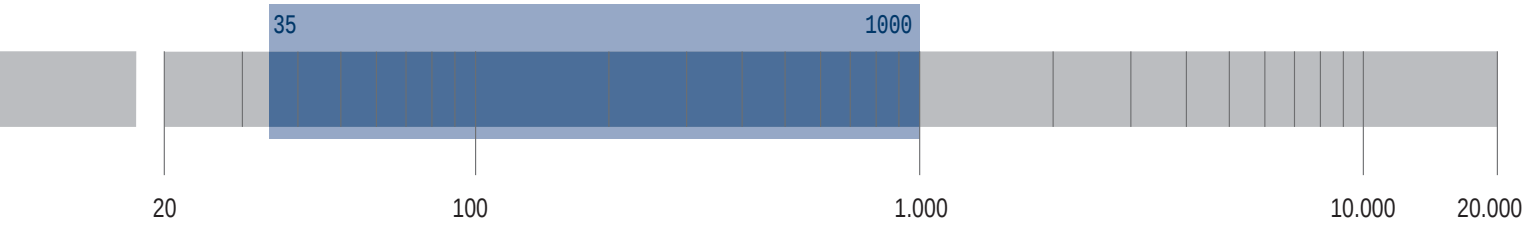
The L18P300ND is derived from L18P300 but with a neo magnetic design and manufactured with a newly designed aluminum basket that provides an excellent ventilation of voice coil, this solution is perfectly compatible with the ferrite version for size and performance . The neo magnetic assembly use a 15mm 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.

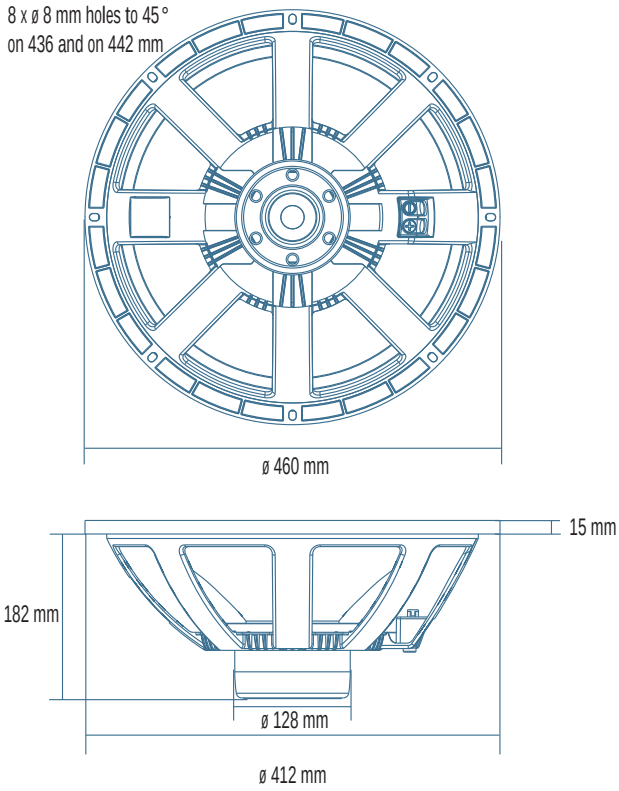
## Features

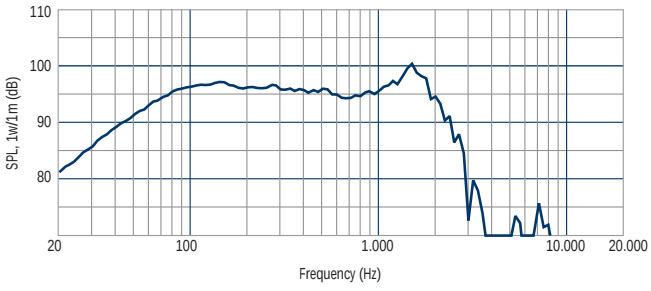
- 4-inch , fibreglass inside-outside copper voice coil
- 2000W continuous program power handling
- 97dB Sensitivity
- 35Hz -1KHz Frequency range
- Forced air ventilation and 15mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- M-roll surround and exponential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

## Applications

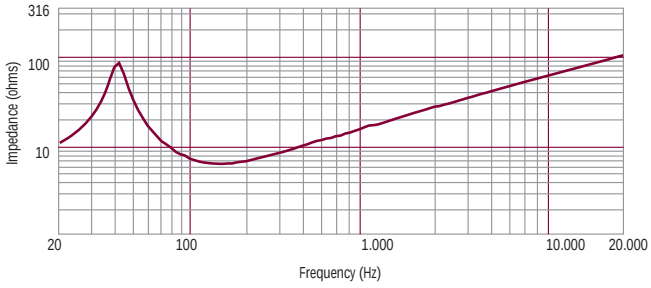
The L18P300ND finds its application in bass reflex and band pass system.. Its capacity to reproduce extremely low frequencies along with extraordinary definition make it a no compromise woofer in its category, ideal for live and recorded music.






Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.




Impedance magnitude curve measured in free air.

## General Specifications

| | | |
|---|---|---|
| Nominal Diameter | 460/18 | mm/inch |
| Rated Impedance | 8 | ohm |
| Program Power [1] | 2000 | Watts |
| Power handling capacity [2] | 1000 | Watts |
| Sensitivity [3] | 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 [4]

| | | | |
|---|---|---|---|
| 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 | $m^2$ |
| Max. linear excursion (mathematical) [5] | 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 [6] | 5.5/0.19 | liters/ft3 |

## 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.