

NDH 18-4

WOOFER

INTERNAL REF. 704300



KEY FEATURES

1500 Watt Max Power

100 mm (4 in) voice coil, copper wire

Demodulating ring for lower distortion

Interleaved sandwich voice coil

Neodymium magnet assembly

Weather protected membrane for outdoor use

Ventilated voice coil and magnet circuit for improved heat dissipation



GENERAL

Nominal Diameter	450mm - 18"
Nominal Impedance	8,00 Ohm
Nominal Rcc	5,8 Ohm ±0,4 Ohm
Power handling (AES)(*)	1000 Watt
Max Power	1500 Watt
Voice Coil Diameter	100 mm 4,00 in
S.P.L. (1w,1m)	98,0 dB ±1,5 dB
Nominal Fs	37 Hz ±4 Hz
Flux Density	1,25 T ±0,08 T
Frequency Range	30-500 Hz
Sinusoidal Test Voltage	20 V

(*) Life Test

Box Volume	180 liters
Input Signal	Pink noise
Band Pass Filter	20-1000Hz, 12dB/oc
V on Speaker	90 V
Test duration	2 hours

MECHANICAL DATA

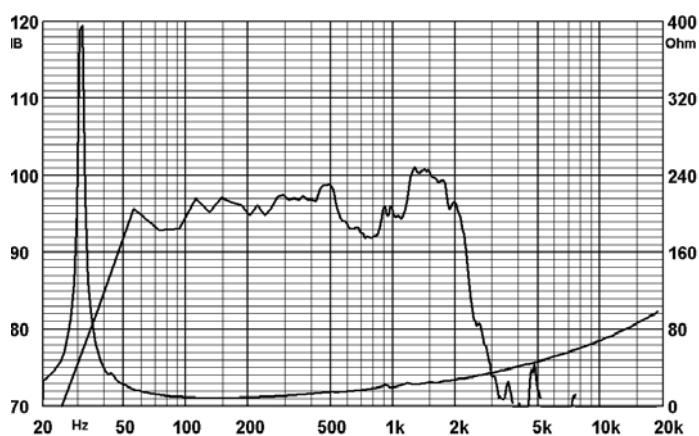
Weight	9,0 kg
Overall Diameter	460 mm
Overall Depth	207 mm
Baffle Cut Diameter	416 mm
Mounting holes number	8
Mounting holes diameter	7 mm
Mounting bolt diameter	440 mm

MATERIALS

Frame Material	Aluminium
Voice Coil Former	Kapton
Voice Coil Wire	Copper
Cone Material	Doped Paper
Cone Shape	Straight
Surround Material	Doped Nomex fabric
Surround Shape	Two waves
Suspension Material	Doped Nomex fabric
Magnet Type	Neodymium
Magnet Notes	620 g

DIAGRAM

Frequency Response	Reflex Box (180 dmc) 5 liters - 2,83 V - 1 m
Impedance	(Iac=10m A)



THIELE-SMALL PARAMETERS

Qms	29,52	Sd	1164,00 cm ²
Qes	0,34	Vas	169,91 liter
Qts	0,34	u0	2,43 %
Fs	37,00 Hz	Xmax	11,5 mm
Re	5,78 Ohm	Le	1,14 mH
Mms	207,00 g	Rms	1,63 Kg/s
Cms	0,09 mm/N	Efficiency	
Bl	28,56 T*m	Bandwidth Product	108,51

Air gap height = mm.14

Winding height = mm.30