PROFESSIONAL LOUDSPEAKERS

18HP1020

18" - 1000 W - 99 dB - 8 Ohm



NOMINAL SPECIFICATIONS

Nominal Diameter	460 mm (18 in)
Overall Diameter	460 mm (18.11 in)
Bolt Circle Diameter	440 mm (17.32 in)
Baffle Cutout Diameter	424 mm (16.69 in)
Depth	202 mm (7.95 in)
Flange and Gasket Thickness	13.9 mm (0.55 in)
Net Weight	**6.5 kg (14.2 lb)**
Shipping Box (Single Carton Box)	503 x 500 x 258 mm (19.8 x 19.7 x 10.2 in)
Shipping Weight	7.8 kg (17.2 lb)

TECHNICAL PARAMETERS

Nominal Impedance	8 Ohm
Minimum Impedance	6.6 Ohm
AES Power Handling **(1)**	1000 W
Maximum Power Handling (2)	**2000 W**
Sensitivity (1W/1m)	**99 dB**
Frequency Range	35÷1600 Hz
Voice Coil Diameter	**100 mm (4 in)**
Winding Material	Cu
Former Material	Glass Fiber
Winding Depth	23 mm (0.91 in)
Magnetic Gap Depth	**12 mm (0.47 in)**
Flux Density	1.3 T
Magnet	Neodymium Slug
Basket Material	Aluminum
Demodulation	No
Cone Surround **(3)**	Triple Roll
NET Air Volume filled by Loudspeaker	6.2 dm^3 (0.219 ft^3)
Spider Profile	2x non-adjacent symmetrical constant height waves

THIELE & SMALL PARAMETERS

Fs	35 Hz
Re	5.4 Ohm
Qes	0.28
Qms	9.74
Qts	0.27
Vas	207.2 dm^3 (7.32 ft^3)
Sd	1134 cm^2 (175.77 in^2)
Xmax **(4)**	9.50 mm
Xdamage **(5)**	17.5 mm
Mms	182.0 g
Bl	28 N/A
Le	1.7 mH
Mmd	159.5 g
Cms	0.11 mm/N
Rms	4.1 kg/s
Eta Zero	3.10 %
EBP	125 Hz

NOTES:

PATENTED IT 2006/000327

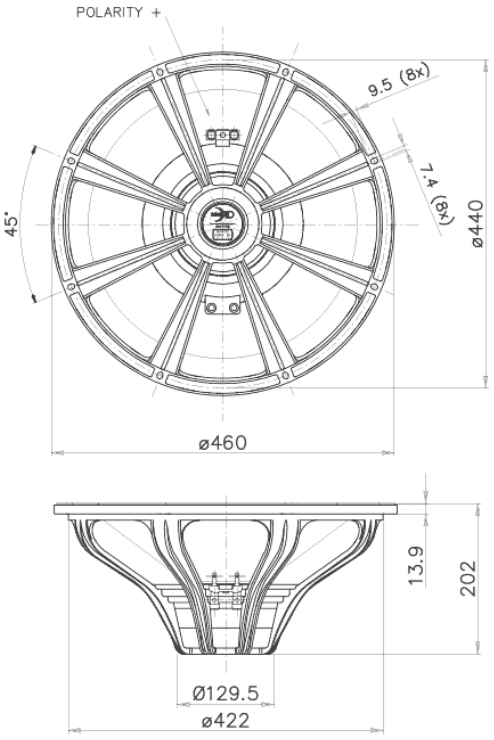
(1) 2 Hours Test According to AES 2-1984 Rev. 2003

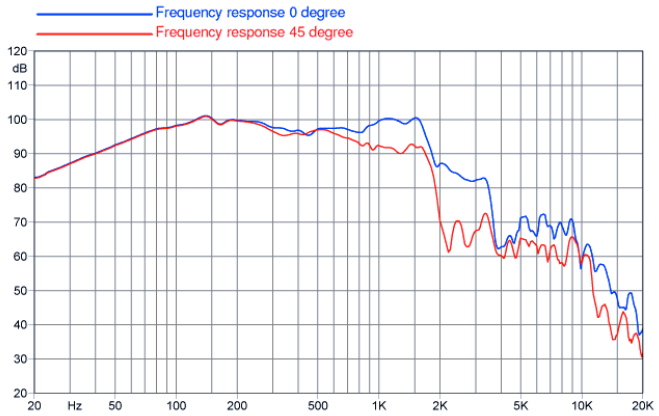
(2) Maximum power is defined as 3dB greater than nominal power.

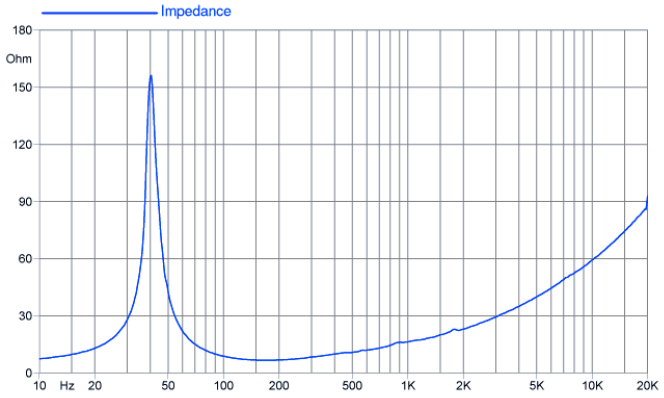
(3) Treated Polycotton

(4) Xmax= [(winding depth - magnetic gap depth)/2] + (magnetic gap depth/3)

(5) Maximum excursion before permanent damage







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