



18HW1070

18" - 1600 W - 97 dB

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	422 mm (16.61 in)
Depth	223 mm (8.78 in)
Flange and gasket Thickness	14 mm (0.55 in)
Net Weight	14.7 kg (32.4 lb)
Shipping Box	490 x 485 x 275 mm
(Single Carton Box)	(19.3 x 19.1 x 10.8 in)
Shipping Weight	16.2 kg (35.7 lb)

TECHNICAL PARAMETERS

Nominal Impedance	8 Ω
Minimum Impedance	6.5 Ω
AES Power Handling (1)	1600 W
Maximum Power Handling (4)	3200 W
Sensitivity (1W/1m)	97 dB
Frequency Range	30 ÷ 1500 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Cu
Former Material	Glass Fiber
Winding Depth	31 mm (1.22 in)
Magnetic Gap Depth	15 mm (0.59 in)
Flux Density	1.1 T
Magnet	Ferrite Ring
Basket Material	Aluminum
Demodulation	Triple Al Dem. Ring
Cone Surround (5)	Triple Roll
NET Air Volume filled by Loudspeaker	7.4 dm ³ (0.261 ft ³)
Spider Profile	2x non-adjacent symmetrical constant height waves

THIELE & SMALL PARAMETERS

Fs	32 Hz
Re	5.4 Ω
Qes	0.39
Qms	10.0
Qts	0.37
Vas	171.2 dm ³ (6.05 ft ³)
Sd	1124 cm ² (174.22 in ²)
Xmax (2)	13 mm
Xdamage (3)	30 mm
Mms	259.0 g
Bl	27 N/A
Le	1.68 mH
Mmd	237.7 g
Cms	0.10 mm/N
Rms	5.2 kg/s
η _e (Eta Zero)	1.41 %
EBP	82 Hz

NOTE:

- (1) 2 Hours Test According to AES 2-1984 Rev. 2003
- (2) $X_{max} = [(Winding\ Depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth / 3)$
- (3) Maximum excursion before permanent damage
- (4) Maximum power is defined as 3dB greater than nominal power
- (5) Treated Polycotton

