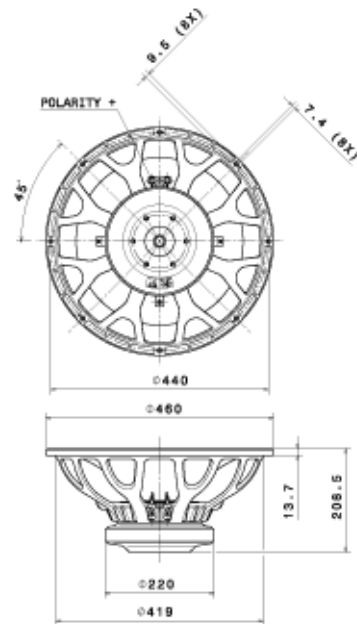




# 18HP1030 High Performance Series



## 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	421 mm (16.57 in)
Depth	208.5 mm (8.21 in)
Flange and Gasket Thickness	13.7 mm (0.54 in)
Net Weight	12.1 Kg (26.57 lb)
Shipping Box (Single Carton Box)	503x500x258 mm (19.80x19.68x10.16 in)
Shipping Weight	13.3 Kg (29.32 lb)

## ELECTRICAL SPECIFICATION

Nominal Impedance	8 Ohm
Minimum Impedance	6.4 Ohm
AES Power Handling *	1200 W
Maximum Power Handling **	2400 W
Sensitivity (1W/1m)	98 dB
Frequency Range	35÷1600 Hz
Voice Coil Diameter	100 mm (4 in)
Winding Material	Cu
Former Material	Glass Fiber
Winding Depth	28.9 mm (1.14 in)
Magnetic Gap Depth	12 mm (0.47 in)
Flux Density	1.1 T
Magnet	Ferrite Ring
Demodulation	Aluminum Ring
Suspension ***	Triple Roll

## THIELE & SMALL PARAMETERS

Fs	35 Hz
Re	5 Ohm
Qes	0.44
Qms	11.6
Qts	0.43
Vas	166.4 dm <sup>3</sup> (5.88 ft <sup>3</sup> )
Sd	1174 cm <sup>2</sup> (182 in <sup>2</sup> )
Xmax ****	12.45 mm
Xdamage *****	23.1 mm
Mms	228.6 g
Bl	24.3 N/A
Le	1.37 mH
Mmd	205.8 g
Cms	0.085 mm/N
Rms	4.46 Kg/s
EBP	80 Hz
Eta Zero	1.67 %

## NOTES

**Spider Profile:** 2x non-adjacent symmetrical constant height waves

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

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

(\*\*\*) Treated Polycotton

(\*\*\*\*)  $X_{max} = [(winding\ depth - magnetic\ gap\ depth) / 2] + (magnetic\ gap\ depth / 3)$

(\*\*\*\*\*) Maximum excursion before permanent damage

# CURVES

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