

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) |

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) $X_{max} = [(winding\ depth - magnetic\ gap\ depth)/2] + (magnetic\ gap\ depth/3)$
- (5) Maximum excursion before permanent damage

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 |

