faital PRO PROFESSIONAL LOUDSPEAKERS

# 18HP1022

18" - 1000 W - 98 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 | 422 mm (16.61 in) |
| Depth | 202 mm (7.95 in) |
| Flange and Gasket Thickness | 14 mm (0.55 in) |
| **Net Weight** | **6.6 kg (14.6 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) |

## PART NUMBER

| | |
|---|---|
| Push Terminals - 8 Ohm Version | 04604159 |
| Recone Kit - 8 Ohm Version | R4604159 |

## TECHNICAL PARAMETERS

| | |
|---|---|
| Nominal Impedance | 8 Ohm |
| Minimum Impedance | 6.5 Ohm |
| AES Power Handling **(1)** | 1000 W |
| **Maximum Power Handling (2)** | **2000 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 | 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 | 5.8 dm^3 (0.205 ft^3) |
| Spider Profile | 2x non-adjacent symmetrical constant height waves |

## THIELE & SMALL PARAMETERS

| | |
|---|---|
| Fs | 35 Hz |
| Re | 5.4 Ohm |
| Qes | 0.31 |
| Qms | 14.4 |
| Qts | 0.3 |
| Vas | 204.9 dm^3 (7.24 ft^3) |
| Sd | 1212 cm^2 (187.86 in^2) |
| Xmax **(4)** | 9.50 mm |
| Xdamage **(5)** | 17.5 mm |
| Mms | 207.0 g |
| Bl | 28 N/A |
| Le | 1.75 mH |
| Mmd | 159.3 g |
| Cms | 0.10 mm/N |
| Rms | 3.67 kg/s |
| Eta Zero | 2.72 % |
| EBP | 113 Hz |

**NOTES:**

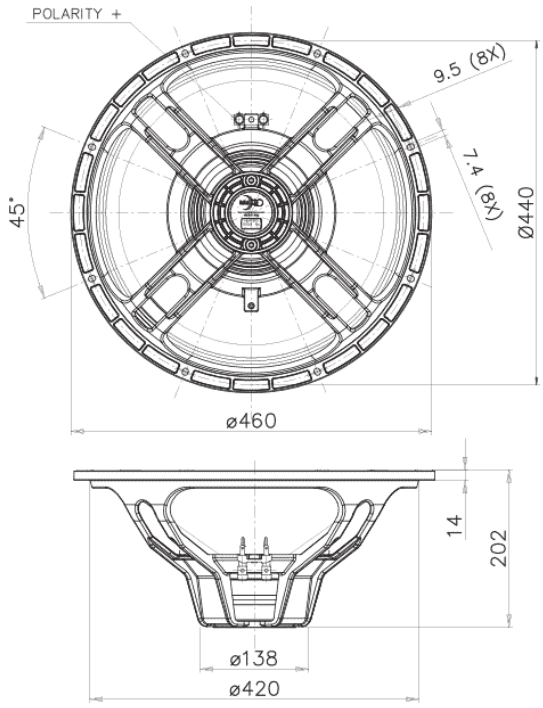
**(1)** 2 Hours Test According to AES 2-1984 Rev. 2003

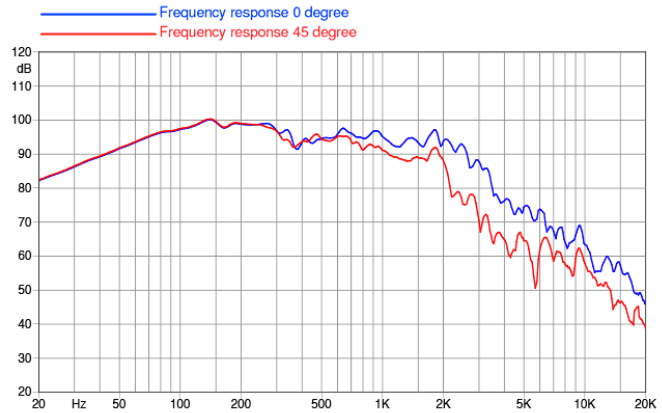
**(2)** Maximum power is defined as 3dB greater than nominal power.

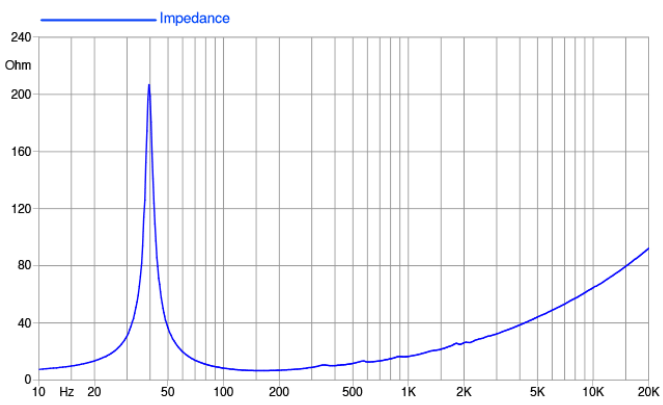
**(3)** Treated Polycotton

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

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





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