



- 98 dB SPL 1W/ 1m average sensitivity
- 51 mm (2 in) Interleaved Sandwich Voice coil (ISV)
- 280 WAES power handling
- Improved heat dissipation via unique basket design
- Ideal for compact two way and multiway systems

The 10W400 is a low frequency driver designed to satisfy the need for a 10" ferrite loudspeaker combining excellent linearity with good sensitivity and power handling characteristics. The transducer is primarily recommended for compact bass reflex systems in enclosures as small as 25 lt.

The paper curvilinear cone is carried by a dampened linen, double half-roll front suspension to control vibration modes. The 8 mm Xmax ensures good travel control and linear excursion.

The 50 mm diameter state-of-the-art, copper wire voice coil employs same technology fitted to our top-of-the-range models, that is our Interleaved Sandwich Voice coil (ISV) technology. A high strength fibreglas former carries windings on both the outer and inner surfaces to achieve a mass balanced coil. This results in an extremely linear motor assembly which, in conjunction with the highly advanced design of the magnetic structure, provides a high force factor or BL.

Another feature of our products, retained in the 10W400 are the fine air channels between the chassis back plate and the top plate of the magnet, which draw heated air out from the voice coil gap and dissipate the energy through the chassis casting.

The top and back plates of the magnet assembly have been designed to optimise flux density and BL factor in the air gap using our in-house FEA CAD facility.



# 10W400 8Ω

## LF drivers - 10.0 Inches

### SPECIFICATIONS

Nominal Diameter	260 mm ( in)
Nominal Impedance	8 Ω
Nominal Power Handling <sup>1</sup>	280 W
Continuous Power Handling <sup>2</sup>	400 W
Sensitivity <sup>3</sup>	98.0 dB
Frequency Range	55 - 4500 Hz
Voice Coil Diameter	51 mm (2.0 in)
Winding Material	aluminum

### PARAMETERS<sup>4</sup>

Resonance Frequency	70 Hz
Re	5.1 Ω
Qes	0.44
Qms	3.99
Qts	0.4
Vas	31.0 dm <sup>3</sup> (1.09 ft <sup>3</sup> )
Sd	350.0 cm <sup>2</sup> (54.25 in <sup>2</sup> )
Xmax	5.5 mm
Mms	27.0 g
Bl	11.7 Txm
Le	1.2 mH
EBP	159 Hz

### DESIGN

Surround Shape	M-roll
Cone Shape	Curvilinear
Magnet Material	Ferrite
Recommended Enclosure	35.0 dm <sup>3</sup> (1.24 ft <sup>3</sup> )
Recommended Tuning	70 Hz

### MOUNTING AND SHIPPING INFO

Overall Diameter	260 mm (10.24 in)
Bolt Circle Diameter	244 mm (9.61 in)
Baffle Cutout Diameter	232.0 mm (9.13 in)
Depth	121 mm (4.76 in)
Flange and Gasket Thickness	14 mm (0.55 in)
Net Weight	4.7 kg (10.36 lb)
Shipping Weight	5.1 kg (11.24 lb)
Shipping Box	276 x 275 x 164 mm (10.87x10.83x6.46 in)

1. 2 hours test made with continuous pink noise signal within the range Fs-10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
2. Power on Continuous Program is defined as 3 dB greater than the Nominal rating.
3. Applied RMS Voltage is set to 2.83 V for 8 ohms Nominal Impedance.
4. Thiele-Small parameters are measured after a high level 20 Hz sine wave preconditioning test.