

LF18X400

WOOFER

DESCRIPTION

Incredibly linear frequency response characteristics, extreme high power handling while generating the lowest harmonic distortion of any comparable 18-inch transducer within its application range. The LF18X400 uses a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround. A fully optimised T-pole design generate the minimum amount of flux modulation. The T-pole also features RCF Precision's spaced gap demodulation technology, progressively braking the voice coil, providing a much smoother transition for the moving mass as it reaches its maximum excursion limits. Forced air venting system.



FEATURES

- 4-inch, fiberglass inside/outside copper voice coil
- 2000W continuous program power handling
- 97.5 dB Sensitivity
- 25 Hz – 1 kHz Frequency range
- Progressive, spaced, aluminum demodulation rings
- Forced air ventilation and 14 mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- Triple roll surround and corrugated straight cone geometry

TECHNICAL SPECIFICATIONS

General specifications

Nominal Diameter:	18 inch / 457 mm
Rated Impedance:	8 ohm
Program Power (watt):	2000 W
Power handling capacity:	1000 W
Sensitivity:	97.5 dB
Frequency range:	25 - 1000 Hz
Effective piston diameter:	395 mm / 15.55 inch
Max. Excursion Before Damage:	50 mm / 1.97 inch
Minimum Impedance (ohm):	6.0 ohm
Voice Coil Diameter:	4.0 inch / 102 mm
Voice Coil Winding Material:	Copper
Voice Coil Length:	25 mm / 0.98 inch
Number of layers:	2
Kind of layers:	inside/outside
Top Plate Thickness:	14 mm / 0.55 inch
Cone Design:	Straight
Surround Material:	Polycotton
Surround Design:	Triple roll
Magnets:	Ceramic
Dual-force air ventilation:	Yes
Spider:	Dual with silicon based damping control

Thiele - small parameters

Resonance frequency (Fs):	28 Hz
DC resistance (Re) (ohm):	5.10 ohm
Mechanical factor:	6.50 Qms
Electrical factor:	0.29 Qes
Total factor:	0.27 Qts
Bl factor (Bl) (T x m):	25.00 T x m
Effective moving mass (Mms):	192.0 g
Equivalent Cas air loaded (Vas):	340.0 liters
Effettive piston area (Sd):	0.120 m ²
Max. linear excursion (Xmax):	9.0 mm
Voice coil inductance @ 1kHz (Le1k):	1.20 mH
Half-space efficiency (Eff):	2.64%

Mounting informations

Overall diameter:	465 mm / 18.31 inches
Bolt circle diameter:	442-447 mm / 17.4-17.6 inch
Bolt hole diameter:	7 mm / 0.28 inch
Front mount baffle cut-out:	424 mm / 16.69 inch
Rear mount baffle cut-out:	424 mm / 16.69 inch
Volume occupied by the driver:	7 liters / 0.28 ft ³

Standard compliance

CE marking:	Yes
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**Size**

Height:	228 mm / 8.98 inches
Diameter:	465 mm / 18.31 inches
Weight:	13.3 kg / 29.32 lbs

Shipping informations

Package Height:	270 mm / 10.63 inches
Package Width:	500 mm / 19.69 inches
Package Depth:	510 mm / 20.08 inches
Package Weight:	15.6 kg / 34.39 lbs

PART NUMBER

- **11185002**
LF18X400
8ohm



