

# LF12X401

## WOOFER

### DESCRIPTION

Very 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 LF12X401 uses a fibre loaded cone assembly along with a high excursion triple roll surround. This combination provides remarkable strength and a peak to peak maximum excursion of 50 mm. The new dual forced hyper-venting system guarantee a very efficient voice coil ventilation for minimum power compression and incredible power handling.



### FEATURES

- 4-inch, fiberglass inside/outside copper voice coil
- 2000W continuous program power handling
- 96 dB Sensitivity
- 45 Hz – 1.5 kHz Frequency range
- Dual Forced Hyperventing System
- Single spider designed

## TECHNICAL SPECIFICATIONS

### General specifications

Nominal Diameter:	12 inch / 305 mm
Rated Impedance:	8 ohm
Program Power (watt):	2000 W
Power handling capacity:	1000 W
Sensitivity:	96.5 dB
Frequency range:	45 - 1500 Hz
Effective piston diameter:	260 mm / 10.24 inch
Max. Excursion Before Damage:	60 mm / 2.36 inch
Minimum Impedance (ohm):	6.5 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:	15 mm / 0.59 inch
Cone Design:	Curved
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):	45 Hz
DC resistance (Re) (ohm):	5.20 ohm
Mechanical factor:	8.00 Qms
Electrical factor:	0.28 Qes
Total factor:	0.27 Qts
Bl factor (Bl) (T x m):	26.10 T x m
Effective moving mass (Mms):	105.0 g
Equivalent Cas air loaded (Vas):	50.0 liters
Effective piston area (Sd):	0.050 m <sup>2</sup>
Max. linear excursion (Xmax):	9.0 mm
Voice coil inductance @ 1kHz (Le1k):	1.00 mH
Half-space efficiency (Eff):	1.50%

### Mounting informations

Overall diameter:	320 mm / 12.6 inches
Bolt circle diameter:	293-304 mm / 11.54-11.97 inch
Bolt hole diameter:	7 mm / 0.28 inch
Front mount baffle cut-out:	282 mm / 11.1 inch
Rear mount baffle cut-out:	284 mm / 11.18 inch
Volume occupied by the driver:	2.9 liters / 0.11 ft <sup>3</sup>

### Standard compliance

CE marking:	Yes
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<b>Size</b>	Height:	134 mm / 5.28 inches
	Diameter:	320 mm / 12.6 inches
	Weight:	11.37 kg / 25.07 lbs

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<b>Shipping informations</b>	Package Height:	194 mm / 7.64 inches
	Package Width:	364 mm / 14.33 inches
	Package Depth:	354 mm / 13.94 inches
	Package Weight:	12.3 kg / 27.12 lbs

## **PART NUMBER**

- **11100096**  
LF12X401  
8ohm



