

# LF18X401

## 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 LF18X401 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
- 3000W continuous program power handling
- 97.5 dB Sensitivity
- 25 Hz – 1 kHz Frequency range
- Dual Forced Hyperventing System
- 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):	3000 W
Power handling capacity:	1500 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):	6.5 ohm
Voice Coil Diameter:	4.0 inch / 102 mm
Voice Coil Winding Material:	Copper
Voice Coil Length:	30 mm / 1.18 inch
Number of layers:	2
Kind of layers:	inside/outside
Top Plate Thickness:	15 mm / 0.59 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):	30 Hz
DC resistance (Re) (ohm):	5.40 ohm
Mechanical factor:	7.40 Qms
Electrical factor:	0.31 Qes
Total factor:	0.30 Qts
Bl factor (Bl) (T x m):	26.50 T x m
Effective moving mass (Mms):	215.0 g
Equivalent Cas air loaded (Vas):	274.0 liters
Effective piston area (Sd):	0.120 m <sup>2</sup>
Max. linear excursion (Xmax):	12 mm
Voice coil inductance @ 1kHz (Le1k):	0.83 mH
Half-space efficiency (Eff):	2.30%

### 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:	425 mm / 16.73 inch
Volume occupied by the driver:	6.5 liters / 0.26 ft <sup>3</sup>

### Standard compliance

CE marking:	Yes
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<b>Size</b>	Height:	196 mm / 7.72 inches
	Diameter:	465 mm / 18.31 inches
	Weight:	12.5 kg / 27.56 lbs

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<b>Shipping informations</b>	Package Height:	254 mm / 10 inches
	Package Width:	524 mm / 20.63 inches
	Package Depth:	494 mm / 19.45 inches
	Package Weight:	15 kg / 33.07 lbs

## **PART NUMBER**

- **11100089**  
LF18X401  
8ohm



