## DATASHEET



# 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 Tpole 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**

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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
	BI factor (BI) (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 m2
	Max. linear excursion (Xmax):	9.0 mm
	Voice coil inductance @ 1kHz (Le1k):	1.20 mH
	Half-space efficency (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 ft3

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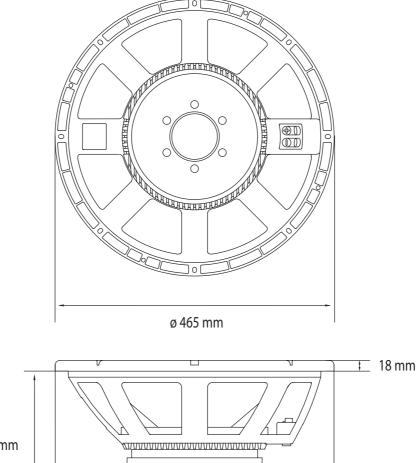
#### Size Height: 228 mm / 8.98 inches Diameter: 465 mm / 18.31 inches 13.3 kg / 29.32 lbs Weight: **Shipping informations** 270 mm / 10.63 inches Package Height: Package Width: 500 mm / 19.69 inches Package Depth: 510 mm / 20.08 inches Package Weight: 15.6 kg / 34.39 lbs

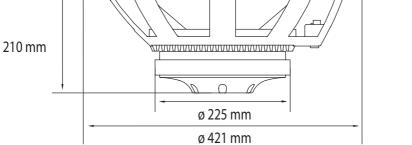
### PART NUMBER

### • 11185002 LF18X400

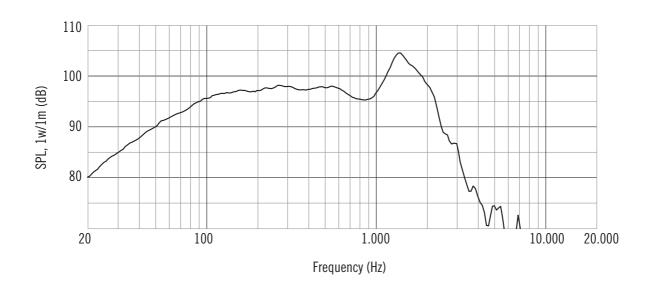
8ohm

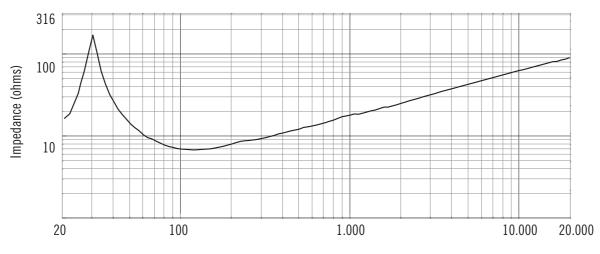












Frequency (Hz)