

WOOFER

LF18N405

Professional Low Frequency Transducer

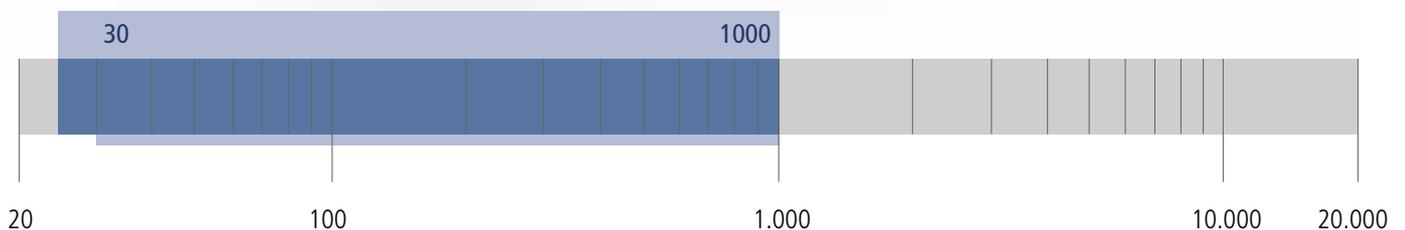
PART NUMBER **11100022**

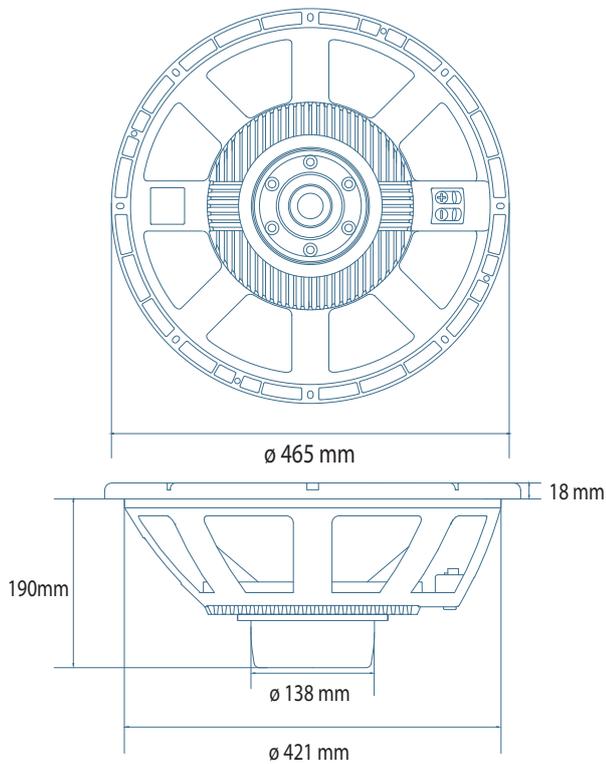
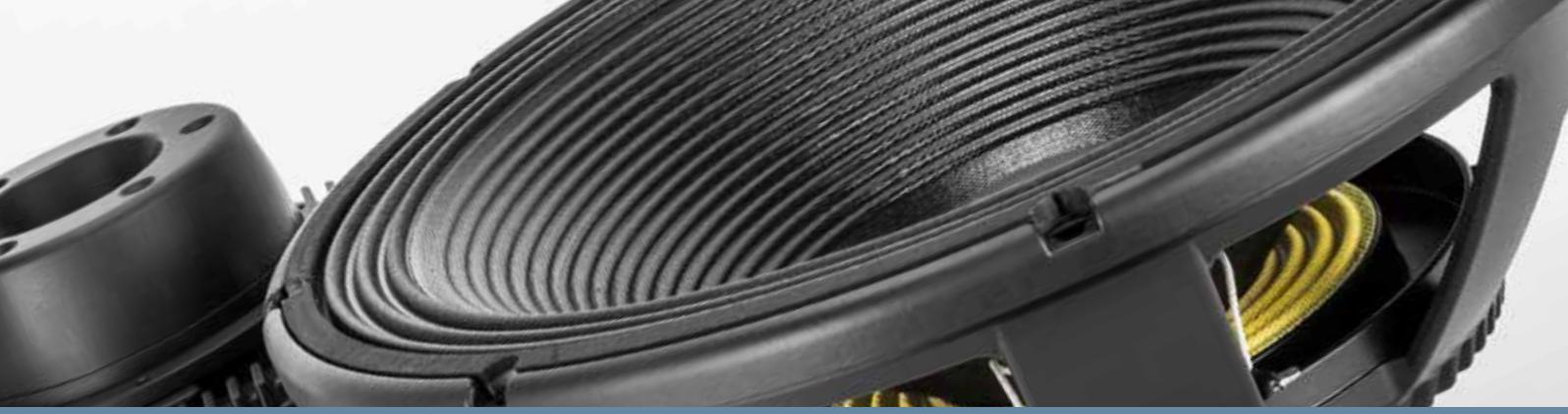
The LF18N405 is an extended low frequency with high power handling , designed to provide powerful and accurate bass frequencies with low distortion, low power compression and very high SPL. The LF18N405 uses a fibre loaded cone assembly along a large triple roll surround, this combination provides remarkable strength and control. The single spider system is specifically designed with a heavy cloth which ensures excellent control during large excursions. A fully optimised T-pole design generates the minimum amount of flux modulation. The Dual-forced air venting magnetic structure system provides a very efficient voice coil ventilation to minimize the power compression.

- 4,0 - inch Inside/Outside copper voice coil
- 3000 Watt continuous program power handling
- 97 dB Sensitivity
- 25Hz - 1kHz Frequency range
- Hypervented magnetic structure for minimum power compression
- Triple roll surround and exponential cone geometry

APPLICATIONS

The LF18N405 is ideal for use in applications where incredible power handling is required, long excursion and light weight. Specially designed for touring, perfect for high quality professional bass reflex or bandpass enclosure.





GENERAL SPECIFICATIONS

Nominal Diameter	460/18	mm/inch
Rated Impedance	8	ohm
Program Power ¹	3000	Watts
Power handling capacity ²	1500	Watts
Sensitivity ³	97	dB
Frequency Range	25 - 1000	Hz
Effective Piston Diameter	395/15.6	mm/inch
Max Excursion Before Damage (peak to peak)	58/2.28	mm/inch
Minimum Impedance	6.0	ohm
Voice Coil Diameter	100/4,0	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	36/1.41	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15/0.6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	Triple roll	

THIELE - SMALL PARAMETERS ⁴

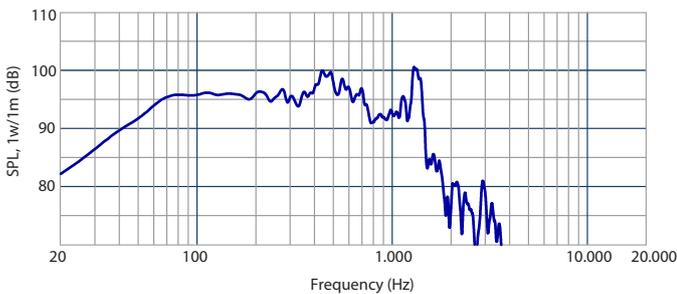
Resonance frequency	Fs	30	Hz
DC resistance	Re	4.9	ohm
Mechanical factor	Qms	7.0	
Electrical factor	Qes	0.34	
Total factor	Qts	0.32	
BL Factor	BL	26.5	T · m
Effective Moving Mass	Mms	261	gr
Equivalent Cas air load	Vas	227	liters
Effective piston area	Sd	0.122	m ²
Max. linear excursion (mathematical) ⁵	Xmax	14.2	mm
Voice - coil inductance @ 1KHz	Le1K	1.7	mH
Half-space efficiency	Eff	1.70	%

MOUNTING INFORMATION

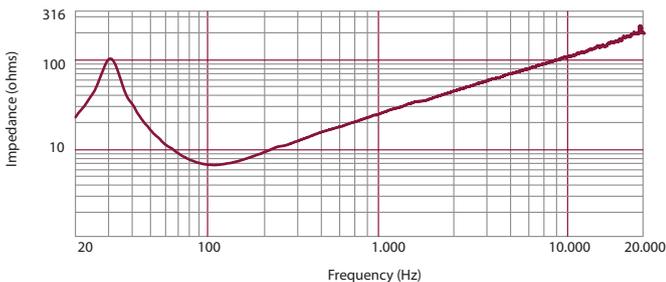
Overall Diameter	465/18.3	mm/inch
Bolt Circle Diameter	442-447/17.4-17.6	mm/inch
Bolt Hole Diameter	6.5/0.25	mm/inch
Front Mount Baffle Cut-out	424/16.7	mm/inch
Rear Mount Baffle Cut-out	425/16.7	mm/inch
Depth	190/7.48	mm/inch
Volume occupied by the driver ⁶	5.5/0.19	liters/ft3

SHIPPING INFORMATION

Net Weight	8.8/19	Kg/Lbs
Shipping Weight	10/22	Kg/Lbs



Frequency response curve of the loudspeaker made in a hemispherical, free field applying a sinusoidal signal of 2.83 V @8 at 1m.



Impedance magnitude curve measured in free air

NOTES TO SPECIFICATIONS

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2,5 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: $(Hvc - Hg)/2 + Hg/4$ where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.

The data are not binding; RCF reserves the right to modify the data at any time and without previous notice.