

### PART NUMBER 11100045

Incredibly linear frequency response characteristics, extreme high power handling while generating the lowest harmonic distortion of any comparable 15-inch transducer within its application range. The L15P400 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 52 mm. 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

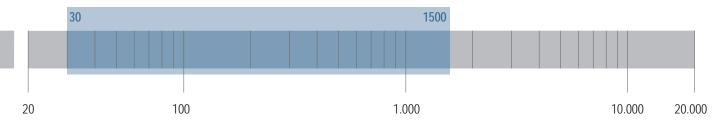
- 4-inch, fibreglass inside-outside copper voice coil
- 1600 Watt continuous program power handling
- 97 dB Sensitivity
- 30 Hz 1.5 kHz Frequency range
- Aluminum demodulation ring
- Forced air ventilation and 14 mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

# **Applications**

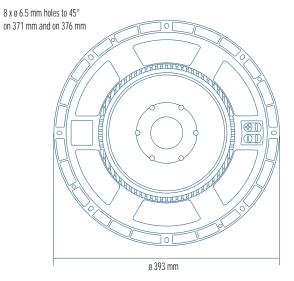
The L15P400 is ideal for use in applications whereincredible power handling, long excursion and perfect control is required. Ideal for high quality professional bass reflex and bass-horn systems, incredible when used in double 15" subwoofer configuration.

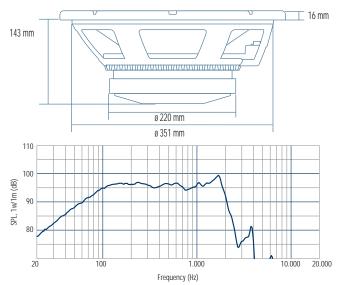
The transducer's low frequency extension, coupled with its extremely low generation of harmonic distortion, also makes it ideal for use within critical listening applications such as studio monitoring subwoofer systems.



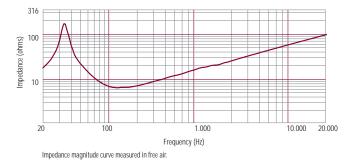








Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver.



### **General Specifications**

Nominal Diameter	380/15	mm/inch	
Rated Impedance	8	ohm	
Program Power <sup>1</sup>	1600	Watts	
Power handling capacity <sup>2</sup>	800	Watts	
Sensitivity <sup>3</sup>	97	dB	
Frequency Range	30 - 1500	Hz	
Effective Piston Diameter	340/13.4	mm/inch	
Max Excursion Before Damage (peak to peak)	50/2.0	mm/inch	
Minimum Impedance	6.3	ohm	
Voice Coil Diameter	100/4	mm/inch	
Voice Coil Material	Copper		
Voice Coil Winding Depth	23/0.9	mm/inch	
Number of layers	2		
Kind of layer	inside/outside		
Top Plate Thickness	14/0.55	mm/inch	
Cone Material	No pressed pulp		
Cone Design	Straight		
Surround Material	Polycotton		
Surround Design	Triple roll		

## Thiele - Small Parameters<sup>4</sup>

Resonance frequency	Fs	36	Hz
DC resistance	Re	4.8	ohm
Mechanical factor	Qms	7.5	
Electrical factor	Qes	0.27	
Total factor	Qts	0.25	
BL Factor	BL	24.8	T · m
Effective Moving Mass	Mms	150	gr
Equivalent Cas air load	Vas	160	liters
Effettive piston area	Sd	0.091	m <sup>2</sup>
Max. linear excursion (mathematical) <sup>5</sup>	Xmax	8.0	mm
Voice - coil inductance @ 1KHz	Le1K	2.2	mH
Half-space efficiency	Eff	2.6	%

## **Mounting Information**

Overall Diameter	393/15.5	mm/inch
Bolt Circle Diameter	371-376/14.6-14.8	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	352/13.9	mm/inch
Rear Mount Baffle Cut-out	360/14.2	mm/inch
Depth	158/6.2	mm/inch
Volume occupied by the driver <sup>6</sup>	4.3/0.15	liters/ft3

## **Shipping Information**

Net Weight	12.6/27.7	Kg/Lbs
Shipping Weight	13.6/29.9	Kg/Lbs

#### 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 100-500 Hz 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.