

# MUSICSON FR-615

## FEATURES

**Two way passive system**  
**Bass-Reflex box design to extend low frequencies**  
**User rotatable 60° x 40° high frequency polar response**  
**15" low frequency driver with 3" Double-Side voice coil**  
**1.75" polymer diaphragm driver for high frequencies**  
**600W RMS power handling**

## DESCRIPTION

FR-615 enclosure is a two passive way multipurpose cabinet offering high performance and sound levels in a vertical or horizontal shape. Design and components quality, make FR-615 a perfect system to be used for indoor or outdoor uses as reinforcement of music and speech in entertainment or live applications.

Designed as bass-reflex tuned to optimized low frequency, system extends frequency bandwidth from 43Hz to 19KHz.

Low frequency transducer consists on a 15" speaker with a 3" Double-Side voice coil. Due voice coil and refrigeration design makes this driver capable to admit up to 500W RMS.

Passive filter has been designed with massive core iron inductors as well as high voltage capacitors for less acoustic output losses at higher output levels including a passive high frequency driver protection.

High frequency transducer consists on a powerful 1.75" polymer diaphragm to increase very high frequency response with less distortion than metallic ones. Using polymer diaphragm, driver is capable to go down up to 1.5KHz with less distortion but increasing lifespan due to a higher resistance to mechanical fatigue.

The enclosure is manufactured with 15mm Marine Plywood and finished with a durable bi-component polyurea (POLYDUR) paint.

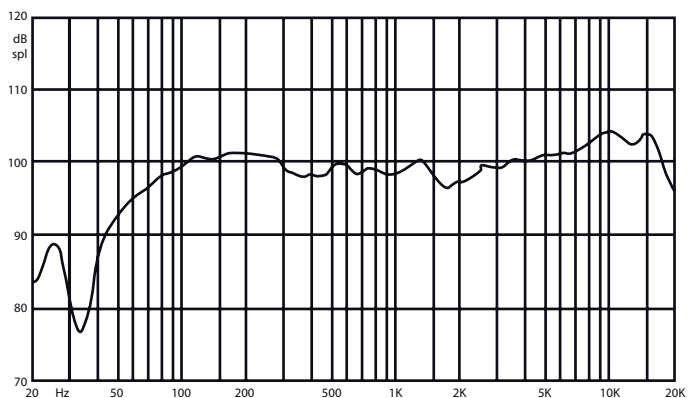
The enclosure offer 5 M6 nuts rigging points on top and botton to fly. FR-615 also offer 2 integrated handles and a standard 35mm socket for stand mounting

## SPECIFICATIONS

SYSTEM DESIGN	15", two way bass-reflex,
FREQUENCY RANGE (-10dB)	43Hz - 19KHz
FREQUENCY RESPONSE (-6dB)	47Hz - 18.5KHz
COVERAGE ANGLES	60° X 40°
X-OVER FREQUENCY	1500HZ
POWER RMS/ PROG/PEAK	600W/1200W/2400W
SPL ( 1W / 1m )	99 dB
MAXIMUM PEAK SPL	134 dB
NOMINAL IMPEDANCE	8 OHM
ENCLOSURE	symmetrical, Marine Plywood
FINISHING	Polydur, polyurea based
CONNECTORS	2 Neutrik Speakon NL4MP
SUSPENSION	5 M6 points each side
DIMENSIONS ( H x W x D )	71 x 45 x 43 cm
WEIGHT	32 Kg



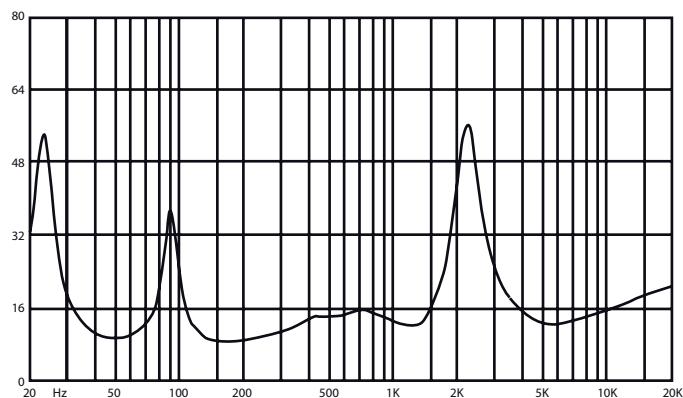
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## FREQUENCY

Figure shows frequency response of FR-615 at 1 m from microphone.

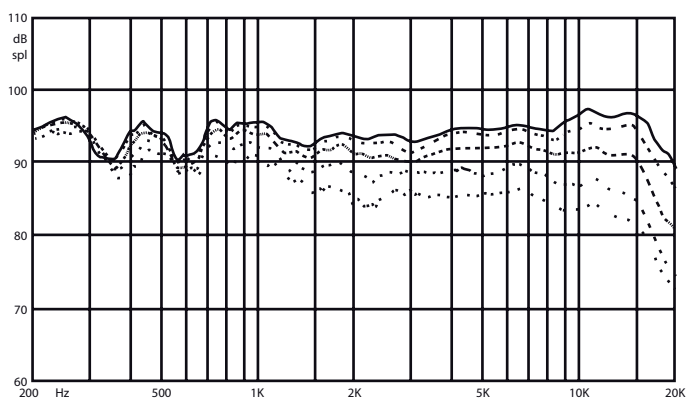
Frequency Response obtained in anechoic conditions with a MLS signal with 2.82V output one-third octave smoothed.



## IMPEDANCE

Figure shows FR-615 Impedance response.

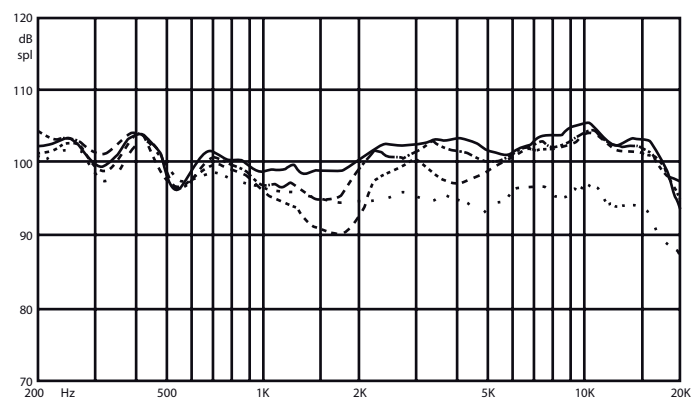
Impedance response obtained with a sinusoidal swept of 2.82V with a constant voltage method.



## HORIZONTAL OFF AXIS FREQUENCY

Figure shows FR-615 horizontal off axis Frequency Responses above 200Hz for 0°, 10°, 20°, 30° and 40°.

Frequency Response obtained in anechoic conditions with a MLS signal with 2.82V output one-third octave smoothed.



## VERTICAL OFF AXIS FREQUENCY

Figure shows fr-615 vertical off axis Frequency Responses above 200Hz for 0°, 10°, 20° and 30°.

Frequency Response obtained in anechoic conditions with a MLS signal with 2.82V output one-third octave smoothed.

