

XTCARDIOID

High Power Subwoofers



“big punch” cardioid subwoofer

GENERAL INFORMATION

The XTCARDIOID model is a subwoofer designed to provide the maximum sound performance for concerts, shows and other musical events. It can meet the needs for a high power and great impact installation, it is versatile and scalable for a wide range of applications from touring sector to permanent installations. The XTCARDIOID subwoofer is the only system capable of making the low frequencies directional by increasing front radiation and reducing rear radiation. In this way, all the stage disturbances are avoided. Moreover, the system can be configured to obtain a hypercardioid solution by further reducing the side radiation.

COMPONENTS

The XTCARDIOID is equipped with two front high dynamics 18” woofers and a rear high dynamics 18” woofer (all with neodymium magnet), with an RMS power capability of up to 3600 Watt. The heat generated inside the system is dispersed through a suitable heat sink located in the lower part of the loudspeaker basket.

CABINET

The subwoofer cabinet is made of 0.6” (15 mm) thick birch plywood and is equipped with an internal reinforcement frame in order to eliminate any resonance produced by the chassis itself. The structure has been specially designed to withstand any kind of mechanical stress without vibrating and for an easy transport and positioning of the unit, thanks to the special wheelboard available on request.

TECHNICAL FEATURES

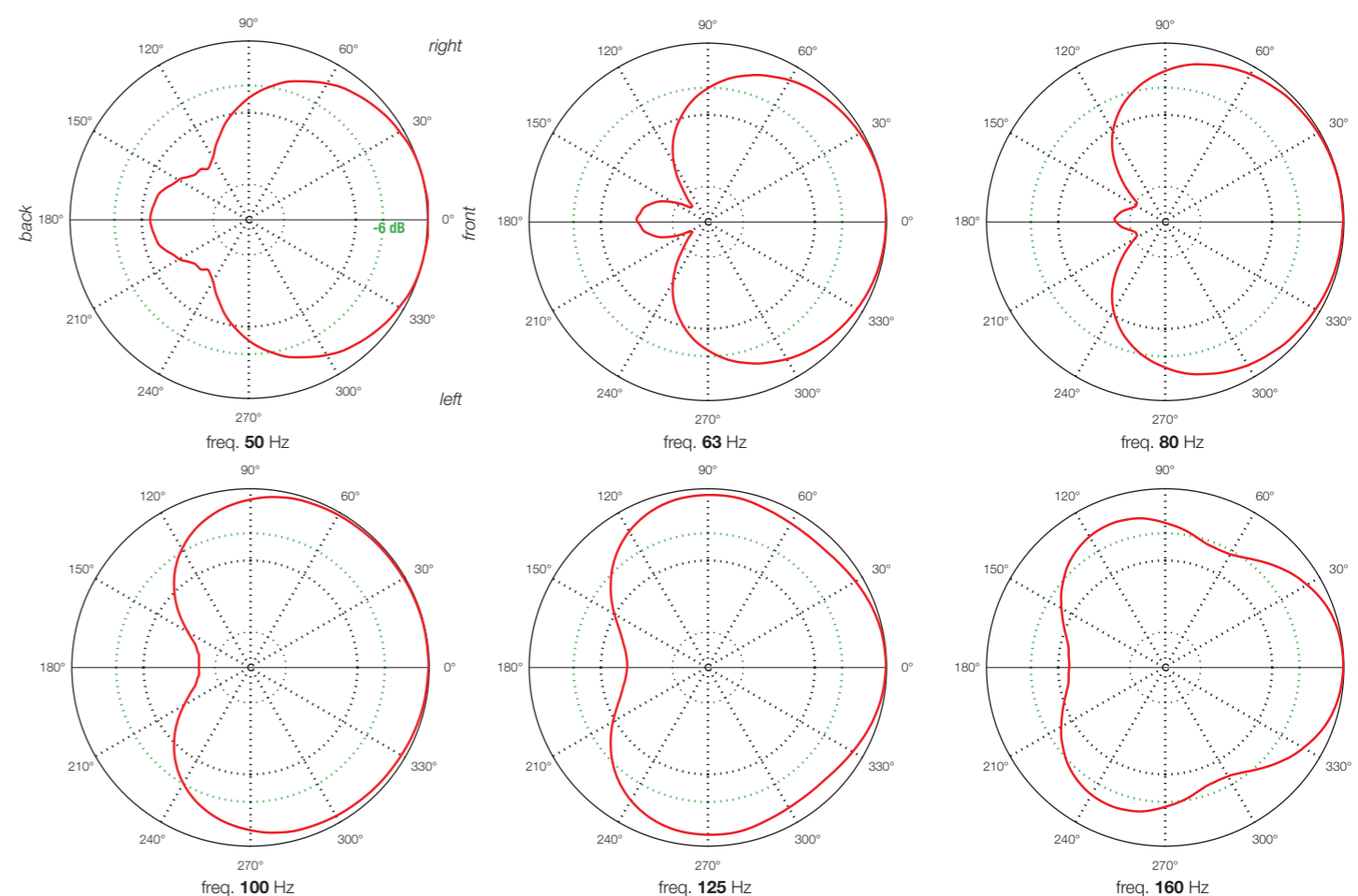
System configuration	cardioid subwoofer
Power handling RMS: front	2400 W
Power handling Music: front	4800 W
Power handling Peak: front	9600 W
Power handling RMS: rear	1200 W
Power handling Music: rear	2400 W
Power handling Peak: rear	4800 W
Frequency response (-3 dB)	30±150 Hz
Nominal impedance: front	4 Ohm
Nominal impedance: rear	8 Ohm
Axial sensitivity (1W@1m)	103 dB
Continuous SPL (@1m)	138 dB
Peak SPL (@1m)	144 dB
Recommended frequency cut	100 Hz

Transducers

LF sub system	3x18” neodymium
Nominal impedance	8 Ohm
Nominal power handling	1200 W
Sensitivity (1W@1m)	97 dB

All measurements have been taken in the Sound Corporation research laboratories.

POLAR PATTERNS (normalized, ref. on axis, passive X-over, 1/3 oct. bands)

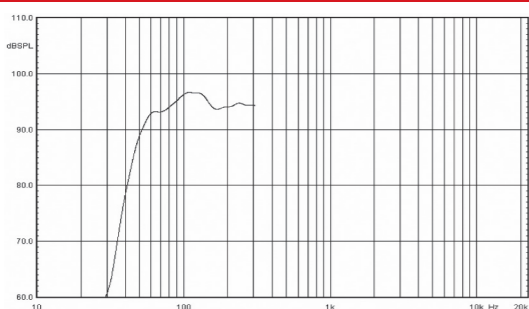


This section only includes the **horizontal** polar patterns, because, in compliance with the design philosophy underlying this special product, the main purpose of this cardioid subwoofer is to control the sound field on the horizontal plane where the unit is placed.

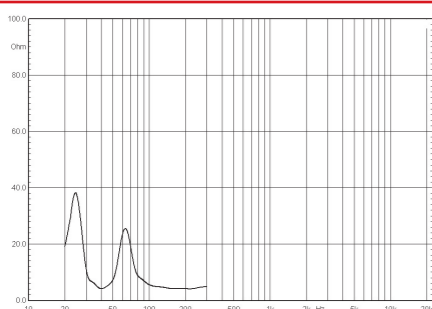
Polar Patterns Key

- **horizontal**
- **vertical**
- ⋯ **10 dB/div**
- 30° sectors**

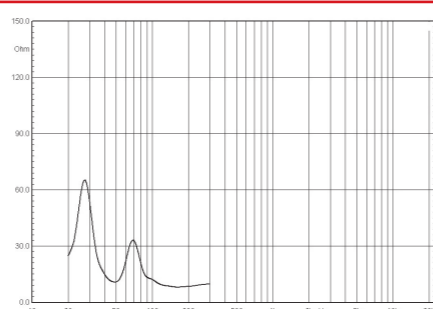
Frequency response



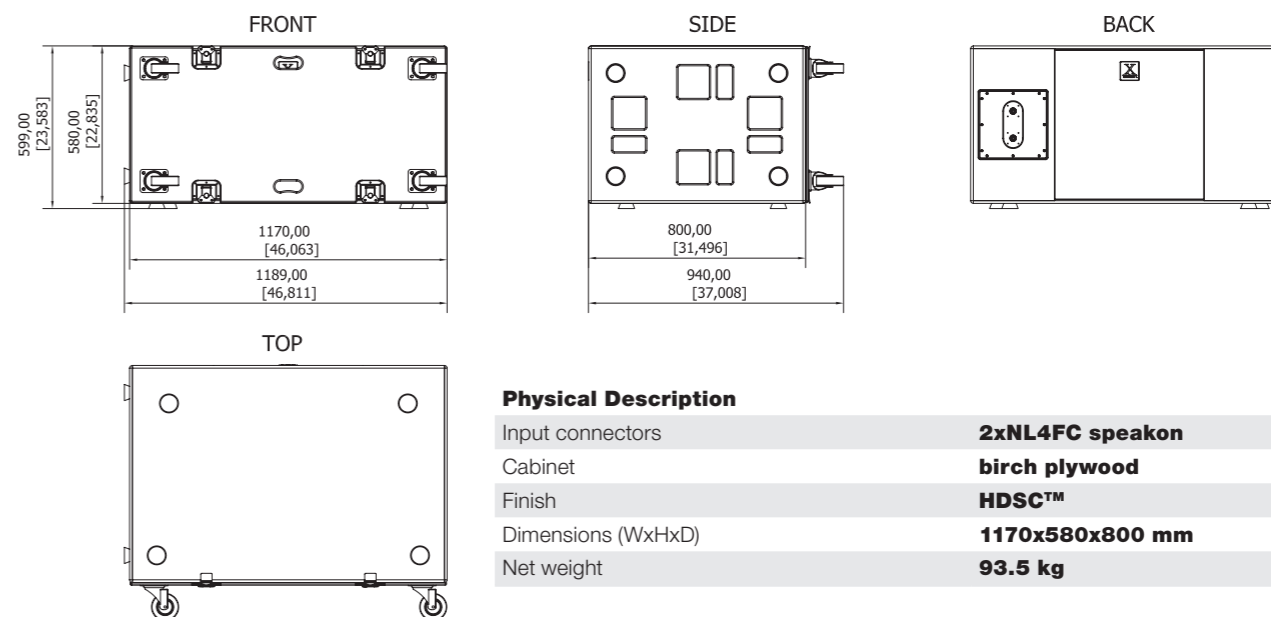
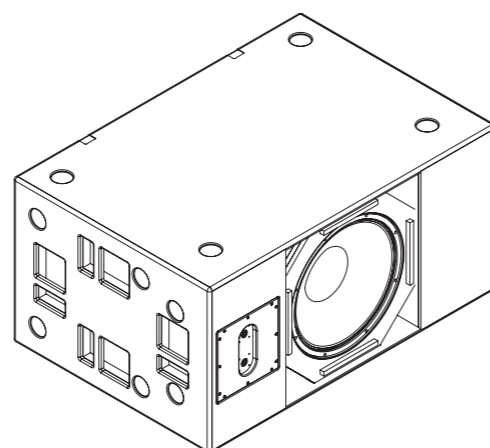
Impedance response: front



Impedance response: rear



In compliance with European Standards **CE** - Certified by Italian Quality Institute



Physical Description

Input connectors	2xNL4FC speakon
Cabinet	birch plywood
Finish	HDSC™
Dimensions (WxHxD)	1170x580x800 mm
Net weight	93.5 kg

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