



10" Coaxial Loudspeaker

The new WFS 10 CX is a two way loudspeaker, designed 100% in our R+D department to provide high quality voice and music reproduction in applications where extreme weather resistance is required. Its being carefully optimized to provide high sensitivity under high power and to withstand long-term exposure against environmental conditions. The WFS 10 CX is composed of one 10" horn loaded coaxial loudspeaker and a 1" exit compression driver with a 1.75" voice coil, mounted over a specially designed diffuser for this application. All that makes of the WFS 10 CX the perfect installation where a long and medium trough is required.



Main Features

Fully controlled dispersion

The 90° x 90° WFS 10 CX dispersion is constant in all the speech bandwidth, focusing the sound exclusively to the audience area.

This control is achieved thanks to the bass horn and the treble diffusor which act as audio wave guides.

High quality acoustic elements

WFS 10 CX integrates a powerful 10" coaxial woofer and 1" compression driver to provide the best results in all the bandwidth, specially at the high and middle frequencies.

Music and speech intelligibility

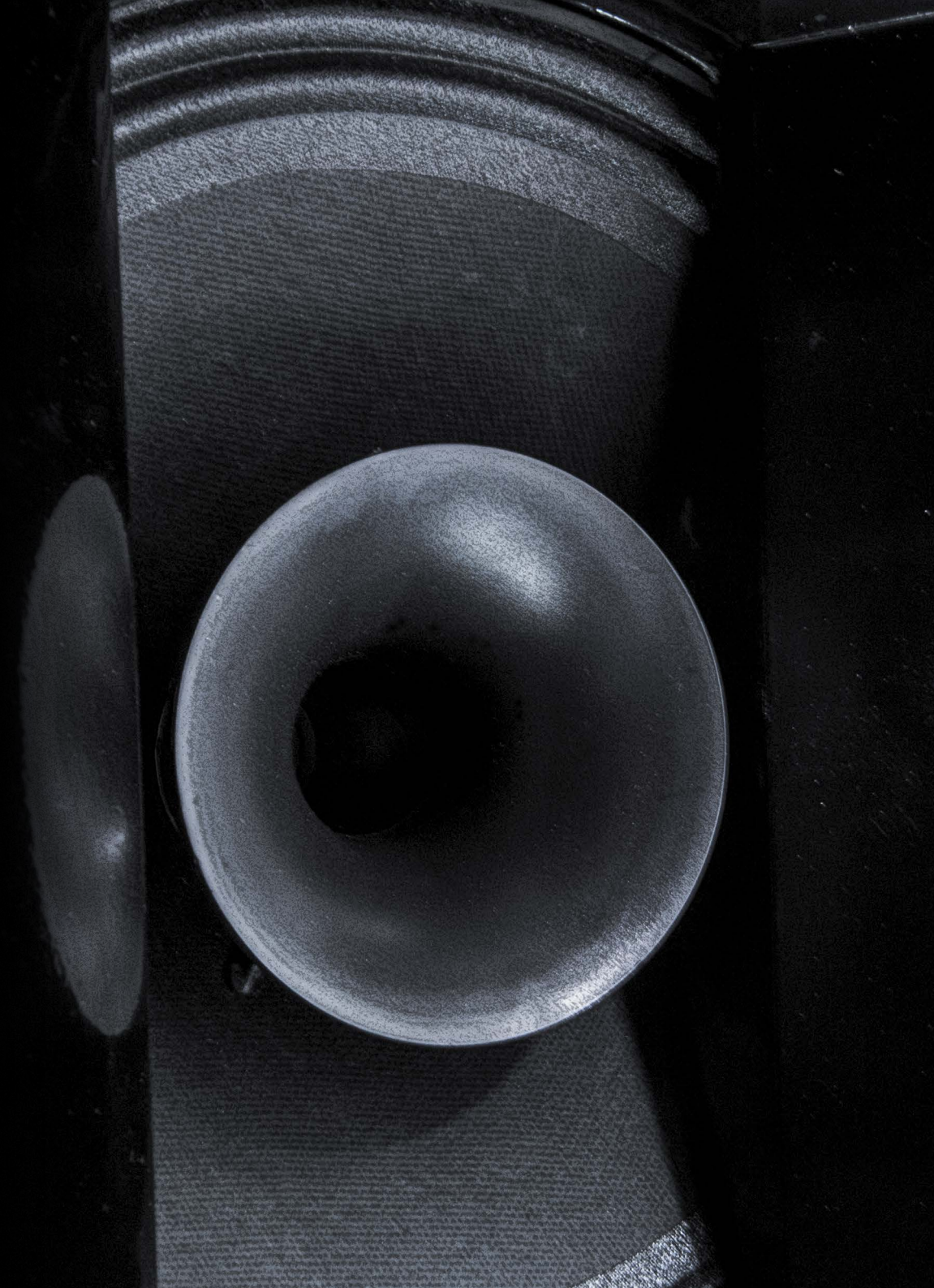
By focusing the sound to the audience area, WFS 10 CX offers the best results in reverberant acoustic conditions and therefore a perfect speech intelligibility. All of that makes of the WFS 10 CX the ideal choose for large surfaces, specifically in outdoor appliances, taking profit of its high IP range.

2 operating modes

WFS 10 CX built-in a high power transformer (120 W) and low distortion that allow to connect the device in high impedance installations (100 V LINE). Therefore, it is possible to create a low impedance configuration taking advantage of how easy to configure the system is.

Strong and powerful design

Made of high quality black fiberglass WFS 10 CX is resistant to all weather conditions, guaranting its perfect operation. Its elegant external design with horn shape matches perfectly with a proper audio dispersion, rising up all its features.



Applications

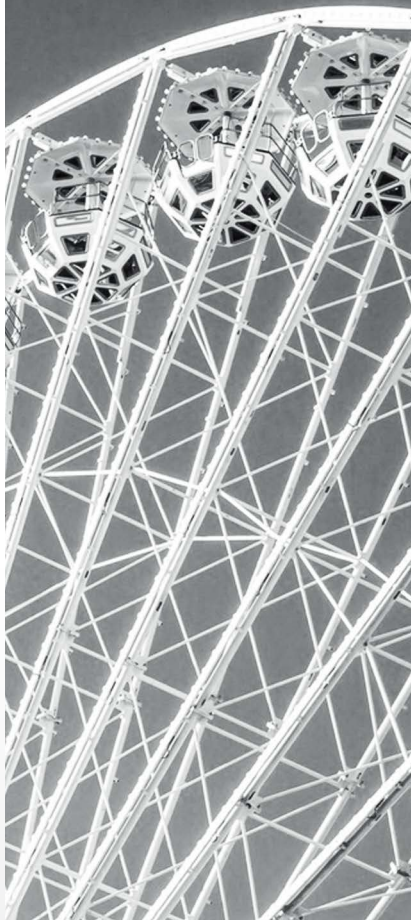
WFS 10 CX specific features make it suitable for projects in large areas where it is necessary an elevated audio intelligibility with a huge audience.

- Arenas
- Race tracks
- Convention centers
- Swimming pools
- Skating rinks
- Amusements parks



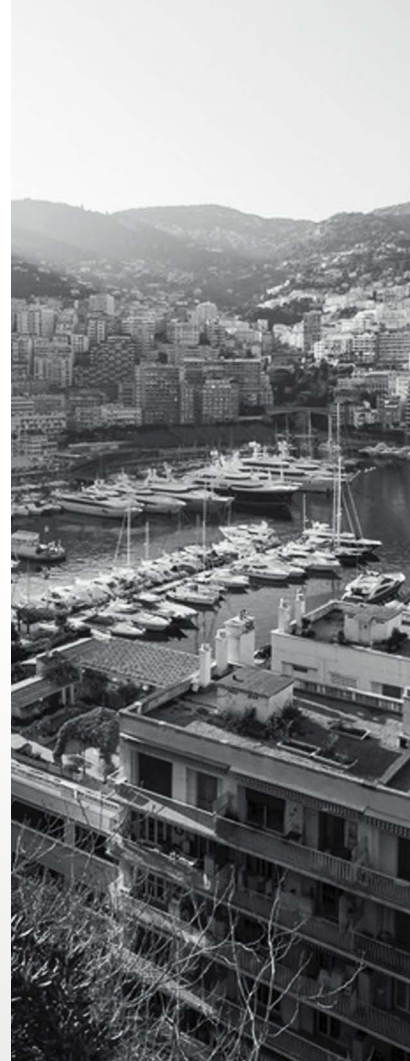
Stadiums

The correct distribution of the system around the bleachers provides a good audio experience to all the spectators.



Amusements parks

Its high intelligibility level provides a clear speech message in crowd situations like emergency and notices messages.



Harbours

Its IP level makes of the WFS 10 CX a really good choice for installations placed on hard environments where the weather is variable.



Skate park

Its excellent response in all bandwidth allows to play background music in outdoor and indoor applications.

Technical Data

Transducer:	10" LF coaxial & 1" HF
Frequency response:	89 Hz - 20.5 kHz (±6 dB)
Sensitivity:	104 dB
Max SPL (dB@1m):	126 dB // 131 dB peak
Continuous Program Power:	300 W
AES/Peak:	150 W // 500 W
Power (100V):	120 W
Subsonic Filter:	HPF 72 Hz
Impedance:	8Ω
Dimensions:	594 x 328 x 470 mm
Weight:	19.8 kg

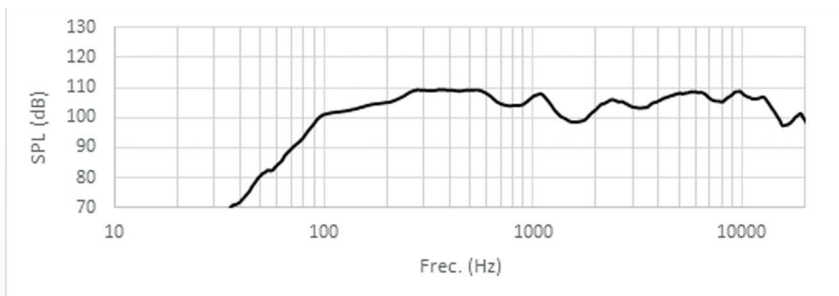


Acoustic measurements

WFS 10 CX has been designed 100% and tested at EQUIPSON by our own R+D using the most advanced tools at the acoustic design field like the anechoic chamber placed at our acoustic department. The following diagrams show the obtained frequency and impedance response curves.

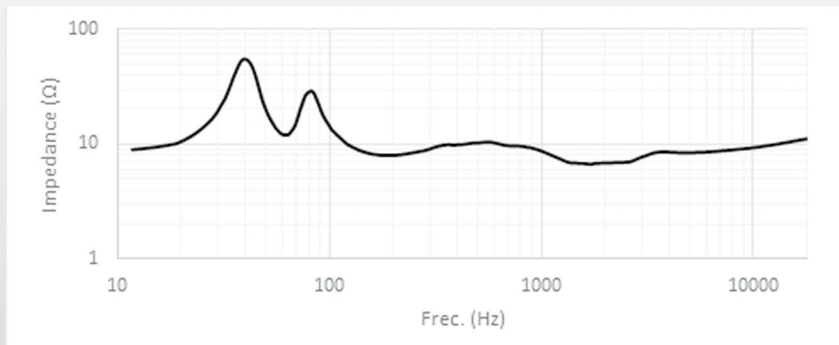
Frequency response ($\pm 6\text{dB}$): 89 Hz - 20.5 kHz

The curve shows an enhanced in the middle frequencies (speech).



Impedance curve

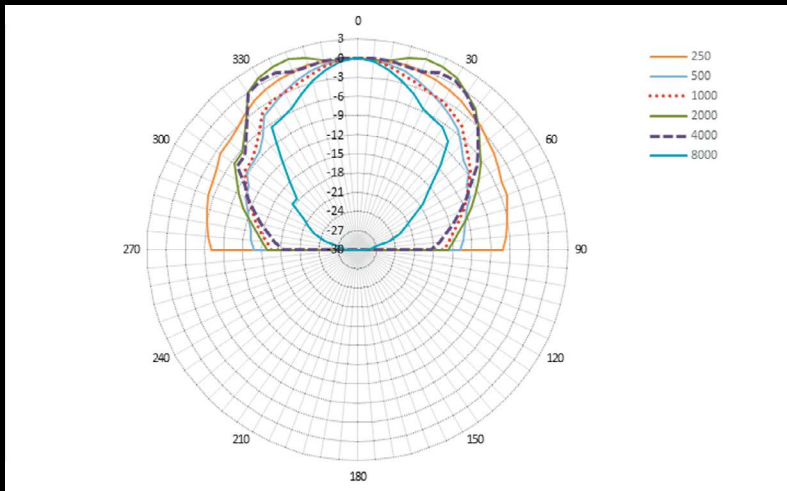
Constant impedance in all the bandwidth.



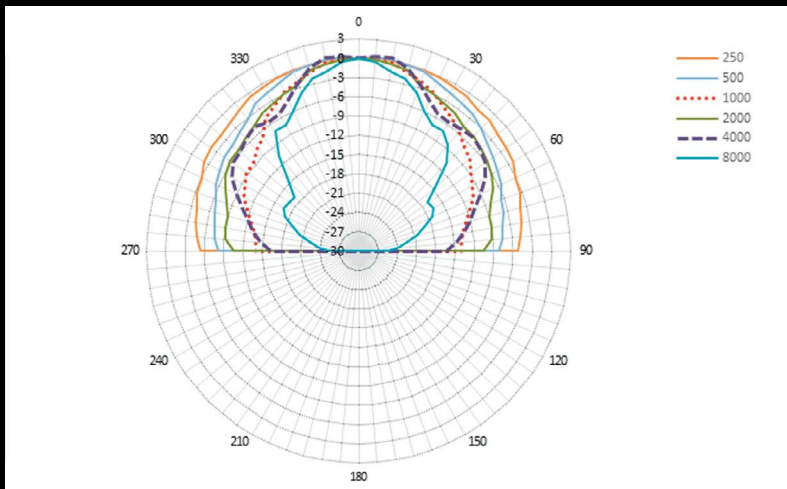
Polar patterns

The following diagrams show how the dispersion is constant in all the frequency bandwidth, thanks to the specially designed horns that works as a waveguide.

Horizontal dispersion angle (500 Hz - 4 kHz): $90^\circ \pm 10^\circ$



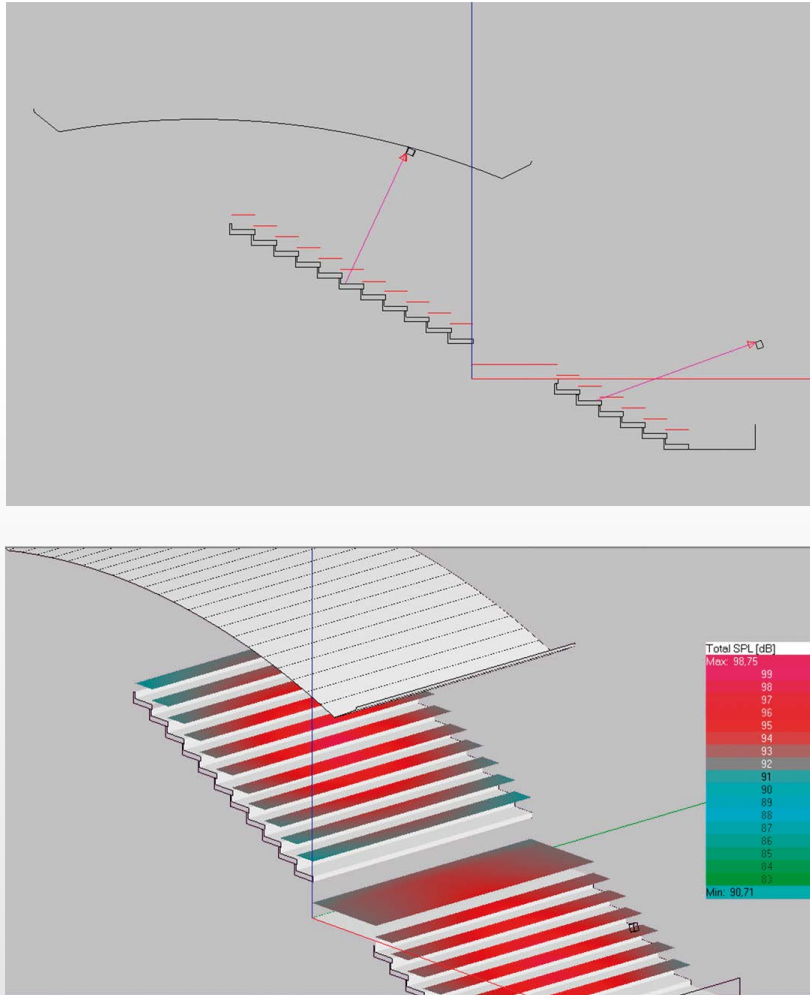
Vertical dispersion angle (500 Hz - 4 kHz): $90^\circ \pm 30^\circ$



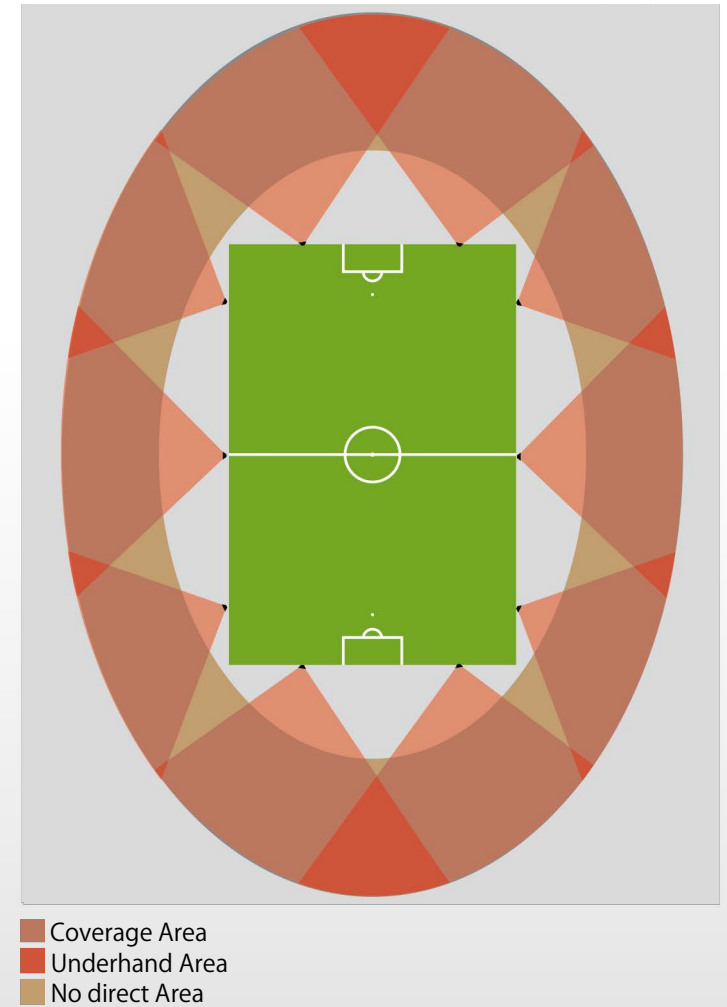
Examples of installations

The wide range of WFS 10 CX applications includes outdoor and indoor installations, as it is showed on the diagrams below, where it is possible to see how effective can be this loudspeaker in two different applications (large areas with a big number of viewers).

Marine Zoological Park



Football Stadium



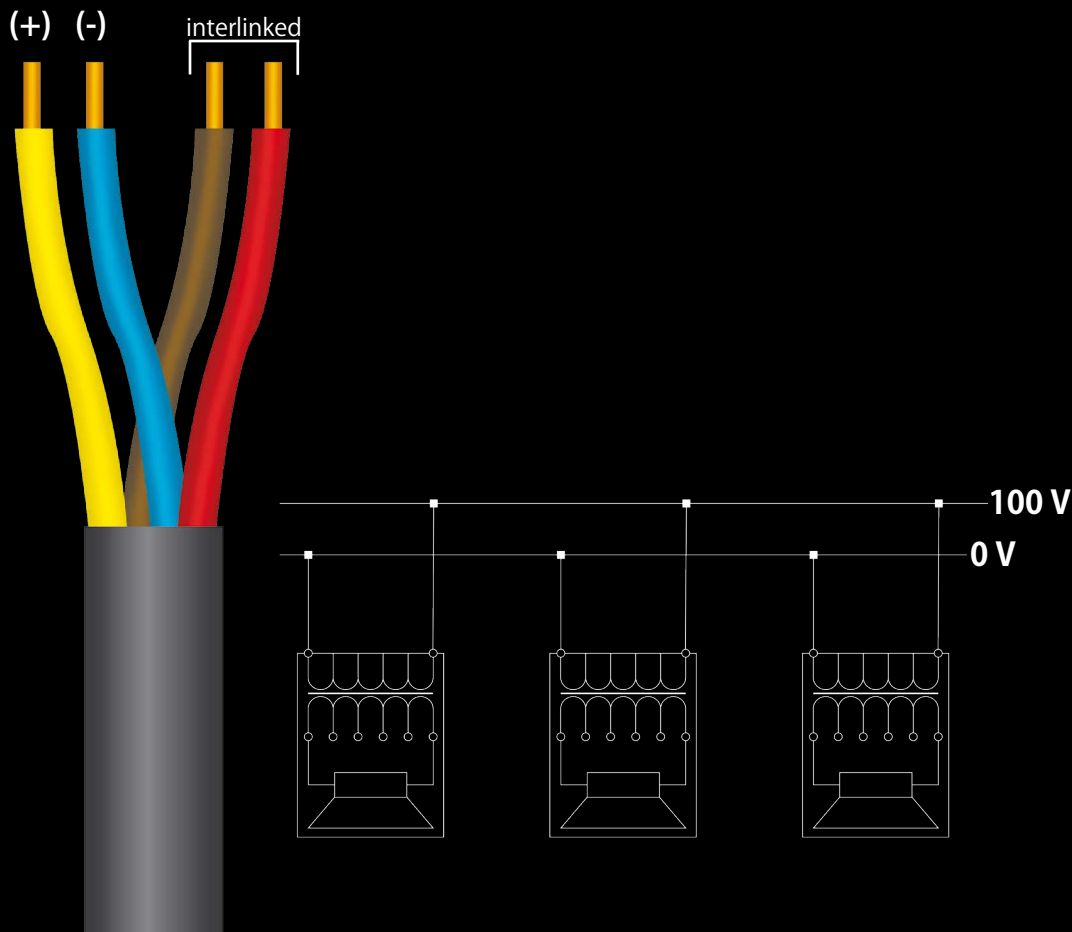
100 V LINE / Low Impedance operation modes

To enhance the installation possibilities, WFS 10 CX has two different operation modes according to the features of the installations and contractors requirements:

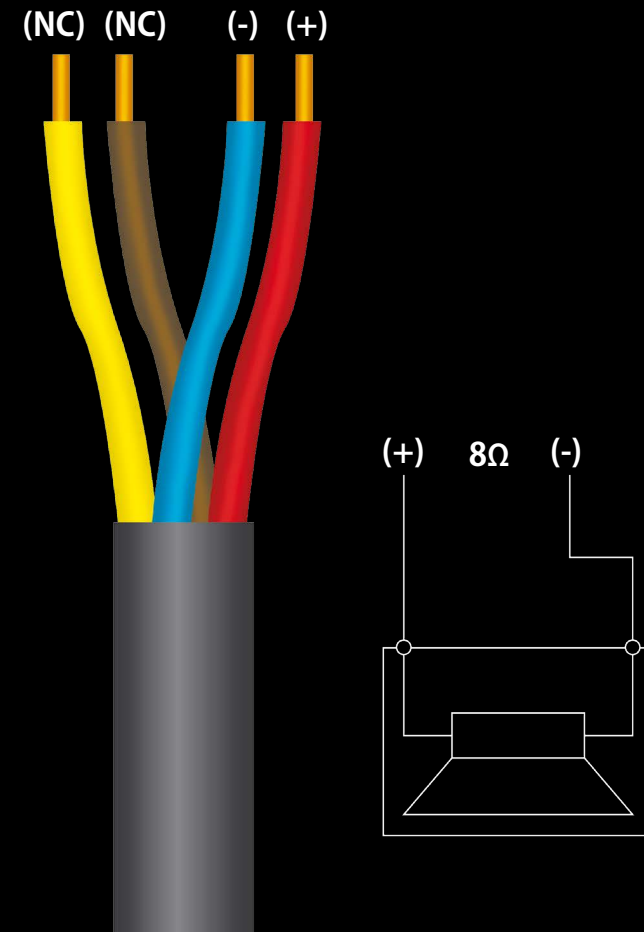
- 100 V LINE: Highly recommended configuration for outdoor installations and large areas (stadiums, amusement parks, harbours, speed tracks...)
- Low Impedance: This configuration is perfectly suitable for this kind of applications where the intelligibility and quality of the sound is a must (auditoriums, theatres, skating rinks, indoor sport facilities...)

Both installation modes are selected interlinking the cable built-in conductors.

100 v LINE connection



Low Impedance connection

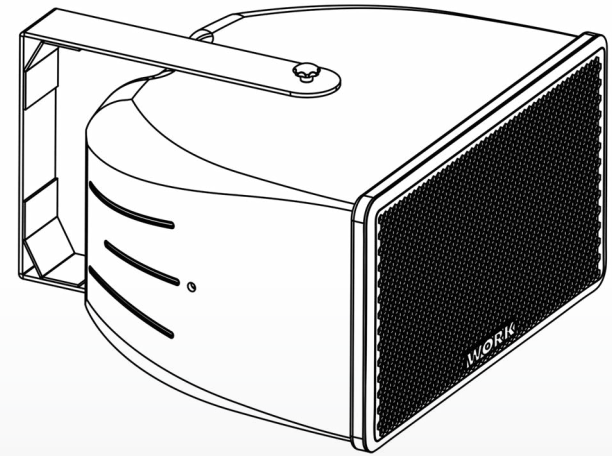


WFS 10 CX Accessories

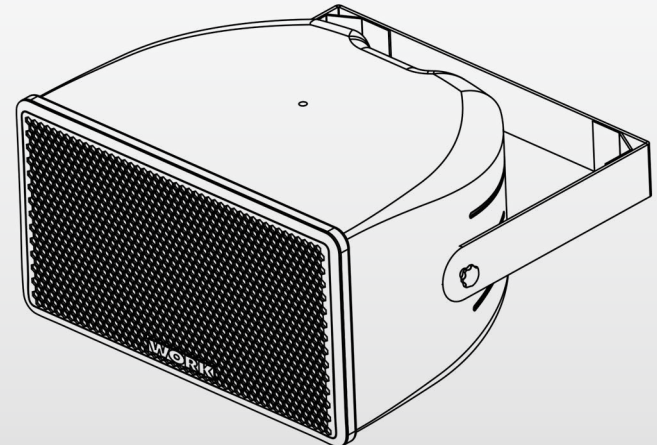
Two brackets are the WFS 10 CX accessories available, depending on the fixation method. These two handles are made of iron with all weather painting coberture that preserves them from the hard environmental conditions. Both models features fixation wing nut to regulate the loudspeaker angle.

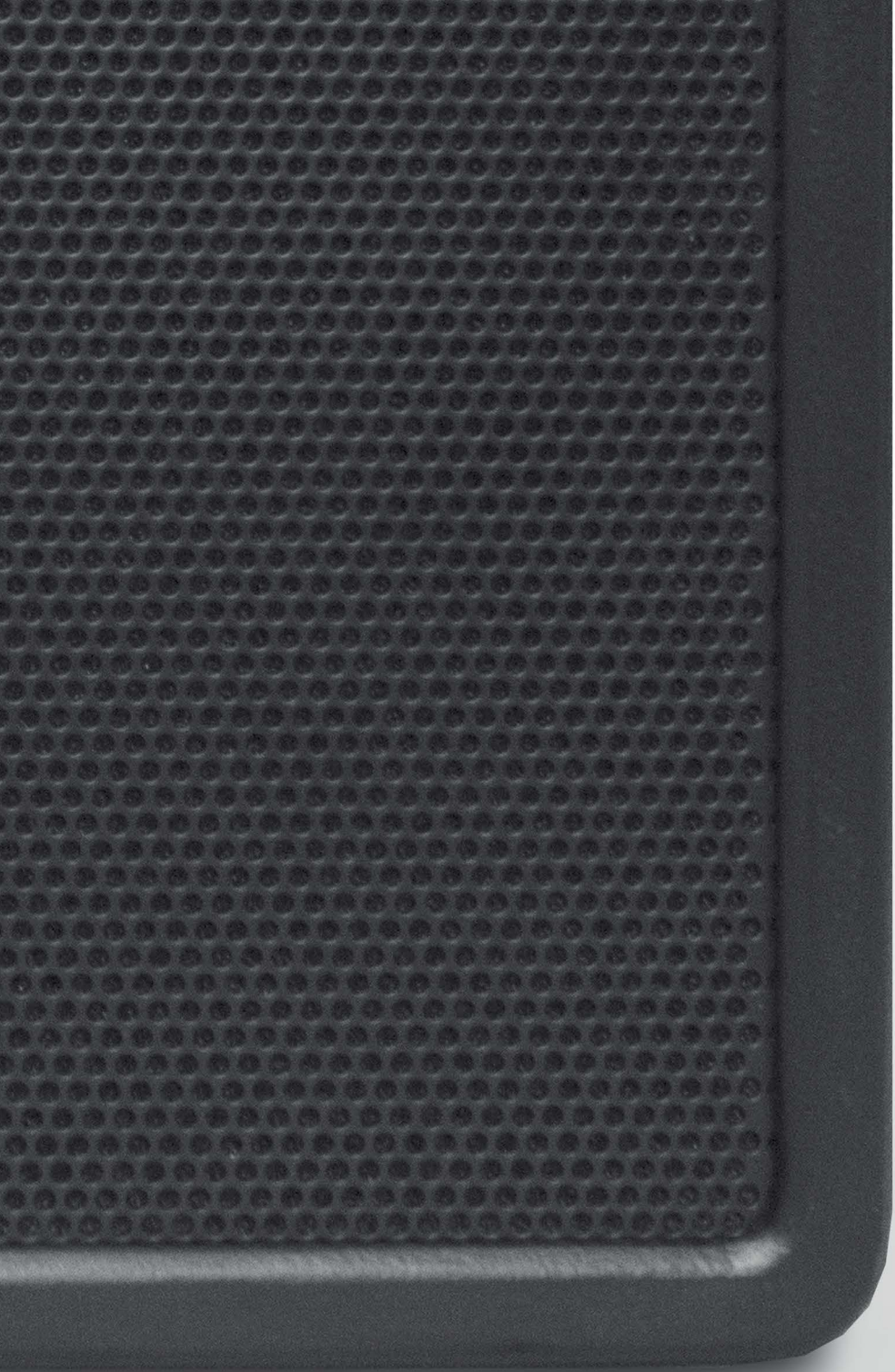
If the contractor is looking for a vertical disposition he will choose the WSTB 10 V. However, if the horizontal disposition is the choosen one the contractor will select the WSTB 10 H bracket.

WSTB 10 V



WSTB 10 H





WFS 10 CX

POWERFUL SENSITIVITY

