

EDGE8CXP

Features

- Compact speaker system with a symmetric coverage of 85°
- Co-axial design

Description

The EDGE8CXP is a diffusion system with the characteristics of being truly compact and versatile. The custom made co-axial speaker has been developed on the specifics of the PROEL Research and Design laboratory. The results have been aimed at producing the best performance from an 8" woofer combined with a 1" driver. The woofer is comprised of an ISV (Interleaved Sandwich Voice Coil) and an aluminium casing. The double ventilated die-cast basket has been designed to have improved heat dissipation and thereby reduce the power compression level. The compression driver provides better excursion control and reduces distortion through use of Ferro-fluid. The diaphragm has been constructed with a new synthetic material which, together with the reinforced radius design increases the rigidity and thereby avoiding the formation of uncontrolled vibrations. The phase plug is the result of a meticulous study and has been designed using 3D CAD software to realise a shape that guarantees a correct acoustic impedance which reduces dramatically the levels of distortion. The pressed Aluminium voice coil assures low distortion and high efficiency with good power handling. The EDGE8CXP has an internal 12dB per octave passive crossover with a PTC electronic protection. Version with 100 V constant voltage line transformer is also available, EDGE8CXTB black and EDGE8CXTW white.



Technical Characteristics

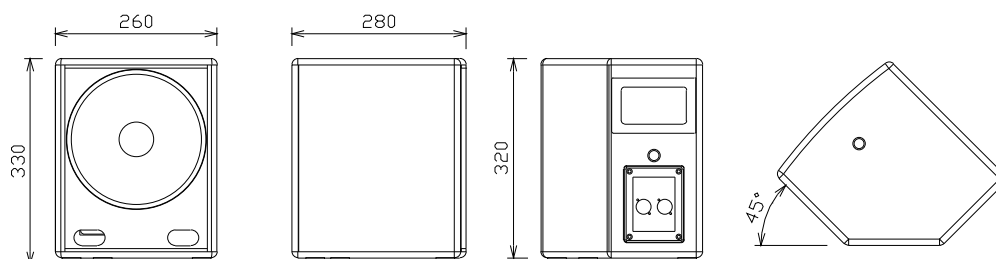
System	
System Type	coaxial 2-way vented enclosure
Frequency Response	80 Hz - 20 kHz (± 6 dB)
Coverage Angle H. (-6 dB)	85° averaged, 1 kHz to 20 kHz
Coverage Angle V. (-6 dB)	85° averaged, 1 kHz to 20 kHz
Directivity Index (DI)	9.7 averaged, 1 kHz to 20 kHz
Maximum Peak Output	121 dB @ 1m
Input Power Rating	225 W AES, 450 W program
Sensitivity	95 dB SPL (2.83 V @ 1m)
Nominal Impedance	8 Ω
Constant voltage transformer	optional 100 V EDGE8CXTB black, EDGE8CXTW white
Transducers	
Low Frequency Device	8" woofer - 2" voice coil
High Frequency Device	1" compression driver - coaxial
Mechanical Data	
Construction	monitor taper 45° 15 mm birch plywood with paint finish
Color	black EDGE8CXPB, white EDGE8CXPW
Flying Points	4 x M10 - top, bottom, rear
Mounting Pole	1 x bottom
Dimensions (WxHxD)	26 x 33 x 28 cm
Weight	10 kg

Architects' and Engineers' Specifications

The system shall passive two way with a frequency response of 80 Hz to 20 kHz and with a constant coverage angle of 85°H x 85°V. The system shall have an 8 ohm driver with a 1" diaphragm and a power handling of 75 W AES set co-axially to the woofer. The system shall have an 8", 8 ohm woofer with a 2" voice coil and a power handling of 225 W AES, loaded in a bass reflex configuration. The system shall be provided with 4 x M10 hanging points and shall feature a top-hat pole mounting system. The speaker box shall be constructed from 15 mm Birch plywood in an asymmetric trapezoid shape with a monitor angle of 45°. The height shall be 32 cm, width 26 cm and depth of 28 cm. The system shall be the Proel EDGE8CXP.

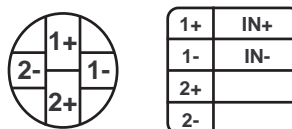
3. Technical specifications

Dimensions



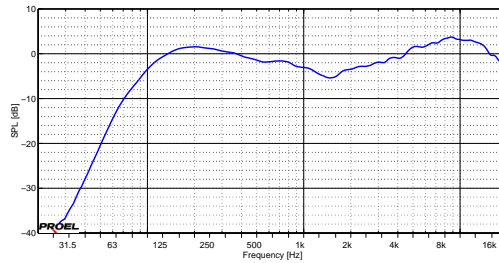
Connections

2 Neutrik Speakon NL4MP connectors in parallel.

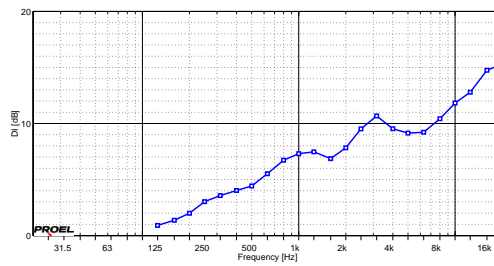


Graphics

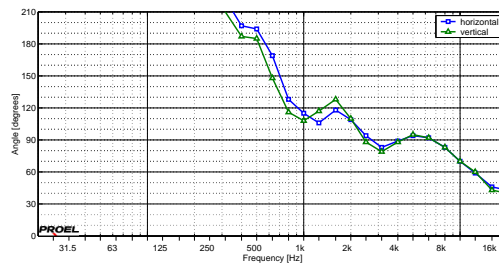
Frequency response:



Directivity index:

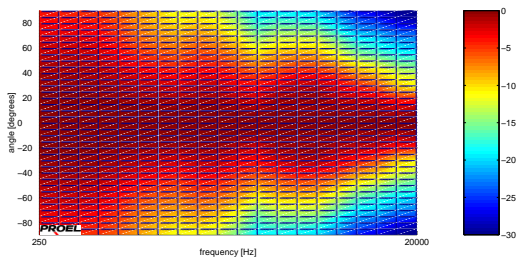


Beamwidth diagram (-6 dB):

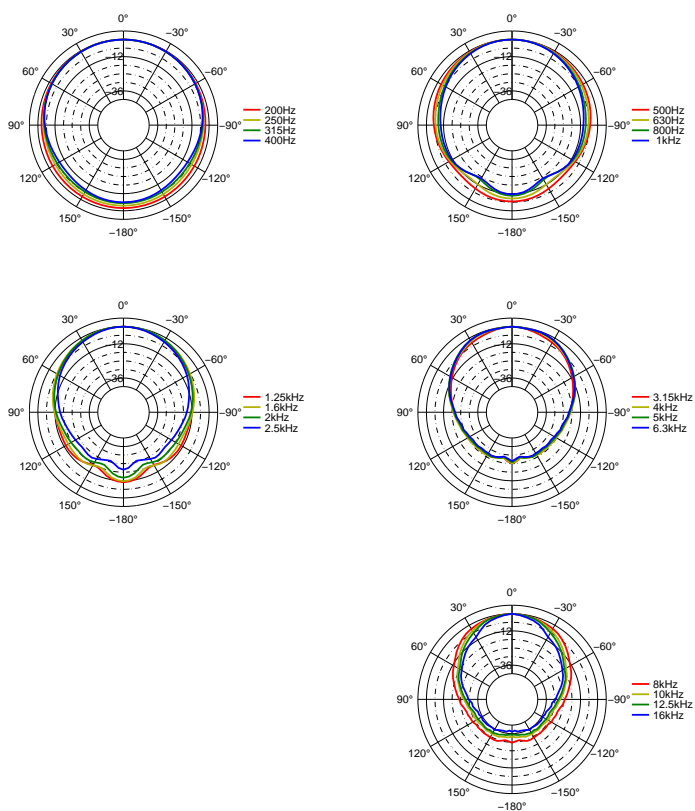


3. Technical specifications

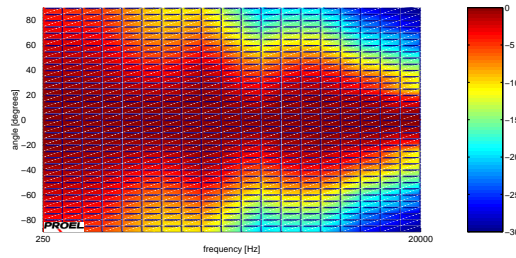
Attenuation map (horizontal):



Polar diagram (horizontal):



Attenuation map (vertical):



Polar diagram (vertical):

