STRUCTURE

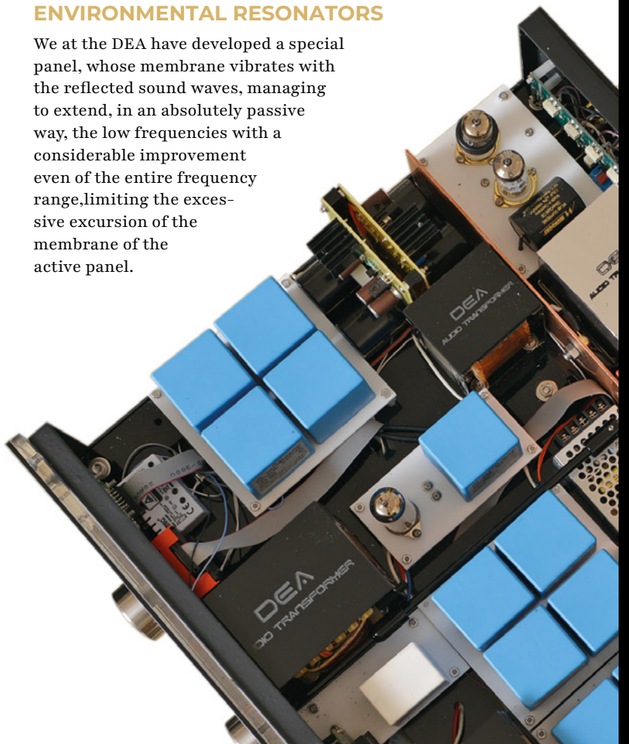
The structure is another important element not only because it conditions the resonance frequency of the system but also because it contributes decisively to the achievement of a correct azimuth. In fact, the same ones support the stators so structures that are not perfectly planar will create important alterations of the azimuth itself. We use plexiglass structures of the highest quality worked with numerical control (CNC) milling machines with very low processing tolerances.

POWER SUPPLY

For a correct azimuth and not to limit the dynamic capacities and efficiency of the speaker, the membrane must be powered in the most correct way possible. It is therefore necessary to use poly-propylene capacitors, ultra-fast diodes, and high-quality power transformers.

ENVIRONMENTAL RESONATORS

We at the DEA have developed a special panel, whose membrane vibrates with the reflected sound waves, managing to extend, in an absolutely passive way, the low frequencies with a considerable improvement even of the entire frequency range,limiting the exces-sive excursion of the membrane of the active panel.



DEA ELECTROSTATICS full-range electrostatic speakers combine the precision and elegance of “electrostatic” sound with a dynamic and low-frequency response that is not common for planar speakers.

www.deaelectrostatics.it

DEA
the new dimension of sound

Listen to music like never happened

HANDCRAFTED ELECTROSTATIC LOUDSPEAKERS

HOW WE WORK

“The electrostatic speakers have great advantages but also some defects that have in fact greatly limited their spread; many of these drawbacks, however, are to be attributed to the impossibili-ty of being able to build high-performance electrostatic speakers on an industrial scale due to the high costs and processing time, problems that artisanal production is able to face by providing valid solutions.
For these reasons, only artisanal production is able to create electrostatic speakers with high performance as well as high construction quality.

STATORS

“The electrostatic speakers have great advantages but also some defects that have in fact greatly limited their spread; many of these drawbacks, however, are to be attributed to the impossibili-ty of being able to build high-performance electrostatic speakers on an industrial scale due to the high costs and processing time, problems that artisanal production is able to face by providing valid solutions.

MEMBRANE TENSIONING

For DEA speakers, specific dimes are used that allow micrometric adjustments to be obtained. In addition, at the end of the tension-ing process, the membrane is subjected to a special treatment that eliminates the mechanical stress to which it is subjected during traction.

STEP UP TRANSFORMERS

They represent the heart of electrostatic speakers: we use a single transformer capable of working with a full range, designed and built by ourselves, which interfaces directly with the stators without the cross-over network interposition or protections that normally alter the signal with the introduction of colors and distortions.

DEA
the new dimension of sound

ELECTROSTATICS SPEAKERS MODEL REFERENCE

MID-TREBLE LOUDSPEAKER

Technical specifications

Height: 202cm

Wide: 26cm

Thickness: 10cm

Frequency response: 80-20000 Hz ± 3db

Efficiency: 87 db

Lifetime warranty against defects in workmanship

Weight: Kg 25 - with transformer (step-up transformer) 40Kg.

BASS LOUDSPEAKER

Technical specifications

Height: 202cm

Wide: 46cm

Thickness: 10cm

Frequency response: with electronic cross-over (low pass filter) 32-200 Hz ± 3db

Efficiency: 87 db

Lifetime warranty against defects in workmanship

Weight: Kg 35 - with transformer 50Kg

RESONATOR

Technical specifications

Height: 202cm

Wide: 27cm

Thickness: 10cm

Lifetime warranty against defects in workmanship

Weight: Kg 20

FREQUENCY RESPONSE OF FULL SYSTEM 28-20000 Hz ± 3db

New electrostatic speakers "New Reference"

System consists of a unit for medium-high, a unit for the bass and resonator with passive bi-amping obliged using a cross-over active dedicated external.

ELECTROSTATIC SPEAKER MODEL ONDINA

Technical specifications

Height: 205 cm

Wide: 54 cm

Thickness: 10 cm

Frequency response: 32-20000 hz +/- 3db

Efficiency: 87 db

Weight : 55 kg

ELECTROSTATIC SPEAKER MODEL TREBLE SYSTEM

Technical specifications

Height: 170cm

Wide: 30cm

Weight (full system): Kg 65

Weight (only this unit): Kg 26

Frequency response: 80-20000 Hz ± 3db

Efficiency: 86 db

To be matched with a dynamic or electrostatic Subwoofer (Bass System Dea)

Tube preamplifers

THE PREAMP

Technical specifications

Tube preamplifier, line only

Input: 6 lines

Output: 2 lines

Gain: 20db

Separate Power supply with custom made transformers and polipropylene capacitor

Tubes: N1 EZ 81; N4 6sn7 with dedicated output transformer

Power consumation: 100W

Size: W 48 cm x L. 45 cm x 20 cm

Power supply: W44cm x L45cm x H13cm

Weight: 40 kg

MODEL NICO PREAMP

Technical specifications

Tube preamplifier, line only

Input: 6 lines

Output: 2 lines

Gain: 18db

Power supply: custom made transformers and polipropylene capacitors

Power consumation 100W

Tubes: N1 EZ81; N4x E88CC with dedicated output transformers

Size: W44cm x L45cm x H13cm

Weight: 20kg

Tube power amplifer

MODEL NICO MONO AMP

Technical specifications

Tube power mono amplifier

Power: 60 W RMS

Frequency response: 10-100000 Hz ± 3db

Power supply: custom made transformers and polipropylene capacitors

Tubes: 2 ECC88, 2 6FQ7; 4 x KT88 push pull, triode configuration per channel.

Phase set with dedicated interstage transformer

Size: W47cm x L51 x H24cm

Weight: 45kg

STEP-UP MC

Product Specifications

Model: Step-up transformer for MC cartridges built with super mu metal cores and encapsulated inside a special shielding always in mu metal that effectively protects them from internal and external interference

Input impedence: 5 ohm- 50ohm

Channel Separation: Over 90 db

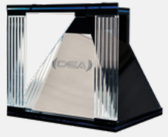
Frequency Response: 10hz- 100hz +\- 1db

Step/ up Rate: 20db

Dimension: 12cm x 22cm x 9cm (WxDxH)

Weight: 2 kg

THE SOUND PYRAMID



Product Specifications

Impedance adapter autotransformer: Autotransformer impedance adapter which is interposed between the amplifier and the speakers greatly improving the quality of the reproduced sound. The use of output transformers has great advantages for amplifiers.

Output transformers always align the load impedance so that the amplifier

Emits more or less the same amount of power, regardless of impedance.

The impedance response of a speaker is rarely flat. Impedance normally increases towards higher frequencies and decreases at lower frequencies in dynamic speakers, while the opposite happens in electrostatic ones. Depending on the impedance, the power requirement of the amplifier varies, and this must be taken into account in some way at the end of the amplifier and compensated.

Thanks to the use of output autotransformers, solid-state amplifiers don't need to worry about fluctuations in the speaker's impedance response. Transformers always align the charge impedance so that the amplifier emits more or less the same amount of power regardless of the speaker's impedance.

Input impedenze: 4-6-8 ohm

Frequency Response: 5 hz- 100kz +/- 3 db

Power: 200 W at 25hz

Core type: C- core M2

Dimension: 45 cm x 40cm x 37cm (WxDxH)

Weight: 25 kg

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