

LOW FREQUENCY NEODYMIUM TRANSDUCERS

For decades RCF professional woofers have represented the ultimate performance, the highest power handling and the most advanced technology. Thanks to high energy magnetic designs, complex cooling systems and specifically developed new technologies, our neodymium transducers place themselves at the same, unsurpassed level.



SEALED MIDRANGE TRANSDUCERS

RCF has developed two exceptional, sealed, midrange neodymium designs. This innovative solution offer many advantages compared to traditional midranges designs:

- thanks to a massive neodymium magnetic circuit, sensitivity is up to 4 dB higher than traditional designs;
- the optimally tuned rear chamber is sealed and doesn't require the typical back wooden chamber;
- the aluminum basket, in direct contact to the magnetic circuit, provides the best cooling ever found in a midrange transducer.

INSIDE/OUTSIDE VOICE COILS

RCF has developed a unique voice coil, combining the advantages of inside/outside technology to the superior quality of polyimide-imide materials (wire resins and formers resins).

The inside/outside coil offers many advantages:

- the dissipation surface is doubled;
- the adhesion area to the Former is doubled;
- during thermal expansion the Former is squeezed between inside and outside layers offering the best mechanical resistance.

Our inside/outside formers are made from polyimide-imide fibreglass and the area between the coil and the cone is a triple layer of Nomex - fibreglass - Nomex for maximum stiffness and accurate sound transfer.

COMPLEX COOLING SYSTEMS

In our complex cooling designs individual components come together to create an ideal ventilation system. Commencing with the design of the basket, RCF has focused on providing finned cooling channels while optimising the surface area available to the front magnetic plate to dissipate heat efficiently. The dust cap and the sealed spiders function as an air pump expelling hot air and drawing in cool air every time the cone assembly moves. Many openings are situated directly on the transducer's side and on the rear plate.

