COMPACT SERIES

The RCFACUSTICA COMPACT Series is a highly advanced line up of compact near field 'two way direct radiating' loudspeaker systems offering dedicated models with focused horn directivity, designed for both portable and permanent installation applications. The several mounting points, the pole mount and handles simplify installation.

RCFACUSTICA COMPACT Series represent a no compromise design and construction, offering a very natural sound in live situations and recorded music. The two way designs within the COMPACT Series offer RCF Exclusive 'CMD' Technology. (Coverage Matching Design), this helps guarantee the smooth transition between the high frequency horns polar responses and low frequency transducers directivity.

The compression drivers used in the Compact Series designs are the very latest in neodymium magnetic circuit technology. The low frequency drivers used in the Compact Series can withstand peak power of up to 6 times the nominal power. These mid bass woofers have been designed for superior reproduction of acoustic signals up to the crossover frequency. All Compact Series Speakers are equipped with high power handling low impedance crossover designs.

All Compact Series cabinets are in Baltic birch, heavy duty painted. Free from spurious vibrations, they offer a strong construction at the highest levels in the professional market.





SUBWOOFERS SERIES

Sound systems designed for almost any application benefit from the addition of extended low frequency or sub bass. True natural reproduction of music requires that the sound system's output should extend into the lowest octaves of the audible spectrum. Whether it is for the provision of subtle dynamic sound for A/V applications, the raw power of a 'bass drum kick' or an air moving

The RCFACUSTICA SUBWOOFER Series is a highly advanced line up of compact subwoofers, offering dedicated models in various configurations (bass reflex, bandpass and horn loaded), specially designed for permanent installation applications.

club sub bass system - RCF has the solution.

P Series Professional Speaker Systems are a new addition to the RCFACUSTICA catalogue of 'Audio Contractor' installation speaker systems.

The RCFACUSTICA P Series are highly efficient coaxial designs offering excellent music and speech intelligibility in compact lightweight weatherproof designs offering protection up to the highest rating standard. However

H SERIES

The new RCFACUSTICA H Series is designed to provide the output and directivity required for larger scale installations. The systems offer a full range approach in arrayable configurations. With the new H Series, RCF have created designs capable of delivering high efficiency output and controlled directivity. Systems can be easily converted from vertical installation mode to space saving horizontal placement. The H Series feature finitely tuned compact horn loaded design parameters utilising new RCF Precision Transducers and horn technology.

The RCFACUSTICA H Series cabinets are constructed from the highest quality Baltic Birch Plywood and finished in an extremely resistant epoxy paint finish.

The cabinets are a 'multi-trapezoid' which assists double coupling array configurations. Extensive fly-ware positions are provided for ease of installation.



P SERIES

the design aesthetics of the P Series will allow architectural choices for indoor installations in tough environments as well as outdoor applications. The cabinets are constructed from a heavy duty but light in weight 'Rotomoulded' plastic resin UV stabilised material. For all models, the front grille construction and included yoke bracket system are made of Aluminium and Stainless Steel.



RCFACUSTICA TECHNOLOGIES

PURE TITANIUM DIAPHRAGMS

RCF has developed an oxygen free process of moulding pure titanium ultra thin films in high quality, finely controlled shaped diaphragms. Our process offers superior sonic quality, extended to the highest audible frequencies which guarantee consistent power handling and reliability.

VOICE COIL - POWER COMPRESSION

Power Compression is the neglected factor in many professional audio system designs. In woofers and subwoofers the power compression at maximum rated power can vary from 3-4 dB for good designs and up to 6-7 dB for poorly vented or small coil designs. This will affect not only the final achievable sound pressure level (SPL) but also the transducer Thiele-Small parameters, dramatically changing the high power curve response and sound characteristics. For this reason all our woofer and subwoofer designs are equipped with large sized, properly vented inside/outside voice coils.

This guarantees the long term reliability and life of the product.

"All our woofer and subwoofer designs are equipped with large sized, properly vented inside/outside voice coils."

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 former 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 former is 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.

NEODYMIUM MAGNETS

Our Precision Compression Drivers and Woofers are equipped with high thermal performance with high performance lightweight Neodymium magnets, offering advantages in system portability and high frequency clarity (due to the force of magnetic flux in the gap exceeding 2 Kilogauss).

Specific attention has been paid to magnetic circuit polarization for optimum thermal immunity.

"Direct Drive guarantees optimal transfer of energy between the voice coil and the dome assembly"

DIRECT DRIVE VOICE COIL ASSEMBLY

Our voice coil assemblies are designed using high strength high temperature Nomex® voice coil Formers with rectangular profile copper clad aluminium wire, which are assembled using advanced specially formulated adhesives. Proprietary curing processes ensure optimal assembly strength and safe operation even under extreme thermal conditions. The top of the Former is bent and bonded directly to the edge of the titanium diaphragm resulting in a Direct Drive configuration.

Direct Drive guarantees optimal transfer of energy between the voice coil and the dome assembly, providing smoother, extended frequency response beyond 10 KHz, reducing break up modes and lowering distortion. This assembly delivers high power handling along with excellent mechanical and thermal properties that make RCF Precision Series compression drivers robust and reliable.

LICC LOW IMPEDANCE COMPENSATED CROSSOVERS

All our passive speakers are equipped with high power handling low impedance crossover designs.

The low impedance compensated crossover is an RCF first, and a breakthrough in crossover design.

Conventional passive crossovers have an approximate 180 degree phase shift between the woofer and tweeter at the crossover point. Such a system cannot reproduce transients correctly, causing negative effects on sound accuracy that are particularly noticeable with violin, trumpet, piano and vocals.

Very low inductance values are used in the LICC, thus providing an excellent transient response and drastically reducing phase shifts between woofer and tweeter. As a result, LICC provides well-defined natural and open sound - across the entire audio bandwidth.



"Very low inductance values are used in the LICC, thus providing an excellent transient response and drastically reducing phase shifts between woofer and tweeter."

