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Eighteen Sound debuts five-strong

A FIVE-STRONG range of coaxial loudspeakers is at the head of a host of new arrivals from Italian loudspeaker manufacturer Eighteen Sound. Comprising ferrite and neodymium models, the coax range leads a charge of launches including subwoofers and HF drivers.

Designed to deliver extended low frequencies, the ferrite motor-equipped 8CX650 and 10CX650 both boast a nominal dispersion of 90-degrees. The 2.5-inch LF copper voice coil employed in their design utilises the manufacturer's Interleaved Sandwich Voice coil (ISV) technology, while the two models use a 1.75-inch diameter HF diaphragm for 'exceptional' HF behaviour. Crucially, the 8CX650 is also Atmos compatible.

On the neodymium side, the 12NCX750 and 15NCX750 are described as 'ideally suited for compact reflex enclosures and stage monitors that require substantial detail and power'. Both transducers boast a nominal dispersion of 80-degrees and feature a 3-inch ISV voice coil and 2.4-inch pure titanium HF diaphragm. Meanwhile, the 15NCX1000 is classed by the manufacturer as an 'Ultra' offering due the SPL performance and detail reportedly derived from its titanium 4-inch diaphragm and dual magnet motor structure.

Elsewhere, Eighteen Sound has bolstered its low-end offering, starting with the neodymium-loaded 18iD. The subwoofer has reportedly been engineered for 'maximum power transfer when operated with Class-D and similar (iPal compatible) amplifiers'.

The coaxial 8CX650

The 10CX650

The neodymium 18iD is ideal for Class-D applications

Designed for vented and band-pass enclosures, the sub is described as performing best alongside amplifiers delivering 2,600W (10,000W peak). It features a 5.3-inch inside-outside ISV voice coil, intended to dissipate heat slowly and effectively, plus a low-density material air diffractor placed into the heatsink to act as a cooling system. In addition, it has been treated to guard against the effects of inclement weather.

Similarly, the 18LW2400WP is an 18-inch extended low frequency loudspeaker featuring a waterproof cone assembly. It has been designed for high SPL sub applications in either a reflex, band-pass or horn loaded configuration, and offers higher maximum SPL, increased programme power handling and lower power compression than Eighteen Sound's industry standard 18LW1400. Best results are achieved alongside amplifiers capable of delivering 2,400W programme power without clipping.

Key to the design is a large displacement suspension system which, in conjunction with a fiberglass reinforced, straight ribbed cone and the manufacturer's Double Silicon Spider (DSS) technology, allows an ultra-linear piston action. Again including ISV with a 4-inch inside-outside copper voice coil, the transducer also utilises a proprietary pulp treatment making the cone impervious to water.

Continuing with the theme, the 18TLW3000 is an 18-inch sub that works best in tandem with an amplifier that can deliver 3,600W without clipping. It incorporates Eighteen Sound's proprietary Tetracoil Technology, where two different, axially separated magnetic

The 18LW2400WP woofer

gaps and two inside-outside 4-inch diameter voice coils are wound on the same former and suspended evenly in the magnetic gaps. Advantages reportedly include clarity in the low end and an AES power

The ND1480Be compression driver

handling of up to 1,800W. Like the 18LW2400WP, the 18TLW3000 has been treated for weather resistance.

Moving back up the frequency range, the ND1480BE neodymium HF compression driver has been designed for 'high level sound system applications requiring critical accuracy'. The assembly features a 3-inch diaphragm composed of a beryllium dome attached to a treated polymer suspension, a 1.4-inch exit, and an angled former edge-wound copper-clad aluminium 3-inch voice coil. Again, it has been treated for weather resistance.

The 4-inch ND4015Ti2 is described as 'the result of extensive experience with its predecessors in the ND4015 line', offering a 'next generation titanium diaphragm' to deliver higher sensitivity and

The ND4015T2 compression driver

extended high frequencies. It features a 4-inch edgewood aluminium voice coil and 1.5-inch throat exit four-slot phase plug and is also available in 1.4-inch and 2-inch throat configurations.

Finally, the manufacturer has debuted the XG10 line source waveguide with a 1-inch throat entry. The waveguide boasts a specific line acoustical design intended to minimise internal reflections and acoustical losses, while its throat shape has been optimised to lower air distortion. It reportedly delivers a 10-degree vertical dispersion angle while horizontal coverage can range from 80-degrees to 120-degrees.

Shipping: Now
Web: www.eighteensound.com