##### W8VDQ

The loudspeaker shall be a compact three-way system utilising line array and Differential Dispersion technologies.

Its low frequency/midrange section shall consist of four reflex-loaded 8” drivers, two of which shall be arranged as direct radiators and two of which shall be mounted on individual midrange horns. All four drivers shall reproduce the low frequencies, with a passive network reducing the output of the two direct radiator drivers above 300Hz. High frequencies shall be reproduced by four 1” exit compression drivers, each mounted on individual high frequency horns.

Long-throw horizontal dispersion shall be 100°; short-throw horizontal dispersion 120°. Vertical dispersion shall be 30°. The on-axis frequency response shall be 60Hz-18kHz +/- 3dB and the loudspeaker shall produce a maximum SPL of 137dB peak calculated at 1 metre.

The low frequency/midrange section shall be integrated with the high frequency section by an internal 2.2kHz passive network or an external active crossover. Passive or bi-amp operation shall be selected by a switch on the input panel of the loudspeaker.

Power handling in bi-amp mode shall be: LF+MF: 800W AES, 3200W peak; HF: 150W AES, 600W peak. Power handling in passive mode shall be 800W AES, 3200W peak. Rated impedance in bi-amp mode shall be LF+MF: 6 ohms, HF: 6 ohms. In passive mode, rated impedance shall be 6 ohms. Input connectors shall be NL4 type.

The loudspeaker shall be operated in conjunction with a dedicated electronic controller.

The loudspeaker enclosure shall be made from plywood and finished with a black textured paint. An optional white finish shall be available to special order. The enclosure shall be fitted with a pole-mount socket, bar handles and M10 threaded inserts. The drivers shall be protected by a perforated steel grille.

Dimensions (W x H x D) shall be 628mm x 506mm x 369mm (24.7in x 19.9in x 14.6in). Weight shall be 47kg (103.5lbs).

The loudspeaker shall be the Martin Audio W8VDQ.