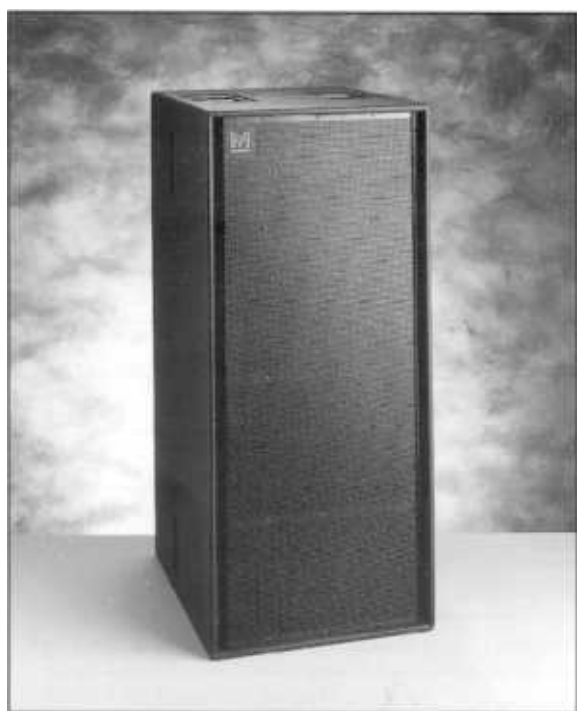




V R S S E R I E S

VRS1000



The VRS system is a one box sound reinforcement system designed for professional applications. Designed to be used bi or tri-amplified the system is three way. The vertical formatting of the system is particularly useful for applications that require high output with a small footprint.

The extremely high output coupled with low distortion and an extended frequency response make the system ideal for use in high power sound reinforcement situations.

The VRS is an all horn loaded system using constant directivity horns for well defined mid range and high frequency reproduction. This horn loading technique is characterised by the remarkably fast projection of transient information at very high SPL levels.

FEATURES

- One box tour sound and installation system
- Three way all horn loaded design for maximum output capabilities
- High output port assisted bass horn for extended low frequency projection
- Optional use of FSX sub-bass system for increased low frequency performance
- 70 x 40 degree dispersion for smooth coverage in array situations
- Unique bi-amp/tri-amp facility maximises cost benefits for many applications

APPLICATIONS

- Live sound reinforcement
- Stage side monitor
- Drumfill monitor
- Fixed installations
- Discotheque and club installations
- Corporate presentations

The VRS uses a high power crossover design, allowing the system to be bi-amplified for cost effective flexibility. In tri-amplified mode the system has a performance usually associated with much larger systems.

The system has a port assisted horn loaded 18" high power driver for extended bass response, and a 12" mid range driver mounted in a 5.5" exit compression horn.

The VRS1000 uses a 1.4" exit titanium diaphragm driver for significantly increased headroom and high frequency power response.

The system can be used with or without optional sub-bass and has full flying facilities as standard.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The loudspeaker system shall be a fully horn loaded vertically formatted enclosure and shall be operated in conjunction with a separate electronic system controller in either two-way bi-amp mode or three-way tri-amp mode.

The bass horn shall consist of an 18" diameter, 4" voice coil low frequency transducer loaded in a hyperbolic horn flare, assisted with a transmission line bass reflex port.

The mid range unit shall consist of a 12" diameter, 3" voice coil cone transducer which is compression loaded with a 5.5" entry hornflare, integrated with a precision moulded phase correction device.

The high frequency unit shall consist of a 1.4" exit diameter, 3" voice coil, titanium diaphragm compression driver mounted on a horn flare.

This shall be internally protected for signals below its intended frequency passband by an integrated power and frequency matching network.

The resin moulded and fibre reinforced mid and high frequency horns, with their transducers shall be time coherently mounted and exhibit a 70 deg horizontal by 40 deg vertical constant directivity dispersion pattern.

The mid and high frequency bands shall be user switchable between internal passive operation and active operation.

The performance of the loudspeaker system combined with the electronic system controller shall meet or exceed the following specifications:

Frequency response measured on axis shall be 35 - 18000Hz +/-3dB
The power handling shall be:

350W R.M.S., 700W programme - low frequency

150W R.M.S., 300W programme - mid frequency

75W R.M.S., 150W programme - high frequency

200W R.M.S., 400W programme mid/high frequency

via the passive integrated network

The sensitivity measured at 1 metre 1 Watt input in half space conditions using band limited pink noise shall be 106dB low frequency, 106dB mid frequency, 110dB high frequency

The maximum SPL measured at 1 metre on axis using band limited pink noise shall be 133dB continuous, 139dB peak

The dispersion shall be 70 degs horizontal x 40 degs vertical at the -6dB points

The nominal impedance shall be 8 Ohms LF, 8 Ohms MF, 16 Ohms HF

The connectors shall be 2 x 8 way Speakons

Dimensions shall be (W) 580mm x (H) 1290mm x (D) 825mm

Weight shall be 111kgs

The loudspeaker system shall be the VRS1000

SPECIFICATIONS

| | |
|------------------------------|--|
| TYPE | Bi-amp/tri-amp one box sound reinforcement system |
| BANDWIDTH | 35Hz-18kHz +/-3dB via MX4 Controller |
| DRIVERS | LF 18", MF 12", HF 1.4" exit titanium diaphragm driver |
| RATED POWER | LF 350W R.M.S. 700W programme MF 150W R.M.S. 300W programme HF 75W R.M.S. 150W programme |
| PASSIVE | MF/HF 200W R.M.S. 400W programme |
| RECOMMENDED AMPLIFIER | 400W - 550W R.M.S into 4 Ohms |
| SENSITIVITY | 106dB 1 Watt/1 metre |
| MAXIMUM SPL | 133dB continuous, 139dB peak |
| IMPEDANCE | LF 8 Ohms nominal, MF 8 Ohms nominal, HF 16 Ohms nominal |
| (PASSIVE) | MF/HF 8 Ohms nominal |
| DISPERSION (-6dB) | 70 deg horizontal, 40 deg vertical |

| | |
|----------------------------|---|
| CROSSOVER POINTS | 220Hz, 1.5kHz |
| PASSIVE | 1.5kHz |
| ENCLOSURE | 18mm Birch plywood |
| FINISH | Black textured paint |
| PROTECTIVE GRILLE | Perforated steel, black with 48% free air flow |
| CONNECTORS | 2 x 8 way Speakons |
| FITTINGS | 4 heavy duty castors, 4 handles, flying track |
| DIMENSIONS | (W) 580mm x (H) 1290mm x (D) 825mm (W) 22.5ins x (H) 51.0ins x (D) 32.0ins |
| WEIGHT | 111Kg (245lbs) |
| SHIPPING DIMENSIONS | (W) 600mm x (H) 1300mm x (D) 830mm (W) 23.0ins x (H) 52.0ins x (D) 32.5ins |
| SHIPPING WEIGHT | 114Kg (251lbs) |
| ACCESSORIES | Aeroquip flying points, MX4 controller |

NOTES

1. Sensitivity figures are measured in half space conditions at 1 metre with 1W input, using band limited pink noise

2. Measured at 1 metre using band limited pink noise

Trade Descriptions Act: Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice.

Martin Audio is committed to refining the state of the art sound reinforcement combining in-depth product and field applications research with advanced manufacturing techniques.

Every Martin product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.



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