

ARCHITECTS' & ENGINEERS' SPECIFICATIONS

High Power Three-way Full-range Speaker System **IF3115/64/95 (W)**

► IF3115/64 (W)

The bi-amplified or tri-amplified 3-way full range loudspeaker system shall incorporate 15-inch LF vented transducer with 4-inch voice coil and 8-inch MF with 2-inch voice coil and a 1.4-inch-exit high frequency 3-inch compression driver mounted to a constant directivity horn. The MF and HF horns shall be capable of being rotated to accommodate horizontal or vertical installation. System frequency response shall vary no more than +/-3 dB from 70 Hz to 20 kHz measured on axis. In bi-amplified mode, the mid/high section shall produce a Sound Pressure Level (SPL) of 106 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a continuous output of 127 dB SPL and a peak output of 133 dB SPL on axis at 1 meter. The mid/high frequency section shall handle 125 Watts of amplifier power (2 hrs, IEC noise) and shall have a nominal impedance of 8 Ohms. In tri-amplified mode, the high section shall produce a Sound Pressure Level (SPL) of 110 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a continuous output of 129 dB SPL and a peak output of 135 dB SPL on axis at 1 meter. The high frequency section shall handle 110 Watts of amplifier power (AES) and shall have a nominal impedance of 8 Ohms. The mid frequency section shall produce a Sound Pressure Level (SPL) of 106 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a continuous output of 127 dB SPL and a peak output of 133 dB SPL on axis at 1 meter. The mid frequency section shall handle 125 Watts of amplifier power (AES) and shall have a nominal impedance of 8 Ohms. Horizontal coverage of 60° between -6 dB points; Vertical coverage of 40° between -6 dB points. The low frequency section shall produce a Sound Pressure Level (SPL) of 97 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a continuous output of 125 dB SPL and a peak output of 131 dB SPL on axis at 1 meter. The low frequency section shall handle 700 Watts of amplifier power (AES) and shall have a nominal impedance of 8 Ohms. The loudspeaker enclosure shall be 30° trapezoidal in shape. It shall be of 16 mm thick Finland birch plywood construction, except the baffle and partition, which shall be 19 mm. It shall be finished in a black or white textured coating. Input connectors shall be parallel wired Neutrik NL8 for tri-amp mode, NL4 for bi-amp mode and barrier strip. The loudspeaker shall have a selector switch on the rear panel that allows switching between bi-amp and tri-amp drive modes. A total of 13 x M10 threaded mounting points shall be provided. An internal passive frequency dividing network shall provide a 2nd order acoustic crossover for mid and high frequency subsystems. The front of the loudspeaker shall be covered with a powder coated perforated steel grill backed with open cell foam to protect against dust. The three-way full range loudspeaker system shall be the YAMAHA IF3115/64 (W).

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