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"A Century of Change Overnight"

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MAD VFL-Series Subwoof Speakers

VFL Subwoof   VFL-jr. Subwoof

   From the beginning, HPV Technologies's design strategy has been to use cutting-edge technology to create the finest sounding loudspeakers. The **VFL-Series** of subwoof speakers continues HPV's tradition of producing stellar sound, even from the ultra low frequencies...sounds that typically have been treated as being useful for only "thump, punch, n' boom". While this is an important requirement in contemporary music, there is also musical detail and color that needs to be clearly heard and felt.

   The VFL series includes two models, each using a single 18" driver; the **VFL** horn-loaded enclosure and the compact **VFL-jr.** front-load, vented enclosure. The VFL's horn-loaded design produces exceptionally high SPL output, which is characteristic of this enclosure. The added benefit is the exceptional sonic clarity, definition and uncolored quality of sound. HPV's VFL sub is ideally suited for touring or installed systems where high output and sonic clarity must be heard as well as felt.

   The VFL-jr. packs the same exceptional sonic detail, power, and ultra low distortion levels that are found in it's big brother into a very small box. With its small and compact footprint, the VFL-jr. become an excellent choice for touring or installed systems where LF performance cannot be sacrificed and the cabinet's physical dimensions must remain small enough to fit into shallow or confined spaces such as under the stage.

   Both speakers are constructed from 13 ply Baltic Birch. The VFL has a tuff dura-tex finish and stacking rails to facilitate stable assembly of subwoof arrays. The VFL-jr enclosures can be finished with custom colors or with the dura-tex surface.

VFL-Series Subwoof Specifications

The VFL-Series is an excellent companion subwoof loudspeaker to the MAD Array series and SB cardioid bass speaker systems. Configured for operation between approximately 28 to 150 Hz. these subwoof speakers combine seamlessly to produce powerful, ultra fast bass with exceptional tonal accuracy.

The **VFL-Series** consist of 2 model: the **VFL** (with one 18" driver in a horn loaded enclosure) and the **VFL-jr.** (with one 18" driver in a front load enclosure). Both of these speakers utilize the same type of low distortion, long throw excursion 18 inch transducer. A high pass filter at 25-30 Hz with a 24 dB/octave L/R slope is recommended for all VFL systems.

Both VFL speakers are designed for ground arrays. The SPL output, low frequency cutoff, and coverage patterns are determined by the number of cabinets and their physical placement. Refer to the following chart for performance specifications. Actual output is subject to environmental and atmospheric conditions and may vary from the published specification.

Speaker Models	VFL	VFL-jr.
Number of Transducers	1	1
Horizontal Dispersion	Omnidirectional	Omnidirectional; 90° at 100 Hz/ w/4 boxes placed side-by-side
Vertical Dispersion	Omnidirectional	Omnidirectional; 90° at 100 Hz/ w/4 boxes stacked one-above-another
Power Handling Capacity	1,200 watts RMS	1,200 watts RMS
Speaker Sensitivity	107 dB 1w/1m	95 dB 1w/1m
Nominal Impedance	8 Ohms	4 Ohms
Weight per Speaker	190 Lbs.	80 Lbs.
Dimension per Speaker H x W x D in Inches	14.3 x 14.3 x 22	19.89 x 19.89 x 26.30
High Pass Filter	High Pass at 25 Hz; 24 dB-LR slope	High Pass at 30 Hz; 24 dB-LR slope
Recommended X'over when combined with SB-Series cardioid bass speakers	X'over freq. between VFL & SB-412C = 70-100 Hz; 24 dB –LR slope	X'over Freq. between VFL-jr. & SB-212C = 70-100 Hz; 24 dB –LR slope
Input & Thru Connector	Speakon NL4 x 2; 1+ & 2+ wired in parallel, 1- & 2- wired in parallel	
Optional Accessories	Casters for VFL enclosure, Heavy duty protective pull-over covers for VFL, Caster board for VFL-jr, System DSP (preloaded with processing parameters), Amplification, Speaker cables	