

VB-300 & VB-318

Direct Radiator

Low Frequency Reproducers

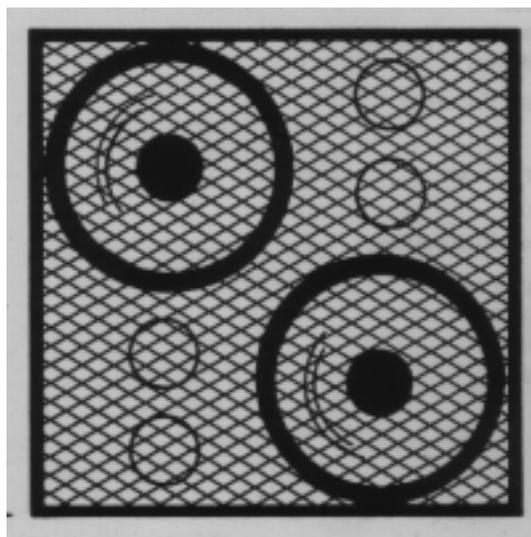


EAW direct radiator, low frequency reproducers are designed for sound reinforcement or reproduction in theaters, clubs, discotheques, and other nearfield applications where smooth response and extended low frequency performance are desired. The VB-300 and VB-318 enclosures are ruggedly constructed of cross-grain laminated Baltic birch hardwood, a material far superior to domestic birch, fir plywoods or particle materials, both in terms of strength to weight ratios and resistance to road abuse. This quality material combined with extensive internal bracing virtually eliminates panel resonances which rob output and produce response variations.

The direct radiator vented design of the VB-300 and VB-318 provides more usable extended response vs. size than comparable horn loaded systems. This is particularly true when compared to theater-type vented horns which sacrifice size for increased output above 200 Hz, but perform as non-optimum vented boxes below 200 Hz. The ability of the VB-300 series to provide extended bass response makes them ideal for nearfield systems where the directivity and higher output of a true horn system is not required.

VB-3W-LR

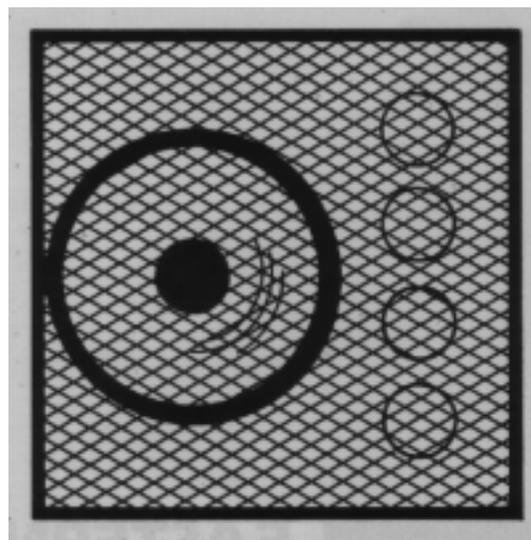
The VB-300-LR with its two RCF LF-383 drivers in an optimally vented enclosure, provides smooth response from 500 Hz down to 38 Hz. The high efficiency of 101 dB SPL (1w at 1 meter), combined with the ability to handle 600 watts of power under program conditions, results in a maximum output level of 128 dB SPL at 1 meter. This unit is ideal for use as a woofer in nearfield component arrays. The VB-300 will also perform well as a sub-woofer, augmenting the bass output of full range systems in applications where deep bass punch is essential. Another application where the VB-300 is well suited is supplementing the limited low frequency output (below 150 Hz) of small vented theater horns like the 4560.



VB-318-LR

Single 18" Vented Reproducer

The VB-318-LR sub-woofer is designed to provide smooth response **down to 30 Hz for nearfield** applications where impressive bass is of prime concern. The LF-443 driver can produce 98 dB SPL at 1 meter with 1 watt input in this system. The combination of extended response and output capabilities make this system ideal for use as a subwoofer, augmenting the output of compact full-range systems, when true deep bass response is required for impressive sonic performances.



Specifications

Usable Frequency Response:

Low Frequency Limit

- 2dB

- 10 dB

Recommended High Frequency

Crossover:

Half Space Efficiency

Sensitivity; 1w at 1m:

Power Handling

Long Term Sine Wave:

Continuous Program:

Directivity; at 500 Hz:

Coverage Angle

- 6 dB Horizontal:

- 6 dB Vertical:

Nominal Impedance:

Drivers

Model:

Diameter:

Quantity:

Internal Volume:

Construction:

Finish:

Speaker Protection:

Dimensions

Height:

Width:

Depth:

VB-300-LR

38Hz to 1k Hz

38 Hz

25 Hz

500 Hz

7.3%

101 dB SPL

400 w rms

600 w

6

120 Degree

60 Degree

4 ohms

EAW/RCF LF-383

380mm. (15in)

TWO

280 liters

10.0 cu. ft.

Cross-grain-laminated Birch Hardwood

Black Polyurethane

Perforated Steel Grill

755mm. (293/4")

762mm. (30")

603mm (233/4")

VB-318-LR

28 Hz to 1k Hz

30 Hz

22 Hz

500 Hz

2.3%

98 dB SPL

250 w rms

400 w

5

120 Degree

120 Degree

8 ohms

EAW/RCF LF-443

440mm (18in)

One

280 liters

10.0 cu. ft.