Fa-118S

Dual chamber subwoofer.

The Fa-118S is a dual chamber subwoofer with a 18” driver and exponential horn in the outputs. Specially designed to get high pressures (132 dB SPL).

This model is indicated to be used with Fa-12 and Fa-15.

This acoustic enclosure uses a new range of 12” speakers with ISV technology (interleaved sandwich voice-coil). This technology admits high pressure levels, thermic stability and durability. The system has also a Double Silicon Spider (DSS) to improve the control over the diaphram and its linearity. Those technologies allow us to dispel the high power that could be applied to the speaker.

Made in multilayer birch plywood panelling and black vitrodur painted finish with four handles and 2 mm perforated zinc coated steel black finished. It includes also two speakon connectors NL4 and two bakelite rollers in the bottom to avoid damages when it is dragged. On the top there are two scores of the same dimensions to make easier to stack it with another enclosure.

Specifications

(1)	Frequency Response (±3 dB)	46 Hz - 145 Hz
(2)	Frequency Range (-10 dB)	37 Hz – 200 Hz
	Recommended High Pass Filter	37 Hz 24 dB / octave Butt or Linkey
(3)	Nominal Beamwidth (-6 dB)	N/C
	Crossover Mode	Active
	Crossover Frequency	
	Nominal Impedance	8 ohms
	Minimum Impedance	6,963 ohms @ 77 Hz
(4)	Axial Sensitivity	SPL 102 dB (1W @ 1m)
	Power Rating (Continuous, Program, Peak)	700 W / 1400 W / 2800 W
(5)	Calculated Axial Output Limit	Average 133 dB / Peak 139 dB
	Components	1 x 18" Driver
	Voice Coil Diameter	Driver 100 mm
	Enclosure	Birch plywood
	Rigging Points	---
	Finish	Black Textured
	Grill	1,5 mm Perforated steel, Black finish
	Connectors	Neutrik Speakon NL-4 x 2
	Dimensions (H x W x D)	750 x 590 x 645 mm
	Net Weight	48 Kg

Measuring conditions

(1) Frequency response
This is the measured SPL as a function of frequency, from 20 Hz to 24 kHz, referenced to a distance of 1m and to a Nominal 1 W input. Environment: Anechoic

(2) Operating range
The Operating Range is intended to define the useful range of frequencies over which the loudspeaker can be used to reproduce quality sound. Industry experience has shown that if the output level at the frequency extremes of a loudspeaker is within 10 db of the flat or linear portion of the frequency response, it can be audibly significant and useful for reproduction.

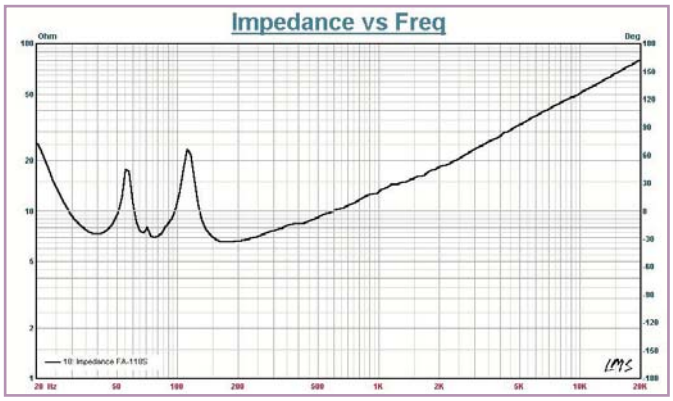
(3) Nominal Beamwidth
This is calculated included angle between the measured first -6 dB SPL points on each side of the loudspeaker axis, from front to rear, relative to highest SPL point for each frequency band from 100 Hz to 20 kHz, in the horizontal and vertical planes, referenced to a distance of 3 m. Environment :Anechoic.

(4) Axial sensitivity
Standard audio industry measurement practice is to specify sensitivity as the SPL produced at 1m with an input level of 1 W.
Environment: Anechoic for all. ½ space for subwoofers & stage monitors

(5) Calculated Axial Output Limit
This is called "Output Limit" because it is calculated as the theoretical SPL produced at the limit program power rating.
Calculate Average SPL limit: (10 log. W program + axial sensitivity)
Calculate Peak SPL limit: (average SPL limit + 6 dB)

Tables


SPL vs Freq
dBSPL
Deg
27: FA-118S Band-Pass 10-500 Hz
LMS
20 Hz
50
100
200
500
1K
2K
5K
10K
20K


Impedance vs Freq
Ohm
Deg
18: Impedance FA-118S
LMS
20 Hz
50
100
200
500
1K
2K
5K
10K
20K

Dimensions in mm