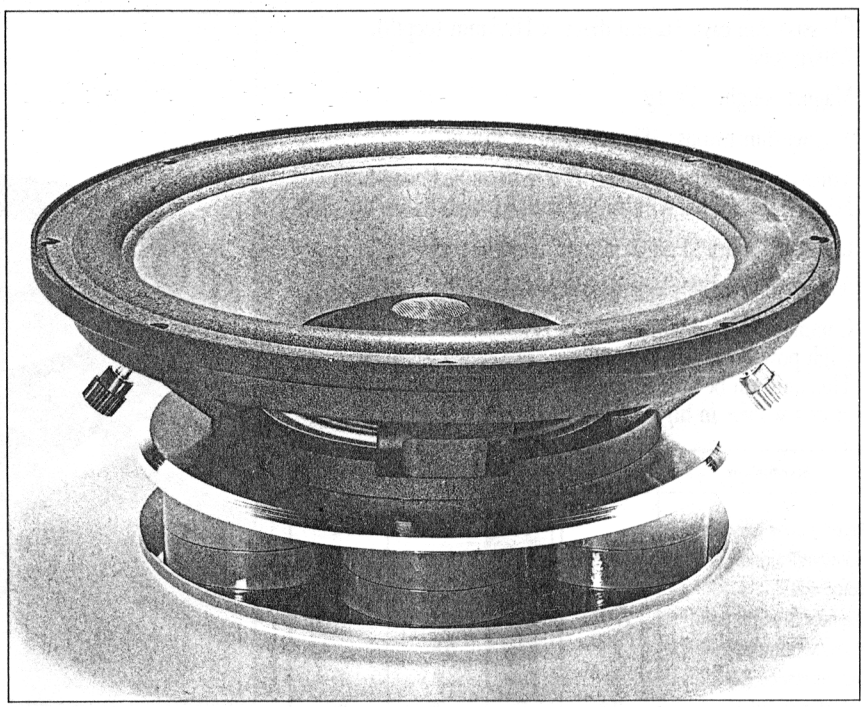
FOCAL® AUDIOM 12 VX - WOOFER

- Chassis: Alu cast. 312 mm diam. x 123.5 mm (depth). 11.500 g total.
- Magnet weight: 3000 g.
- Magnet dimensions: Multi magnet design exclusively from FOCAL, using a unique 12 magnets cluster configuration: low distortion and vastly improved cooling.
- Voice coil: Kapton® former, 77 mm diam. x 22 mm high. Edgewound copper flat wire. Super high BL ultra high power winding.
- Emissive surface: Polyglass cone, straight profile.
- Suspension: Coated foam high compliance positive half roll.
- Comment: Tremendous authority, shocking transients. Immense reserve of dynamics. Will work in 60 l. and up.



Specifications	
Rated power handling	
Nominal/Program (W)	200/250
Voice coil	
Diameter/Length (mm)	77/22
Nom./Mini impedance (Ω)	8/7.1
DC resistance (Ω)	6
Inductance (mH)	1.75
Former	Anod.alumin.
Layers	1
Wire	Copper
Cone	Polyglass
Surround	Foam
Magnet	
Diameter (mm)	235
Weight (g)	3000
Flux density = B (T)	1.02
Gap height (mm)	10
Sensitivity	
2.8 V/1 m (dB)	93.1
Net weight (kg)	11.500
Xmax (mm)	6

Parameter	Value	Units
Fs	23.55	Hz
Vas	.2376	m^3
Qts	.205	
Qes	.233	
Qms	1.668	
Rcc	6.1	Ω
D	.26	m
Sd	.0531	m^2
Cas	1.692 E-06	m^5/N
Mas	26.99	kg/m^4
Ras	2395.24	Ω.ac
Cms	.0006001	m/N
Mms	.0761	kg
Rms	6.75	kg/s
Ces	258.26	μF
Les	176.78	mH
Res	43.63	Ω
Bl	17.16	N/A
Γ	225.6	$ms^{-2}A^{-1}$
N	1.28	%
No	93.08	dB/1W/1m

Vented cabinet: Vb (l)

Align.	Rg: 0 Ω	0.4 Ω	0.6 Ω	0.8 Ω	1 Ω
4	39.72	44.39	46.79	49.23	51.72
5.7	56.61	63.25	66.67	70.15	73.70
8	79.45	88.77	93.57	98.46	103.43

Vented cabinet: F-3 (Hz)

Align.	Rg: 0 Ω	0.4 Ω	0.6 Ω	0.8 Ω	1 Ω
4	57.60	54.49	53.07	51.74	50.48
5.7	48.25	45.64	44.46	43.34	42.29
8	40.73	38.53	37.53	36.58	35.69

Vented cabinet: Fb (Hz)

	Rg: 0 Ω	0.4 Ω	0.6 Ω	0.8 Ω	1 Ω
Fb	44.92	42.50	41.39	40.35	39.37

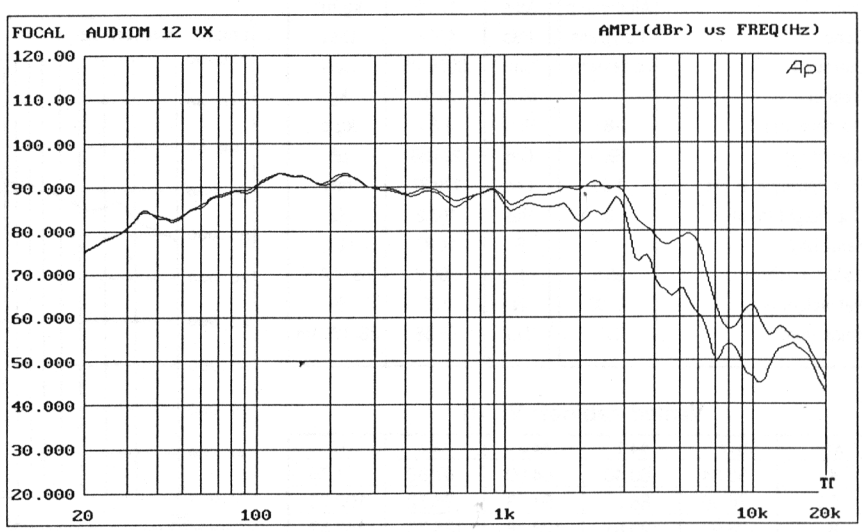
Sealed cabinet: Vb (l)

Damping	Rg: 0 Ω	0.4 Ω	0.6 Ω	0.8 Ω	1 Ω
.5	47.70	54.58	58.26	62.10	66.10
.577	34.11	38.77	41.23	43.78	46.42
.707	21.68	24.49	25.96	27.47	29.03

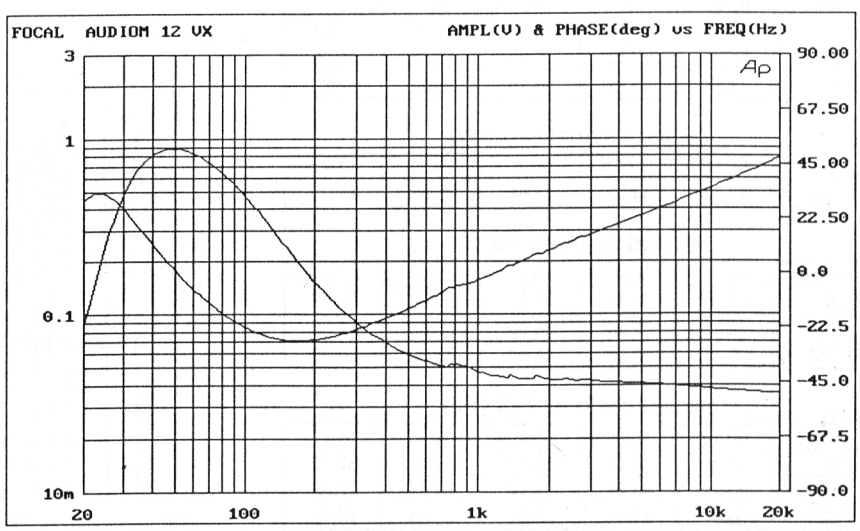
Sealed cabinet: F-3 (Hz)

Damping	Rg: 0 Ω	0.4 Ω	0.6 Ω	0.8 Ω	1 Ω
.5	89.49	84.66	82.46	80.39	78.43
.577	84.61	80.05	77.97	76.01	74.16
.707	81.45	77.05	75.05	73.17	71.39

On axis and 30° off axis frequency response



Impedance magnitude and phase versus frequency



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