



850122 6.5" MID WOOFER CSX176H

WOOFER/MID 6½" - 176 WR 33 102 SD AL

A high end mid-woofer with a rigid pressed steel-alloy basket, multi-layered sandwich cone with inverted dust cap and high compliance rubber surround. Impressively deep dry bass and crisp clear midrange with very low distortion. Heavy duty construction with large ventilated high power aluminium voice coil, huge high density magnet with a very low distortion flux field design. Suitable for top of the line box applications with single or multiple drivers.

Peerless Recommend: "F(ratio) for this driver is 83, and the the driver is can work in vented boxes as well closed boxes.

30 ltr box. 1 port. Diameter 70 mm. Lenght 160 mm. Tuning freq 42 Hz. Response, - 3 dB appr at 42 Hz.

30 ltr box. 1 port. Diameter 55 mm. Lenght 90 mm. Tuning freq 42 Hz. Response, - 3 dB appr at 42 Hz.

20 ltr box. 1 port. Diameter 55 mm. Lenght 110 mm. Tuning freq 48 Hz. Response, - 3 dB appr at 48 Hz.

15 ltr box. Closed. Qt in box = 0.75 Response, - 3 dB appr at 64 Hz.

10 ltr box. Closed. Qt in box = 0.85 Response, - 3 dB appr at 73 Hz.

The driver can also be used into parrallel configurations for larger boxes.

Cross-over freq from 1500-4000 Hz is recommendable for this model."

PARAMETERS

			Free Air	Common	Baffled
Nominal impedance	Zn	(ohm)		8	
Minimum impedance/at freq.	Zmin	(ohm/Hz)		6.5/230	
Maximum impedance	Zo	(ohm)		31.7	
DC resistance	Re	(ohm)		6.1	
Voice coil inductance	Le	(mH)		1.3	
Capacitor in series with 8 ohm (for impedance compensation)	Cc	(µF)		9	
Resonance Frequency	fs	(Hz)	38.0		36.8
Mechanical Q factor	Qms		2.22		2.29
Electrical Q factor	Qes		0.53		0.55
Total Q factor	Qts		0.43		0.44
F (Ratio fs/Qts)	F	(Hz)			83
Mechanical resistance	Rms	(Kg/s)		1.92	
Moving mass	Mms	(g)	17.8		19.0
Suspension compliance	Cms	(mm/N)		0.99	
Effective cone diameter	D	(cm)		13.5	
Effective piston area	Sd	(cm ²)		143	
Equivalent volume	VAS	(ltrs)		27.7	
Force factor	Bl	(N/A)		7.0	
Reference voltage sensitivity					
Re 2.83V 1m at 230 Hz (Measured)		(dB)			86.5
Voice coil diameter	d	(mm)	33		
Voice coil length	h	(mm)	17		
Voice coil layers	n		2		
Flux density in gap	B	(T)	1.08		
Total useful flux		(mWb)	0.94		
Height of the gap	hg	(mm)	6		
Diameter of magnet	dm	(mm)	102		
Height of magnet	hm	(mm)	16		
Weight of magnet		(kg)	0.54		
Power handling:					
Long term Max System Power (IEC)		(W)	150		
Code	850122				





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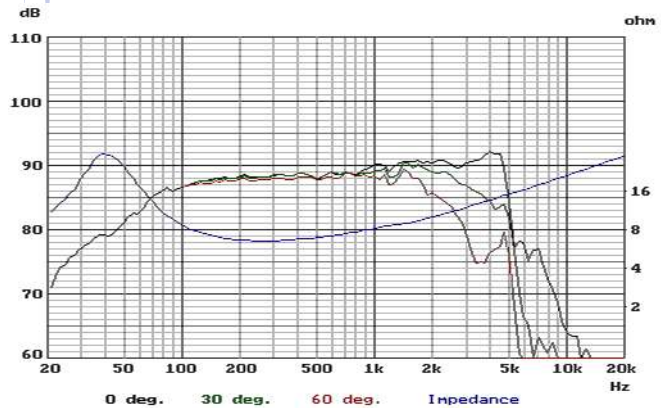
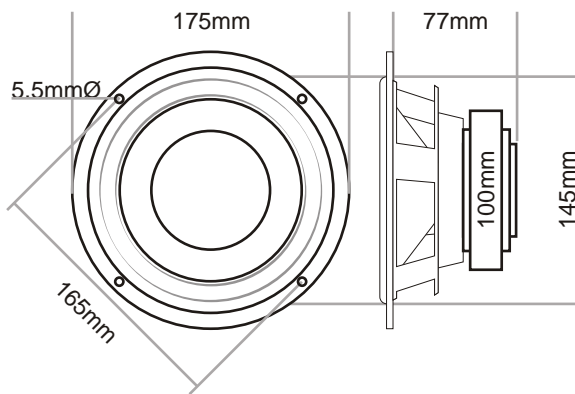
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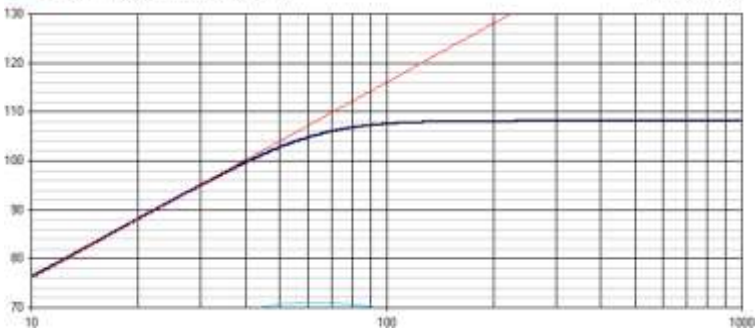
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Closed Box, Vb = 15 l
F3 = 063 Hz Fb = 063 Hz
Response peak = 000 dB
Qs = 020 Ql = 050



Peerless 850122
Vented Box, Vb = 30 l
F3 = 032 Hz Fb = 034 Hz
Response peak = 000 dB
Qs = 20 Ql = 50 Qts = 100

