



176 WR 33 102 SD AL 4Ω

850123

High quality 6½" woofer with Peerless' "Sandwich" cone, a heavy magnet, and a short cirquiting ring to reduce distortion in the magnet system.

This 4Ω version of the 850122 CSX woofer has lower Q and gives extra well-controlled bass. The low Q favours application in smaller reflex boxes and in bass reflex boxes of 7-30 ltrs. Furthermore, it is recommended for use in small closed boxes down to 4 ltrs. and, at the cost of bass response, it is also suitable for use in even smaller boxes, provided that the cavity is damped appropriately. It can also be used as high-end midrange or in satellite systems.

CSX 176

Thiele Small parameters:

		Free air	Common	Baffled
Nominal impedance	Zn (Ω)		4	
Minimum impedance/at freq.	Zmin (Ω/Hz)		3.8 / 237	
Maximum impedance	Zo (Ω)		23.2	
Dc resistance	Re (Ω)		3.5	
Voice coil inductance	Le (mH)		0.9	
Capacitor in series with 4 Ω (for impedance compensation)	Cc (μF)		28	
Resonance Frequency	fs (Hz)	38.2		37.0
Mechanical Q factor	Qms	2.38		2.46
Electrical Q factor	Qes	0.43		0.44
Total Q factor	Qts	0.36		0.37
F (Ratio fs/Qts)	F (Hz)			99
Mechanical resistance	Rms (Kg/s)		1.81	
Moving mass	Mms (g)	18.0		19.2
Suspension compliance	Cms (mm/N)		0.97	
Effective cone diameter	D (cm)		13.5	
Effective piston area	Sd (cm²)		143	
Equivalent volume	Vas (ltrs)		27.1	
Force factor	Bl (N/A)		6.0	
Reference voltage sensitivity	(dB)			90.0
Re 2.83V 1m at 237 Hz (Calculated)				

Magnet and voice coil parameters:

Voice coil diameter	d (mm)	33
Voice coil length	h (mm)	16
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

Max linear SPL:

