

Woofer ESOTEC® 20 W-75

Advantages

The rigid aluminium basket has very slim but solid ribs, thus avoiding most of the rear air reflections of conventional broad ribbed baskets. The largely vented magnet system together with the vented voice coil result in very low compression and an extremely smooth frequency response.

The one-piece moulded PP cone makes it possible to use the large 75 mm voice coil without having the problems that separate dust caps and large voice coils are likely to create.

The large aluminium voice coil gives a long linear excursion and thereby very low distortion.

The 20 W-75 woofer furthermore is equipped with the XL magnet construction already in the standard version.

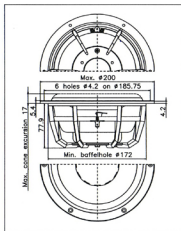
Applications

The high power handling unit is designed for 18 liter closed cabinets giving an appr. $Q_t = 0.7$.

For use as woofer in high quality 2 and 3 way systems or as mid woofer in bigger constructions. Can be used with 6 dB or higher order crossover.

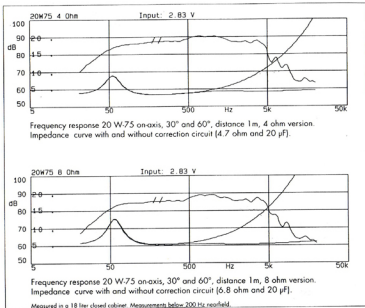
Typical Data

	4 Ohm	8 Ohm
F_s	30 Hz	30 Hz
Q_t	0.4	0.5
Vas	65 liter	65 liter



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Measurements



Specifications

Thiele-Small Parameter ¹			4 ohm	8 ohm	Voice Coil			4 ohm	8 ohm
Q, mechanical	Qm	1.5	1.5	1.8	Diameter	d	75 mm	75 mm	75 mm
Q, electrical	Qe	0.5	0.5	0.7	Length	h	14 mm	14 mm	14 mm
Q, total	Qt	0.4	0.4	0.5	Layers	n	2	2	2
Resonance frequency	Fs	30 Hz	30 Hz	30 Hz	Inductance 10 kHz	Le	0.20 mH	0.30 mH	0.30 mH
Maximum impedance	Zmax	12 ohm	17 ohm	20 g	Nom. impedance	Zvc	4 ohm	8 ohm	8 ohm
Moving mass	Mms	20 g	20 g	5.0 Tm	DC resistance	Re	3.2 ohm	5.0 ohm	5.0 ohm
Force factor	Bl	4.8 Tm	5.0 Tm	2.83 V	Sensitivity		see curve	see curve	see curve
Equiv. volume	Vas	65 liter	65 liter		Power Handling:				
Effective cone area	Sd	180 cm ²	180 cm ²		Nominal long term	IEC>	130 watts	130 watts	130 watts
lin. excursion (p-p)	Xmax	9 mm	9 mm		Transient	10ms>	1000 W	1000 W	1000 W
Max. excursion (p-p)		15 mm	15 mm		Net weight		1.2 kgs	1.2 kgs	1.2 kgs
					Overall dimension		Ø 200 x 89 mm		

¹Thiele-Small Parameter measured with correction circuit

All specifications subject to change without notice.