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PROFESSIONAL LOUDSPEAKERS
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15WRS400

LOW FREQUENCY TRANSDUCER

WRS Series

KEY FEATURES

- High power handling: 800 W program power
- 3" copper wire voice coil
- High sensitivity: 98,5 dB (1W / 1m)
- Optimized pressed steel frame

- FEA optimized ceramic magnetic circuit
- Weatherproof cone treatment for both sides of the cone
- Low harmonic distortion and linear response
- Wide range of applications of low and mid-low frequencies

TECHNICAL SPECIFICATIONS

Nominal diameter	380 mm	15 in
Rated impedance		8 Ω
Minimum impedance		7 Ω
Power capacity [1]		400 W$_{AES}$
Program power [2]		800 W
Sensitivity	98,5 dB	1W / 1m @ Z$_N$
Frequency range		40 - 4.000 Hz
Recom. enclosure vol.	70 / 150 l	2,5 / 5,2 ft^3
Voice coil diameter	76,2 mm	3 in
Bl factor		18,2 N/A
Moving mass		0,091 kg
Voice coil length		16 mm
Air gap height		8 mm
X$_{damage}$ (peak to peak)		30 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f$_s$	36 Hz
D.C. Voice coil resistance, R$_e$	5,6 Ω
Mechanical Quality Factor, Q$_{ms}$	9,1
Electrical Quality Factor, Q$_{es}$	0,35
Total Quality Factor, Q$_{ts}$	0,33
Equivalent Air Volume to C$_{ms}$, V$_{as}$	236 l
Mechanical Compliance, C$_{ms}$	215 μm / N
Mechanical Resistance, R$_{ms}$	2,3 kg / s
Efficiency, η$_0$	3 %
Effective Surface Area, S$_d$	0,088 m^2
Maximum Displacement, X$_{max}$ [4]	6,3 mm
Displacement Volume, V$_d$	555 cm^3
Voice Coil Inductance, L$_e$	1,1 mH

Notes:

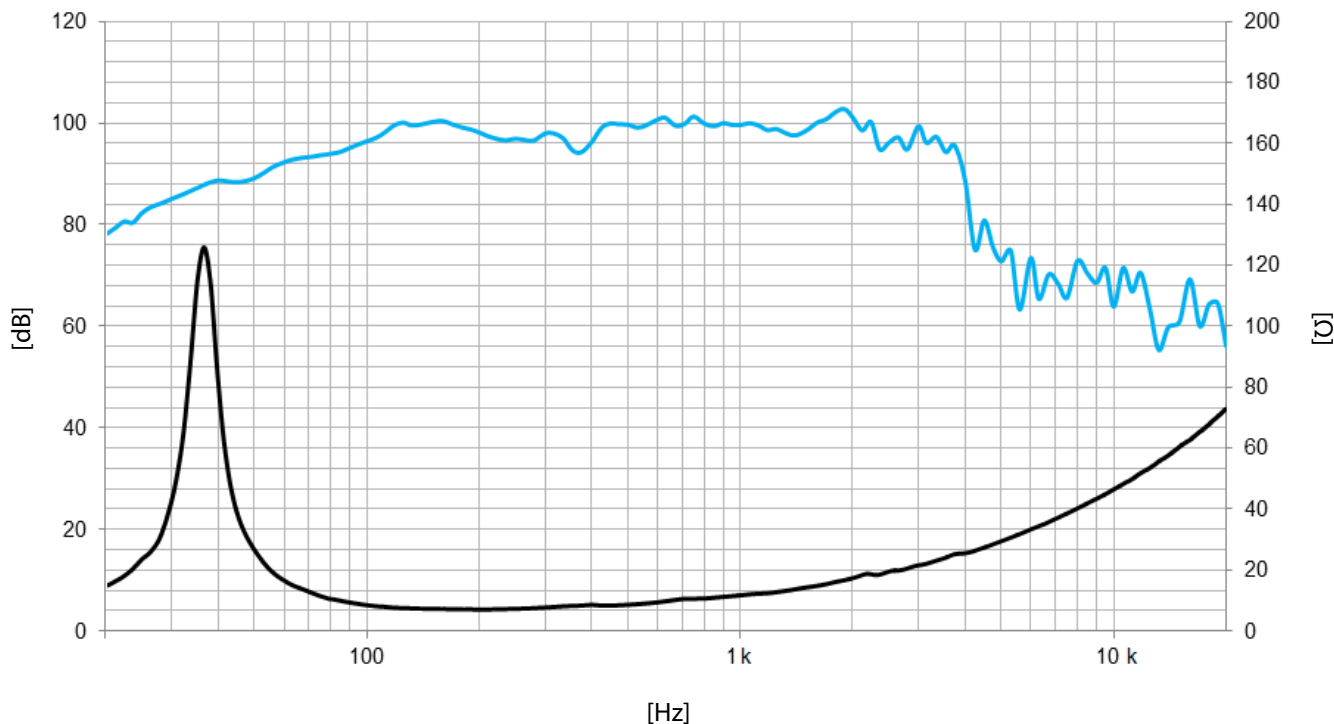[1] The power capaticty is determined according to AES2-1984 (r2003) standard.

[2] Program power is defined as power capacity + 3 dB.

[3] T-S parameters are measured after an exercise period using a preconditioning power test. The measurements are carried out with a velocity-current laser transducer and will reflect the long term parameters (once the loudspeaker has been working for a short period of time).

[4] The X$_{max}$ is calculated as (L$_{vc}$ - H$_{ag}$)/2 + (H$_{ag}$/3,5), where L$_{vc}$ is the voice coil length and H$_{ag}$ is the air gap height.

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Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	385 mm	15,2 in
Bolt circle diameter	367 mm	14,4 in
Baffle cutout diameter:		
- Front mount	353 mm	13,9 in
Depth	165 mm	6,5 in
Net weight	6,2 kg	13,7 lb
Shipping weight	7,2 kg	15,9 lb

DIMENSION DRAWING

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