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PROFESSIONAL LOUDSPEAKERS
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18P1000Fe V2/S

LOW FREQUENCY TRANSDUCER

P1000 Series

KEY FEATURES

- High power handling: 2.400 W program power
- 4” copper voice coil
- High sensitivity: 98 dB (1W / 1m)
- FEA optimized magnetic circuit
- Low power compression losses
- Weatherproof cone with treatment for both sides of the cone
- CONEX spider
- High excursion capabilities: X_{max} ± 8 mm
- Low frequency extension and high control

TECHNICAL SPECIFICATIONS

Nominal diameter	460 mm	18 in
Rated impedance		8 Ω
Minimum impedance		5,5 Ω
Power capacity [1]		1.200 W_{AES}
Program power [2]		2.400 W
Sensitivity	98 dB	1W / 1m @ Z_N
Frequency range		30 - 2.000 Hz
Recom. Enclosure		V_b = 180 l
(Bass Reflex Desing)		F_b= 42Hz
Voice coil diameter	101,6 mm	4 in
Bl factor		26,8 N/A
Moving mass		0,221 kg
Voice coil length		21 mm
Air gap height		12 mm
X_{damage} (peak to peak)		52 mm

THIELE-SMALL PARAMETERS [3]

Resonant frequency, f_s	33 Hz
D.C. Voice coil resistance, R_e	5,2 Ω
Mechanical Quality Factor, Q_{ms}	10,5
Electrical Quality Factor, Q_{es}	0,33
Total Quality Factor, Q_{ts}	0,32
Equivalent Air Volume to C_{ms}, V_{as}	230 l
Mechanical Compliance, C_{ms}	105 µm / N
Mechanical Resistance, R_{ms}	4,4 kg / s
Efficiency, η_0	2,4 %
Effective Surface Area, S_d	0,1250 m^2
Maximum Displacement, X_{max} [4]	8 mm
Displacement Volume, V_d	1000 cm^3
Voice Coil Inductance, L_e	1,75 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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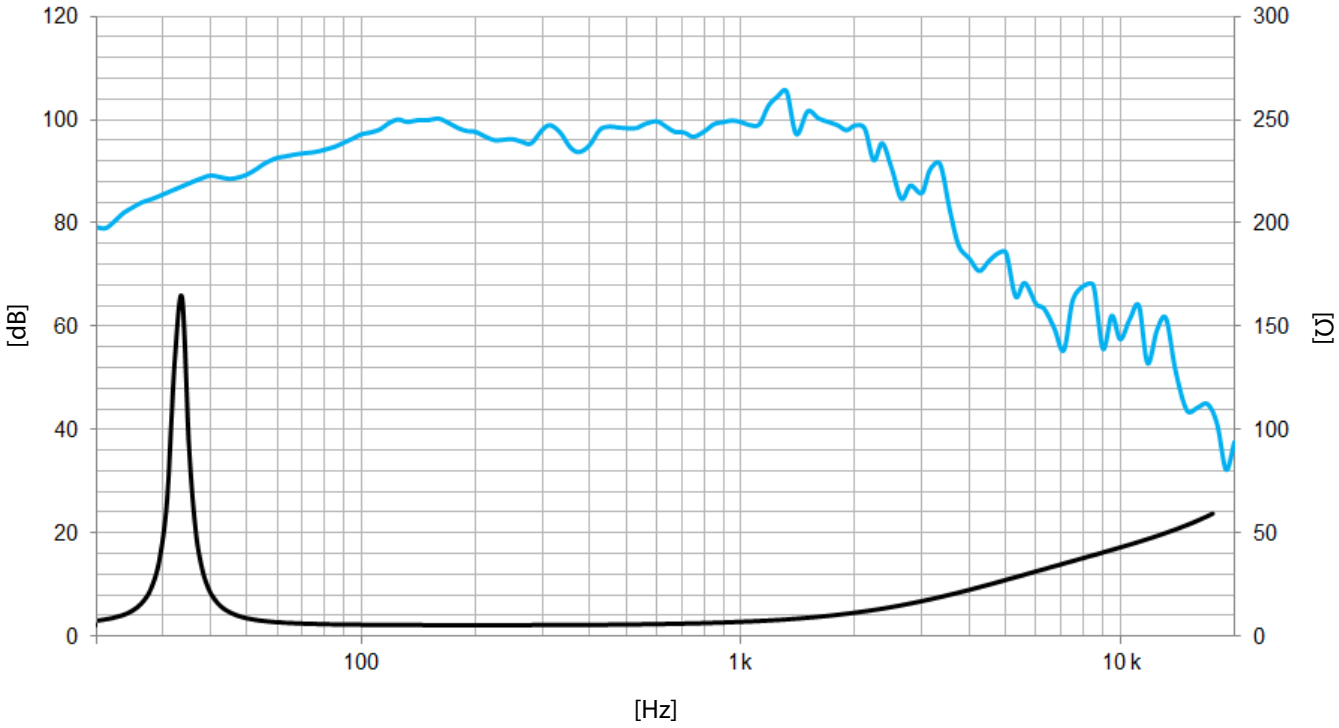
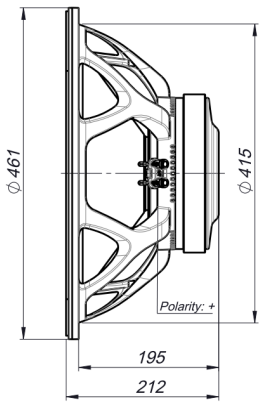


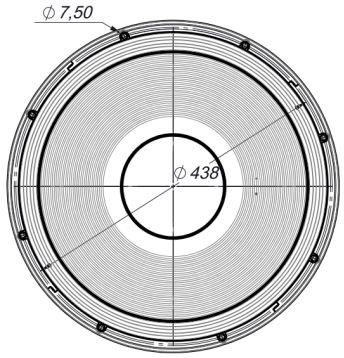
Note: On axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1W @ 1m

MOUNTING INFORMATION

Overall diameter	461 mm	18,1 in
Bolt circle diameter	438 mm	17,2 in
Baffle cutout diameter:		
- Front mount	415 mm	16,4 in
Depth	212 mm	8,3 in
Net weight	13,5 kg	29,8 lb
Shipping weight	15,8 kg	32,6 lb

DIMENSION DRAWING





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