

SoundPro - Inlet

Reduction of aeroacoustics in fuel cell air paths



- ✓ Broadband damping
- ✓ High efficiency
- ✓ System competence

MANN+HUMMEL SoundPro – Inlet

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Technical specification

Performance class	MEDIUM	HIGH	HIGH+	MAX
Fuel cell stack power [kW]	~ 30 - 60	~ 80 - 130	~ 150 - 200	Up to 400
Air volume flow* [m ³ /min]	1.0 - 2.5	2.0 - 6.5	3,5 - 10,0	> 10,0
Air mass flow* [g/s]	20 - 50	30 - 130	70 - 200	> 200
Design layout	4 eccentric Chamber			6 eccentric Chamber
Frequency range [Hz]	900 - 3500		800 - 2500	
Acoustic damping (TL) [dB]	> 15		> 15	
Pressure drop [mbar]	2.5 - 4.0		4.5	

* T = 20 °C | p = 1013 hPa | φ = 50 % rel. humidity

Product features

- Reduces exhaust tail pipe noise
- Design suitable for fuel cell exhaust path
- Outlet pipe installation at lowest position

PA rapid prototyping parts

- T = 85 [°C] (long term, operating)
- Burst pressure > 10 [bar] @ 20°C

MANN+HUMMEL memberships and partnerships in e-mobility and fuel cells:

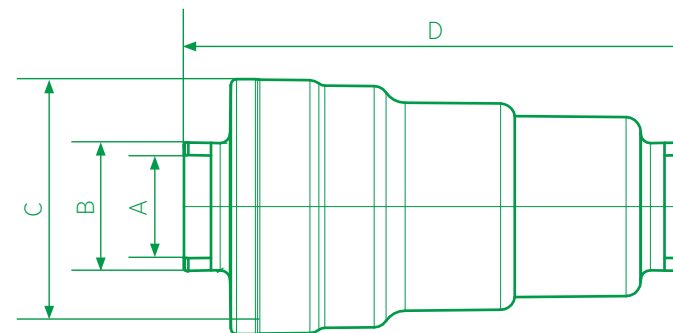


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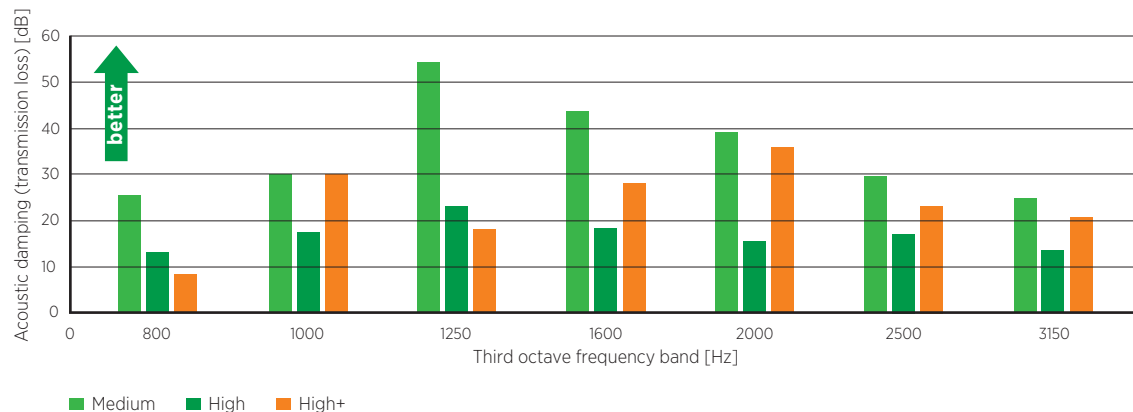
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Dimensions [mm]

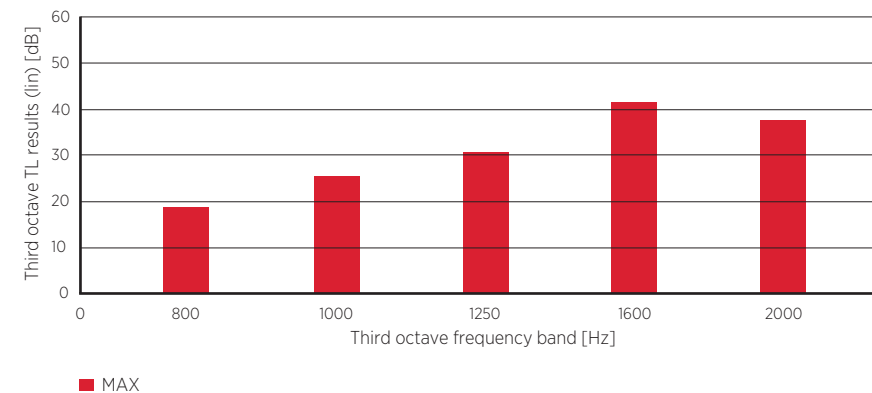
Performance class	MEDIUM	HIGH	HIGH+	MAX
Chambers		4		6
A	35	54	64	90
B	44	66	76	103
C	117	134	164	195
D	271	271	307	383



Transmission loss curve example 4-Chamber design



Transmission loss curve example 6-Chamber design





MANN+HUMMEL Contact

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Open the website for more information about products for electrified powertrains from MANN+HUMMEL.



Watch the video of the broad band silencer for fuel cell systems.



Visit our E-Mobility Onlineshop to check our offerings and buy directly.