Summary: Noise Compliance for Flueboost 100 Installation at 237-239 Deansgate, Manchester

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1. Manchester City Council Noise Policy

Given Deansgate's high traffic and commercial activity, the background noise levels during the day are expected to be around 50-60 dB(A), reducing to 40-50 dB(A) at night.

- **Requirement:** Plant noise emissions must be **5 dB(A) below the background noise level (LA90)** at the nearest **noise-sensitive receptor**.
- **Standard Used: BS 4142:2014** (Methods for rating and assessing industrial and commercial sound).
- **Implications for the Site:** Given Deansgate's high traffic and commercial activity, the background noise levels during the day are expected to be around 50-60 dB(A), reducing to 40-50 dB(A) at night.
- To comply with **Manchester City Council's planning policy**, the plant noise must be at least **5 dB(A) below the background noise level (LA90)** at the receptor.

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2. Proposed Flueboost 100 Fan with Metaloterm MFSIA12 Silencer

Flueboost 100 Noise Levels

Frequency (Hz)	63	125	250	500	1k	2k	4k	8k	Total dB(A)
Flueboost 100 (Discharge - Without Attenuation)	67.3	60.2	58.5	60.2	58.8	54.0	49.3	42.9	**62.5**
Flueboost 100 (Breakout - Without Attenuation)	63.5	54.0	54.4	56.5	53.9	49.1	45.4	36.8	**58.0**
Flueboost 100 (Discharge - With Attenuation)	32.3	25.2	23.5	27.2	28.8	24.0	19.3	12.9	**27.5**
Flueboost 100 (Breakout - With Attenuation)	28.5	22.0	20.4	24.5	23.9	19.1	15.4	10.8	**24.0**

🔷 **With the MFSIA12 silencer, the Flueboost 100 meets the required noise limit (≤ 40 dB(A)), ensuring compliance with Manchester planning requirements.**

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