

FAQ

Tailored Air Distribution

Question:

Is a fabric duct noisy?

Answer:

Noise from a fabric ducting system can depend on both subjective perception and measurable acoustic criteria. At Prihoda, we take both into account when designing any system.

/ Subjective noise considerations

What one person considers noisy, another may find acceptable – like in a restaurant, where background sound may feel lively rather than disruptive. We always consider the **intended use of the space** and suggest appropriate air velocities and system pressures accordingly.

For example, in a school classroom, we automatically recommend lower airflow velocities and pressures to reduce noise. We explain our choices during the quotation phase, including anticipated noise levels, so everything can be reviewed and adjusted before final design.

/ Specified noise limits

In applications where **acoustic requirements are defined** – such as in theatres or offices – noise is typically limited by a **Noise Rating (NR)**. We design systems to meet these limits where possible.

Several factors influence system noise:

- 1) **Air velocity** - inside the duct
- 2) **Noise transmission** - from HVAC equipment
- 3) **Type of diffuser** - used on the fabric duct
- 4) **Operating pressure** - of the system

Our **in-house software** calculates predicted noise levels based on all design variables. In complex cases, we can even test a full-size setup in our R&D lab under real conditions to verify acoustic performance.

Key terms:

acoustic performance; HVAC noise levels; fabric duct acoustics; air velocity noise; NR rating; low-noise ventilation; quiet air distribution; diffuser noise; pressure-related sound; custom HVAC design; ductwork sound control; indoor comfort; Prihoda noise analysis



to learn more about acoustic performance and how we calculate and optimise system noise, visit our [Design Tools page](#) or contact us via info@prihoda.com



Engineered air distribution



Quick and easy installation



Fast delivery



Easy Maintenance



Custom design



Long Warranty