

FAQ

Tailored Air Distribution

Question:

Is fabric duct suitable for displacement ventilation?

Answer:

Yes – fabric ducting is highly suitable for displacement ventilation and often provides a more flexible and efficient solution than traditional diffusers.

/ How displacement ventilation works

Displacement ventilation supplies **large volumes of air at low velocity**, usually slightly cooler than the room temperature. The denser air stays near the floor, gently filling the occupied zone and **pushing warmer, stale air upward** toward the extract points. This method improves air quality and thermal comfort, especially in large or densely occupied spaces.

/ How fabric ducts support displacement ventilation

Instead of requiring bulky low-level diffusers and extensive ductwork, fabric ducts can be:

- **Mounted horizontally** - under the ceiling, gently delivering cool air from above into the occupied space.
- **Installed vertically** - allowing airflow along the full height or only at the lower part of the duct – depending on project needs

This flexibility makes fabric ducts a preferred solution in many industries, especially **food production facilities**, where clean, draught-free air supply is essential.

/ Customised for every project

Because all Prihoda fabric ducts are custom-designed, we can adjust air distribution patterns, shapes and diffuser types to suit any displacement ventilation layout or specification.

Key terms:

displacement ventilation; low-velocity air supply; thermal comfort; air stratification; clean air distribution; energy-efficient ventilation; fabric ducting systems; vertical air delivery; horizontal air supply; custom air dispersion; draught-free airflow; HVAC design flexibility; Prihoda solutions



to learn more about air distribution strategies with fabric ducting systems, visit our [Air Distribution page](#) or contact us via info@prihoda.com



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