

FAQ

Tailored Air Distribution

Question:

What happens to a fabric duct when the air is turned off?

Answer:

It depends on the [shape of the duct](#) and [how it's supported](#). When airflow stops, fabric ducts lose internal pressure and may deflate – how they behave in this state is determined by their design and suspension method.

/ How deflation affects fabric ducts

For example, a **round duct** supported by a single wire or rail along the top – without internal rings – will typically collapse flat when there's little or no air inside. This may still look acceptable in some environments, but it can create **clearance issues**.

A deflated round duct takes up more vertical space than when inflated. For instance, a duct with a diameter of 630 mm may flatten to a height of 990 mm, which could interfere with **lighting, sprinklers, or signage** placed underneath.

/ Design solutions for deflation

To manage this, Prihoda offers several practical solutions:

- **Half-round (semi-circular) ducts** mounted directly to the ceiling hold their shape even when the system is off.
- **Internal support rings inside** round ducts help maintain the circular form at all times.
- **Dual suspension systems** (supporting the duct from both sides) allow the top of the fabric to settle neatly onto the bottom, reducing sagging height and keeping the appearance clean.

Each method is selected based on the space and visual or technical requirements of the project.

Key terms:

fabric ducting; flexible ventilation systems; air distribution design; duct deflation; suspended ventilation



to learn more about how suspension systems affect duct shape during operation and shutdown, visit our [Installation page](#) or contact our technical team via info@prihoda.com



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