

Air Chute

The cold air circulated throughout the trailer should maintain a uniform temperature to ensure that sensitive cargo is kept in prime condition. In a perfect world, air circulates freely and equally to all parts of the load, from front to rear. In reality, however, multiple factors, including the shape of the load itself and the loading pattern can disrupt the airflow to the point that temperature distribution is sufficiently varied to put the load quality at risk.

The three most common risks are:

- **Short-cycling**, where the discharge air does not travel the full distance due to loading practices and back pressure in the trailer, resulting in uneven temperature and air distribution throughout the trailer.
- **Top-freezing**, where temperature sensitive goods, such as fresh products or pharmaceuticals, are stacked too close to the discharge air stream resulting in frost damage.
- **Hot spots**, or areas within the load space that are starved of temperature-controlled air and become warmer than the temperature selected on the unit thermostat.

The solution to avoid the above risks is to have a purpose-designed air distribution chute which ensures that air leaving the discharge outlet is evenly spread over the entire load, from the front to the back of the trailer. Installing Thermo King air chutes guarantees more uniform temperature and airflow distribution even if obstructions to the flow caused by improper loading practices or uneven loading exist.

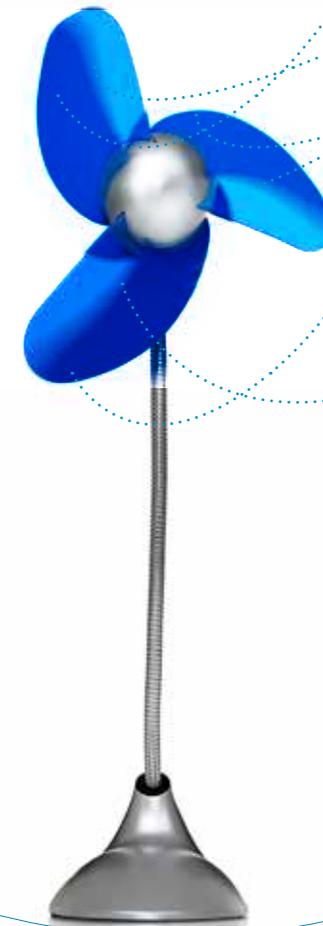
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Air Chute

The importance of air distribution



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Features

- Purposed-designed air distribution chute ensures that air leaving the discharge outlet is evenly spread over the entire load, from the front to the back of the trailer.
- 75% shorter than traditional industrial standard resulting in optimum airflow.
- Manufactured in high tensile strength material.
- Quick and easy to install and disconnect during loading and unloading to avoid damage.

Specifications

- Optimum design with front & side venting to ensure that airflow and temperature are constant throughout the trailer.
- Supplied in 3.5m lengths which can be used in single/multi temperature trailer applications up to 16m in length.
- High-grade, easy-to-clean vinyl with industry leading tear and tensile strength.
- Velcro enabled for faster installation times and rapid removal.

Benefits

- Cargo protection by eliminating short-cycling, top-freezing and hot spots resulting in minimal temperature variance throughout the trailer ($\pm 2^{\circ}\text{C}$).
- Shorter chutes are less likely to get damaged during loading/unloading operation & can be used in conjunction with moveable bulkheads.
- Highly-durable material for longer life.
- Easily disconnected to maximize volume for dry loads.

Temperature distribution



With chute: temperature more evenly distributed.

Hot spot



Without chute: hot spot at the back of the trailer.

