

Air Curtains



An air curtain is a fan powered device that creates an invisible air barrier over a doorway to separate two different temperature zones, without limiting the movements of people or vehicles.

Advantages

- Cooled air is retained within a cold storage room to reduce energy usage.
- Comfort levels for those closest to an entrance are improved as draughts are reduced.
- Insects, pollens, and other airborne pollutants entering the building are minimised.
- User safety is also improved as there are no doors or curtains to reduce visibility.
- The movement of people or vehicles is not impacted.
- It is estimated that the costs of running heating and air conditioning systems can be reduced by up to one third with air curtains¹.

Suitability

Air curtains are commonly installed in places where there are differing temperature zones e.g. offices, retail shops, restaurants, factories and hotels.



To consider:

- The height and width of the door.
- The orientation of the door to determine the level of protection needed against weather conditions.
- The door characteristics e.g. is it always open, is it revolving, is it automatic?

For further support and details of any opportunities for grant funding please contact a Carbon Charter advisor.



¹ According to research from the Carbon Trust, 2009