Air Curtains

KAIZEN AIRTECH SOLUTIONS

Office No. B-3, Jayguru Niwas, Khedekar Nagar, Near Navale Hospital, Narhe,
Pune-411041, Maharashtra, India

Email: info@kaizenairtech.com

Website: www.kaizenairtech.com

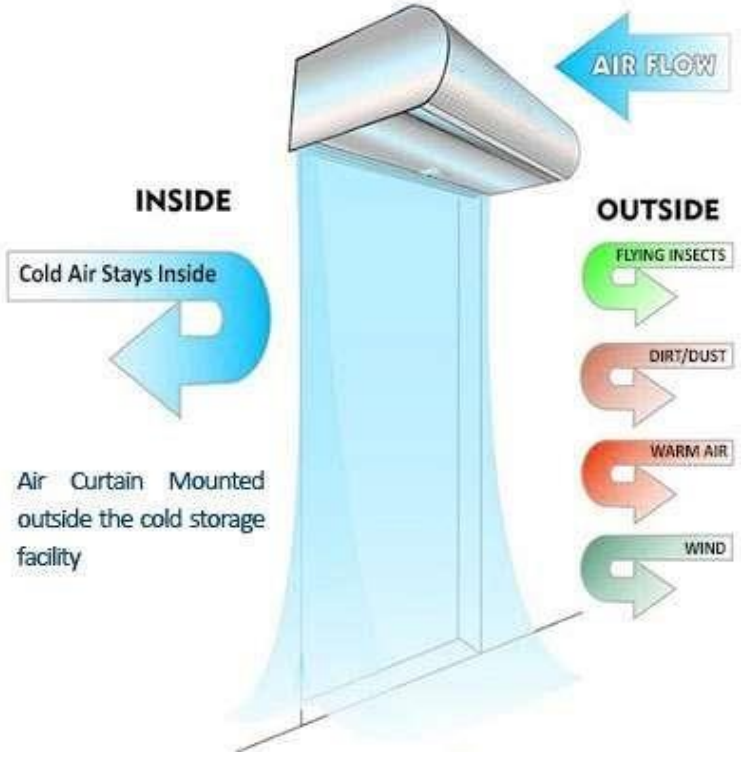
Introduction

Kaizen Airtech solution has been the specially designed commercial establishment to maintain a dust free environment, maintain required inside temperature. By providing a silent but strong invisible barrier at the doors.

The air curtain maintains environmental separation with a light flow of air, that not only results in lowered energy costs but also helps in preventing air borne contaminants & deterring flying insects from moving from one open space to another-enhancing sanitation & hygiene. Applications Entrance of Industries, Restaurants, Offices, Malls & other commercial places.

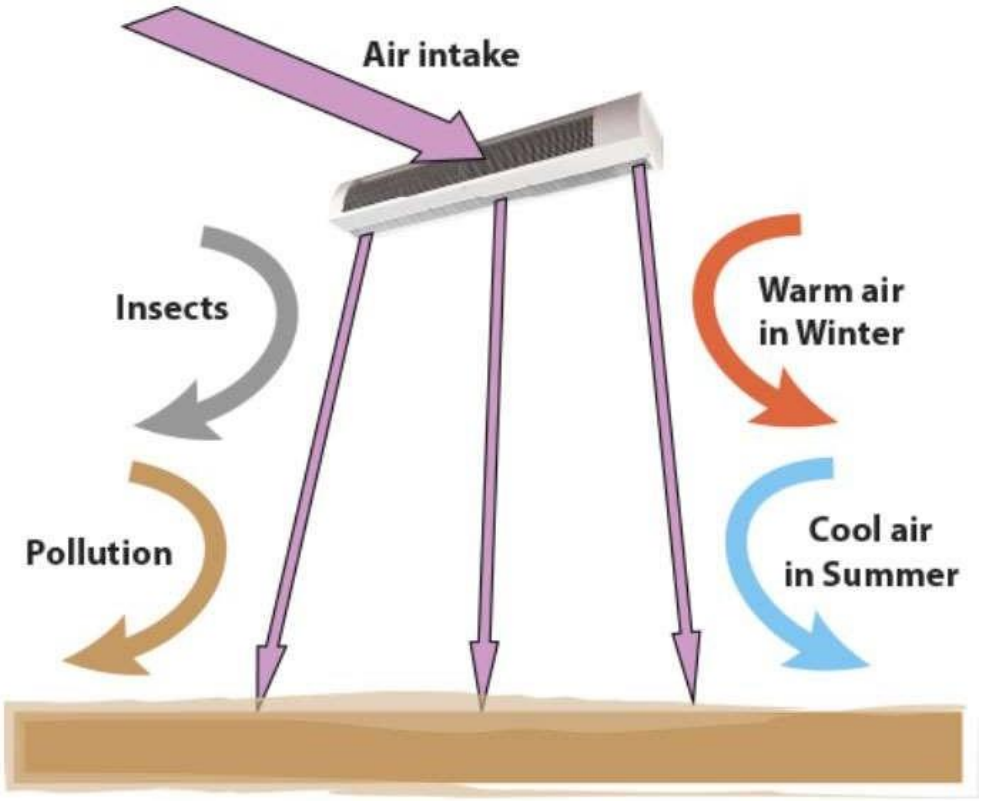
What is an Air Curtain?

An air curtain, also known as an air door, is a machine that blows a controlled stream of air across an opening to the other side to create an air seal. This seal separates different environments while allowing a smooth, uninterrupted flow of traffic and unobstructed vision through the opening. Because they help to contain heated or conditioned air, they provide sizable energy savings and increased personal comfort when applied in industrial or commercial settings. They also help to stop the infiltration of pollutants and flying insects.



How does Air Curtain Works?

1. Once it is powered on, air is brought into the unit through the intake
2. The air then enters the fan housing and is accelerated by the fan.
3. This fast-moving air goes into a plenum, which allows for an even distribution of air along the full length of the discharge nozzle.
4. Air foil-shaped vanes in the nozzle create a uniform air stream with minimal turbulence.
5. The air discharged through the nozzle creates a jet stream to the floor. Approximately 80% of the air returns to the intake side of the air curtain, and 20% goes in the opposite direction.



Air Curtain reduces heating costs in Winter and air conditioning costs in Summer

Why use an Air curtain?

- Energy savings through control of air transfer
- Energy savings due to shorter run times of air handler or compressor
- Maintain employee/customer comfort
- Reduce flying insect infiltration
- Unhindered traffic flow
- Unobstructed visibility across the threshold
- Increase productivity due to stable temperatures
- Maintain usable space around the door

- Elimination of ice and fog in cold storage areas

Specifications:

Colour	Metallic
Material	White
Number of Items	1
Part Number	5
Size	900 mm (L) x 500 (W)x 500 (H)
Special Features	Lined
Voltage	240V AC, 1 Phase, 50Hz
Material	M.S., G.I. S.S.
Blower Material	Aluminum
Usage	Door Entry

Features:

1. Crompton makes double shaft motor specially designed for air curtain. Totally enclosed with moisture resistant coating.
2. Sealed imported ball bearing at the end support hence no regular lubrication required.
3. Simplified interior installation either wall hang or suspended from the ceiling of a room.
4. Double body designed to create less turbulence and minimize vibration.

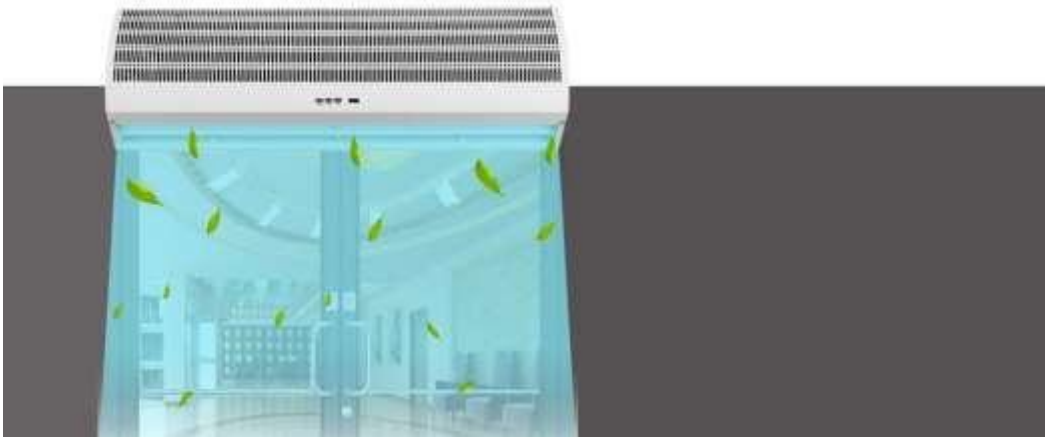
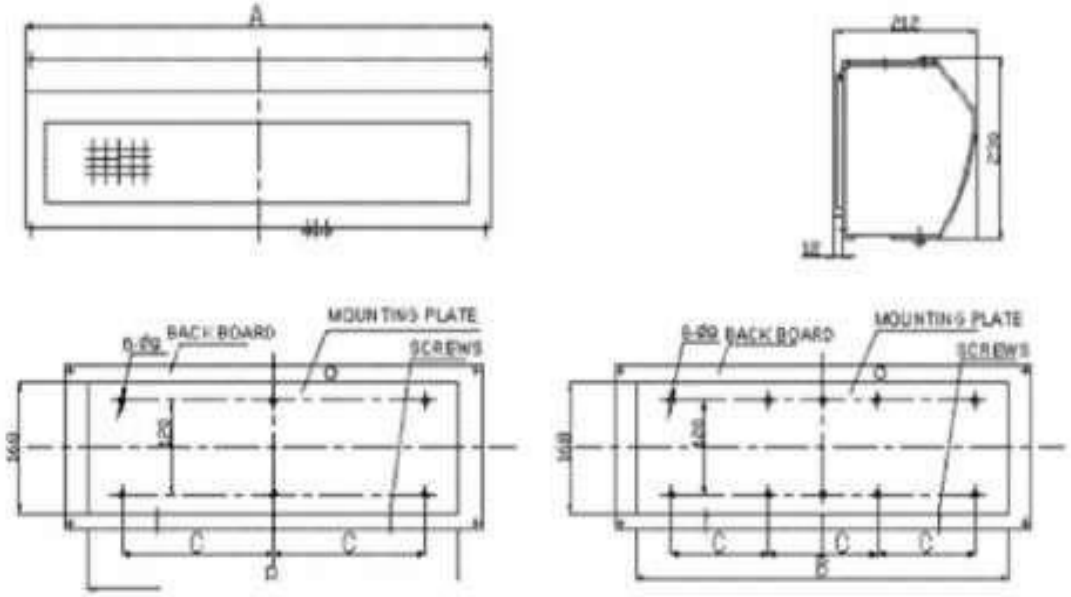


DIAGRAM:



Model No	Power(W)			Air Velocity (m/s)			Air Flow (m^3/h)	Noise(dB)			Dimension(mm)
	HI	MED	LO	HI	MED	LO		HI	MED	LO	
ABE 3 (900mm)	370	310	245	21.5	18.5	14.5	1520	≤52	≤50	≤48	900x230x220
ABE 4 (1200mm)	500	370	290				2030	≤54	≤52	≤50	1200x230x220
ABE 5 (1500mm)	640	500	450				2545	≤55	≤53	≤52	1500x230x220

Key Benefits:

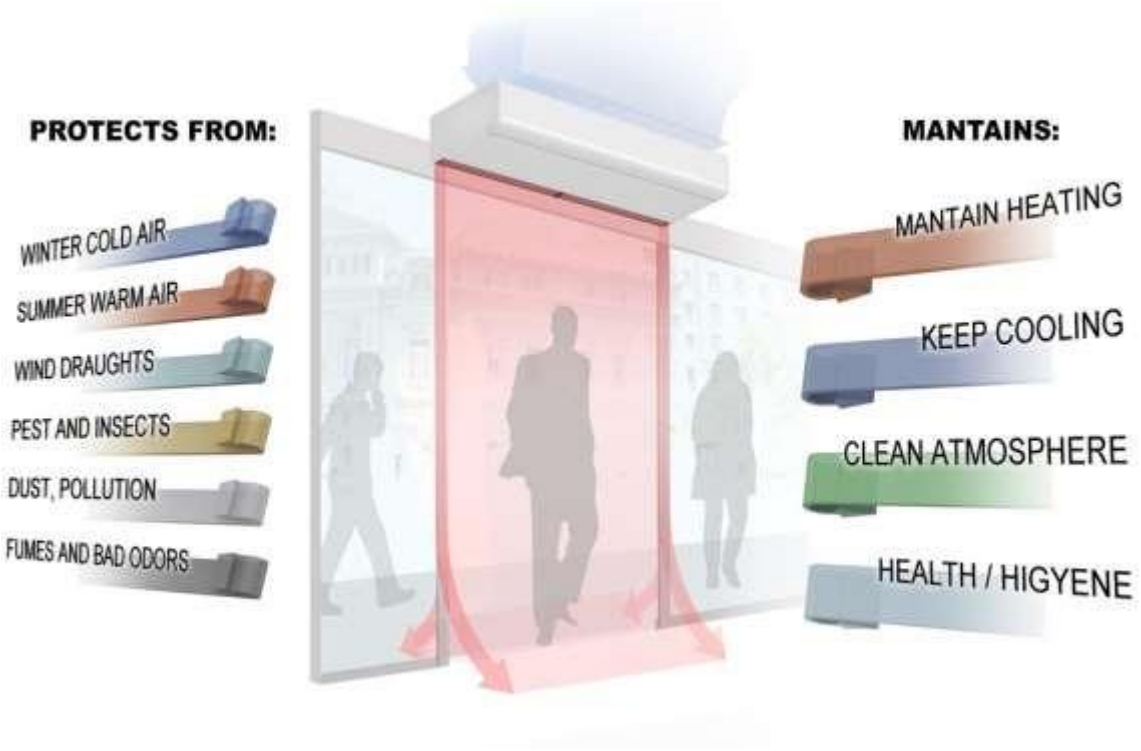
1. Maintenance Free
2. Energy Efficient
3. Superior Airflow Uniformity
4. Low Sound Level

Applications:

Models:

- Schools
- Cafeterias
- Quick Serve Restaurants (QSR)
- Restaurants
- Grocery Stores
- Airports
- Hospitals
- Indoor Grow Facilities and Processing Plants
- Food Processing Facilities

Model No.	Specification
KAC3	900 MM
KAC4	1200 MM
KAC5	1500 MM
KAC6	1800 MM



Air Curtains:

Contact Us:

OFFICE ADDRESS:

Office No.B-03,S.No-
54/3/2,Jaiguru Niwas,
Nanasaheb Khedekar Nagar,
Behind the Sandesh Hotel,
Narhe Pune- 411041, Maharashtra, India.

FACTORY ADDRESS:

Kaizen Airtech Solutions

HN 915, Sr.No. 40, Laxman Kute nagar,
Near Manaji nagar, Narhe gaon ,
Pune,411041 Maharashtra ,India.

Contact: +919922991491
Mon-Fri, 9am until 6pm
Email: info@kaizenairtech.com

We reply within
24 hours

Website: www.kaizenairtech.com