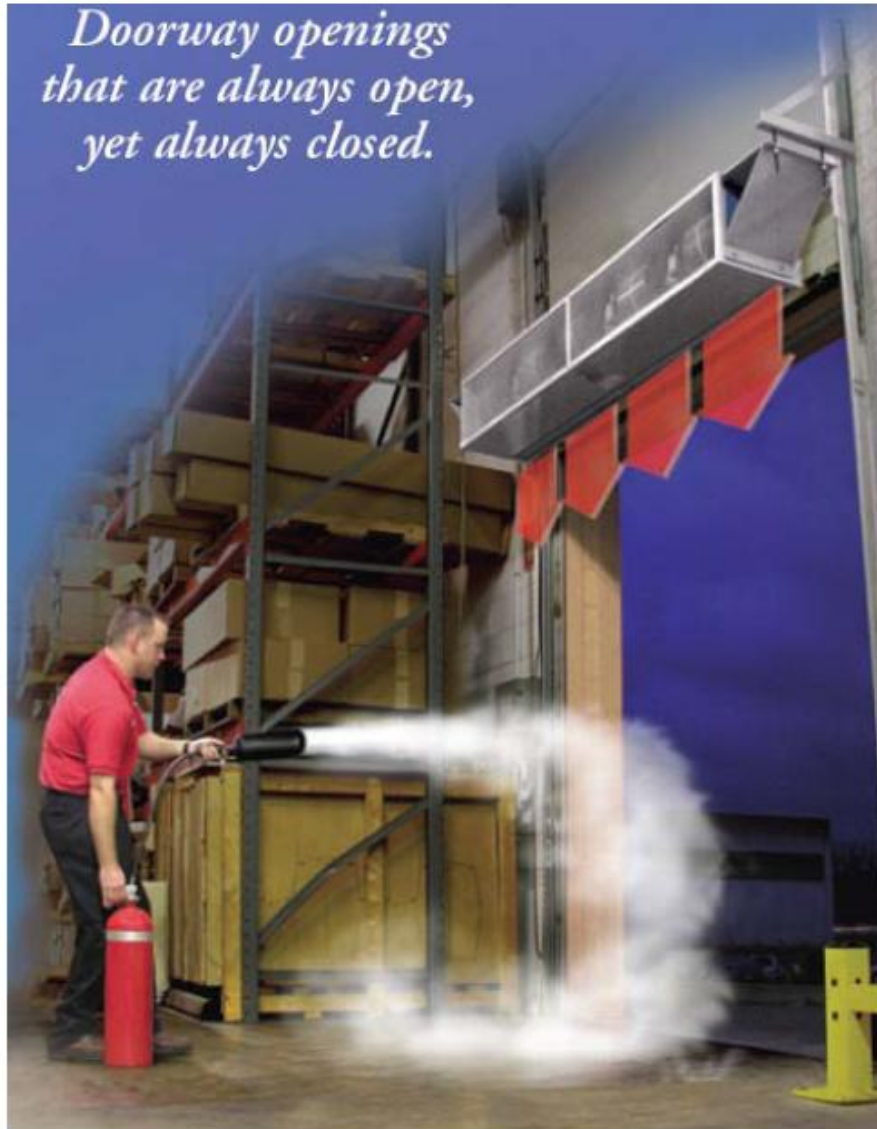


AIR-LOCK AIR CURTAIN DOORS

*Doorway openings
that are always open,
yet always closed.*



Distributed By:



**Air Purification &
Effective Removal**

Airmation

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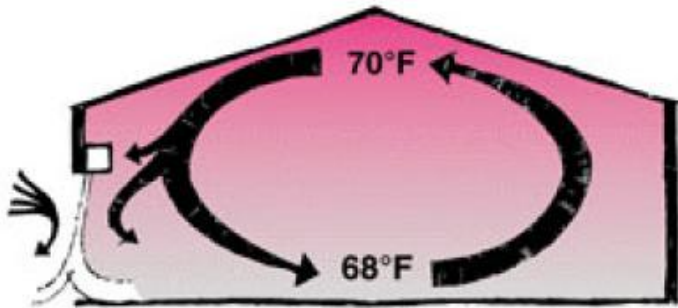
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How an Air Door/Air Curtain Works

Industrial air doors/air curtains are commonly used on oversized garage door openings. An **Air-Lock Air Door/Air Curtain** creates an invisible barrier of high velocity air to separate different environments. Exterior fresh air enters the unit through the intake. It is then compressed by scrolled fan housings and forced through a nozzle which is directed into the building to keep potentially contaminated air from exiting the facility to the environment. The system utilizes centrifugal fans mounted on direct driven, dual shafted motors. The result is a uniform air screen across the opening with enough force to stop winds up to 25 mph.

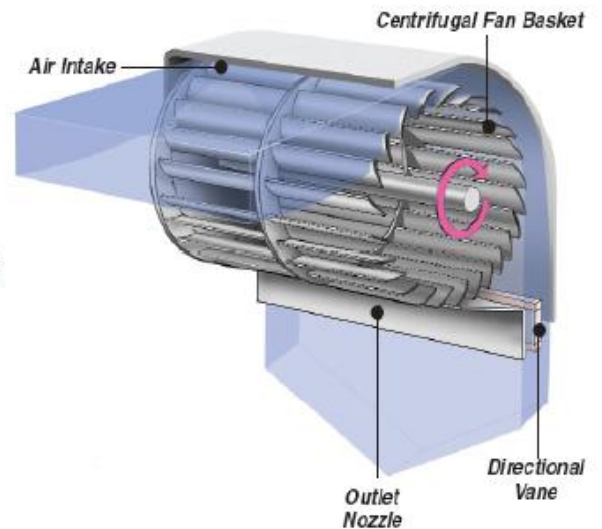


Primary Purpose

Air Doors inhibit air, dust, smoke, insects and odors from entering or leaving through doorway openings while permitting unrestricted entry and exit.

Environmental Containment

Air Doors seal in contaminants and seal out exposure to fines and compliance issues. The high air velocity prevents the escape of dirt, dust and contaminated air from open doorways, while protecting the exterior environment from potential pollution.



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Dust and Odor Containment

Air doors/air curtains can be used in applications where the exhaust of airborne dust particles or offensive odors to the environment cannot be tolerated. The invisible screen of air will allow the unrestricted passage of equipment and personnel while preventing dust or contaminated air from escaping. This principle holds true for almost any airborne contaminate or nuisance.

Features



SIZES



- Wide range of sizes available (up to 16' long)
- Stackable
- Heavy duty steel, pre-drilled holes for ceiling suspension (6 mounting points)
- Adjustable air volume control 50% to 100% is standard
- Stops wind up to 25 mph
- High performance with low noise levels
- Standard voltages: 208/240/480/3 phase/60 Hz

Benefits

- Easy and fast installation
- Safest industrial door (full visibility)
- Draws down warm air
- Increases employee comfort
- Prevents entry of flying insects



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Installation Options



MOUNTING OPTIONS



Ceiling Mount

Most industrial units are mounted using suspended rods from the ceiling. This method is most practical when door tracking apparatus is in the way. Also, mounting plates can be attached to extend the length of the unit.

Bracket/Plate Wall Mount

This wall mounting system circumvents some mounting problems by extending the industrial unit's mounting holes beyond the door tracking apparatus of the existing overhead door.



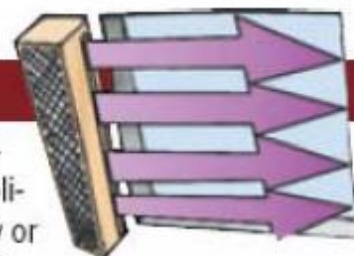
Industrial Unit Wall Mount



This is the easiest of all mounting methods. However, a firm tie-in to the wall, using the 4 pre-drilled side mounting holes, is absolutely essential.

Vertical Mounting

Vertically mounted Air Doors are not recommended for commercial use. However, for industrial applications where there is no space above the doorway or for openings that are exceptionally high, vertical Air Doors can be installed. Interior doors should not exceed 18' in width and exterior door widths should be 16' or less.





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Technical Specifications

Heavy Industrial – Air-Lock A Models

Model	ALCA-60-1	ALCA-72-1	ALCA-96-1	ALCA-120-1	ALCA-144-1	ALCA-168-2	ALCA-192-2
Nozzle Width (.in)	60	72	96	117	144	168	192
Max. Velocity (fpm)	4500	4500	4500	4500	4500	4500	4500
Avg Outlet Velocity (fpm)	3302	2944	3148	3627	3074	3061	3148
Air Volume (scfm)	5359	6256	8920	12526	13062	15176	17840
# of Motor(s) @ H.P.	1@3	1@3	1@5	1@7 1/2	1@7 1/2	1@5 1@3	2@5
Power Rating (kw)	2.8	2.9	4.1	4.8	5.4	7.0	8.2
Outlet Velocity Unit (%)	85	91	87	87	85	89	87
Net Wt. (lbs.)	370	410	550	705	795	950	1080
Shipping Wt. (lbs.)	500	550	700	880	995	1185	1385

Extra-Heavy Industrial – Air-Lock C Models

Model	ALCC-60-1	ALCC-72-1	ALCC-96-1	ALCC-120-1	ALCC-144-1	ALCC-168-1	ALCC-192-2
Nozzle Width (.in)	60	72	96	117	144	168	192
Max. Velocity (fpm)	6500	6500	6500	6500	6500	6500	6500
Avg Outlet Velocity (fpm)	4181	3852	4059	4523	4381	4323	4059
Air Volume (scfm)	7403	8186	11500	15612	19100	22700	23000
# of Motor(s) @ H.P.	1@5	1@5	1@7 1/2"	1@10	1@15	1@15	2@7 1/2
Power Rating (kw)	4.7	4.9	6.8	8.7	11.7	12.8	13.6
Outlet Velocity Unit (%)	89	89	92	88	87	90	92
Net Wt. (lbs.)	390	435	600	750	835	1025	1190
Shipping Wt. (lbs.)	525	575	760	930	1015	1265	1455

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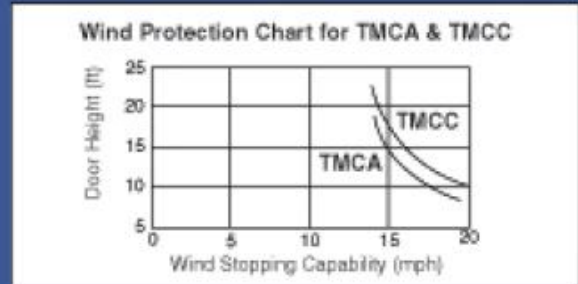
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VELOCITY PROFILE		
Model	Distance from Nozzle	Avg. Core Velocity (fpm)
TMCA	3'	2280
	8'	1580
	13'	1253
TMCC	3'	3027
	10'	1967
	17'	1500



Motor Voltages in Amps/Motor						
TMCA	HP	Standard Voltages			Phase	Hz
		208	240	480		
	3	13.1	12.2	6.1	3	6
	5	17.0	15.8	7.9		
	7 1/2	23.0	21.4	10.7		
TMCC	HP	Standard Voltages			Phase	Hz
		208	240	480		
	5	17.0	15.8	7.9	3	60
	7 1/2	23.0	21.4	10.7		
	10	30.0	28.0	14.0		
	15	43.0	41.0	20.5		

NOISE LEVELS	
TMCA	TMCC
68 dBA	73 dBA
Sound level measured 10' from the unit in free field	

Dimensions Chart

Models	A	B	C	D	E
60"	63"	61 1/2"	60"	21"	32 1/4"
72"	75"	73 1/2"	72"	21"	32 1/4"
96"	99"	97 1/2"	96"	21"	32 1/4"
120"	120"	118 1/2"	117"	21"	32 1/4"
144"	147"	145 1/2"	144"	21"	32 1/4"
168"	171"	169 1/2"	168"	21"	32 1/4"
192"	195"	193 1/2"	192"	21"	32 1/4"

