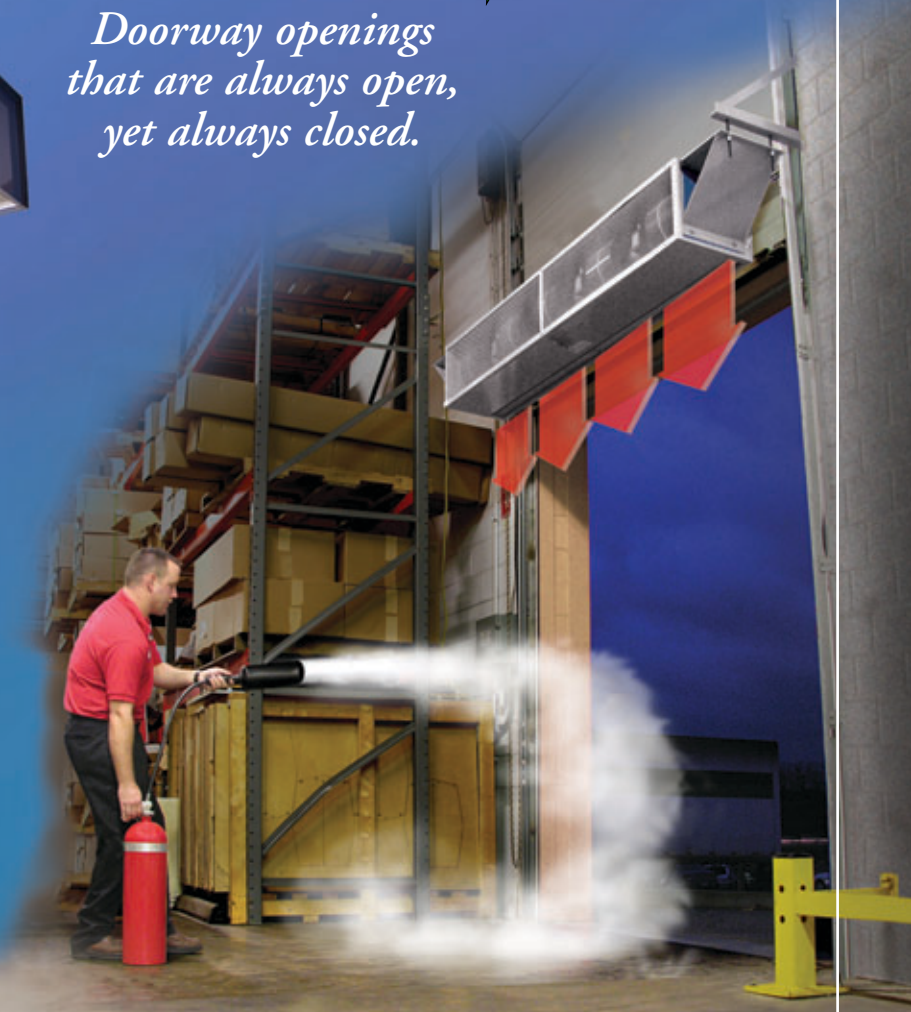
SAVE-T®

AIR DOORS

Year-Round Energy Savings!

Doorway openings that are always open, yet always closed.



TMI LLC

A TMI SAVE-T® Air Door for Every Application

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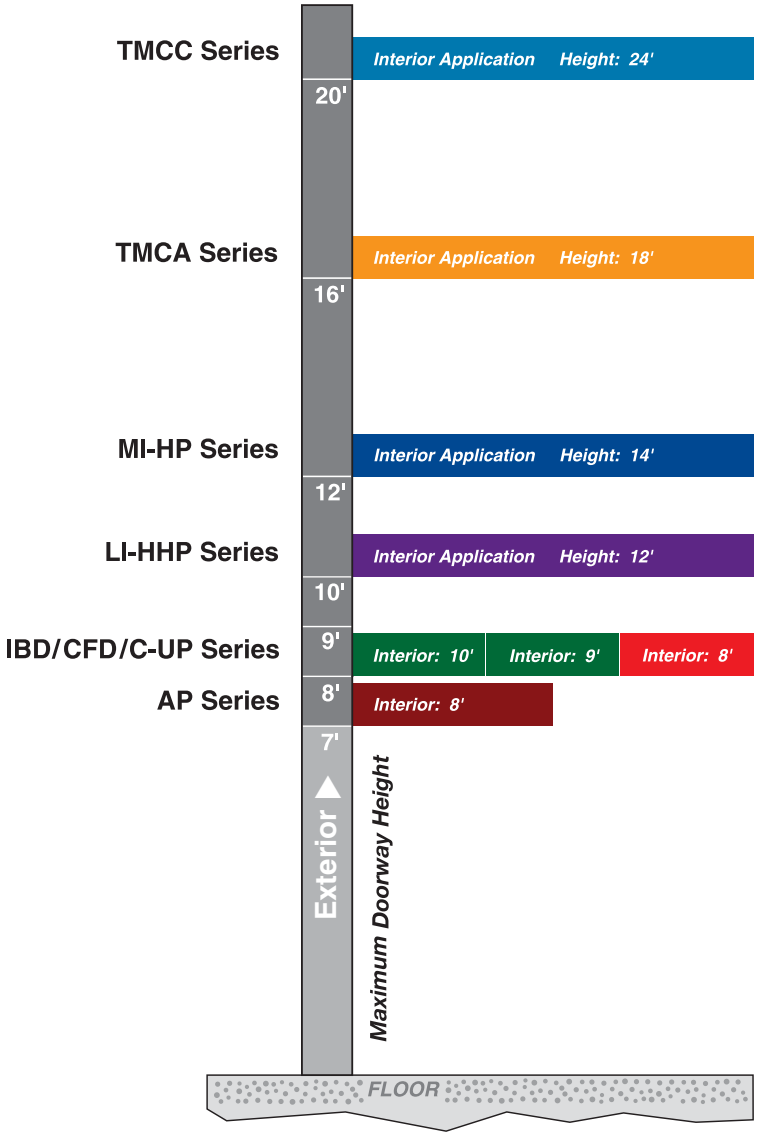
GUARANTEE

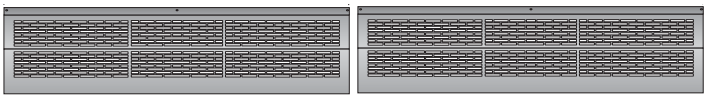
We guarantee and stand behind every SAVE-T® Air Door we sell. Within the first 30 days, if the unit does not perform per written specifications, we will refund your full purchase price. We want you to be completely satisfied with every purchase.

TMI, LLC offers an enormous selection of air doors. TMI Air Doors can satisfy nearly every application requirement. The chart below shows maximum doorway heights for each of our units, and for both interior and exterior applications.

How high is your exterior opening?



TANDEM MOUNTING



If a doorway opening is wider than your desired model allows, two units can be mounted side-by-side to create a protective wall of air.

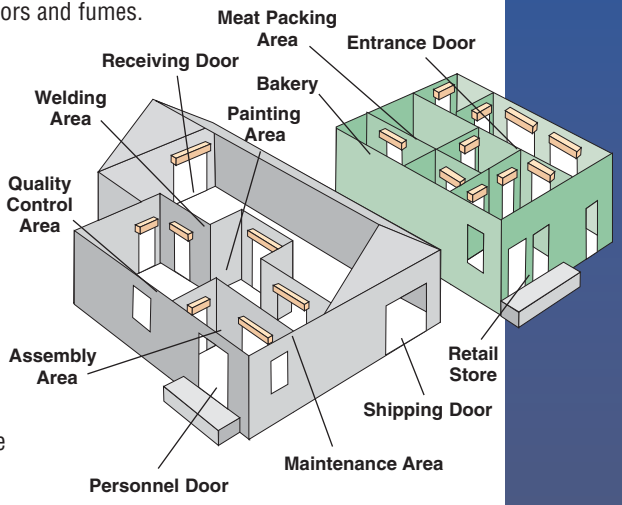
Why Use a SAVE-T® Air Door?

Interior

SAVE-T® Air Doors are often used at interior doorways of industrial and commercial facilities to separate environments and to provide an invisible barrier for protection against drafts, dust, dirt, odors and fumes.

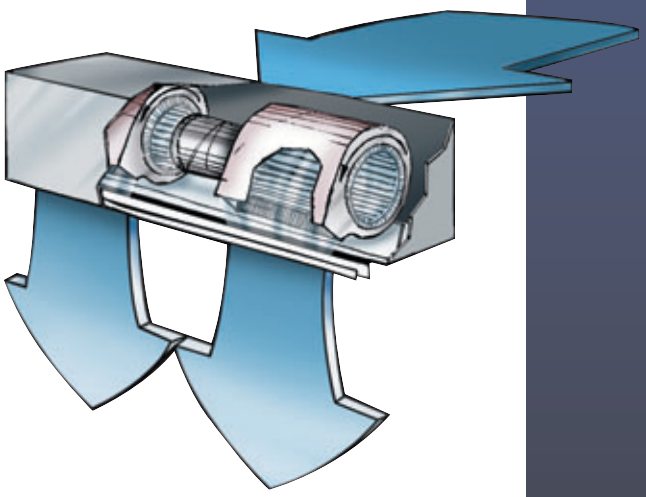
Exterior

Air Doors are not designed for security purposes. They are secondary doors that allow unrestricted access to the outside while conserving energy. Also, special types of Air Doors protect against flying insects, dust and dirt. Note: For best performance, Air Doors should be mounted on the conditioned side of the doorway opening.



How Does a SAVE-T® Air Door Work?

SAVE-T® Air Doors create an invisible barrier of air, generated by high efficiency, direct driven centrifugal fans, that compress the air inside the unit and release the air through a directional nozzle outlet with a pressure powerful enough to stop winds up to 25 miles per hour.



Negative Pressure

When there is an indraft, caused by an exhaust system (negative pressure), Air Door performance can be heavily affected. Also, a wind tunnel effect (negative pressure) can arise, if other outside doors, windows or roof ventilators are completely open.

Primary Purpose

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

Environmental Containment

SAVE-T® Air Doors seal in air conditioning and seal out hot air. The opposite is true during cold or winter weather. The high air velocity protects open doorways against flying insects, dirt, dust and contaminated air, while maintaining a controlled indoor environment.

Energy Conservation

SAVE-T® Air Doors perform year round in all climates to save energy while improving employee comfort. The average pay back period from energy savings alone is approximately one year.

Production Efficiency

SAVE-T® Air Doors offer unobstructed traffic flow through doorways in industrial and commercial facilities. The elimination of physical doors increases the speed and efficiency of internal traffic patterns.

Safety

SAVE-T® Air Doors permit safe entry and exit to personnel and vehicles by providing full visibility through the doorway opening.

Comfort and Convenience

SAVE-T® Air Doors provide year round comfort for customers and employees of stores, supermarkets, restaurants, hotels, banks, theaters, laboratories, libraries, hospitals and office reception areas. Our Industrial Air Doors are used for both interior or exterior doorways at plants and warehouses and provide an invisible barrier against temperature and humidity variations. In addition, they provide complete protection against drafts, dust, dirt and fumes.

Where to use a SAVE-T® Air Door

APPLICATIONS

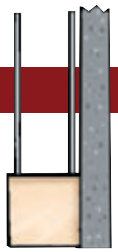
Air Doors are engineered to create an invisible wall that keeps interior environments in and adverse weather out. Not only does it stabilize work area temperatures, but it saves on those expensive energy costs.

SAVE-T® Air Doors are designed to be an effective barrier against cold winter drafts. During those cold months, the Air Door saves on energy costs by drawing warm air from the ceiling area.

SAVE-T® Air Doors are capable of stopping flying insects from entering through open doorways. Dust and odors can be curtailed by using one of our unheated Bug Control units.

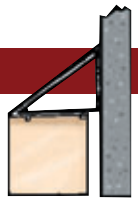
SAVE-T® Air Doors can be used in all seasons. When summer heat and humidity become a problem, an air curtain will create an invisible shield that will hold conditioned air in and heat out. The air door will keep employee and customer areas comfortable.

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.

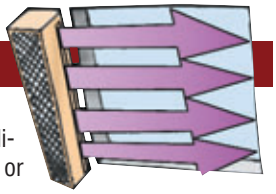


Bracket/Plate Wall Mount

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.

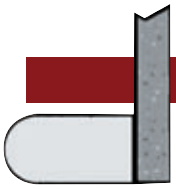
Industrial Unit Wall Mount

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

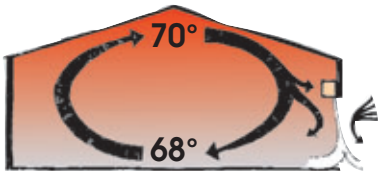
Vertically mounted Air Doors are not recommended for commercial use. However, for industrial applications where there is no space above the doorway or for openings that are exceptionally high, vertical Air Doors can be installed. Interior doors should not exceed 18' in width and exterior door widths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



Commercial Unit Wall Mount

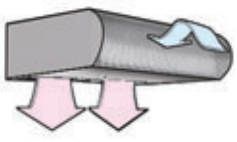
This method uses a pre-fitted mounting plate, which comes with each unit. Once the plate is firmly attached to the wall, the Air Door simply locks into place and is secured with sheet metal screws.

AIR CIRCULATION & HEATING

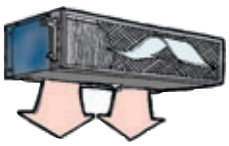


SAVE-T® Air Doors stop hot or cold external winds (up to 25 m.p.h.) from entering the building, while maintaining a constant room temperature by recirculating warm ceiling air.

Due to the speed of the air flow leaving the air door nozzle, a wind chill will be created. If people are constantly moving through the door or work within 20-30 feet, a heated air door should be used. Below are two ways our SAVE-T® Air Doors are heated.



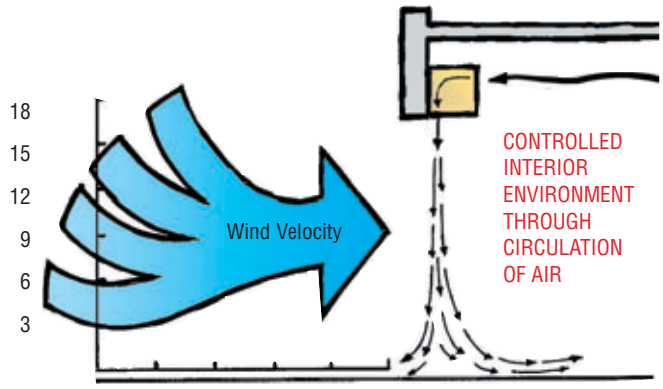
Electric



Hot Water/Steam

Choosing Your SAVE-T Air Door

Air Doors reduce energy costs while increasing employee and customer comfort. The high velocity air screen stops outside wind, while circulating the warm air that naturally rises toward the ceiling. During the winter, Air Doors eliminate cold drafts through open doorways and prevent warm, heated air from escaping. During the summer, Air Doors keep warm, humid air outside and prevent the loss of conditioned air.



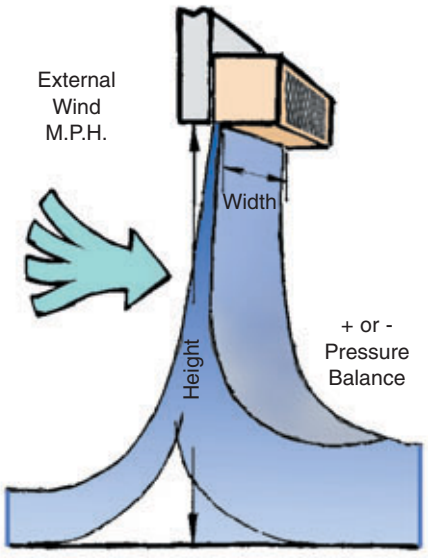
SELECTING YOUR MODEL

To select the correct SAVE-T Air Door for your application, the following factors should be determined:

1. Width of doorway
2. Height of opening
3. Amount of direct external wind exposure in m.p.h.
4. Pressure balance inside building
5. Type of application
6. Heating option requirement

The entire width of the doorway must be covered by the Air Door unit(s).

The height of the opening and wind exposure velocity can be handled by controlling the amount of air flow from the unit. Any deficiencies in pressure balance must be remedied by adjusting the source of the imbalance. Note: Approximately 80% of the air flow stays inside the facility, while 20% flows outside. Any questions regarding your application, please call TMI, LLC at 1-800-888-9750.



AIR DOOR JUSTIFICATION ANALYSIS

Please allow TMI's engineering department to provide state-of-the-art, computer generated, energy savings calculations. Cost savings will be stated in years of payback and can be calculated for both heated buildings or air conditioned applications. The following information is required.

Heating		Example
Door Height	Feet	10
Door Width	Feet	10
Avg. outside temp.	˚F	32
Avg. inside temp.	˚F	65
Avg. wind speed @ door	MPH	10
Open time/day	HRS/Day	5
Days of operation/week	Days	5
Length of season	Weeks	26
Cost of heat	$/MMBTU	4.25
Cost of electricity	$/KW HR	.07

Air Conditioning

In addition to the above data, the following factors must also be known:

1. Outside relative humidity in %
2. Inside relative humidity in %

Example output:

With no air curtain:

Heat lost	1,585,898 BTU/HR
Cost of heat lost	$ 4,381.04/Season

The air curtain will save a minimum of 70% of the heat lost or:

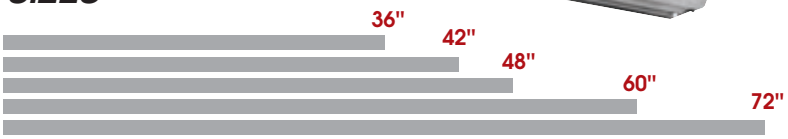
Heat saved	1,110,128 BTU/HR
Cost of heat saved	$ 3,066.73/Season
Cost of air curtain operation	$ 101.83/Season
The installed cost of the air curtain is:	$ 3,570.00
The resulting payback period will be:	1.2 years

SAVE-T AIR-PRO SERIES – AP

NSF® APPROVED

- *For interior mounting only with door heights up to 8'*

SIZES



APPLICATIONS

- Bakeries
- Breweries
- Cafeterias
- Restaurants
- Supermarkets
- Warehouses
- Hotels/Motels
- Cold Storage Facilities
- Convenience Stores
- Commercial Kitchens
- Distribution Centers
- Fast Food Restaurants
- Food Processing Plants
- Employee Entrances

FEATURES

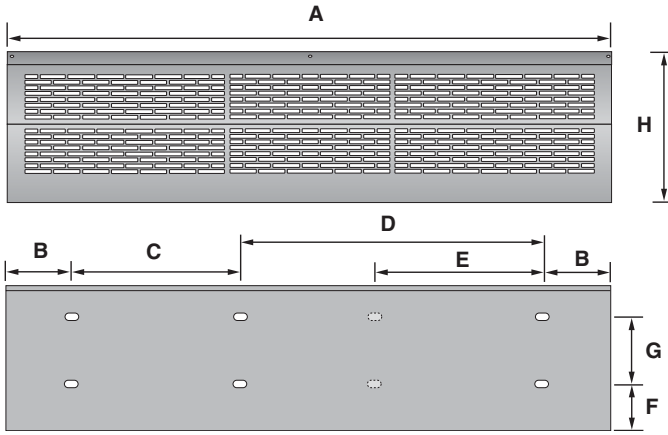
- 1/3 Horsepower motors
- Housing, grill and nozzle are 300 grade stainless steel
- Stainless steel blower wheels
- Built-in high/low switch for 2 speed motors
- Heavy duty directional vane
- Voltage: 120V, 1 Phase
- NSF approved up to 7' interior mounting height
- One year warranty on parts
- Low noise levels

BENEFITS

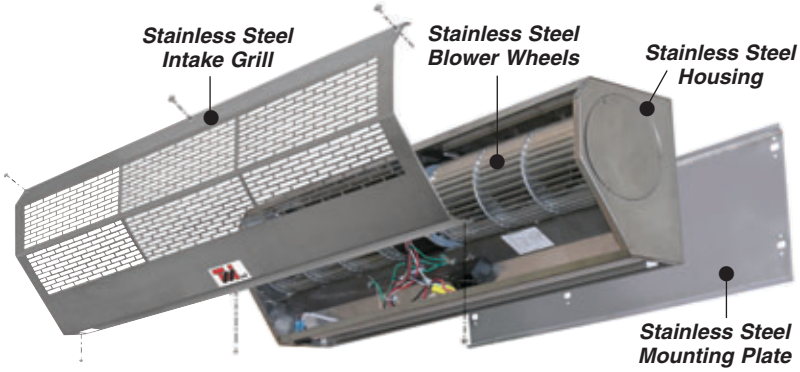
- Reduces energy costs substantially
- Stops outside drafts, flying insects and airborne pollutants
- Re-circulates warm air inside the building
- Smaller units are perfect for take-out service windows

AIR-PRO SERIES – AP

MODEL	AP-2-36-1-SS		AP-2-42-1-SS		AP-2-48-1-SS		AP-2-60-1-SS		AP-4-72-2-SS	
Nozzle Width (in.)	34.50		38.50		46.25		58.00		69.50	
Diameter of Wheel (in.)	5.5		5.5		5.5		5.5		5.5	
Voltage	110-120		110-120		110-120		110-120		110-120	
Frequency (Hz)	60		60		60		60		60	
Net Weight. (lbs.)	43		47		62		75		86	
No. of Motor(s)	1		1		1		1		2	
Motor Speeds	High	Low	High	Low	High	Low	High	Low	High	Low
Capacity (kw)	.500	.495	.650	.645	.650	.645	.800	.795	1.00	0.99
Maximum Air Speed (fpm)	3150	2560	3150	2560	3150	2560	3150	2560	3150	2560
Air Volume (cfm)	1220	990	1360	1100	1860	1520	2330	1890	2440	1980
Sound Level (dBA)	69	67	71	69	73	71	75	73	75	73



DIMENSIONS CHART										
Model	A	B	C	D	E	F	G	H	I	J
AP-2-36-1-SS	35.5"	1.0"	11.5"	22"	—	2"	5.75"	10"	8.5"	5"
AP-2-42-1-SS	39.5"	1.0"	11.5"	22"	—	2"	5.75"	10"	8.5"	5"
AP-2-48-1-SS	47.25"	1.0"	17.0"	28"	17.5"	2"	5.75"	10"	8.5"	5"
AP-2-60-1-SS	59"	1.0"	22.5"	33.5"	22.5"	2"	5.75"	10"	8.5"	5"
AP-2-72-2-SS	69.5"	1.5"	22.0"	46.0"	22.0"	2"	5.75"	10"	8.5"	5"



Easy Adjustments

The Air-Pro Series Air Doors are extremely simple to operate. Each unit has a 2 speed motor with a built-in high/low rocker switch. There is also an adjustable directional vane that allows you to regulate the direction of the air flow.

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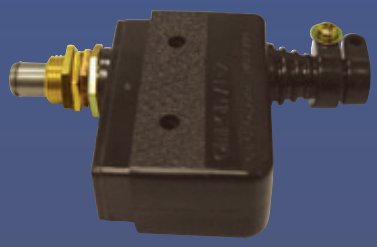
STANDARD EQUIPMENT

All Air-Pro Air Doors run on 120 volts and have single phase motors which means they plug into a regular grounded wall outlet for quick and easy installation.



An Automatic Door Plunger Switch comes with every unit. This switch allows the air door to be instantly turned on when the door is opened.

QUICK SHIP
STOCKING PROGRAM

All models of our Air-Pro Air Doors are listed in our Quick Ship Stocking Program which means the item will ship the same day the order is placed.

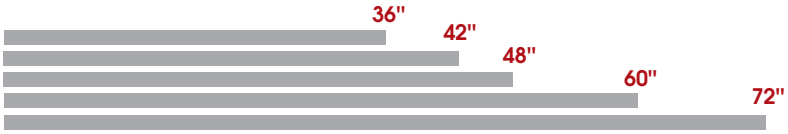
NSF® APPROVED

SAVE-T® PERSONNEL SERIES – CFD-TQ
FLYING INSECT CONTROL SERIES – IBD-TQ

Fast Food Take-Out Window

- *Heated units are for interior mounting only with door heights up to 10'*

SIZES



FEATURES

- 3/4 HP motors
- Motors totally enclosed for exterior use
- 5 1/2" and 7" blowers
- Housing, grill and nozzle are all aluminum
- Satin & bronze anodized finishes are optional
- Voltages range from 120V to 480V, single phase
- Electric heaters optional
- 5 year parts warranty (Unheated units)
- Low noise levels

APPLICATIONS

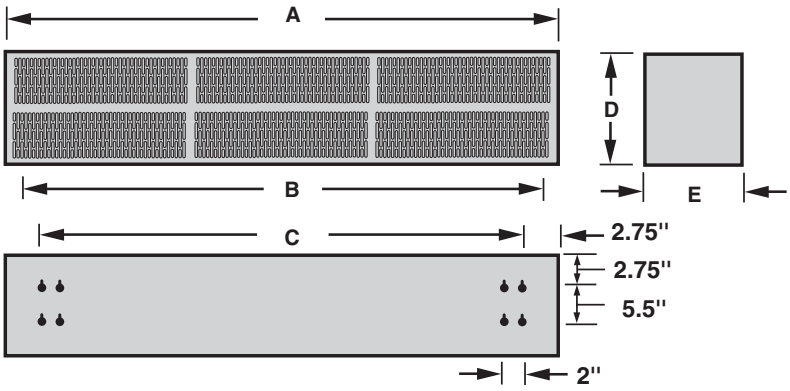
- **Food Service**
- **Cold Storage Facilities**
- **Supermarkets**
- **Food Processing Plants**
- **Distribution Centers**
- **Customer/ Employee Entrances**

BENEFITS

- Reduces energy costs substantially
- Stops outside drafts, flying insects and airborne pollutants
- Re-circulates warm air inside the building
- Smaller units are perfect for take-out service windows

Commercial Front Door: CFD-TQ SERIES – 1 Speed

MODEL	CFD-TQ-2-36-1	CFD-TQ-2-42-1	CFD-TQ-2-48-1	CFD-TQ-2-60-1	CFD-TQ-3-60-2	CFD-TQ-4-72-2
Nozzle Width (in.)	36	42	48	60	60	72
Max. Velocity (fpm)	3000	3000	3000	3000	3000	3000
Air Volume (scfm)	1480	1510	1500	1600	2310	1916
No. of Motor(s) @ H.P.	1@¾	1@¾	1@¾	1@¾	2@¾	2@¾
Power Rating (kw)	.51	0.33	0.52	0.31	0.40	1.02
Outlet Vel. Uniformity (%)	90	87	65	45	80	90
Sound Level	58 dBA	58 dBA	58 dBA	58 dBA	58 dBA	58 dBA
Shipping Wt. Unheated (lbs.)	70	80	82	96	105	136
Electric Heater: Cap. (MB/hr)	25.598	25.598	34.130	34.130	51.195	68.270
Capacity (kw)	7.5	7.5	10	10	15	20
Temp. Rise (°F)	16	16	21	20	20	20
Ship. Wt. Heated Mod. (lbs.)	75	85	87	102	115	140



DIMENSIONS CHART					
Model	A	B	C	D	E
36"	39"	36"	37 1/2"	15"	12 1/2"
42"	45"	42"	43 1/2"	15"	12 1/2"
48"	51"	48"	49 1/2"	15"	12 1/2"
60"	63"	60"	61 1/2"	15"	12 1/2"
72"	75"	72"	75 1/2"	15"	12 1/2"

AMP DRAW OF ELECTRIC HEAT			
Voltage	7.5 kw	10 kw*	15 kw*
208v 1ø - 60 hz	36.1	48.0	72.0
240v 1ø - 60 hz	31.4	41.7	62.5
208v 3ø - 60 hz	20.9	27.8	41.6
240v 3ø - 60 hz	18.1	24.1	36.1
480v 3ø - 60 hz	9.0	12.0	18.0

*When amp draw of motors and heaters are in excess of 48 amps, two power supplies are required.

Standard Motor Voltages	Amps for 3/4 Motor
120, 1ø, 60 hz	7.5
208, 1ø, 60 hz	3.8
240, 1ø, 60 hz	3.8
460, 1ø, 60 hz	1.8

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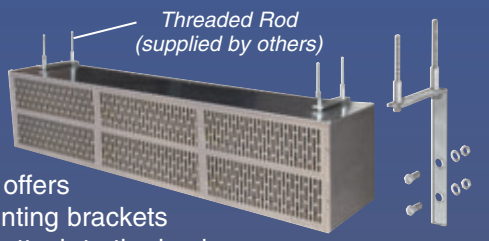
OPTIONS

ELECTRIC HEATERS

TMI offers an optional electric heater inside the nozzle of the air flow system. A Heater Amp and kW Capacities Chart is shown on this page.

MOUNTING BRACKETS



TMI offers mounting brackets that attach to the back mounting plate which allows the unit to be hung from the ceiling using threaded rods.

ACTIVATION DEVICES

ON/OFF SWITCH

BUILT-IN ADJUSTABLE TIME DELAY (0.5 sec. to 10 hrs.)

REMOTE MOUNT 3 POSITION SWITCH

ROLLER SWITCH

REMOTE MOUNT THERMOSTAT

AUTO DOOR SWITCH (plunger type)

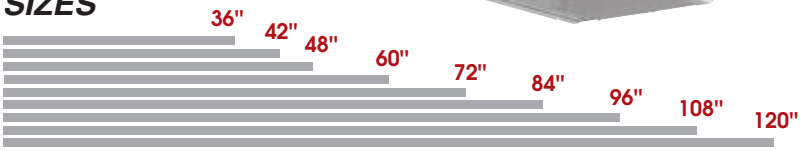
MAGNETIC REED SWITCH

Insect Control Back Door: IBD-TQ SERIES – 1 Speed						
MODEL	IBD-TQ-2-36-1	IBD-TQ-2-42-1	IBD-TQ-2-48-1	IBD-TQ-2-60-1	IBD-TQ-3-60-2	IBD-TQ-4-72-2
Nozzle Width (in.)	36	42	48	60	60	72
Max. Velocity (fpm)	3850	3850	3850	3850	3850	3850
Air Volume (scfm)	2200	2120	2270	2200	3300	3654
No. of Motor(s) @ H.P.	1@3/4	1@3/4	1@3/4	1@3/4	2@3/4	2@3/4
Power Rating (kw)	0.68	0.75	0.73	0.74	1.18	1.36
Outlet Vel. Uniformity (%)	90	87	65	45	80	90
Sound Level	62 dBA	62 dBA	62 dBA	62 dBA	62 dBA	62 dBA
Shipping Wt. Unheated (lbs.)	70	80	82	96	105	130
Electric Heater: Cap. (MB/hr)	25.598	25.598	34.130	34.130	51.195	68.270
Capacity (kw)	7.5	7.5	10	10	15	20
Temp. Rise (°F)	11	11	14	14	14	14
Ship. Wt. Heated Mod. (lbs.)	75	85	87	102	115	140

SAVE-T COMMERCIAL SERIES – C-UP

- ***Heated units are for interior mounting only with door heights up to 8'***

SIZES



FEATURES

- Easy installation with self contained wall mount bracket
- Built-in vibration damper
- Modular design to cover large doorways
- Low noise level (51 to 62 dBA)
- Three speed motors
- Standard units can be converted to a heated unit
- No control panel required
- Wall mounting plate provided
- Threaded inserts for suspension mounting

APPLICATIONS

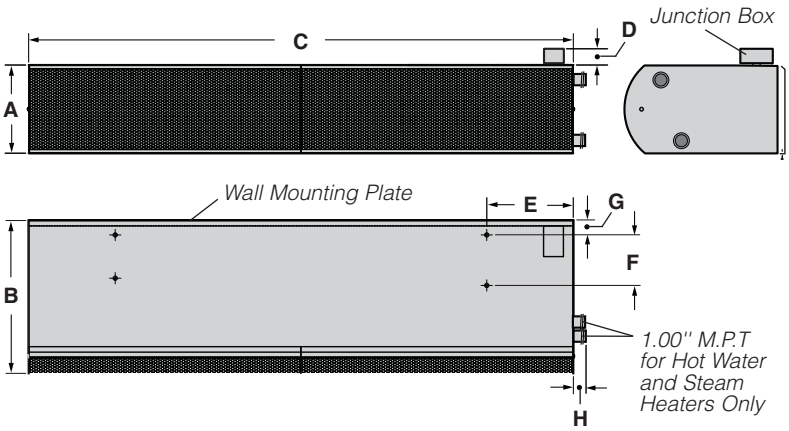
- **Supermarkets**
- **Hospitals**
- **Casinos**
- **Banks**
- **Restaurants**
- **Schools**
- **Hotels**
- **Reception Areas**

BENEFITS

- Decorative, satin aluminum anodized finish
- Heavy duty aluminum frame
- Available in heated and non-heated
- Prevents entry of hot or cold air
- Shuts out insects, dust and fumes
- Draws down warm air that rises towards ceiling
- Provides excellent visibility (safety)
- Increases employee and customer comfort
- One piece units for doorways up to 10' wide
- Can pay for itself within a year in energy savings only

COMMERCIAL – C-UP (3 SPEED) MODELS

MODEL	C-UP-36-1	C-UP-42-1	C-UP-48-1	C-UP-48-2
Nozzle Width (in.)	36.75	42.75	48.75	48.75
Max. Velocity (fpm)	3000	3000	3000	3000
Air Volume (scfm) Low	1031	910	973	1453
Medium	1227	1001	1124	1630
High	1346	1390	1417	1896
No. of Motor(s) @ H.P.	1@1/2	1@1/2	1@1/2	2@1/2
Power Rating (kw)	.47	.48	.49	.72
Outlet Vel. Uniformity (%)	86	86	69	91
Steam: Capacity (MB/hr)	49	54	59	68
Temp. Rise (°F)	44/37/34	56/51/37	57/49/39	45/40/34
Hot Water: Capacity (MB/hr)	30	34	38	43
Temp. Rise (°F)	26/22/20	35/31/23	36/32/25	27/24/21
Electric Heater: Cap. (MB/hr)	32	32	32	41
Capacity (kw)	9.5	9.5	9.5	12.5
Temp. Rise (°F)	29/24/22	34/30/22	31/26/21	29/25/22
Shipping Wt. Unheated (lbs.)	100	105	110	140
Ship. Wt. Heated (lbs.)	120	140	160	200



DIMENSIONS CHART								
Model	A	B	C	D	E	F	G	H
36-1	12 1/4"	21 1/4"	37 3/4"	2 1/4"	8"	7"	2"	1 5/8"
42-1	12 1/4"	21 1/4"	43 3/4"	2 1/4"	8"	7"	2"	1 5/8"
48-1	12 1/4"	21 1/4"	49 3/4"	2 1/4"	10"	7"	2"	1 5/8"
48-2	12 1/4"	21 1/4"	49 3/4"	2 1/4"	8"	7"	2"	1 5/8"
60-2	12 1/4"	21 1/4"	61 3/4"	2 1/4"	8"	7"	2"	1 5/8"
72-2	12 1/4"	21 1/4"	75 1/2"	2 1/4"	12"	7"	2"	1 5/8"
84-2	12 1/4"	21 1/4"	87 1/2"	2 1/4"	12"	7"	2"	1 5/8"
96-2	12 1/4"	21 1/4"	99 1/2"	2 1/4"	27"	7"	2"	1 5/8"
96-3	12 1/4"	21 1/4"	99 1/2"	2 1/4"	27"	7"	2"	1 5/8"
108-3	12 1/4"	21 1/4"	113 1/4"	2 1/4"	27"	7"	2"	1 5/8"
120-3	12 1/4"	21 1/4"	119 1/4"	2 1/4"	27"	7"	2"	1 5/8"

FDA RECOMMENDED

c UL US LISTED

USDA RECOMMENDED

C-UP-60-2	C-UP-72-2	C-UP-84-2	C-UP-96-3	C-UP-108-3	C-UP-120-3
60.75	74.5	86.5	98.5	112.25	118.25
3000	3000	3000	3000	3000	3000
1898	2062	1820	1946	3093	2972
2119	2454	2001	2248	3681	3454
2540	2692	2780	2834	4038	4082
2@1/2	2@1/2	2@1/2	3@1/2	3@1/2	3@1/2
.93	.94	.96	1.47	1.41	1.42
92	86	86	91	86	86
89	102	111	141	156	161
44/39/33	65/60/55	58/52/38	51/44/35	47/40/36	51/43/37
57	68	75	95	106	111
27/24/21	30/25/23	40/36/26	33/29/23	31/27/24	34/29/25
55	65	65	85	97	97
16	19	19	25	28.5	28.5
29/25/22	29/25/22	33/30/22	32/28/22	28/24/21	29/25/22
170	190	200	220	230	245
210	225	230	250	260	280

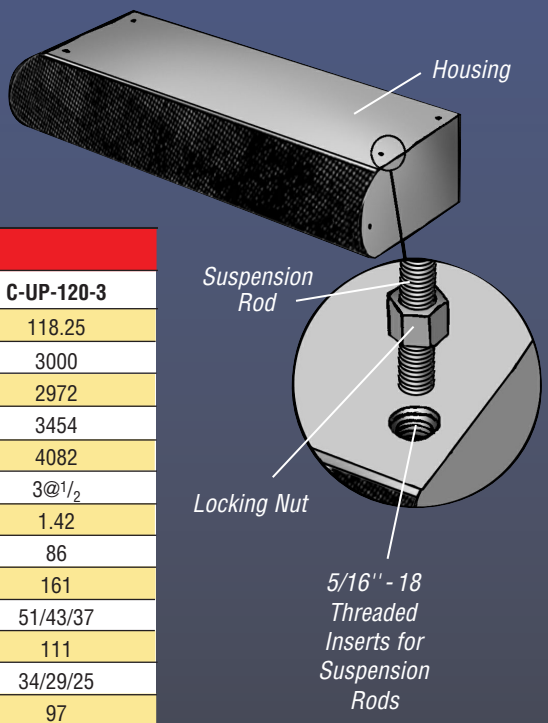
AMP DRAW OF ELECTRIC HEAT						
Voltage	9.5 kw	12.5 kw	16 kw	19 kw	25 kw	28.5 kw
208, 1ø - 60 hz	45.7	60.1	N/A	N/A	N/A	N/A
240, 1ø - 60 hz	39.6	52.1	N/A	N/A	N/A	N/A
208, 3ø - 60 hz	26.4	34.7	44.4	52.8	69.4	N/A
240, 3ø - 60 hz	22.9	30.1	38.5	45.0	60.1	68.6
480, 3ø - 60 hz	11.4	15.0	19.3	22.9	30.1	34.3

Note: When amp draw of motors is in excess of 48 amps, two power supplies are required.

Standard Motor Voltages	Amps per Motor
120, 1ø, 60 hz	7.2
208, 1ø, 60 hz	4.0
240, 1ø, 60 hz	4.0

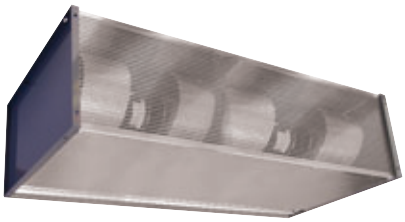
NOISE LEVELS			
	Low Speed	Medium Speed	High Speed
1 Motor	51 dBA	54 dBA	56 dBA
2 Motors	54 dBA	56 dBA	59 dBA
3 Motors	57 dBA	60 dBA	62 dBA

Sound level measured 10' from the unit in free field

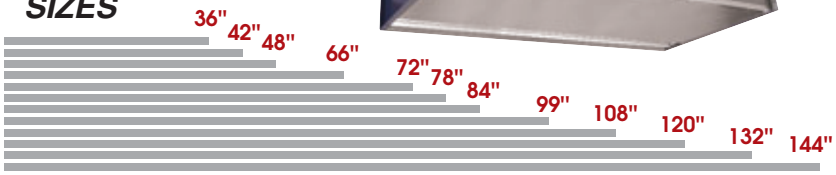


SAVE-T LIGHT INDUSTRIAL SERIES – LI-HHP

- ***Heated units are for interior mounting only***
- ***Prevents entry of flying insects***



SIZES



The LI-HHP units are used on interior doors up to 12' high and exterior doors up to 10' high.

FEATURES

- Large selection of one piece units up to 12'0" long
- Heavy duty steel, pre-drilled holes for wall mounting or ceiling suspension (4 mounting points)
- 3 speed motor available in single phase motors only
- 3 1/2'' wide adjustable nozzle
- High performance with low noise
- Steam, hot water, electric and indirect gas-fired heaters are available
- Standard ambient unit can be converted to hot water/steam and indirect gas fired heated unit
- Top air intake is available on non-heated units at no additional cost

APPLICATIONS

- **Warehouses**
- **Ovens**
- **Loading Docks**
- **Clean Rooms**
- **Painting Rooms**
- **Manufacturing Facilities**

BENEFITS

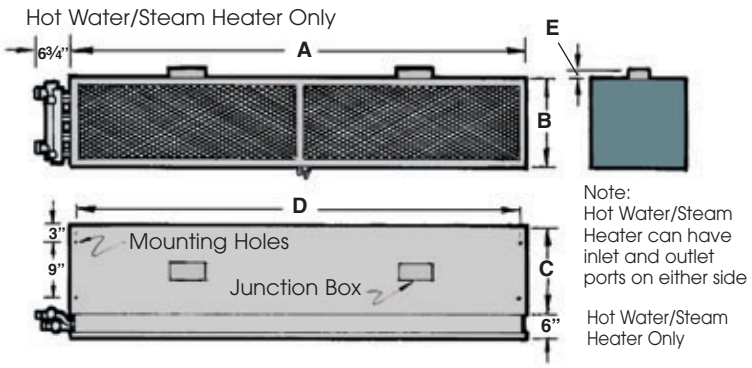
- Easy and fast installation
- Can pay for itself within a year from energy savings only
- Aesthetically pleasing, two-tone silver housing
- Safest industrial door (full visibility)
- Stops wind up to 20 mph
- Prevents entry of hot or cold air
- Shuts out dust and fumes
- Draws down warm air
- Increases employee comfort
- Prevents entry of flying insects

LI units can be converted to MI units in the field

LIGHT INDUSTRIAL – LI-HHP

MODEL	LI-HHP-36-1	LI-HHP-42-1	LI-HHP-48-1	LI-HHP-66-1	LI-HHP-66-2	LI-HHP-72-2
Nozzle Width (in.)	36	42	48	66	66	72
Maximum Velocity (fpm)	4000	4000	4000	4000	4000	4000
Average Outlet Velocity (fpm)	1728	1551	1366	1049	2010	1728
Air Volume (scfm)	1512	1583	1594	1530	2931	3024
No. of Motor(s) @ H.P.	1@1/2	1@1/2	1@1/2	1@1/2	2@1/2	2@1/2
Power Rating (kw)	0.51	0.52	0.53	0.53	0.99	1.02
Outlet Velocity Uniformity (%)	87	81	84	72	97	87
Steam: Capacity (btu/hr)	56,843	62,797	67,278	76,617	107,149	113,679
Temp. Rise (°F)	35	36	39	45	34	35
Hot Water: Capacity (btu/hr)	49,610	51,822	25,359	50,036	96,563	99,783
Temp. Rise (°F)	30	30	30	30	30	30
Electric Heater: Capacity (btu/hr)	47,782	47,782	47,782	47,782	95,564	95,564
Capacity (kw)	14	14	14	14	28	28
Temp. Rise (°F)	29	28	28	29	30	29
Ship. Wt. (Lb.) Unheated	102	111	120	138	184	200
Ship. Wt. (Lb.) Heated (HW/S/E)	117	129	140	163	209	230

Note: **One piece units for 14 ft. and 16 ft. wide openings. Consult factory.**



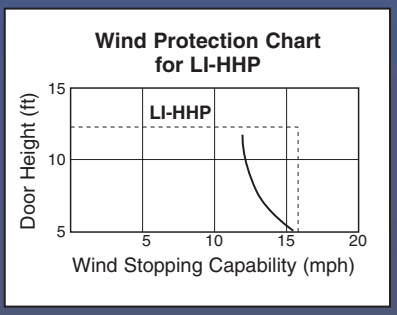
LI-HHP DIMENSIONS CHART					
Model	A	B	C	D	E
36"	39"	15"	18"	37 1/2"	2 1/4"
42"	45"	15"	18"	43 1/2"	2 1/4"
48"	51"	15"	18"	49 1/2"	2 1/4"
66"	69"	15"	18"	67 1/2"	2 1/4"
72"	75"	15"	18"	73 1/2"	2 1/4"
78"	81"	15"	18"	79 1/2"	2 1/4"
84"	87"	15"	18"	85 1/2"	2 1/4"
99"	102"	15"	18"	100 1/2"	2 1/4"
108"	111"	15"	18"	109 1/2"	2 1/4"
120"	120"	15"	18"	118 1/2"	2 1/4"
132"	135"	15"	18"	133 1/2"	2 1/4"
144"	147"	15"	18"	145 1/2"	2 1/4"

NOISE LEVELS
LI-HHP
60 dBA
Sound level measured 10' from the unit in free field

VELOCITY PROFILE		
Model	Distance from Nozzle	Avg. Core Velocity(fpm)
LI-HHP-36-1	3'	2633
	6.5'	1867
	10'	1578

Amp Rating for Electric Heaters – 3 Phase/60 hz				
Number of Motors	kw	208v	240v	480v
1	14	38.9	33.7	16.8
2	28	83.4	72.3	36.0
3	42	116.8	101.2	50.4
4	56	155.7	135.0	67.2

Motor Voltages in Amps/Motor			
Voltage	Amps/Motor	Phase	Hz
120	7.2	1	60
240	4.0		
480	4.0		
120	2.5	3	60
240	2.4		
480	1.2		



LI-HHP-78-2	LI-HHP-84-2	LI-HHP-99-2	LI-HHP-99-3	LI-HHP-108-2	LI-HHP-108-3	LI-HHP-120-2	LI-HHP-120-3	LI-HHP-132-3	LI-HHP-144-3	LI-HHP-144-4
72	84	99	99	108	108	117	117	132	144	144
4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
1633	1551	1366	1857	1190	1728	1049	1604	1484	1366	1728
3095	3166	3188	4332	3124	4536	3060	4678	4760	4782	6048
2@1/2	2@1/2	2@1/2	3@1/2	2@1/2	3@1/2	2@1/2	3@1/2	3@1/2	3@1/2	4@1/2
1.03	1.04	1.06	1.53	1.06	1.53	1.06	1.55	1.57	1.59	2.04
81	81	84	88	72	87	72	81	81	84	87
119,684	125,583	136,562	159,525	200,456	170,492	146,526	182,457	192,916	201,755	227,261
36	36	39	34	59	35	44	36	37	39	35
101,625	103,844	120,650	141,770	116,654	149,993	100,115	153,627	173,231	181,220	197,509
30	30	35	30	34	30	30	30	33	35	30
95,564	95,564	95,564	143,346	95,564	143,346	95,564	143,346	143,346	143,346	191,128
28	28	28	42	28	42	28	42	42	42	56
28	28	28	30	28	29	29	28	28	28	29
210	218	236	276	286	326	300	340	368	389	429
242	253	276	316	331	371	350	390	423	449	489

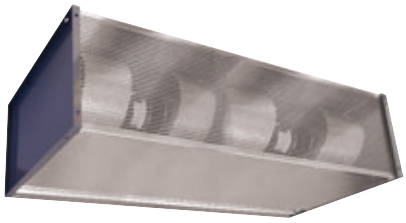
FDA RECOMMENDED

c UL US LISTED

USDA RECOMMENDED

SAVE-T MEDIUM INDUSTRIAL SERIES – MI-HP

- *Heated units are for interior mounting only*



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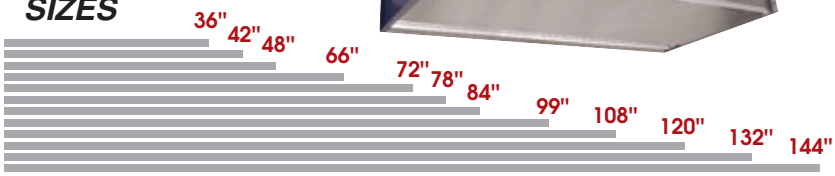


The MI-HP units are used on interior doors up to 12' high and exterior doors up to 10' high.

APPLICATIONS

- **Warehouses**
- **Clean Rooms**
- **Ovens**
- **Painting Rooms**
- **Loading Docks**
- **Manufacturing Facilities**

BENEFITS

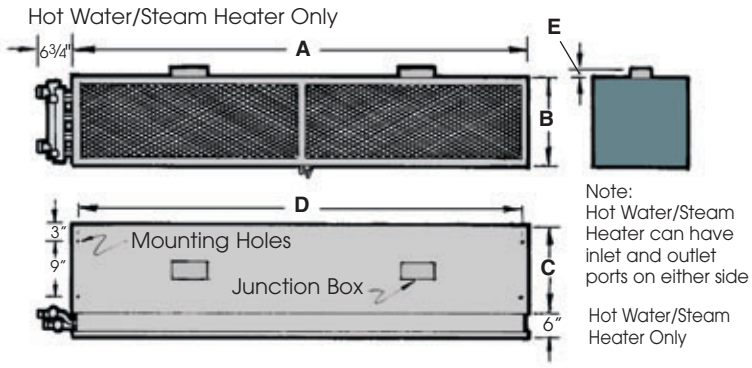
- Easy and fast installation
- Can pay for itself within a year from energy savings only
- High performance with low noise
- Aesthetically pleasing, two-tone silver housing
- Safest industrial door (full visibility)
- Stops wind up to 20 mph
- Prevents entry of hot or cold air
- Shuts out dust and fumes
- Draws down warm air
- Increases employee comfort
- Prevents entry of flying insects

FEATURES

- Large selection of one piece units up to 16' long
- Heavy duty steel, pre-drilled holes for wall mounting or ceiling suspension (4 mounting points)
- Adjustable air volume control 50% to 100% is optional
- 3 1/2'' wide adjustable nozzle
- High performance with low noise
- Steam, hot water, electric and indirect gas-fired heaters are available
- Standard ambient unit can be converted to hot water/steam and indirect gas fired heated unit
- Top air intake is available on non-heated units at no additional cost

MEDIUM INDUSTRIAL – MI-HP						
MODEL	**MI-HP-36-1**	**MI-HP-42-1**	**MI-HP-48-1**	**MI-HP-66-1**	**MI-HP-66-2**	**MI-HP-72-2**
Nozzle Width (in.)	36	42	48	66	66	72
Maximum Velocity (fpm)	5000	5000	5000	5000	5000	5000
Average Outlet Velocity (fpm)	2738	2435	2173	1668	3136	2738
Air Volume (scfm)	2396	2486	2535	2433	4574	4792
No. of Motor(s) @ H.P.	1@1	1@1	1@1	1@1	2@1	2@1
Power Rating (kw)	1.12	1.12	1.25	1.25	2.07	2.24
Outlet Velocity Uniformity (%)	87	81	84	72	97	87
Steam: Capacity (btu/hr)	87,418	96,429	104,268	97,573	163,341	174,811
Temp. Rise (°F)	34	35	38	37	33	34
Hot Water: Capacity (btu/hr)	78,686	81,614	83,333	80,206	149,581	157,276
Temp. Rise (°F)	30	30	30	30	30	30
Electric Heater: Capacity (btu/hr)	47,782	47,782	47,782	47,782	95,564	95,564
Capacity (kw)	14	14	14	14	28	28
Temp. Rise (°F)	18	18	17	18	19	18
Ship. Wt. (Lb.) Unheated	117	126	135	153	214	230
Ship. Wt. (Lb.) Heated (HW/S/E)	132	144	155	178	239	260

Note: **One piece units for 14 ft. and 16 ft. wide openings. Consult factory.**



MI-HP DIMENSIONS CHART					
Model	A	B	C	D	E
36"	39"	15"	18"	37 1/2"	2 1/4"
42"	45"	15"	18"	43 1/2"	2 1/4"
48"	51"	15"	18"	49 1/2"	2 1/4"
66"	69"	15"	18"	67 1/2"	2 1/4"
72"	75"	15"	18"	73 1/2"	2 1/4"
78"	81"	15"	18"	79 1/2"	2 1/4"
84"	87"	15"	18"	85 1/2"	2 1/4"
99"	102"	15"	18"	100 1/2"	2 1/4"
108"	111"	15"	18"	109 1/2"	2 1/4"
120"	120"	15"	18"	118 1/2"	2 1/4"
132"	135"	15"	18"	133 1/2"	2 1/4"
144"	147"	15"	18"	145 1/2"	2 1/4"

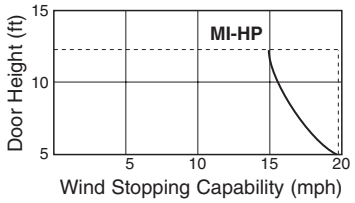
NOISE LEVELS
MI-HP
63 dBA
Sound level measured 10' from the unit in free field

VELOCITY PROFILE		
Model	Distance from Nozzle	Avg. Core Velocity(fpm)
MI-HP-36-1	3'	3822
	6.5'	2467
	10'	2133

Amp Rating for Electric Heaters – 3 Phase/60 hz				
Number of Motors	kw	208v	240v	480v
1	14	38.9	33.7	16.8
2	28	83.4	72.3	36.0
3	42	116.8	101.2	50.4
4	56	155.7	135.0	67.2

Motor Voltages in Amps/Motor			
Voltage	Amps/Motor	Phase	Hz
120	12	1	60
240	6.5		
480	6.3		
120	4.6	3	60
240	4.4		
480	2.3		

Wind Protection Chart for MI-HP



MI-HP-78-2	MI-HP-84-2	MI-HP-99-2	MI-HP-99-3	MI-HP-108-2	MI-HP-108-3	MI-HP-120-2	MI-HP-120-3	MI-HP-132-3	MI-HP-144-3	MI-HP-144-4
72	84	99	99	108	108	117	117	132	144	144
5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
2575	2435	2173	2942	1893	2738	1668	2526	2340	2173	2738
4882	4972	5070	6865	4968	7188	4866	7368	7507	7605	9584
2@1	2@1	2@1	3@1	2@1	3@1	2@1	3@1	3@1	3@1	4@1
2.24	2.24	2.50	3.36	2.50	3.36	3.36	3.36	3.49	3.75	4.48
81	81	84	88	72	87	72	81	81	84	87
183,916	192,820	211,774	245,013	174,394	262,130	186,113	280,243	297,056	312,544	349,308
35	35	38	33	33	34	35	35	36	38	33
160,976	163,646	166,788	224,660	162,728	236,769	161,449	241,094	247,318	251,155	313,230
30	30	30	30	30	30	30	30	30	30	30
95,564	95,564	95,564	143,346	95,564	143,346	95,564	143,346	143,346	143,346	184,302
28	28	28	42	28	42	28	42	42	42	54
18	18	17	19	18	18	18	18	18	17	18
240	248	266	321	316	317	330	385	413	434	489
272	283	306	361	361	416	380	435	468	494	549

FDA RECOMMENDED

c UL US LISTED

USDA RECOMMENDED

SAVE-T HEAVY INDUSTRIAL SERIES – TMCA

SAVE-T EXTRA HEAVY INDUSTRIAL SERIES - TMCC

SIZES

60" 72" 84" 96" 120" 108" 132" 144" 168" 192"

The TMCA units are used on interior doors up to 20' high and exterior doors up to 16' high.

The TMCC units are used on interior doors up to 24' high and exterior doors up to 20' high.

APPLICATIONS

- **Warehouses**
- **Ovens**
- **Loading Docks**
- **Clean Rooms**
- **Painting Rooms**
- **Manufacturing Facilities**

BENEFITS

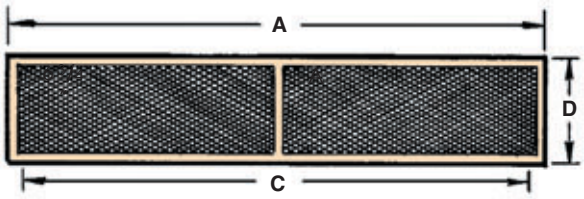
- Large selection of one piece units (up to 16'0" long)
- Easy and fast installation
- Can pay for itself within a year from energy savings only
- Safest industrial door (full visibility)
- Draws down warm air
- Increases employee comfort
- Prevents entry of flying insects

FEATURES

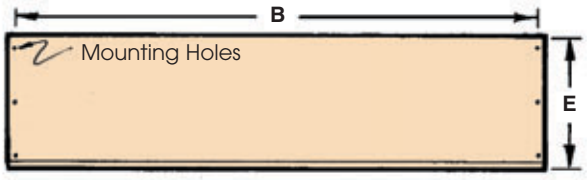
- Heavy duty steel, pre-drilled holes for ceiling suspension (6 mounting points)
- Adjustable air volume control 50% to 100% is standard
- Stops wind up to 25 mph
- High performance with low noise levels
- Standard unit can be converted to a heated unit
- Aesthetically pleasing, neutral beige color
- Available in non-heated, steam, hot water, electric and indirect gas-fired heated
- Standard voltages: 208/240/480/3 phase/60 Hz

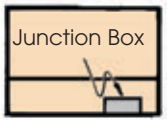
HEAVY INDUSTRIAL – TMCA MODELS

MODEL	TMCA-60-1	TMCA-72-1	TMCA-96-1	TMCA-120-1	TMCA-144-1	TMCA-168-2	TMCA-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@7½	1@7½	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



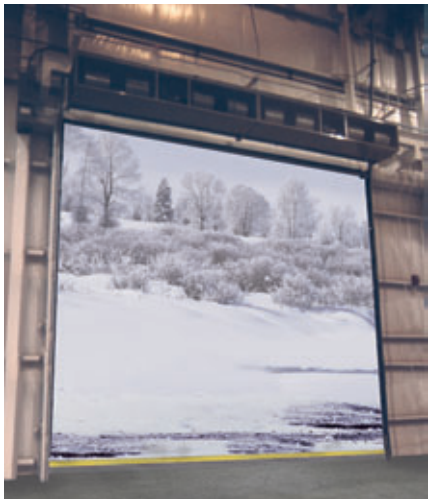
TOP AIR INTAKE AVAILABLE





Junction Box for each motor 2 3/4" x 4 1/2" x 2" and extends beyond mounting lip by 1/2"

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"



FDA RECOMMENDED

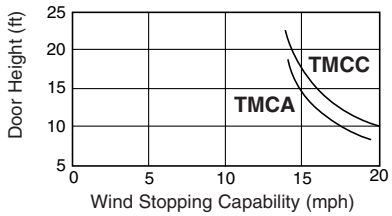
c UL US LISTED

USDA RECOMMENDED

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						
		Standard Voltages				
TMCA	HP	208	240	480	Phase	Hz
	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		
		Standard Voltages				
TMCC	HP	208	240	480	Phase	Hz
	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		

Wind Protection Chart for TMCA & TMCC



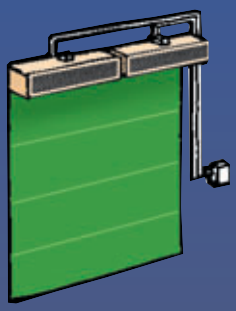
NOISE LEVELS	
TMCA	TMCC
68 dBA	73 dBA
Sound level measured 10' from the unit in free field	

EXTRA-HEAVY INDUSTRIAL – TMCC MODELS							
MODEL	TMCC-60-1	TMCC-72-1	TMCC-96-1	TMCC-120-1	TMCC-144-1	TMCC-168-1	TMCC-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 Uniformity (%)	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

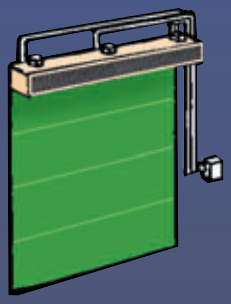
SAVE-T® MOTOR CONTROL PANELS

Motor Control Panels simplify the electrical hook up and protect the Air Door motors and components from power surges and over loads.

Here are 3 examples that demonstrate how control panels can make unit installations convenient and easy.



Combine 2 single motor units with wall mounted panel.



Link multiple motors to one wall mounted panel.

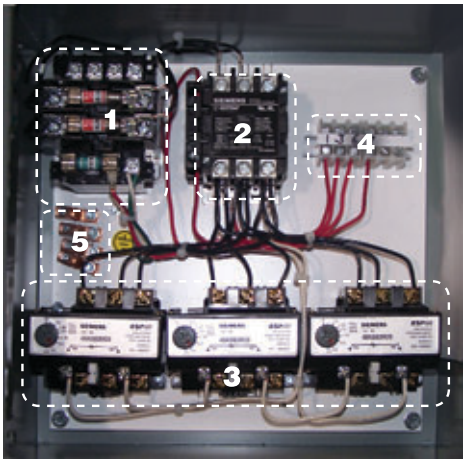
Combine 2 single motor units with side mounted panel.

The enclosure conforms to Standard NEMA Type 4-12, while the enclosure and all components are U.L. Listed.

Methods of Activation Control

- Remote mounted start/stop push button station
- Automatic door switch
- Start/stop/auto switch (HOA)
- Remote thermostat (activates heater only)
- Remote high/medium/low selector switch with start/stop (C-UP models only)

IMPORTANT: All electrical wiring should be done in accordance with local codes and regulations.



NEMA Type 4-12 Enclosures

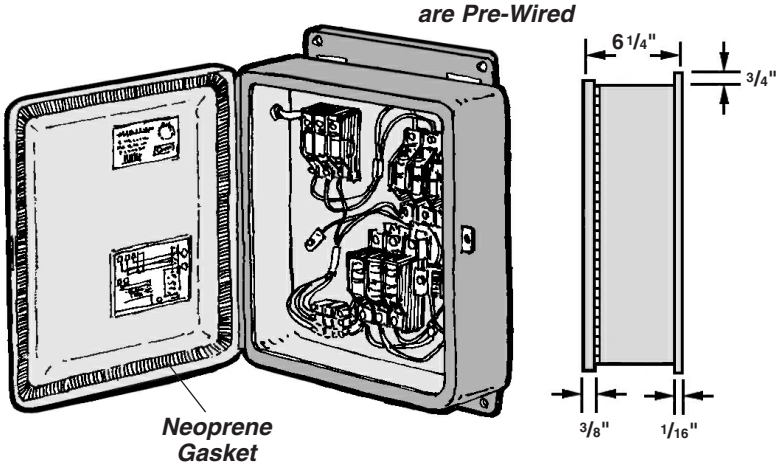
To minimize field wiring, SAVE-T® Air Doors can be ordered with a pre-mounted control panel, mounted on either side of the housing. Due to space restrictions, remote mounted control panels are optional. Field wiring, from each motor junction box to the control panel, is required with remote mounted control panels.

Motor control panels substantially reduce field wiring. The control panels are recommended for all 3 phase units and multiple single phase motors with combined capacities of 1 h.p. or more. In accordance with the local electrical code, fused disconnect switches must be provided by others.

Included in the motor control panel are the following components:

1. Transformer with fused primary and secondary, providing 120 volts for control circuit
2. Three phase contactor
3. Overload blocks for each motor
4. Terminal strip for easy field connection
5. Grounding lugs

All Components are Pre-Wired



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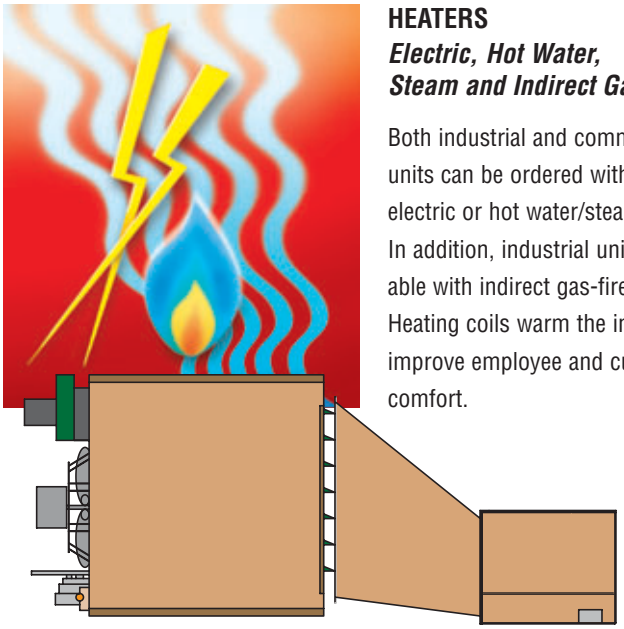
AIR DOOR OPTIONS

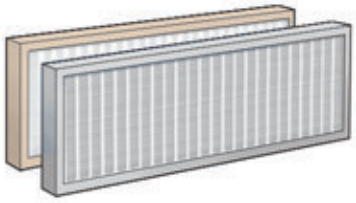


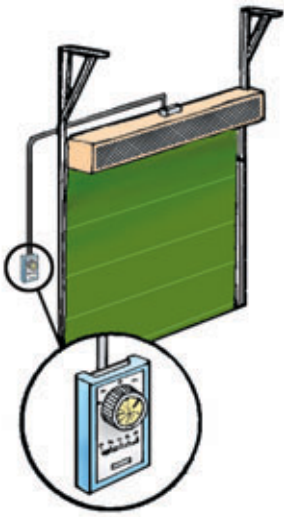
HEATERS
Electric, Hot Water, Steam and Indirect Gas-Fired

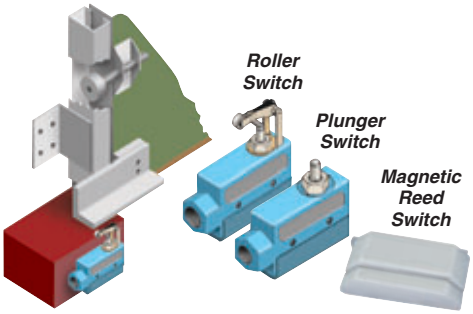
Both industrial and commercial units can be ordered with either electric or hot water/steam heaters. In addition, industrial units are available with indirect gas-fired heaters. Heating coils warm the intake air to improve employee and customer comfort.

FILTER SYSTEM

In environments where the intake air needs to be cleared of dust or grease, our air filter system should be used. Washable aluminum filters are standard; disposable filters are optional.







DOOR SWITCHES

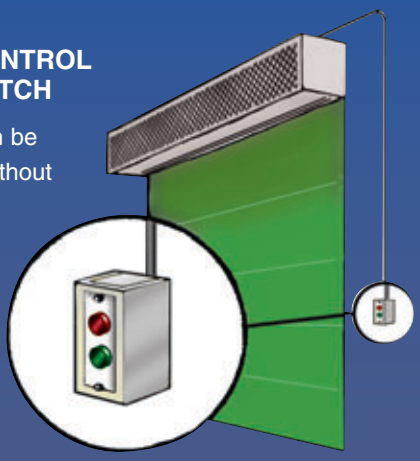
Our automatic door switches are available in three models. All switches automatically activate or deactivate the Air Door each time the security door is opened or closed.

REMOTE THERMOSTAT

This thermostat is a wall mounted unit that should be located in the entrance area. Lead wires are provided in the junction box of the Air Door unit.

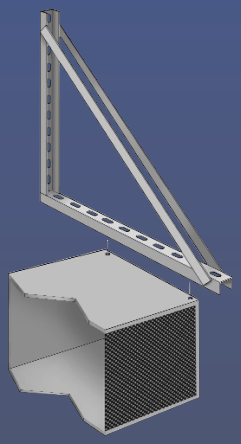
REMOTE CONTROL ON/OFF SWITCH

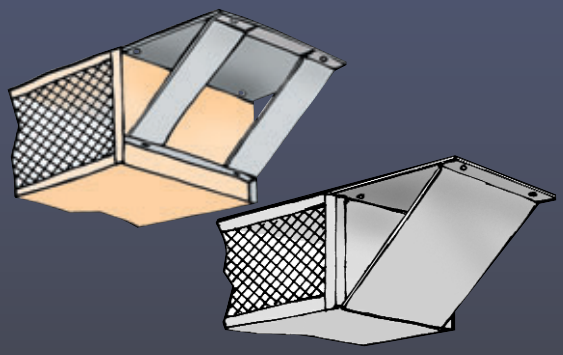
This switch can be used with or without a motor control panel. It should be mounted in a safe, convenient location, approximately 5' from the floor.



WALL BRACKETS
(Industrial Units Only)

Wall brackets are required when a unit needs to be mounted away from the wall to clear obstacles or when the existing security door travels between the wall and the Air Door.





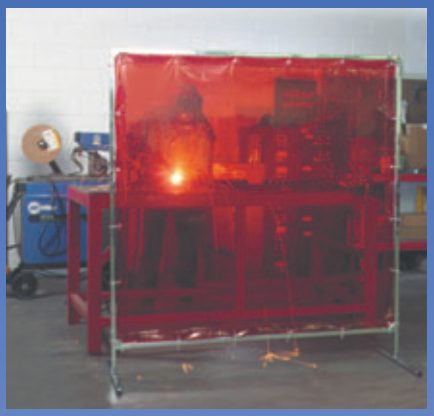
EXTENSION PLATES - 6" or 12"
(Industrial Units Only)

Extension plates are recommended when the pre-drilled top mounting holes are too narrow for a ceiling suspension mount or wall bracket mount (not applicable for electric heated units).

OTHER QUALITY TMI PRODUCTS

Strip Doors & Swinging Doors are the most economical solutions to protect employees and goods from adverse environmental conditions such as noise, heat, cold, humidity, dust and drafts. Door sizes range from smaller personnel doors to larger industrial doors. Multiple PVC strip widths, grades and colors, as well as a large variety of hardware options are available.

Industrial Curtains & Enclosures
Softwall partitions are the most inexpensive solution to contain environmental problems such as dust, smoke, humidity, adverse temperatures and noise. Our Pipe Staff design adds stability and security with “lock-up” cane bolts and “lock-down” wall brackets.



Weld Screens are free-standing and custom made to your specifications. The PVC Screens have heat sealed hems on all four sides using an electronic welding process. Grommets are placed at 12" centers, to eliminate ripping and tearing. Frames consist of 7/8" galvanized square tubing. Heavy-duty square tube legs eliminate excess sway and wobble. Available in transparent or opaque PVC.

Dock Lights & Dock Accessories
TMI offers a line of Dock Lights with extensions from 24" to 115". Incandescent, high-pressure sodium, metal halide and quartz halogen light heads are available. Specialty lights are available. Most lights can ship immediately from our large inventory.

The line of dock bumpers includes laminated, extra-length, extra-thick, steel faced, extruded and molded. We also carry parking blocks, speed bumps, wheel chocks and overhead door track guards.

The Auto Riser prevents spotted trailers from tipping over due to landing gear collapse. This revolutionary new trailer stand complies with OSHA regulations and will keep your loading area safe and accident free.The Auto Riser has a static load capacity of up to 100,000 lbs.

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Catalog Number AD-11-07