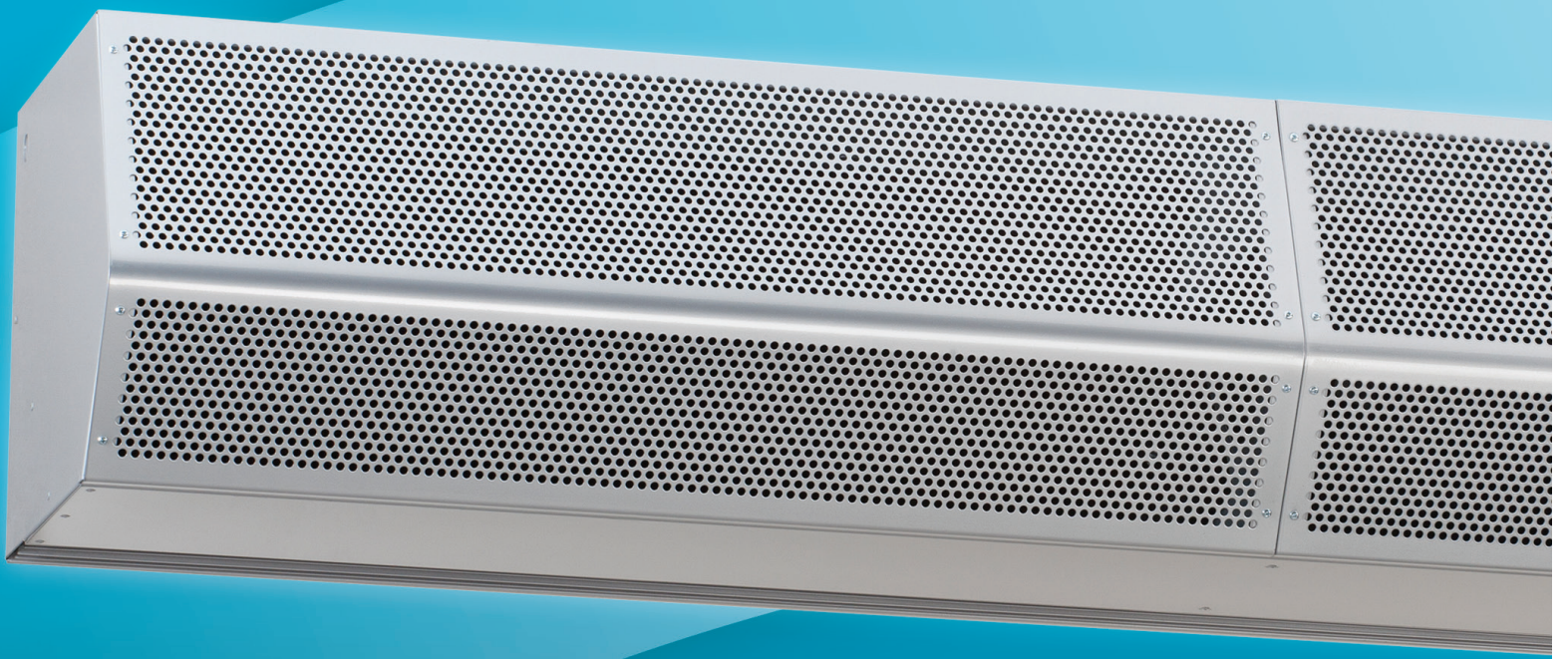




The most cost-effective environmental & sanitation barriers you'll never see



atmosphere is everything

Industry Leading Energy Efficiency

How Does An Air Curtain Work?

By delivering a constant flow of air across an opening, an air curtain provides an invisible shield of air that separates environments in a building, whether it be climate controlled inside air from non-controlled outside air or internal work areas that need to be separated. It is also effective for inhibiting air borne contaminants, such as flying insects, dust, dirt, and fumes. Applications run from small pass-thru drive-up windows to retail stores to restaurants to larger warehouse and manufacturing loading dock doors.

Benefits

- Environmental Separation
- Energy Savings
- Product Quality
- Sanitation Barrier Against Air Borne Contaminants
- Flying Insect Control



The Ultimate in Building Protection to Open Doors

Air transfers between the inside and outside of a building when its door is open.

Door Closed

Air transfers between the inside and outside of a building when an air curtain is off and its door is open.



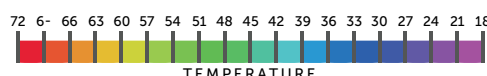
Open Door Air Curtain OFF

Heat loss when door is opened.
8 minutes later (50 ft penetration)



Open Door Air Curtain ON

Air curtain forms an effective thermal barrier
minimum heat loss from the building.



Are You A Design Professional ?

Engineers/Architects/Foodservice Consultants
Construction & Facility Managers
National Chains and National Big Developers

If you design buildings – anything from restaurants to skyscrapers – air curtains will help make the inside environment more comfortable

Whether you are an Architect, Engineer or Consultant looking to specify matching equipment or you are an owner-operator wanting to ensure that the equipment that you are installing or replacing will perform flawlessly, using Mars brand custom accessories & controls is the best way to make sure the components you are using are the best ones for Mars' Air Curtains. You will find the accessories you need to control the units as needed for your specific application, as well as meet all safety and electrical codes - in the pages that follow.

For more information:

Product information

marsair.com/industry_professionals

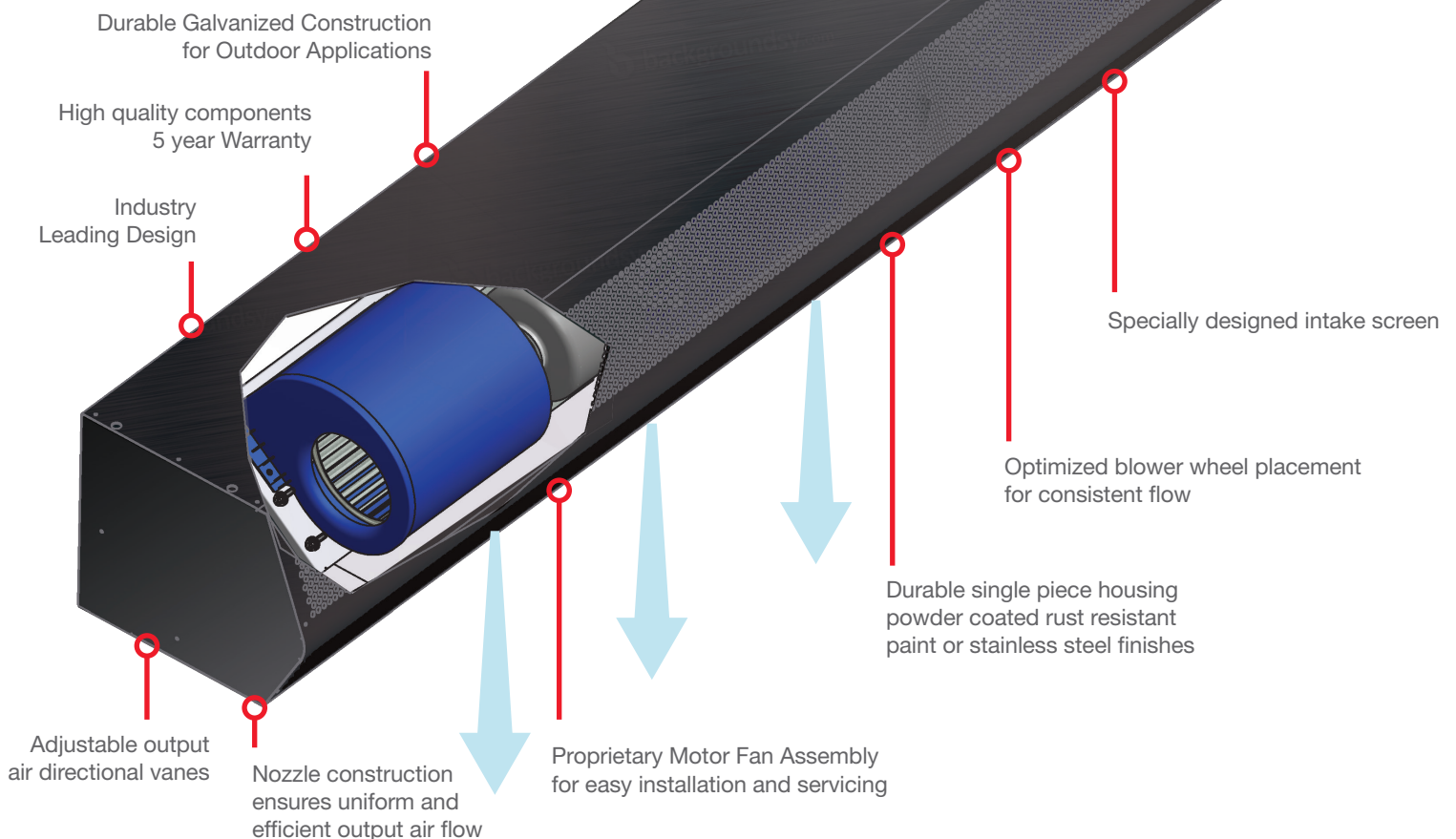
Rep Locater

marsair.com/content/rep-lookup-tool

With over 50 years in business, Mars Air Systems is the international leader in air curtains.

Built in the USA, Mars manufactures some of the highest quality and most reliable air curtains on the market. And we're committed to maintaining our focus on quality and dependability so we can continue to be the market leader for another fifty years.

With industry-leading tools and services, Mars helps streamline the specification process for architects, engineers and food service consultants. Additionally, an extensive catalogue of air curtains means Mars can fit a range of applications and sizes; from drive-thru windows to warehouse doors. We give building owners and businesses the peace of mind of dedicated support and a reliable product, helping them to comply with federal and state regulations and lower their energy costs.



SERIES OVERVIEW

Commercial, Office, & Retail Applications

Office and commercial building operators want to save energy and maintain a constant internal temperature as people come and go. Retail shops want customers to be able to walk straight in, without having their heating and cooling costs skyrocket. Our LoPro, Standard, & Phantom series models can handle those jobs and provide the best performance on the market. In a variety of voltage, length and heating configurations, these Series are perfect for door heights up to 12' and best of all, have a typical payback of 12-24 months, which is among the fastest ROI in the HVAC equipment industry. Ideal for customer entrances, small receiving doors, and drive-up windows. Freight allowed within the continental US.

LoPro 2



- Installation heights
Flying insect control up to 7'
Temperature control up to 8'
- Variable speed motor and switch
- Slim aesthetic design
- Heat options available—electric, steam, hot water
- Standard color—Obsidian Black

| Model | Door Width Inches | Door Height Feet | Air Velocity FPM @ Nozzle (Max) | Air Volume CFM @ Nozzle | FULL LOAD AMPS | | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS. Unheated | | |
|------------|-------------------|------------------|---------------------------------|-------------------------|----------------|-----------|-----------|-------------------|--------------------------|-----------------------|---|------------|
| | | | | | 1 Phase 115V | 208V 230V | 208V 230V | | | | | |
| LPV2 | | | | | | | | | | | | |
| LPV2 25 | 25" | 5' | 1800 | 625 | 2.4 | 1.2/1.2 | | 1 @ 1/6 | 49 | 20 | - | ETL LISTED |
| LPV2 36 | 36" | 7'-8' | 1800 | 900 | 2.4 | 1.2/1.2 | | 1 @ 1/6 | 49 | 32 | - | ETL LISTED |
| LPV2 42 | 42" | 7'-8' | 1800 | 1050 | 2.4 | 1.2/1.2 | | 1 @ 1/6 | 50 | 35 | - | ETL LISTED |
| LPV2 48 | 48" | 7'-8' | 1800 | 1200 | 2.4 | 1.2/1.2 | | 1 @ 1/6 | 52 | 40 | - | ETL LISTED |
| LPV2 60 | 60" | 7'-8' | 1800 | 1500 | 2.6 | 1.4/1.4 | | 1 @ 1/6 | 53 | 48 | - | ETL LISTED |
| LPV2 72 | 72" | 7'-8' | 1800 | 1800 | 2.6 | 1.4/1.4 | | 1 @ 1/6 | 53 | 58 | - | ETL LISTED |
| LPV2 84-2 | 84" | 7'-8' | 1800 | 2100 | 4.8 | 2.4/2.4 | | 2 @ 1/6 | 53 | 75 | - | ETL LISTED |
| LPV2 96-2 | 96" | 7'-8' | 1800 | 2400 | 4.8 | 2.4/2.4 | | 2 @ 1/6 | 53 | 83 | - | ETL LISTED |
| LPV2 108-2 | 108" | 7'-8' | 1800 | 2700 | 5.0 | 2.6/2.6 | | 2 @ 1/6 | 54 | 92 | - | ETL LISTED |
| LPV2 120-2 | 120" | 7'-8' | 1800 | 3000 | 5.2 | 2.8/2.8 | | 2 @ 1/6 | 54 | 102 | - | ETL LISTED |
| LPV2 144-2 | 144" | 7'-8' | 1800 | 3600 | 5.2 | 2.8/2.8 | | 2 @ 1/6 | 54 | 122 | - | ETL LISTED |

Standard 2



- Installation heights
Flying insect control up to 8'
Temperature control 10' to 12'
- Proprietary motor fan assembly for easy installation & maintenance
- Low profile design
- Heat options available—electric, steam, hot water
- Standard color—Obsidian Black
- AMCA rated models

| Model | Door Width Inches | Door Height Feet | Avg Velocity (FPM) | Volume (cfm) | FULL LOAD AMPS | | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS. Unheated | | |
|------------|-------------------|------------------|--------------------|--------------|----------------|-----------|------------------------|-------------------|--------------------------|-----------------------|-----|-----------------|
| | | | | | 1 Phase 115V | 208V 230V | 3 Phase 208V 230V 460V | | | | | |
| STD2 | | | | | | | | | | | | |
| STD2 36 | 36" | 8'-12' | 2206 | 1379 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 60 | AMCA ETL LISTED |
| STD2 42 | 42" | 8'-12' | 1945 | 1418 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 65 | AMCA ETL LISTED |
| STD2 48 | 48" | 8'-12' | 1730 | 1442 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 70 | AMCA ETL LISTED |
| STD2 60-2 | 60" | 8'-12' | 2592 | 2700 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 75 | - ETL LISTED |
| STD2 72-2 | 72" | 8'-12' | 2206 | 2758 | 10.2 | 5.0/5.0 | 3.6/3.2 | 1.6 | 2 @ 1/2 | 68 | 120 | AMCA ETL LISTED |
| STD2 84-2 | 84" | 8'-12' | 1945 | 2836 | 10.2 | 5.0/5.0 | 3.6/3.2 | 1.6 | 2 @ 1/2 | 68 | 125 | AMCA ETL LISTED |
| STD2 96-2 | 96" | 8'-12' | 1730 | 2884 | 10.2 | 5.0/5.0 | 3.6/3.2 | 1.6 | 2 @ 1/2 | 68 | 135 | AMCA ETL LISTED |
| STD2 108-3 | 108" | 8'-12' | 2206 | 4137 | 15.3 | 7.5/7.5 | 5.4/4.8 | 2.4 | 3 @ 1/2 | 71 | 175 | AMCA ETL LISTED |
| STD2 120-3 | 120" | 8'-12' | 2084 | 4341 | 15.3 | 7.5/7.5 | 5.4/4.8 | 2.4 | 3 @ 1/2 | 71 | 185 | AMCA ETL LISTED |
| STD2 144-3 | 144" | 8'-12' | 1730 | 4326 | 15.3 | 7.5/7.5 | 5.4/4.8 | 2.4 | 3 @ 1/2 | 73 | 200 | AMCA ETL LISTED |

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Phantom



- Installation heights
PH10 Flying insect control up to 8'
PH10 Temperature control 10' to 12'
PH12 Flying insect control up to 10'
PH12 Temperature control 12' to 14'
- Recessed mounted in ceiling for invisible coverage
- Utilized in premium design projects
- Durable aluminum construction
- Heat options available—electric, steam, hot water
- Standard color—Pearl White
- AMCA rated models

| Model | Door Width Inches | Door Height Feet | Avg Velocity (FPM) | Volume (cfm) | FULL LOAD AMPS | | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS. Unheated | | |
|------------|-------------------|------------------|--------------------|--------------|----------------|-----------|------------------------|-------------------|--------------------------|-----------------------|-----|-----------------|
| | | | | | 1 Phase 115V | 208V 230V | 3 Phase 208V 230V 460V | | | | | |
| PHANTOM 10 | | | | | | | | | | | | |
| PH10 36 | 36" | 8'-12' | 1947 | 1460 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 60 | AMCA ETL LISTED |
| PH10 42 | 42" | 8'-12' | 1806 | 1580 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 60 | AMCA ETL LISTED |
| PH10 48 | 48" | 8'-12' | 1632 | 1632 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 65 | AMCA ETL LISTED |
| PH10 60-2 | 60" | 8'-12' | 2217 | 2771 | 10.2 | 5.0/5.0 | 3.6/3.2 | 1.6 | 2 @ 1/2 | 68 | 100 | - ETL LISTED |
| PH10 72-2 | 72" | 8'-12' | 1947 | 2920 | 10.2 | 5.0/5.0 | 3.6/3.2 | 1.6 | 2 @ 1/2 | 68 | 105 | AMCA ETL LISTED |
| PH10 84-2 | 84" | 8'-12' | 1806 | 3160 | 10.2 | 5.0/5.0 | 3.6/3.2 | 1.6 | 2 @ 1/2 | 68 | 125 | AMCA ETL LISTED |
| PH10 96-2 | 96" | 8'-12' | 1632 | 3264 | 10.2 | 5.0/5.0 | 3.6/3.2 | 1.6 | 2 @ 1/2 | 68 | 130 | AMCA ETL LISTED |
| PH10 108-3 | 108" | 8'-12' | 1947 | 4380 | 15.3 | 7.5/7.5 | 5.4/4.8 | 2.4 | 3 @ 1/2 | 71 | 170 | AMCA ETL LISTED |
| PH10 120-4 | 120" | 8'-12' | 2217 | 5541 | 20.4 | 10.0/10.0 | 7.2/6.4 | 3.2 | 4 @ 1/2 | 73 | 200 | - ETL LISTED |
| PH10 144-4 | 144" | 8'-12' | 1947 | 5840 | 20.4 | 10.0/10.0 | 7.2/6.4 | 3.2 | 4 @ 1/2 | 73 | 210 | AMCA ETL LISTED |
| PHANTOM 12 | | | | | | | | | | | | |
| PH12 42 | 42" | 10'-14' | 2824 | 2471 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1 @ 1 | 70 | 90 | AMCA ETL LISTED |
| PH12 48 | 48" | 10'-14' | 2534 | 2534 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1 @ 1 | 70 | 90 | AMCA ETL LISTED |
| PH12 60 | 60" | 10'-14' | 2207 | 2759 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1 @ 1 | 70 | 95 | - ETL LISTED |
| PH12 72-2 | 72" | 10'-14' | 3097 | 4646 | 18.0 | 10.0/10.0 | 6.6/6.4 | 3.2 | 2 @ 1 | 73 | 155 | AMCA ETL LISTED |
| PH12 84-2 | 84" | 10'-14' | 2824 | 4942 | 18.0 | 10.0/10.0 | 6.6/6.4 | 3.2 | 2 @ 1 | 73 | 175 | AMCA ETL LISTED |
| PH12 96-2 | 96" | 10'-14' | 2534 | 5068 | 18.0 | 10.0/10.0 | 6.6/6.4 | 3.2 | 2 @ 1 | 73 | 180 | AMCA ETL LISTED |
| PH12 120 | 120" | 10'-14' | 2207 | 5518 | 18.0 | 10.0/10.0 | 6.6/6.4 | 3.2 | 2 @ 1 | 73 | 190 | - ETL LISTED |
| PH12 144-4 | 144" | 10'-14' | 3097 | 9292 | 36.0 | 20.0/20.0 | 13.2/12.8 | 6.4 | 4 @ 1 | 75 | 270 | AMCA ETL LISTED |

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Restaurant, Food Retail & Food Preparation Applications

For restaurants, catering, and industrial food preparation facilities, protecting food, and customers, by keeping airborne contaminants and flying insects out is a must. They also need quick access to cold and frozen storage, with clear unobstructed views so their staff and facility remain safe. Our ETL Sanitation Certified models are certified to ANSI/NSF 37 standards, which means they are proven to perform in helping keep your food, facilities and customers safe. Ideal for customer entrances, drive-up windows, and receiving back doors. Freight allowed within the continental US.

ETL Sanitation



LPN 2

- ETL sanitation certified to ANSI/NSF 37 standards
- Installation heights
Pass thru/drive-up/up to 5'
Flying Insect and temperature control up to 7'
- Easy to install and maintain
- Washable aluminum mesh filter–Optional
- Heat options–not available
- Standard color–Obsidian Black
- Freight allowed within continental US
- Designed for pass through/drive-up windows and concession stand counters

| Model | Door Width Inches | Door Height Feet | Avg. Velocity FPM @ Nozzle (Max) | Air Volume (CFM) @ Nozzle | FULL LOAD AMPS 1 Phase | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS. Unheated | Certifications | |
|------------|-------------------|------------------|----------------------------------|---------------------------|------------------------|-----------|-------------------|--------------------------|-----------------------|----------------|----------------|
| | | | | | 115V | 208V 230V | | | | ETL LISTED | ETL SANITATION |
| LPN2 | | | | | | | | | | | |
| LPN2 25 | 25" | 5' | 1800 | 625 | 2.4 | 1.2/1.2 | 1 @ 1/6 | 49 | 20 | ETL LISTED | ETL SANITATION |
| LPN2 36 | 36" | 7' | 1800 | 900 | 2.4 | 1.2/1.2 | 1 @ 1/6 | 49 | 32 | ETL LISTED | ETL SANITATION |
| LPN2 42 | 42" | 7' | 1800 | 1050 | 2.4 | 1.2/1.2 | 1 @ 1/6 | 50 | 35 | ETL LISTED | ETL SANITATION |
| LPN2 48 | 48" | 7' | 1800 | 1200 | 2.4 | 1.2/1.2 | 1 @ 1/6 | 52 | 40 | ETL LISTED | ETL SANITATION |
| LPN2 60 | 60" | 7' | 1800 | 1500 | 2.6 | 1.4/1.4 | 1 @ 1/6 | 53 | 48 | ETL LISTED | ETL SANITATION |
| LPN2 72 | 72" | 7' | 1800 | 1800 | 2.6 | 1.4/1.4 | 1 @ 1/6 | 53 | 58 | ETL LISTED | ETL SANITATION |
| LPV2 84-2 | 84" | 7' | 1800 | 2100 | 4.8 | 2.4/2.4 | 2 @ 1/6 | 53 | 75 | ETL LISTED | ETL SANITATION |
| LPV2 96-2 | 96" | 7' | 1800 | 2400 | 4.8 | 2.4/2.4 | 2 @ 1/6 | 53 | 83 | ETL LISTED | ETL SANITATION |
| LPV2 108-2 | 108" | 7' | 1800 | 2700 | 5.0 | 2.6/2.6 | 2 @ 1/6 | 54 | 92 | ETL LISTED | ETL SANITATION |
| LPV2 120-2 | 120" | 7' | 1800 | 3000 | 5.2 | 2.8/2.8 | 2 @ 1/6 | 54 | 102 | ETL LISTED | ETL SANITATION |
| LPV2 144-2 | 144" | 7' | 1800 | 3600 | 5.2 | 2.8/2.8 | 2 @ 1/6 | 54 | 122 | ETL LISTED | ETL SANITATION |

N 2

- ETL sanitation certified to ANSI/NSF 37 standards
- Installation heights
Flying insect and temperature control up to 7'
- Designed for front doors
- Easy to install and maintain
- Washable aluminum mesh filter–Optional
- Heat options–not available
- Standard color–Obsidian Black

| Model | Door Width Inches | Door Height Feet | Avg. Velocity (fpm) | Volume (cfm) | FULL LOAD AMPS | | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS. Unheated | Certifications | | | |
|---------|-------------------|------------------|---------------------|--------------|----------------|-----------|------------------------|-------------------|--------------------------|-----------------------|----------------|------------|----------------|----------------|
| | | | | | 1 Phase 115V | 208V 230V | 3 Phase 208V 230V 460V | | | | AMCA | ETL LISTED | ETL SANITATION | |
| N2 | | | | | | | | | | | | | | |
| N2 36 | 36" | 7' | 2206 | 1379 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 60 | AMCA | ETL LISTED | ETL SANITATION |
| N2 42 | 42" | 7' | 1945 | 1418 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 65 | AMCA | ETL LISTED | ETL SANITATION |
| N2 48 | 48" | 7' | 1730 | 1442 | 5.1 | 2.5/2.5 | 1.8/1.6 | 0.8 | 1 @ 1/2 | 66 | 70 | AMCA | ETL LISTED | ETL SANITATION |
| N2 72-2 | 72" | 7' | 2206 | 2758 | 10.2 | 5.0/5.0 | 3.6/3.2 | 1.6 | 2 @ 1/2 | 68 | 120 | AMCA | ETL LISTED | ETL SANITATION |

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NH 2

- ETL sanitation certified to ANSI/NSF 37 standards
- Installation heights
Flying insect & temperature control up to 7'
- Designed for back doors
- Easy to install and maintain
- Washable aluminum mesh filter–Optional
- Heat options–not available
- Standard color–Titanium Silver

| Model | Door Width Inches | Door Height Feet | Avg. Velocity (fpm) | Volume (cfm) | FULL LOAD AMPS | | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS. Unheated | Certifications | | | |
|--------|-------------------|------------------|---------------------|--------------|----------------|-----------|------------------------|-------------------|--------------------------|-----------------------|----------------|------------|----------------|----------------|
| | | | | | 1 Phase 115V | 208V 230V | 3 Phase 208V 230V 460V | | | | AMCA | ETL LISTED | ETL SANITATION | |
| NH2 | | | | | | | | | | | | | | |
| NH2 36 | 36" | 7' | 2389 | 1792 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1 @ 1 | 70 | 115 | AMCA | ETL LISTED | ETL SANITATION |
| NH2 42 | 42" | 7' | 2654 | 2322 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1 @ 1 | 70 | 120 | AMCA | ETL LISTED | ETL SANITATION |
| NH2 48 | 48" | 7' | 2447 | 2447 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1 @ 1 | 70 | 125 | AMCA | ETL LISTED | ETL SANITATION |

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MARS Air Systems, LLC certifies the Standard 2, Phantom, N2, NH2, High Velocity 2, and the Windstopping series are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



SERIES OVERVIEW

Larger Entrance Door & Receiving Door Applications

Hot summers and cold winters mean docks and facility entrances are an unprotected leak for your heating & cooling costs to fly away. The bigger the door, the more money it is probably costing you in energy loss. Our High Velocity and Extra Power Series are top performers in their category and can keep your conditioned air in the building while allowing people, forklifts and vehicles to move freely across the opening. This means your people can get work done, while you save money. Ideal for large entrances, loading docks, and receiving doors. Freight allowed within the continental US (except gas fired units).

High Velocity 2

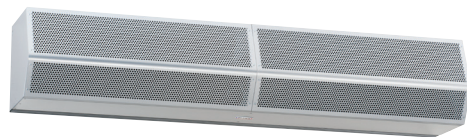


- Installation heights
Flying insect control up to 10'
Temperature control 12' to 14'
- AMCA rated models
- Proprietary motor fan assembly for easy installation & maintenance
- Best value for mid-sized warehouse doors
- Heat options available – electric, steam, hot water, gas
- Standard color – Titanium Silver
- Freight allowed within continental US (except gas fired)

| Model | Door Width Inches | Door Height Feet | Avg. Velocity (fpm) | Volume (cfm) | FULL LOAD AMPS | | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS. Unheated | | | |
|-----------|-------------------|------------------|---------------------|--------------|----------------|-------------------|------------------------|-------------------|--------------------------|-----------------------|-----|------|------------|
| | | | | | 1 Phase 115V | 3 Phase 208V 230V | 3 Phase 208V 230V 460V | | | | | | |
| HV2 | | | | | | | | | | | | | |
| HV2 36 | 36" | 10'-14' | 2389 | 1792 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1@1 | 70 | 115 | AMCA | ETL LISTED |
| HV2 42 | 42" | 10'-14' | 2654 | 2322 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1@1 | 70 | 120 | AMCA | ETL LISTED |
| HV2 48 | 48" | 10'-14' | 2447 | 2447 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1@1 | 70 | 125 | AMCA | ETL LISTED |
| HV2 60 | 60" | 10'-14' | 2208 | 2760 | 9.0 | 5.0/5.0 | 3.3/3.2 | 1.6 | 1@1 | 70 | 140 | - | ETL LISTED |
| HV2 72-2 | 72" | 10'-14' | 2389 | 3584 | 18.0 | 10.0/10.0 | 6.6/6.4 | 3.2 | 2@1 | 73 | 220 | AMCA | ETL LISTED |
| HV2 84-2 | 84" | 10'-14' | 2654 | 4644 | 18.0 | 10.0/10.0 | 6.6/6.4 | 3.2 | 2@1 | 73 | 235 | AMCA | ETL LISTED |
| HV2 96-2 | 96" | 10'-14' | 2447 | 4894 | 18.0 | 10.0/10.0 | 6.6/6.4 | 3.2 | 2@1 | 73 | 250 | AMCA | ETL LISTED |
| HV2 108-3 | 108" | 10'-14' | 2389 | 5736 | 27.0 | 15.0/15.0 | 9.9/9.6 | 4.8 | 3@1 | 75 | 330 | AMCA | ETL LISTED |
| HV2 120-2 | 120" | 10'-14' | 2208 | 5519 | 18.0 | 10.0/10.0 | 6.6/6.4 | 3.2 | 2@1 | 73 | 275 | - | ETL LISTED |
| HV2 120-3 | 120" | 10'-14' | 2678 | 6693 | 27.0 | 15.0/15.0 | 9.9/9.6 | 4.8 | 3@1 | 75 | 345 | AMCA | ETL LISTED |
| HV2 144-3 | 144" | 10'-12' | 2447 | 7341 | 27.0 | 15.0/15.0 | 9.9/9.6 | 4.8 | 3@1 | 75 | 375 | AMCA | ETL LISTED |

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Extra Power 2



- Installation heights
Flying insect control up to 12'
Temperature control up to 16'
- Proprietary motor fan assembly for easy installation & maintenance
- Best value for large-sized warehouse doors
- Heat options available – steam, hot water, gas
- Standard color – Titanium Silver

| Model | Door Width Inches | Door Height Feet | Avg. Velocity (fpm) | Volume (cfm) | FULL LOAD AMPS | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS. Unheated | | |
|-----------|-------------------|------------------|---------------------|--------------|-------------------|--------------|-------------------|--------------------------|-----------------------|---|------------|
| | | | | | 3 Phase 208V 230V | 3 Phase 460V | | | | | |
| EP2 | | | | | | | | | | | |
| EP2 96-2 | 96" | 12'-16' | 4800 | 9600 | 16.6/15.2 | 76 | 2 @ 3 | 79 | 280 | - | ETL LISTED |
| EP2 108-2 | 108" | 12'-16' | 4200 | 9600 | 16.6/15.2 | 76 | 2 @ 3 | 79 | 295 | - | ETL LISTED |
| EP2 120-2 | 120" | 12'-16' | 3840 | 9600 | 16.6/15.2 | 76 | 2 @ 3 | 79 | 305 | - | ETL LISTED |
| EP2 120-3 | 120" | 12'-16' | 5760 | 14400 | 24.9/22.8 | 11.4 | 3 @ 3 | 81 | 390 | - | ETL LISTED |
| EP2 144-3 | 144" | 12'-16' | 4800 | 14400 | 24.9/22.8 | 11.4 | 3 @ 3 | 81 | 420 | - | ETL LISTED |



Large Dock Door & Heavy Industrial Applications

When it comes to larger doors and major industrial projects in the Mining, Oil & Gas, and Industrial Food Preparation arenas, no one can match the performance of the Mars Windstopping and Windguard Series. Featuring a variety of configurations, including direct or belt driven options, and gas-fired or hydronic heating solutions, these are the ultimate in performance in the harshest of conditions, including minus zero cold, 100 plus degree heat, high humidity, and saline environments.

Windstopping

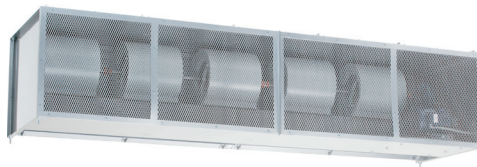


- Installation heights
 - WMI Flying insect control up to 14'
 - WMI Temperature control 16' to 18'
 - WMH Flying insect control up to 16'
 - WMH Temperature control 18' to 20'
 - Wind resistance up to 15 mph
- Direct drive unit for heavy industrial projects
- AMCA rated models
- Heat options available – hot water, steam, gas
- Standard Color – Titanium Silver
- Freight not included

| Model | Door Width Inches | Door Height Feet | Avg Velocity (fpm) | Volume (cfm) | FULL LOAD AMPS 3 Phase | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS Unheated | AMCA | CSA |
|-----------|-------------------|------------------|--------------------|--------------|------------------------|------|-------------------|--------------------------|----------------------|------|-----|
| | | | | | 208V 230V | 460V | | | | | |
| WMI | | | | | | | | | | | |
| WMI 96-2 | 96" | 14'-18' | 2614 | 7842 | 14.4/14.0 | 7.0 | 2 @ 2 | 66 | 515 | AMCA | CSA |
| WMI 120-2 | 120" | 14'-18' | 3205 | 9474 | 28.4/21.2 | 10.6 | 2 @ 3 | 66 | 610 | AMCA | CSA |
| WMI 144-2 | 144" | 14'-18' | 3009 | 13422 | 28.4/21.2 | 10.6 | 2 @ 3 | 66 | 695 | AMCA | CSA |
| WMI 168-3 | 168" | 14'-18' | 2920 | 15060 | 42.6/31.8 | 15.9 | 3 @ 3 | 67 | 880 | AMCA | CSA |
| WMI 192-4 | 192" | 14'-18' | 2614 | 15684 | 28.8/28.0 | 14.0 | 4 @ 2 | 68 | 1030 | AMCA | CSA |
| WMH | | | | | | | | | | | |
| WMH 96-2 | 96" | 16'-20' | 4466 | 13190 | 38.0/31.6 | 15.8 | 2 @ 5 | 69 | 635 | AMCA | CSA |
| WMH 120-2 | 120" | 16'-20' | 4231 | 15670 | 38.0/31.6 | 15.8 | 2 @ 5 | 69 | 735 | AMCA | CSA |
| WMH 144-2 | 144" | 16'-20' | 3816 | 17022 | --/42.0 | 21 | 2 @ 7 | 72 | 890 | AMCA | CSA |
| WMH 168-3 | 168" | 16'-20' | 3822 | 19845 | 57.0/47.4 | 23.7 | 3 @ 5 | 70 | 1060 | AMCA | CSA |
| WMH 192-4 | 192" | 16'-20' | 4466 | 26380 | 76.0/63.2 | 31.6 | 4 @ 5 | 72 | 1275 | AMCA | CSA |

- The AMCA Certified Rating Seal applies to airflow rate, average outlet velocity, outlet velocity uniformity, velocity projection and power rating at free delivery only.
- Rated data shown are only for base (unheated) units, as shown.
- Performance data obtained from the correction factors shown herein are only an approximation and shall not be considered as part of the AMCA Certified Rating.

Windguard



- Housing profile – 28" x 36"
- Installation heights
 - Flying insect control 14' to 30'
 - Temperature control 14' to 34'
 - Wind resistance up to 30 mph
- Belt driven unit for heavy industrial projects
- Heavy duty TEFC motors
- Heat options available – hot water, steam, gas
- Standard Color – Titanium Silver
- Freight not included

| Model | Door Width Inches | Door Height Feet | Max Velocity (fpm) | Max Volume (cfm) | FULL LOAD AMPS 3 Phase | | Motor Horse Power | dBA Sound Pressure Level | Net Wt. LBS Unheated | AMCA | CSA |
|------------|-------------------|------------------|--------------------|------------------|------------------------|------|-------------------|--------------------------|----------------------|------|-----|
| | | | | | 208V 230V | 460V | | | | | |
| BD | | | | | | | | | | | |
| BD14 96 | 96" | 14'-18' | 4500 | 11700 | 14.2/13.0 | 6.5 | 1 @ 5 | 73 | 600 | -- | -- |
| BD14 120 | 120" | 14'-18' | 4500 | 14650 | 14.2/13.0 | 6.5 | 1 @ 5 | 73 | 700 | -- | -- |
| BD14 144 | 144" | 14'-18' | 4500 | 17600 | 21.6/20.0 | 10 | 1 @ 7.5 | 74 | 800 | -- | -- |
| BD14 168 | 168" | 14'-18' | 4500 | 20500 | 21.6/20.0 | 10 | 1 @ 7.5 | 74 | 900 | -- | -- |
| BD14 192 | 192" | 14'-18' | 4500 | 23450 | 28.0/26.0 | 13 | 1 @ 10 | 75 | 1000 | -- | -- |
| BD18 96 | 96" | 18'-22' | 5100 | 13800 | 21.6/20.0 | 10 | 1 @ 7½ | 74 | 650 | -- | -- |
| BD18 120 | 120" | 18'-22' | 5100 | 17255 | 21.6/20.0 | 10 | 1 @ 7½ | 75 | 750 | -- | -- |
| BD18 144 | 144" | 18'-22' | 5100 | 20700 | 28.0/26.0 | 13 | 1 @ 10 | 75 | 850 | -- | -- |
| BD18 168 | 168" | 18'-22' | 5100 | 24100 | 28.0/26.0 | 13 | 1 @ 10 | 76 | 950 | -- | -- |
| BD18 192 | 192" | 18'-22' | 5100 | 27600 | 42.0/40.0 | 20 | 1 @ 15 | 76 | 1050 | -- | -- |
| BD22 96 | 96" | 22'-26' | 6000 | 16250 | 28.0/26.0 | 14 | 1 @ 10 | 75 | 700 | -- | -- |
| BD22 120 | 120" | 22'-26' | 6000 | 20300 | 42.0/40.0 | 20 | 1 @ 15 | 76 | 800 | -- | -- |
| BD22 144 | 144" | 22'-26' | 6000 | 24350 | 42.0/40.0 | 20 | 1 @ 15 | 76 | 900 | -- | -- |
| BD22 168 | 168" | 22'-26' | 6000 | 28400 | 55.0/51.0 | 25.5 | 1 @ 20 | 77 | 1000 | -- | -- |
| BD22 192 | 192" | 22'-26' | 6000 | 32500 | 55.0/51.0 | 25.5 | 1 @ 20 | 77 | 1100 | -- | -- |
| BD26 96 | 96" | 26'-30' | 6500 | 18700 | 42.0/40.0 | 20 | 1 @ 15 | 76 | 750 | -- | -- |
| BD26 120 | 120" | 26'-30' | 6500 | 23400 | 55.0/51.0 | 25.5 | 1 @ 20 | 77 | 850 | -- | -- |
| BD26 144 | 144" | 26'-30' | 6500 | 29200 | 65.0/60.0 | 30 | 1 @ 25 | 78 | 950 | -- | -- |
| BD26 168 | 168" | 26'-30' | 6500 | 32700 | 65.0/60.0 | 30 | 1 @ 25 | 78 | 1050 | -- | -- |
| BD26 192 | 192" | 26'-30' | 6500 | 37400 | 78.0/71.0 | 35.5 | 1 @ 30 | 79 | 1150 | -- | -- |
| BD30 96 | 96" | 30'-34' | 6950 | 19200 | 55.0/51.0 | 25.5 | 1 @ 20 | 77 | 800 | -- | -- |
| BD30 120 | 120" | 30'-34' | 6950 | 24900 | 65.0/60.0 | 30 | 1 @ 25 | 78 | 900 | -- | -- |
| BD30 144 | 144" | 30'-34' | 6950 | 30300 | 78.0/71.0 | 35.5 | 1 @ 30 | 79 | 1000 | -- | -- |
| BD30 168 | 168" | 30'-34' | 6950 | 33000 | 78.0/71.0 | 35.5 | 1 @ 30 | 79 | 1100 | -- | -- |
| BD30 192-2 | 192" | 30'-34' | 6950 | 38100 | 110.0/102.0 | 51 | 2 @ 20 | 80 | 1200 | -- | -- |

Mars Factory Recommended and Approved Accessories

Our air curtains are constructed from high-quality components and are designed for years of reliable use. To ensure the unit you purchase performs as expected, and continues to perform for years to come, use Mars factory approved accessories. The switches, controls, panels and brackets below are designed and tested specifically for our units. This means they are easy to install and configure, and eliminates concerns about failure or incompatibility presented by 3rd party, unapproved accessories. For design consultants and specifiers, specifying factory approved accessories means you can be sure the units will perform up to the highest expectations and reduces field coordination issues.

DOOR LIMIT / ACTIVATION SWITCHES

Mechanical

Door limit switches turn the air curtain on when the door opens and off when the door closes.

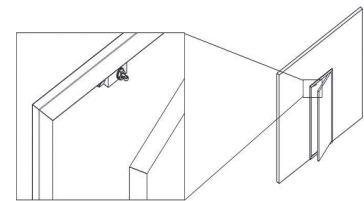
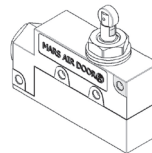
Note: An optional motor control panel or controller will be required if the total field conditions exceed ANY of the specified voltage, phase, amp or HP parameters as referenced below when a wired mechanical door limit switch is used

Combination Plunger/Roller

Ideal Use: All types of Doors.

Part # 99-014 – 250 Volts, 1Ø, 20 Amps, 1 HP Max, NC/NO, 1 Pole, NEMA 1

Available in Washdown & Explosion Proof Design



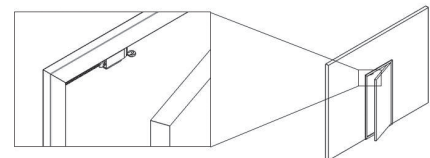
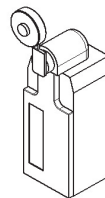
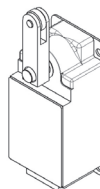
Roller Type

Ideal Use: Dual swing, sliding & roll-up doors.

Part # 99-267 - 250 Volts, 1Ø, 10 Amps, 1/2 HP Max, NC/NO, 1 Pole, NEMA 4X

Part # 99-015 - 600 Volts, 1Ø, 20 Amps, 1 HP Max, NC/NO, 1 Pole, NEMA 4X

Available in Washdown & Explosion Proof Design



Magnetic

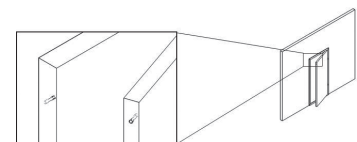
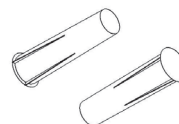
Door limit switches turn the air curtain on when the door opens and off when the door closes.

Note: An optional motor control panel or controller is required when a wired magnetic door limit switch is used.

Commercial Plastic Flush Mounted

Ideal Use: Doors where wiring and switches need to be concealed.

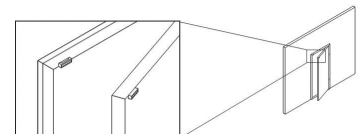
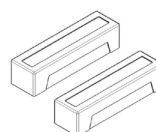
Part # 99-275 – 24 Volts, 1/2 Amp, NC/NO, Wired, NEMA 1



Commercial Plastic Surface Mounted

Ideal Use: Doors where wires cannot be concealed in walls.

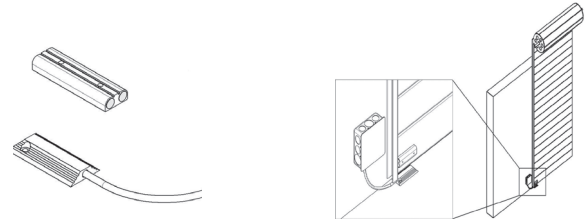
Part # 99-018 – 24 Volts, 1/2 Amp, NC/NO, Wired, NEMA 1



 Recommended

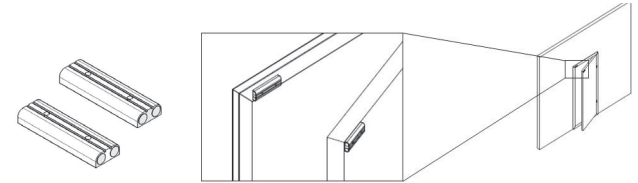
Industrial Aluminum Floor Mounted

Ideal Use: Roll-up doors with fork lift traffic.
Part # 99-124 – 24 to 120 Volts, 3 Amps, NC/NO, Wired, NEMA 1



Industrial Aluminum Surface Mounted

Ideal Use: Doors where wires cannot be concealed in walls.
Part # 99-125 – 24 to 120 Volts, 3 Amps, NC/NO, Wired, NEMA 1



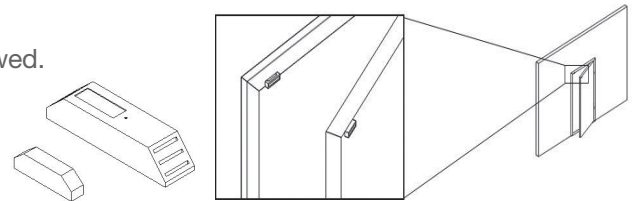
Wireless

Door limit switches turn the air curtain on when the door opens and off when the door closes.

Commercial Plastic Wireless Surface Mounted

Ideal Use: Doors with lower traffic where no exposed wires are allowed.
Part #/Kit # J0053 (115V) or Kit # J0054 (208/230V),

- Includes Wireless Switch and Switch Controller
- Solar Charged



CONTROLLERS

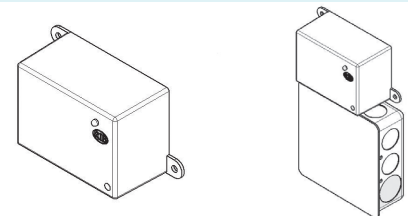
Solid State Controllers

Solid state controllers are required when there is a need to adjust or delay the turn-off time of the air curtain and/or the speed.

Note: Solid state controllers are limited to the voltage, phase, amp or HP parameters specified for each type.

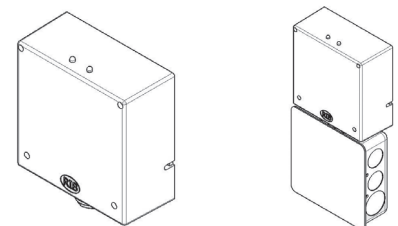
Controller without Time Delay

Part # 99-052 – ½ HP, 120 Volts, ½ Amp, NC/NO, NEMA 1
Part # 99-053 – ½ HP, 208/230 Volts, ½ Amp, NC/NO, NEMA 1



Controller with Adjustable Time Delay

Part # 99-050 – ½ HP, 120 Volts, ½ Amps, NC/NO, 5–600 sec Time Delay, NEMA 1
Part # 99-051 – ½ HP, 208/230 Volts, ½ Amps, NC/NO, 5–600 sec Time Delay, NEMA 1



Recommended

ACCESSORIES

MOTOR CONTROL PANELS AND VARIABLE FREQUENCY DRIVE (VFD)

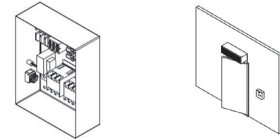
Unheated, Electric, Steam, Hot Water, Indirect Fired Gas

Door limit switches turn the air curtain on when the door opens and off when the door closes and can be used in conjunction with control panels when automatic control of an air curtain is required.

Note: All unheated panels are remote mounted (except electric heated) as standard. (Optional unit installation available). Additional panel ratings and materials available. HOA(Hands/Off/Auto) switch is a standard feature on a motor control panel.

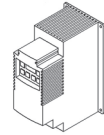
NEMA 1 (IP 10) Panel

For indoor use only. Provides protection from dust.
Enclosures may be painted metal, fiberglass or stainless steel. Available in NEMA 4X (indoor or outdoor use), Washdown & Explosion Proof, HOA(Hand/Off/Auto) switch is a standard feature.



Variable Frequency Drives (VFD)

Used when variable speed is desired on applicable 3 phase motors. Can be panel mounted or stand alone. For information and additional capabilities – Consult Factory



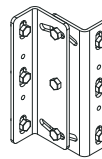
MOUNTING HARDWARE

Adjustable Mounting Brackets

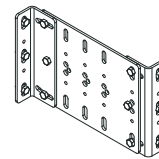
Used when an air curtain needs to be mounted slightly away from mounting wall surface.

Part # J0741

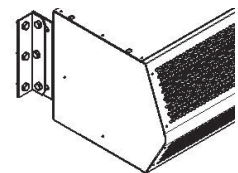
Part # J0702



Part # J0741



Part # J0702

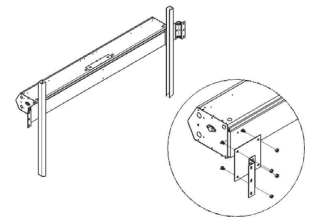
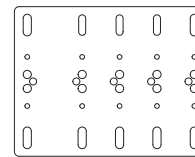


Side Extension Plates

Used when an air curtain needs to have its mounting holes extended beyond the width of its housing.

Note: Often used in conjunction with adjustable mounting brackets

Part # J0731

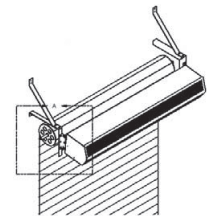
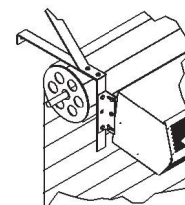
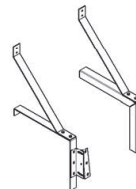


Extended Wall Mounting Brackets

Used when an air curtain needs to clear larger obstructions above a door opening, such as roll up doors

Part # J0008G - 10" Clearance Part # J0010G - 19" Clearance

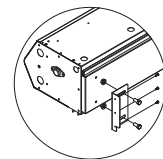
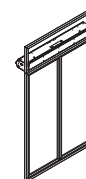
Part # J0009G - 16" Clearance Part # J0011G - 23" Clearance



Transom Mounting Bracket

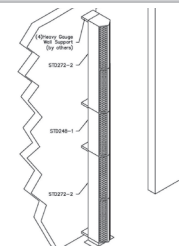
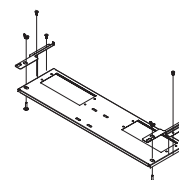
Used when an air curtain needs to be mounted to a window above a door

Part # J0041



Vertical Mounting Kit

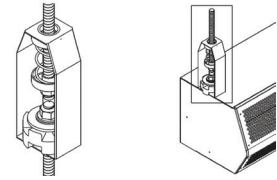
Used when the air curtain needs to be mounted along the side of the door
Consult factory for more information



 Recommended

Isolation & Dampening Hardware – Consult Factory

Vibration isolation hangers are used to isolate both vibration and noise on air curtains that are suspended from a ceiling



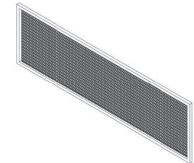
FILTERS

Used to capture large particulates in the installation space. Expanded Aluminum filters are used when washable or reusable filters are required. Paper filters are used when throw away or disposable filters are required.

Note: Additional materials and filter construction are available.

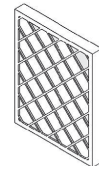
1/4", 1/2" 1" & 2" Aluminum Mesh

Washable expanded aluminum. Contact factory for filter part numbers.



1/2", 1" & 2" Paper

Throw away pleated filters require an externally mounted filter frame. Contact factory for frame and filter kit part numbers.



CUSTOM MATERIALS, COATINGS, FINISHES & COLORS

Colors

Standard color choices by Series (see Series Overview — Pages 4–7). Special or Custom Colors — Consult Factory.

Materials

Stainless steel, aluminum and other materials available. Contact the factory for other materials.

Finishes

Brushed, grained or anodized aluminum. Brushed, grained or polished stainless steel. Heresite anti-corrosion coating.

SPECIALTY CONSTRUCTION

Hazardous Environments / Explosion Proof

Class 1, Division 1, Group D, NEMA 12

Designed for use in applications where combustible gases or dust particles are present. Typical installation include flour, grain, and lumber mills as well as various gas production facilities. The housing, components, motor(s), and blower wheels are designed and constructed of materials to reduce or contain electrical sparks that can ignite combustion of these elements

Washdown / Corrosion Resistant

Brushed aluminum, anodized aluminum, brushed 304 SS, brushed 316 SS, IP56, NEMA 3R, 4, 4X

Designed for use in applications where caustic conditions exist. Typical installations include exposure to salt water or air, brining operations such as tomato and pickle food processing plants, or operations that require the air curtains to be hosed off directly with water. The housing, components, motor(s) and blower wheels are designed and constructed of materials that will not corrode.

Prison Package / Tamper Proof

Designed for use in applications where security of personnel is critical. Typical installation includes prisons and correctional facilities. The housing and any surface mounted components cannot be disassembled without a special tool (included with unit).



VALUES STATEMENT

At Mars Air Systems, our commitment is to:

Be Honest: Our interactions are genuine, heart-felt and sincere. We respect each other's opinions and views, which fosters open dialog, creativity, and trust.

Be Passionate: We engage fully, in work and in life. We work with integrity, loyalty and dedication. We live life with a commitment to family, friends, community, self, and play.

Be Bold: The Company grows when our team members grow. We challenge each other to try new things and learn from our successes and mistakes.

Be Team: We share a common vision and embrace a common work ethic. We treat each other with humility and respect. We continually recognize the contributions of others and share the credit for our successes.

Perfect the Customer Experience: We continually challenge ourselves to improve, automate, innovate, and perfect the personal experience.

Give Back: We give back to the earth through product design that contributes to our planet's sustainability. The Mars team gives back to the communities in which they work, live and play.

ADDITIONAL INFORMATION

For info on how quickly our units pay for themselves in energy savings, visit:

marsair.com/ROI

For a demonstration of how air curtains work, see our CFD slides at:

marsair.com/CFD

For help selecting the right unit for your application, go to:

marsair.com/configurator

For submittal information, specifications, and manuals, download:

marsair.com/techinfo

See how air curtains work:

marsair.com/introvideo

