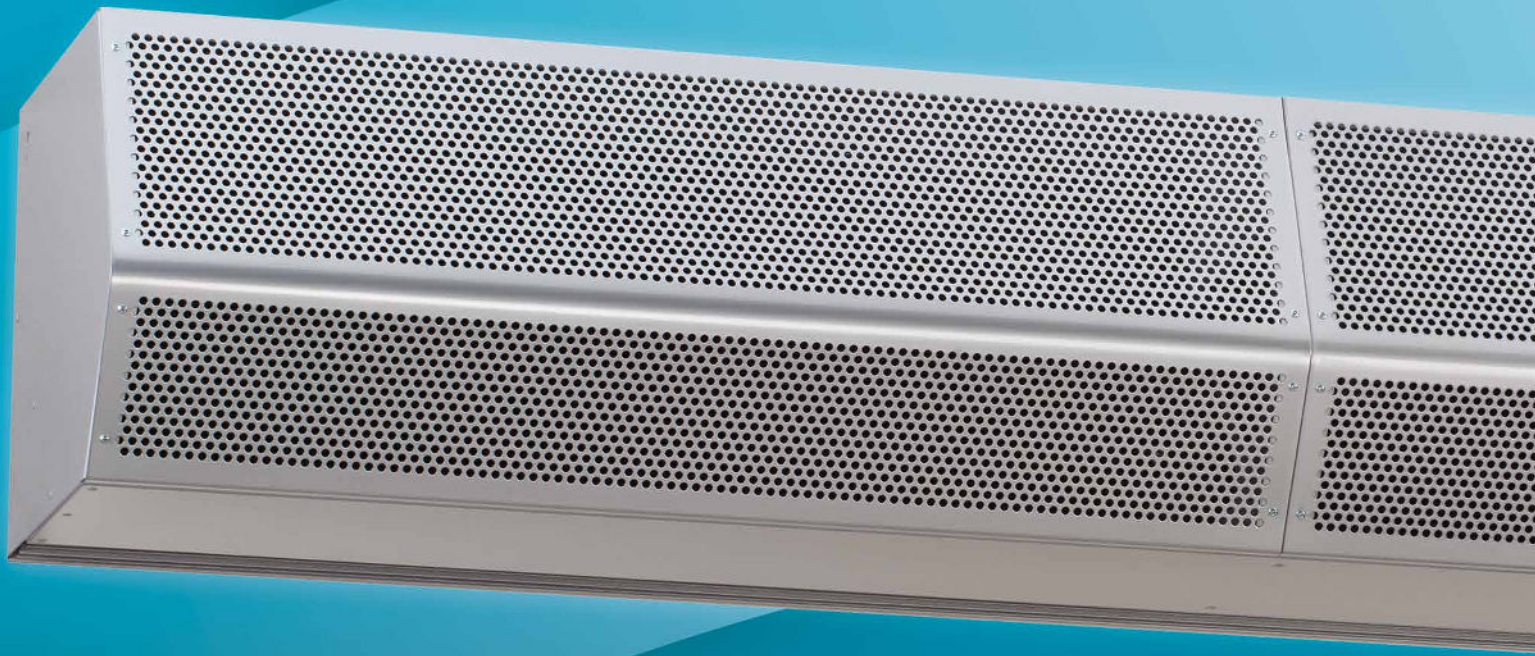




The most cost-effective
environmental & sanitation
barriers you'll never see



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.



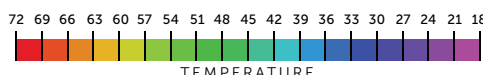
Open Door Air Curtain OFF

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

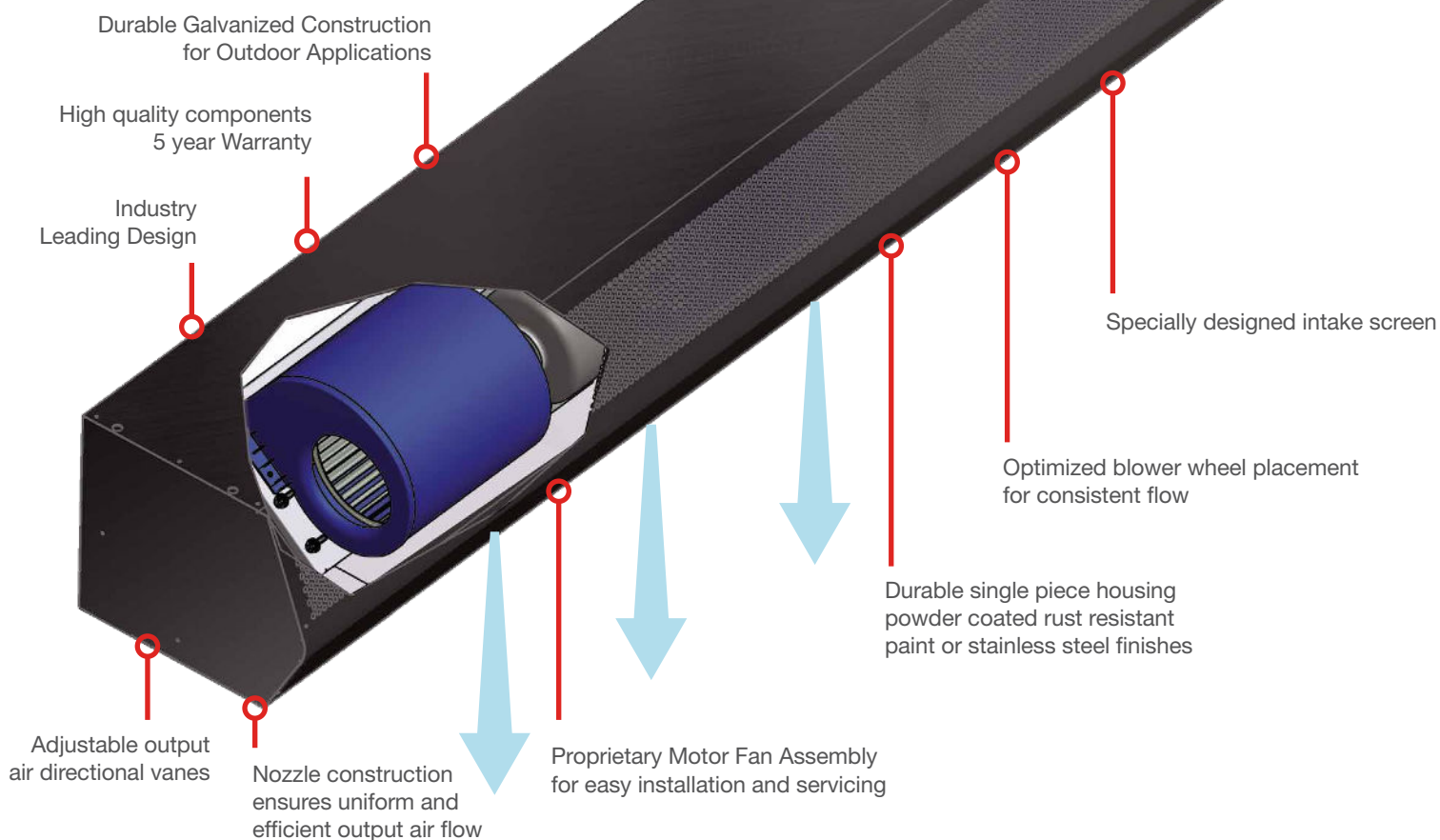
Whether you are an Architect, Engineer or Consultant looking to specify matching equipment or you are an owner-operator wanting to ensure that the equipment that you are installing or replacing will perform flawlessly, using Mars brand custom accessories & controls is the best way to make sure the components 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 go to
marsair.com/industry_professionals
or contact Mars Air Systems directly

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.



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
- Freight allowed within continental US

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	3 Phase 460V			
LPV2 LPN2*											
LPV2 25	25"	5'	1800	625	2.4	1.2/1.2	-	-	1 @ 1/6	49	20
LPV2 36	36"	7'-8'	1800	900	2.4	1.2/1.2	-	-	1 @ 1/6	49	32
LPV2 42	42"	7'-8'	1800	1050	2.4	1.2/1.2	-	-	1 @ 1/6	50	35
LPV2 48	48"	7'-8'	1800	1200	2.4	1.2/1.2	-	-	1 @ 1/6	52	40
LPV2 60	60"	7'-8'	1800	1500	2.6	1.4/1.4	-	-	1 @ 1/6	53	48
LPV2 72	72"	7'-8'	1800	1800	2.6	1.4/1.4	-	-	1 @ 1/6	53	58
LPV2 84-2	84"	7'-8'	1800	2100	4.8	2.4/2.4	-	-	2 @ 1/6	53	75
LPV2 96-2	96"	7'-8'	1800	2400	4.8	2.4/2.4	-	-	2 @ 1/6	53	83
LPV2 108-2	108"	7'-8'	1800	2700	5	2.6/2.6	-	-	2 @ 1/6	54	92
LPV2 120-2	120"	7'-8'	1800	3000	5.2	2.8/2.8	-	-	2 @ 1/6	54	102
LPV2 144-2	144"	7'-8'	1800	3600	5.2	2.8/2.8	-	-	2 @ 1/6	54	122

Standard 2



- Installation heights
Flying insect control up to 8'
(Customer Entrances/Small Receiving Doors)
Temperature control up to 10'
- Proprietary motor fan assembly for easy installation & maintenance
- Low profile design
- Heat options available – electric, steam, hot water
- Standard color – Obsidian Black
- Freight allowed within continental US

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	3 Phase					
					115V	208V 230V	208V 230V	460V			
STD2											
STD2 36	36"	8'-10'	3400	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	60
STD2 42	42"	8'-10'	2925	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	65
STD2 48	48"	8'-10'	2550	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	70
STD2 60 - 2	60"	8'-10'	2550	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	75
STD2 64-2	64"	8'-10'	3825	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	110
STD2 72-2	72"	8'-10'	3475	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	120
STD2 78-2	78"	8'-10'	3200	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	123
STD2 84-2	84"	8'-10'	2925	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	125
STD2 96-2	96"	8'-10'	2550	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	135
STD2 96-3	96"	8'-10'	3825	7650	15.3	7.5/7.5	5.4/4.8	2.4	3 @ 1/2	71	165
STD2 108-2	96"	8'-10'	2550	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	145
STD2 108-3	108"	8'-10'	3400	7650	15.3	7.5/7.5	5.4/4.8	2.4	3 @ 1/2	71	175
STD2 120-3	120"	8'-10'	3060	7650	15.3	7.5/7.5	5.4/4.8	2.4	3 @ 1/2	71	185
STD2 144-3	144"	8'-10'	2550	7650	15.3	7.5/7.5	5.4/4.8	2.4	3 @ 1/2	73	200
STD2 144-4	144"	8'-10'	3400	10,200	20.4	10.0/10.0	7.2/6.4	3.2	4 @ 1/2	73	235

Phantom



- Installation heights
PH10 Temperature control up to 10'
PH12 Temperature control up to 12'
- 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
- Freight allowed within continental US

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	3 Phase 208V 230V	460V			
PHANTOM 10											
PH10 36	36"	8'-10'	3400	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	60
PH10 42	42"	8'-10'	2925	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	60
PH10 48	48"	8'-10'	2550	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	65
PH10 60-2	60"	8'-10'	3825	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	100
PH10 64-2	64"	8'-10'	3825	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	100
PH10 72-2	72"	8'-10'	3475	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	105
PH10 84-2	84"	8'-10'	2925	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	125
PH10 96-2	96"	8'-10'	2550	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	130
PH10 108-3	108"	8'-10'	3400	7650	15.3	7.5/7.5	5.4/4.8	2.4	3 @ 1/2	71	170
PH10 120-4	120"	8'-10'	3825	10200	20.4	10.0/10.0	7.2/6.4	3.2	4 @ 1/2	73	200
PH10 144-4	144"	8'-10'	3400	10200	20.4	10.0/10.0	7.2/6.4	3.2	4 @ 1/2	73	210
PHANTOM 12											
PH12 42	42"	10'-12'	4570	4000	9	5.0/5.0	3.3/3.2	1.6	1 @ 1	70	90
PH12 48	48"	10'-12'	4000	4000	9	5.0/5.0	3.3/3.2	1.6	1 @ 1	70	90
PH12 60-2	60"	10'-12'	3200	4000	9	5.0/5.0	3.3/3.2	1.6	1 @ 1	70	95
PH12 72-2	72"	10'-12'	5140	8000	18	10.0/10.0	6.6/6.4	3.2	2 @ 1	73	155
PH12 84-2	84"	10'-12'	4570	8000	18	10.0/10.0	6.6/6.4	3.2	2 @ 1	73	175
PH12 96-2	96"	10'-12'	4000	8000	18	10.0/10.0	6.6/6.4	3.2	2 @ 1	73	180
PH12 108-3	108"	10'-12'	4000	8000	18	10.0/10.0	6.6/6.4	3.2	2 @ 1	73	185
PH12 120-4	120"	10'-12'	3200	8000	18	10.0/10.0	6.6/6.4	3.2	2 @ 1	73	190
PH12 144-4	144"	10'-12'	5140	16000	36	20.0/20.0	13.2/12.8	6.4	4 @ 1	75	270

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.



ETL Sanitation



- ETL sanitation certified to ANSI/NSF 37 standards
- Installation heights
Flying Insect control LPN2 up to 7'
N2 & NH2 up to 7'
- Designed for pass through/drive-up windows and concession stand counters
- Designed for front or back doors
- Easy to install and maintain
- Standard color – LPN & N2 – Obsidian Black
NH2 – Titanium Silver
- Freight allowed within continental US

LPN 2

- Installation heights
Pass through/drive-up/up to 5'
Customer entrances up to 7'
- Washable aluminum mesh filter – Optional
- Heat options – not available
- Standard color – Obsidian Black
- Freight allowed within continental US

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	3 Phase 460V			
LPN											
LPN225 Drive-Up	25"	5'	1800	625	2.4	1.2/1.2	-	-	1 @ 1/6	49	20
LPN2 36	36"	7'	1800	900	2.4	1.2/1.2	-	-	1 @ 1/6	49	32
LPN2 42	42"	7'	1800	1050	2.4	1.2/1.2	-	-	1 @ 1/6	50	35
LPN2 48	48"	7'	1800	1200	2.4	1.2/1.2	-	-	1 @ 1/6	52	40
LPN2 60	60"	7'	1800	1500	2.6	1.4/1.4	-	-	1 @ 1/6	53	48
LPN2 72	72"	7'	1800	1800	2.6	1.4/1.4	-	-	1 @ 1/6	53	58
LPV2 84-2	84"	7'	1800	2100	4.8	2.4/2.4	-	-	2 @ 1/6	53	75
LPV2 96-2	96"	7'	1800	2400	4.8	2.4/2.4	-	-	2 @ 1/6	53	83
LPV2 108-2	108"	7'	1800	2700	5	2.6/2.6	-	-	2 @ 1/6	54	92
LPV2 120-2	120"	7'	1800	3000	5.2	2.8/2.8	-	-	2 @ 1/6	54	102
LPV2 144-2	144"	7'	1800	3600	5.2	2.8/2.8	-	-	2 @ 1/6	54	122

N 2

- Installation heights
Customer entrances up to 7'
- Washable aluminum mesh filter – Optional
- Heat options – not available
- Standard color – Obsidian Black
- Freight allowed within continental US

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		3 Phase				
					115V	208V 230V	208V 230V	460V			
N											
N2 36	36"	7'	3400	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	60
N2 42	42"	7'	2925	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	65
N2 48	48"	7'	2550	2550	5.1	2.5/2.5	1.8/1.6	0.8	1 @ 1/2	66	70
N2 72-2	72"	7'	3475	5100	10.2	5.0/5.0	3.6/3.2	1.6	2 @ 1/2	68	120

NH 2

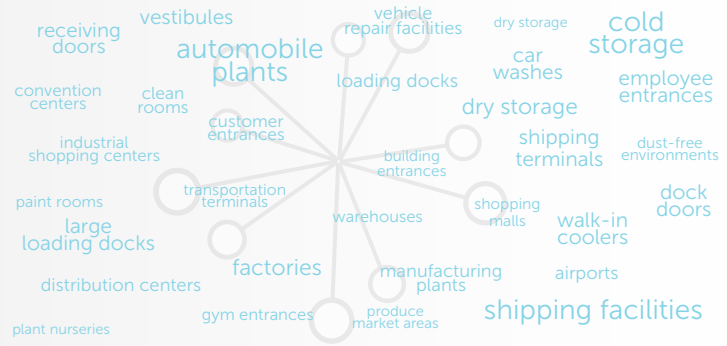
- Installation heights
Receiving doors up to 8'
- Washable aluminum mesh filter – Optional
- Heat options – not available
- Standard color – Titanium Silver
- Freight allowed within continental US

Model	Door Width Inches	Door Height Feet	Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	1 Phase	FULL LOAD AMPS			Motor Horse Power	dBA Sound Pressure Level	Net Wt. LBS. Unheated
					115V	208V 230V	208V 230V	3 Phase 460V			
					NH						
NH2 36	36"	7'	5140	4000	9	5.0/5.0	3.3/3.2	1.6	1 @ 1	70	115
NH2 42	42"	7'	4570	4000	9.0	5.0/5.0	3.3/3.2	1.6	1 @ 1	70	120
NH2 48	48"	7'	4000	4000	9.0	5.0/5.0	3.3/3.2	1.6	1 @ 1	70	125

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.



High Velocity 2



- Installation heights
Flying insect control up to 10'
Temperature control up to 12'
- 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	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	208V 230V	208V 230V	3 Phase			
					115V			460V			
HV2											
HV2 36	36"	10'-12'	5140	4000	9.0	5.0/5.0	3.3/3.2	1.6	1@1	70	115
HV2 42	42"	10'-12'	4570	4000	9.0	5.0/5.0	3.3/3.2	1.6	1@1	70	120
HV2 48	48"	10'-12'	4000	4000	9.0	5.0/5.0	3.3/3.2	1.6	1@1	70	125
HV2 60	60"	10'-12'	3200	4000	9.0	5.0/5.0	3.3/3.2	1.6	1@1	70	140
HV2 72-2	72"	10'-12'	5140	8000	18.0	10.0/10.0	6.6/6.4	3.2	2@1	73	220
HV2 84-2	84"	10'-12'	4570	8000	18.0	10.0/10.0	6.6/6.4	3.2	2@1	73	235
HV2 96-2	96"	10'-12'	4000	8000	18.0	10.0/10.0	6.6/6.4	3.2	2@1	73	250
HV2 96-3	96"	10'-12'	5000	10000	27.0	15.0/15.0	9.9/9.6	4.8	3@1	75	320
HV2 108-2	108"	10'-12'	3550	8000	18.0	10.0/10.0	6.6/6.4	3.2	2@1	73	265
HV2 108-3	108"	10'-12'	5000	12000	27.0	15.0/15.0	9.9/9.6	4.8	3@1	75	330
HV2 120-2	120"	10'-12'	3200	8000	18.0	10.0/10.0	6.6/6.4	3.2	2@1	73	275
HV2 120-3	120"	10'-12'	4800	12000	27.0	15.0/15.0	9.9/9.6	4.8	3@1	75	345
HV2 144-3	144"	10'-12'	4000	12000	27.0	15.0/15.0	9.9/9.6	4.8	3@1	75	375
HV2 144-4	144"	10'-12'	5140	16000	36.0	20.0/20.0	13.2/12.8	6.4	4@1	75	440

Extra Power 2



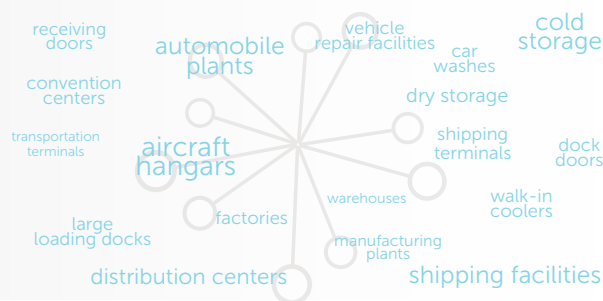
- Installation heights
flying insect control up to 14'
temperature control up to 16'
- Proprietary motor fan assembly for easy installation & maintenance
- Best value for large-sized warehouse doors
- Heat options available – steam, hot water, gas
- Standard color – Titanium Silver
- Freight allowed within continental US (except gas fired)

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	3 Phase 460V			
EP2											
EP2 48	48"	14'-16'	4800	4800	30.0	16.5/15.0	8.3/7.6	3.8	1 @ 3	76	145
EP2 60	60"	14'-16'	3840	4800	30.0	16.5/15.0	8.3/7.6	3.8	1 @ 3	76	155
EP2 72-2	72"	14'-16'	6100	9600	60.0	33.0/30.0	16.6/15.2	7.6	2 @ 3	79	150
EP2 84-2	84"	14'-16'	5485	9600	60.0	33.0/30.0	16.6/15.2	7.6	2 @ 3	79	335
EP2 96-2	96"	14'-16'	4800	9600	60.0	33.0/30.0	16.6/15.2	7.6	2 @ 3	79	340
EP2 108-2	108"	14'-16'	4200	9600	60.0	33.0/30.0	16.6/15.2	7.6	2 @ 3	79	350
EP2 108-3	108"	14'-16'	6222	14000	90.0	49.5/45.0	24.9/22.8	11.4	3 @ 3	81	425
EP2 120-2	120"	14'-16'	3840	9600	60.0	33.0/30.0	16.6/15.2	7.6	2 @ 3	79	365
EP2 120-3	120"	14'-16'	5760	1440	90.0	49.5/45.0	24.9/22.8	11.4	3 @ 3	81	440
EP2 144-3	144"	14'-16'	4800	1440	90.0	49.5/45.0	24.9/22.8	11.4	3 @ 3	81	465

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 Wind-guard 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 – WMI/WMH



- Installation heights temperature control 12' to 16' 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	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	3 Phase 460V			
WMI											
WMI 72	72"	12'-14'	5800	6711	-	-	13.0/11.0	5.9	1 @ 3	65	345
WMI 84-2	84"	12'-14'	7300	7933	-	-	17.2/15.6	7.8	2 @ 2	66	470
WMI 96-2	96"	12'-14'	5500	9154	-	-	17.2/15.6	7.8	2 @ 3	66	515
WMI 108-2	108"	12'-14'	4900	9314	-	-	26.0/22.0	11.8	2 @ 3	66	570
WMI 120-2	120"	12'-14'	5200	9474	-	-	26.0/22.0	11.8	2 @ 3	66	610
WMI 144-2	144"	12'-14'	5800	13422	-	-	26.0/22.0	11.8	2 @ 3	66	695
WMI 168-3	168"	12'-14'	4900	14211	-	-	39.0/33.0	17.7	3 @ 3	67	880
WMI 180-3	180"	12'-14'	7600	15060	-	-	39.0/33.0	17.7	3 @ 3	67	920
WMI 192-4	192"	12'-14'	5500	18308C	-	-	34.4/31.2	15.6	4 @ 2	68	1030
WMI 216-3	216"	12'-14'	7400	20133	-	-	39.0/33.0	17.7	3 @ 3	67	1075
WMH											
WMH 72	72"	14'-16'	7400	8511	-	-	na/21	10.5	1 @ 7	71	445
WMH 84-2	84"	14'-16'	7300	11950	-	-	38/31.6	15.8	2 @ 5	69	595
WMH 96-2	96"	14'-16'	9475	13190	-	-	38/31.6	15.8	2 @ 5	69	635
WMH 108-2	108"	14'-16'	6700	13230	-	-	38/31.6	15.8	2 @ 5	69	695
WMH 120-2	120"	14'-16'	7600	15670	-	-	38/31.6	15.8	2 @ 5	69	735
WMH 144-2	144"	14'-16'	7400	17022	-	-	na/42	21	2 @ 7	72	890
WMH 168-3	168"	14'-16'	6700	19845	-	-	57/47.4	23.7	3 @ 5	70	1060
WMH 180-3	180"	14'-16'	7600	23505	-	-	57/47.4	23.7	3 @ 5	70	1100
WMH 192-4	192"	14'-16'	9475	26380	-	-	79/63.2	31.6	4 @ 5	72	1275
WMH 216-3	216"	14'-16'	7400	25533	-	-	na/63	31.5	3 @ 7	72	1370

Windguard - BD



- Housing profile – 28" x 36"
- Installation heights temperature separation 12' to 30' 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	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	3 Phase 460V			
WINDGUARD											
BD14 96	96"	12' - 14"	3400	11700	-	-	14.2/13.0	6.5	1 @ 5	73	600
BD14 120	120"	12' - 14"	3400	14650	-	-	14.2/13.0	6.5	1 @ 5	73	700
BD14 144	144"	12' - 14"	3400	17600	-	-	21.6/20.0	10	1 @ 7.5	74	800
BD14 168	168"	12' - 14"	3400	20500	-	-	21.6/20.0	10	1 @ 7.5	74	900
BD14 192	192"	12' - 14"	3400	23450	-	-	28.0/26.0	13	1 @ 10	75	1000
BD18 96	96"	16' - 18'	4000	13800	-	-	21.6/20.0	10	1 @ 7½	74	650
BD18 120	120"	16' - 18'	4000	17255	-	-	21.6/20.0	10	1 @ 7½	75	750
BD18 144	144"	16' - 18'	4000	20700	-	-	28.0/26.0	13	1 @ 10	75	850
BD18 168	168"	16' - 18'	4000	24100	-	-	28.0/26.0	13	1 @ 10	76	950
BD18 192	192"	16' - 18'	4000	27600	-	-	42.0/40.0	20	1 @ 15	76	1050
BD22 96	96"	20' - 22'	4700	16250	-	-	28.0/26.0	13	1 @ 10	75	700
BD22 120	120"	20' - 22'	4700	20300	-	-	42.0/40.0	20	1 @ 15	76	800
BD22 144	144"	20' - 22'	4700	24350	-	-	42.0/40.0	20	1 @ 15	76	900
BD22 168	168"	20' - 22'	4700	28400	-	-	55.0/51.0	25.5	1 @ 20	77	1000
BD22 192	192"	20' - 22'	4700	32500	-	-	55.0/51.0	25.5	1 @ 20	77	1100
BD26 96	96"	24' - 26'	5400	18700	-	-	42.0/40.0	20	1 @ 15	76	1150
BD26 120	120"	24' - 26'	5400	23400	-	-	55.0/51.0	25.5	1 @ 20	77	750
BD26 144	144"	24' - 26'	5400	29200	-	-	65.0/60.0	30	1 @ 25	78	850
BD26 168	168"	24' - 26'	5400	32700	-	-	65.0/60.0	30	1 @ 25	78	950
BD26 192	192"	24' - 26'	5400	37400	-	-	78.0/71.0	35.5	1 @ 30	79	1050
BD30 96	96"	28' - 30'	5600	19200	-	-	55.0/51.0	25.5	1 @ 20	77	800
BD30 120	120"	28' - 30'	5600	24900	-	-	65.0/60.0	30	1 @ 25	78	900
BD30 144	144"	28' - 30'	5600	30300	-	-	78.0/71.0	35.5	1 @ 30	79	1000
BD30 168	168"	28' - 30'	5600	33000	-	-	78.0/71.0	35.5	1 @ 30	79	1100
BD30 192-2	192"	28' - 30'	5600	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.

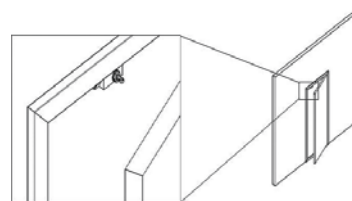
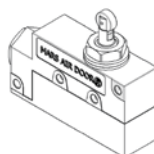
Note: An optional motor control panel or controller will be required if the total field conditions exceed ANY of the specified voltage, phase, amp or HP parameters as referenced below when a wired mechanical door limit switch is used

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



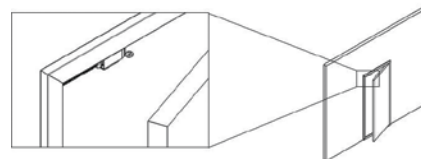
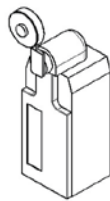
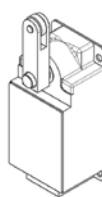
Roller Type

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

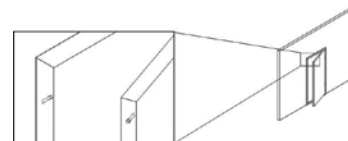
Door limit switches turn the air curtain on when the door opens and off when the door closes.

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.

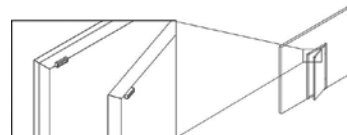
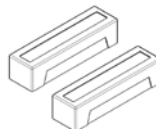
Part # 99-275 – 24 Volts, 1/2 Amp, NC/NO, Wired, NEMA 1



Commercial Plastic Surface Mounted

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

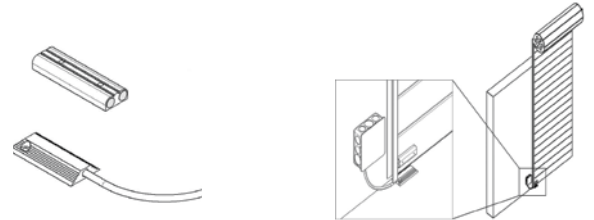
Part # 99-018 – 24 Volts, 1/2 Amp, NC/NO, Wired, NEMA 1



Industrial Aluminum Floor Mounted

Ideal Use: Roll-up doors with fork lift traffic.

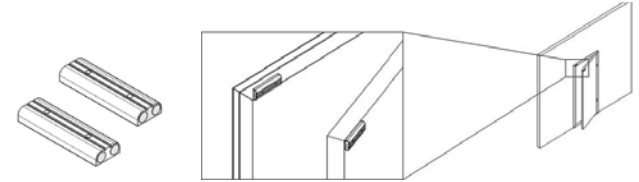
Part # 99-124 – 24 to 120 Volts, 3 Amps, NC/NO, Wired, NEMA 1



Industrial Aluminum Surface Mounted

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

Part # 99-125 – 24 to 120 Volts, 3 Amps, NC/NO, Wired, NEMA 1



Wireless

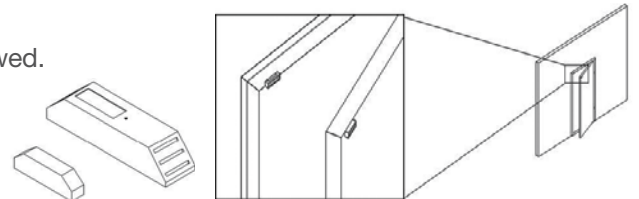
Door limit switches turn the air curtain on when the door opens and off when the door closes.

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

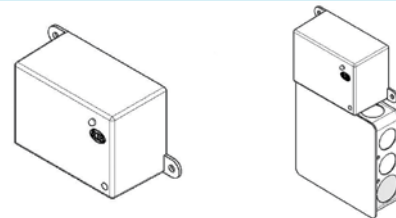
Solid state controllers are required when there is a need to adjust or delay the turn-off time of the air curtain and/or the speed.

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

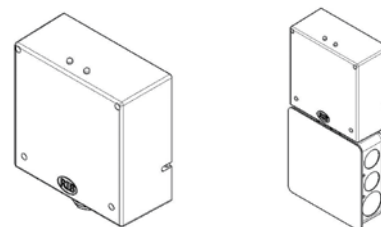
Part # 99-053 – ½ HP, 208/230 Volts, ½ Amp, NC/NO, NEMA 1



Controller with Adjustable Time Delay

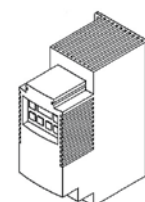
Part # 99-050 – ½ HP, 120 Volts, ½ Amps, NC/NO, 5–600 sec Time Delay, NEMA 1

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



Variable Frequency Drives (VFD)

Used when variable speed is desired on 3 phase motors and compatible with most 3 phase motors. For information and additional capabilities – Consult Factory



MOTOR CONTROL PANELS

Unheated, Electric, Steam, Hot Water, Indirect Fired Gas, Direct 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. Contact factory for details.

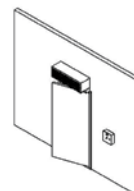
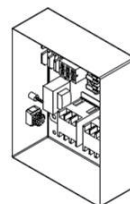
NEMA 1 (IP 10) Panel

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.



MOUNTING HARDWARE

Adjustable Mounting Brackets

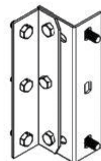
Used when an air curtain needs to be mounted slightly away from mounting wall surface.

Part # J0004 - 2 1/2" Clearance

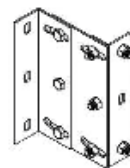
Part # J0005 - 4" Clearance

Part # J0006 - 7" Clearance

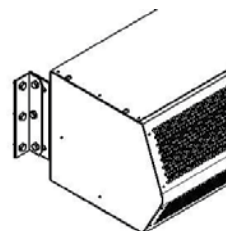
Part # J0007 - 10" Clearance



Part # 98-227



Part # 98-291/292/302



Side Extension Plates

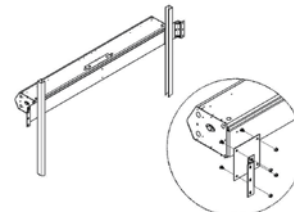
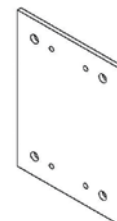
Used when an air curtain needs to have its mounting holes extended beyond the width of its housing.

Note: Often used in conjunction with adjustable mounting brackets

Part # J0016 - 5" Clearance

Part # J0017 - 7" Clearance

Part # J0018 - 9" Clearance



Extended Wall Mounting Brackets

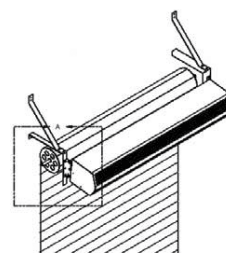
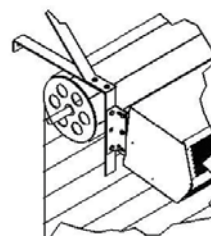
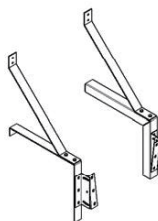
Used when an air curtain needs to clear larger obstructions above a door opening, such as roll up doors

Part # J0008G - 10" Clearance

Part # J0009G - 16" Clearance

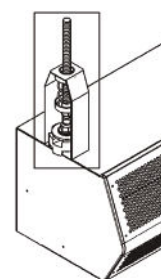
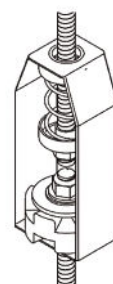
Part # J0010G - 19" Clearance

Part # J0011G - 23" Clearance



Isolation & Dampening Hardware – Consult Factory

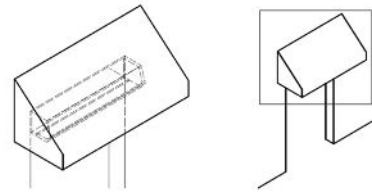
Vibration isolation hangers are used to isolate both vibration and noise on air curtains that are suspended from a ceiling



Recommended

Harsh Weather Cover

The protective cover is used to protect an air curtain from inclement weather such as rain, snow, and hail. The cover can be made from a select number of non-corrosive materials.



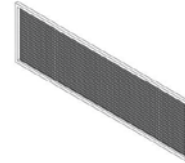
FILTERS

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.

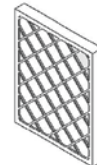
1/4", 1/2" 1" & 2" Aluminum Mesh

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



atmosphere is everything

