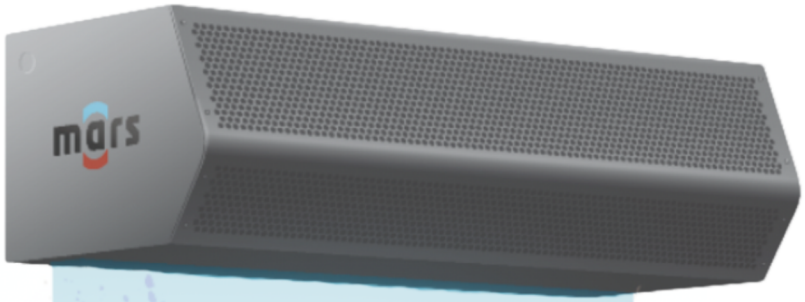
mars Air Systems

Air Curtain Product Catalog 2026

Commercial • Industrial • Specialty



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Pass-Thru/Concession, Commercial Entry, Dock & Receiving Doors

Sanitation Certified

Architectural Entry Doors

Industrial Dock Doors

Clean Air Series

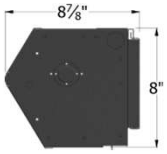
Specialty Applications

Accessories

Pass-Thru/Concession & Commercial Entry

KEY FEATURES

- **ETL listed to UL 507 (US) and CSA 22.2 (Canada)**
  - ° Certified to ANSI/NSF 37 (LPN2 only)
- **Ultra low-profile design**
- **Variable speed control (LPV2 only)**
- **Overhead or wall mounting**
- **Power coated Obsidian Black**
- **Freight is allowed in continental US**



LoPro 2 Series: LPV2 (Up to 8')

Temperature Control for Commercial, Office, and Retail Applications

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 1 Phase		# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			115V (A)	208/230V (D)			
LPV225-1U*-OB	25	5	8	8 7/8	1800	625	2.4	1.2/1.2	1	1/6	20
LPV236-1U*-OB	36	8	8	8 7/8	1800	900	2.4	1.2/1.2	1	1/6	32
LPV242-1U*-OB	42	8	8	8 7/8	1800	1050	2.4	1.2/1.2	1	1/6	35
LPV248-1U*-OB	48	8	8	8 7/8	1800	1200	2.4	1.2/1.2	1	1/6	40
LPV260-1U*-OB	60	8	8	8 7/8	1800	1500	2.6	1.4/1.4	1	1/6	48
LPV272-1U*-OB	72	8	8	8 7/8	1800	1800	2.6	1.4/1.4	1	1/6	58
LPV284-2U*-OB	84	8	8	8 7/8	1800	2100	4.8	2.4/2.4	2	1/6	75
LPV296-2U*-OB	96	8	8	8 7/8	1800	2400	4.8	2.4/2.4	2	1/6	83
LPV2108-2U*-OB	108	8	8	8 7/8	1800	2700	5	2.6/2.6	2	1/6	92
LPV2120-2U*-OB	120	8	8	8 7/8	1800	3000	5.2	2.8/2.8	2	1/6	102
LPV2144-2U*-OB	144	8	8	8 7/8	1800	3600	5.2	2.8/2.8	2	1/6	122

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with 17% reduction in the performance data.

ETL listed to UL 507 (US) and CSA C22.2 (Canada)

Sanitation

Sanitation Series: LPN2 (Up to 7')

Flying Insect Control for Restaurant, Food Retail, and Food Preparation Applications

LPN225-1U*-OB	25	5	8	8 7/8	1800	625	2.4	1.2/1.2	1	1/6	20
LPN236-1U*-OB	36	7	8	8 7/8	1800	900	2.4	1.2/1.2	1	1/6	32
LPN242-1U*-OB	42	7	8	8 7/8	1800	1050	2.4	1.2/1.2	1	1/6	35
LPN248-1U*-OB	48	7	8	8 7/8	1800	1200	2.4	1.2/1.2	1	1/6	40
LPN260-1U*-OB	60	7	8	8 7/8	1800	1500	2.6	1.4/1.4	1	1/6	48
LPN272-1U*-OB	72	7	8	8 7/8	1800	1800	2.6	1.4/1.4	1	1/6	58
LPN284-2U*-OB	84	7	8	8 7/8	1800	2100	4.8	2.4/2.4	2	1/6	75
LPN296-2U*-OB	96	7	8	8 7/8	1800	2400	4.8	2.4/2.4	2	1/6	83
LPN2108-2U*-OB	108	7	8	8 7/8	1800	2700	5	2.6/2.6	2	1/6	92
LPN2120-2U*-OB	120	7	8	8 7/8	1800	3000	5.2	2.8/2.8	2	1/6	102
LPN2144-2U*-OB	144	7	8	8 7/8	1800	3600	5.2	2.8/2.8	2	1/6	122

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with 17% reduction in the performance data.

ETL listed to UL 507 (US) and CSA C22.2 (Canada); certified to ANSI/NSF 37 (LPN2 only)

NOTES

- **Alternate voltage codes with FLA (Full Load Amp) data:**
  - ° 220V/1Ø/50Hz (U) – 0.9A per motor
- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - ° 25"-36" = 49 dBA
  - ° 42" = 50 dBA
  - ° 48" = 52 dBA
  - ° 60"-96" = 53 dBA
  - ° 108"-144" = 54 dBA

Intertek LPN2 Models Only

Intertek

MARS RECOMMENDED ACCESSORIES

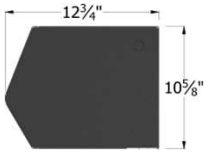
Please note the following represent the most commonly selected accessory in each respective category

- Controls
  - ° J0021, Commercial low voltage controller, 115V, 1Ø, adjustable time delay, with commercial plastic surface mounted door limit switch (field installed)
  - ° J0022, Commercial low voltage controller, 208-277V, 1Ø, adjustable time delay, with commercial plastic surface mounted door limit switch (field installed)
- Mounting brackets
  - ° B0042, Transom mounting bracket set
- Filters
  - ° J05++, 1/4" aluminum pressed flat bank filters (++ = Model length. Refer to table above, LPV2 only)
- Door limit switches
  - ° 99-014, Combination mechanical switch
- Available heat types (LPV2 only)
  - ° Electric, hot water, and steam

Pass-Thru/Concession & Commercial Entry

KEY FEATURES

- **AMCA 211 certified and ETL listed to UL 507 (US) and CSA 22.2 (Canada)**
  - Certified to ANSI/NSF 37 (N2 only)
- **Low-profile design**
- **Overhead or wall mounting**
- **Power coated Obsidian Black**
- **Freight is allowed in continental US (except hot water, steam heated)**



Standard 2 Series: STD2 (8'-12')

Temperature Control for Commercial, Office, and Retail Applications

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 1 Phase		Full Load Amps (Total FLA) 3 Phase			# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			115V (A)	208/230V (D)	208/230V (G)	460V (H)	575V (I)			
STD236-1U*-OB	36	8-12	10 5/8	12 3/4	5960	1379	5.1	2.5/2.5	1.8/1.6	0.8	0.7	1	1/2	60
STD240-1U*-OB †	40	8-12	10 5/8	12 3/4	4660	1447	5.1	2.5/2.5	1.8/1.6	0.8	0.7	1	1/2	65
STD242-1U*-OB	42	8-12	10 5/8	12 3/4	4865	1418	5.1	2.5/2.5	1.8/1.6	0.8	0.7	1	1/2	65
STD248-1U*-OB	48	8-12	10 5/8	12 3/4	4247	1442	5.1	2.5/2.5	1.8/1.6	0.8	0.7	1	1/2	70
STD272-2U*-OB	72	8-12	10 5/8	12 3/4	5960	2758	10.2	5.0/5.0	3.6/3.2	1.6	1.4	2	1/2	120
STD284-2U*-OB	84	8-12	10 5/8	12 3/4	4865	2836	10.2	5.0/5.0	3.6/3.2	1.6	1.4	2	1/2	125
STD296-2U*-OB	96	8-12	10 5/8	12 3/4	4247	2884	10.2	5.0/5.0	3.6/3.2	1.6	1.4	2	1/2	135
STD2108-3U*-OB	108	8-12	10 5/8	12 3/4	5960	4137	15.3	7.5/7.5	5.4/4.8	2.4	2.1	3	1/2	175
STD2120-3U*-OB	120	8-12	10 5/8	12 3/4	4660	4341	15.3	7.5/7.5	5.4/5.8	2.4	2.1	3	1/2	185
STD2144-3U*-OB	144	8-12	10 5/8	12 3/4	4247	4326	15.3	7.5/7.5	5.4/4.8	2.4	2.1	3	1/2	200
The following model is not licensed to bear the AMCA seal														
STD260-2U*-OB	60	8-12	10 5/8	12 3/4	6000	2743	10.2	5.0/5.0	3.6/3.2	1.6	1.4	2	1/2	90

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with 17% reduction in the performance data.

- *The AMCA Certified Ratings Seal applies to airflow rate, average velocity uniformity, velocity projection, and power rating at free delivery only.*

† *Limited availability, long lead times may apply.*

ETL listed to UL 507 (US) and CSA C22.2 (Canada)

Sanitation

Sanitation Series: N2 (Up to 7')

Flying Insect Control for Restaurant, Food Retail, and Food Preparation Applications

N236-1U*-OB	36	7	10 5/8	12 3/4	5960	1379	5.1	2.5/2.5	1.8/1.6	0.8	0.7	1	1/2	60
N242-1U*-OB	42	7	10 5/8	12 3/4	4865	1418	5.1	2.5/2.5	1.8/1.6	0.8	0.7	1	1/2	65
N248-1U*-OB	48	7	10 5/8	12 3/4	4247	1442	5.1	2.5/2.5	1.8/1.6	0.8	0.7	1	1/2	70
N272-2U*-OB	72	7	10 5/8	12 3/4	5960	2758	10.2	5.0/5.0	3.6/3.2	1.6	1.4	2	1/2	120
N284-2U*-OB	84	7	10 5/8	12 3/4	4865	2836	10.2	5.0/5.0	3.6/3.2	1.6	1.4	2	1/2	125
N296-2U*-OB	96	7	10 5/8	12 3/4	4247	2884	10.2	5.0/5.0	3.6/3.2	1.6	1.4	2	1/2	135
N2108-3U*-OB	108	7	10 5/8	12 3/4	5960	4137	15.3	7.5/7.5	5.4/4.8	2.4	2.1	3	1/2	175
N2120-3U*-OB	120	7	10 5/8	12 3/4	4660	4341	15.3	7.5/7.5	5.4/4.8	2.4	2.1	3	1/2	185
N2144-3U*-OB	144	7	10 5/8	12 3/4	4247	4326	15.3	7.5/7.5	5.4/4.8	2.4	2.1	3	1/2	200
The following model is not licensed to bear the AMCA seal														
N260-2U*-OB	60	7	10 5/8	12 3/4	6000	2743	10.2	5.0/5.0	3.6/3.2	1.6	1.4	2	1/2	90

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with 17% reduction in the performance data.

- *The AMCA Certified Ratings Seal applies to airflow rate, average velocity uniformity, velocity projection, and power rating at free delivery only.*

† *Limited availability, long lead times may apply.*

ETL listed to UL 507 (US) and CSA C22.2 (Canada); certified to ANSI/NSF 37 (N2 only)

NOTES

- **Alternate voltage codes with FLA (Full Load Amp) data:**
  - 277V/1Ø/60Hz (L) – 2.7A per motor
  - 220V/1Ø/50Hz (U) – 2.5A per motor
  - 380-415V/3Ø/50Hz (W) – 1.1A per motor
- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - 1 motor unit = 66 dBA
  - 2 motor unit = 68 dBA
  - 3 motor unit = 71 dBA
  - 4 motor unit = 73 dBA

N2 Models Only

MARS RECOMMENDED ACCESSORIES

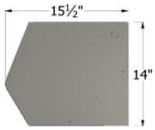
Please note the following represent the most commonly selected accessory in each respective category

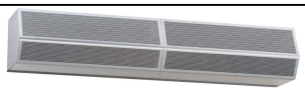
- Controls
  - MCPA-†U*, Control panel, 120V control voltage († = # of Motors, * = Voltage Code)
    - MCP-24V, Low voltage control option (panel required)
    - MCP-TD, Adjustable time delay
  - INS-CTRL, Unit mounted 24v controller, unheated, up to 600v, 4 motor max
  - SK-UU, SimpleLink, 115V-230V, 1PH, 2Mtr & 1HP max, Integral Control, Nema 1
- Mounting brackets
  - B0004, Adjustable mounting bracket set, 3½" clearance
  - B0005, Adjustable mounting bracket set, 7"-13" clearance
  - B0041, Transom mounting bracket set
- Filters (STD2 only)
  - J21++-†, 1/4" aluminum pressed flat bank filters (++ = Model length, †= # of Motors) (refer to table above)
- Door limit switches
  - 99-014, Combination mechanical switch
  - 99-125, Industrial surface mounted magnetic switch
- Available heat types (STD2 only)
  - Electric, hot water, and steam

Pass-Thru/Concession & Commercial Entry

KEY FEATURES

- **AMCA 211 certified and ETL listed to UL 507 (US) and CSA 22.2 (Canada)**
  - Certified to ANSI/NSF 37 (NH2 only)
- **Low-profile design**
- **Overhead or wall mounting**
- **Power coated Titanium Silver**
- **Freight is allowed in continental US (except hot water, steam, gas fired)**





High Velocity 2 Series: HV2 (12'-14')

Temperature Control for Mid Size Dock Doors, and Receiving Door Applications

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 1 Phase		Full Load Amps (Total FLA) 3 Phase			# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			115V (A)	208/230V (D)	208/230V (G)	460V (H)	575V (I)			
HV236-1U*-TS	36	12-14	14	15 5/8	6000	2059	9	5	3.3/3.2	1.6	1.3	1	1	115
HV240-1U*-TS †	40	12-14	14	15 5/8	6060	2231	9	5	3.3/3.2	1.6	1.3	1	1	120
HV242-1U*-TS	42	12-14	14	15 5/8	6051	2322	9	5	3.3/3.2	1.6	1.3	1	1	120
HV248-1U*-TS	48	12-14	14	15 5/8	6144	2447	9	5	3.3/3.2	1.6	1.3	1	1	125
HV272-2U*-TS	72	12-14	14	15 5/8	6000	4118	18	10	6.6/6.4	3.2	2.6	2	1	220
HV284-2U*-TS	84	12-14	14	15 5/8	6051	4644	18	10	6.6/6.4	3.2	2.6	2	1	235
HV296-2U*-TS	96	12-14	14	15 5/8	6144	4894	18	10	6.6/6.4	3.2	2.6	2	1	250
HV2108-3U*-TS	108	12-14	14	15 5/8	6000	6177	27	15	9.9/9.6	4.8	3.9	3	1	330
HV2120-3U*-TS	120	12-14	14	15 5/8	6060	6693	27	15	9.9/9.6	4.8	3.9	3	1	345
HV2144-3U*-TS	144	12-14	14	15 5/8	6144	7340	27	15	9.9/9.6	4.8	3.9	3	1	375
The following model is not licensed to bear the AMCA seal														
HV260-2U*-TS	60	12-14	14	15 5/8	6100	2856	18	10	6.6/6.4	3.2	2.6	2	1	140

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

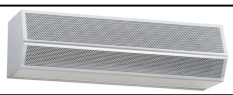
Note: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with 17% reduction in the performance data.

- *The AMCA Certified Ratings Seal applies to airflow rate, average velocity uniformity, velocity projection, and power rating at free delivery only.*

† *Limited availability, long lead times may apply.*

ETL listed to UL 507 (US) and CSA C22.2 (Canada)

Sanitation



Sanitation Series: NH2 (Up to 7')

Flying Insect Control for Restaurant, Food Retail, and Food Preparation Applications

NH236-1U*-TS	36	7	14	15 5/8	6000	2059	9	5	3.3/3.2	1.6	1.3	1	1	115
NH242-1U*-TS	42	7	14	15 5/8	6051	2322	9	5	3.3/3.2	1.6	1.3	1	1	120
NH248-1U*-TS	48	7	14	15 5/8	6144	2447	9	5	3.3/3.2	1.6	1.3	1	1	125
NH272-2U*-TS	72	7	14	15 5/8	6000	4118	18	10	6.6/6.4	3.2	2.6	2	1	220
NH284-2U*-TS	84	7	14	15 5/8	6051	4644	18	10	6.6/6.4	3.2	2.6	2	1	235
NH296-2U*-TS	96	7	14	15 5/8	6144	4894	18	10	6.6/6.4	3.2	2.6	2	1	250
NH2108-3U*-TS	108	7	14	15 5/8	6000	6177	27	15	9.9/9.6	4.8	3.9	3	1	330
NH2120-3U*-TS	120	7	14	15 5/8	6060	6693	27	15	9.9/9.6	4.8	3.9	3	1	345
NH2144-3U*-TS	144	7	14	15 5/8	6144	7341	27	15	9.9/9.6	4.8	3.9	3	1	375
The following model is not licensed to bear the AMCA seal														
NH260-2U*-TS	60	7	14	15 5/8	6025	3795	18	10	6.6/6.4	3.2	2.6	2	1	195

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with 17% reduction in the performance data.

- *The AMCA Certified Ratings Seal applies to airflow rate, average velocity uniformity, velocity projection, and power rating at free delivery only.*

† *Limited availability, long lead times may apply.*

ETL listed to UL 507 (US) and CSA C22.2 (Canada); certified to ANSI/NSF 37 (NH2 only)

NOTES

- **Alternate voltage codes with FLA (Full Load Amp) data:**
  - 277V/1Ø/60Hz (L) – 5.2A per motor
  - 220V/1Ø/50Hz (U) – 7.1A per motor
  - 380-415V/3Ø/50Hz (W) – 1.8A per motor
- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - 1 motor unit = 70 dBA
  - 2 motor unit = 73 dBA
  - 3-4 motor unit = 75 dBA

NH2 Models Only

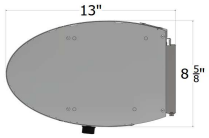
MARS RECOMMENDED ACCESSORIES

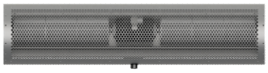
Please note the following represent the most commonly selected accessory in each respective category

- Controls
  - MCPB-†U*, Control panel, 120V control voltage († = # of Motors, * = Voltage Code)
    - MCP-24V, Low voltage control option (panel required)
    - MCP-TD, Adjustable time delay
    - BMS-303, BMS for monitoring and controlling (Motor control panel required with MCP-24V option)
  - INS-CTRL, Unit mounted 24v controller, unheated, up to 600v, 4 motor max
- Mounting brackets
  - B0005, Adjustable combination mounting bracket, 7", 9", 11", and 13" Clearance
  - B0008 to B0011, Extended wall mounting bracket, 10", 16", 19", 23" clearance respectively
- Door limit switches
  - 99-014, Combination mechanical switch
  - 99-125, Industrial surface mounted magnetic switch
- Available heat types (HV2 only)
  - Electric, hot water, steam, and indirect gas fired

KEY FEATURES

- **AMCA 211 certified and ETL listed to UL 507 (US) and CSA 22.2 (Canada)**
- **Sleek, aesthetic design**
- **Overhead or wall mounting**
- **Brushed aluminum finish**
- **Freight is allowed in continental US**





Quiet Pro 8 Series: QP8 (Up to 8')

Temperature Control for Commercial, Office, and Retail Applications

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 1 Phase		# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			115V (A)	208/230V (D)			
QP836-1U*-AL	36	8	8 5/8	13	1957	520	2.4	1.2/1.2	1	1/6	38
QP842-1U*-AL	42	8	8 5/8	13	2218	807	2.4	1.2/1.2	1	1/6	42
QP848-1U*-AL	48	8	8 5/8	13	2438	946	2.4	1.2/1.2	1	1/6	46
QP860-1U*-AL	60	8	8 5/8	13	2329	1250	2.6	1.4/1.4	1	1/6	55
QP872-1U*-AL	72	8	8 5/8	13	2476	1612	2.6	1.4/1.4	1	1/6	64
QP884-2U*-AL	84	8	8 5/8	13	2218	1614	4.8	2.4/2.4	2	1/6	84
QP896-2U*-AL	96	8	8 5/8	13	2438	1892	4.8	2.4/2.4	2	1/6	93
QP8108-2U*-AL	108	8	8 5/8	13	2438	2196	5	2.6/2.6	2	1/6	101
QP8120-2U*-AL	120	8	8 5/8	13	2329	2500	5.2	2.8/2.8	2	1/6	110
QP8144-2U*-AL	144	8	8 5/8	13	2476	3224	5.2	2.8/2.8	2	1/6	127

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 1550 RPM at 60 Hz, 50 Hz is 1300 RPM with 17% reduction in the performance data.

- *The AMCA Certified Ratings Seal applies to airflow rate, average velocity uniformity, velocity projection, and power rating at free delivery only.*

ETL listed to UL 507 (US) and CSA C22.2 (Canada)

NOTES

- **Alternate voltage codes with FLA (Full Load Amp) data:**
  - 220V/1Ø/50Hz (U) – 0.9A per motor
- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - 25"-36" = 47 dBA
  - 42" = 48 dBA
  - 48" = 50 dBA
  - 60"-96" = 51 dBA
  - 108"-144" = 52 dBA

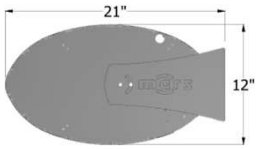
MARS RECOMMENDED ACCESSORIES

Please note the following represent the most commonly selected accessory in each respective category

- Controls
  - SK-UU, SimpleLink, 115V-230V, 1PH, 2Mtr & 1HP max, Integral Control, Nema 1
  - INS-TD, Adjustable time delay
- Mounting brackets
  - B0042, Transom mounting bracket set
- Filters
  - J21‡-†, ¼" aluminum pressed frame bank filters (‡ = Model Length, † = # of Motors)
- Available heat types
  - Electric, hot water, and steam

KEY FEATURES

- ETL listed to UL 507 (US) and CSA 22.2 (Canada)
- Sleek, aesthetic design
- Overhead or wall mounting
- Brushed aluminum finish
- Freight is allowed in continental US



Quiet Pro 10 Series: QP10 (Up to 12')

Temperature Control for Commercial, Office, and Retail Applications

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 1 Phase		Full Load Amps (Total FLA) 3 Phase		# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			115V (A)	208/230V (D)	208/230V (G)	460V (H)			
QP1036-1U*-AL	36	12	12	21	5960	1379	5.1	2.5/2.5	1.8/1.6	0.8	1	1/2	60
QP1042-1U*-AL	42	12	12	21	4865	1418	5.1	2.5/2.5	1.8/1.6	0.8	1	1/2	65
QP1048-1U*-AL	48	12	12	21	4247	1442	5.1	2.5/2.5	1.8/1.6	0.8	1	1/2	70
QP1072-2U*-AL	72	12	12	21	5960	2758	10.2	5.0/5.0	3.6/3.2	1.6	2	1/2	120
QP1084-2U*-AL	84	12	12	21	4865	2836	10.2	5.0/5.0	3.6/3.2	1.6	2	1/2	125
QP1096-2U*-AL	96	12	12	21	4247	2884	10.2	5.0/5.0	3.6/3.2	1.6	2	1/2	135
QP10108-3U*-AL	108	12	12	21	5960	4137	15.3	7.5/7.5	5.4/4.8	2.4	3	1/2	175
QP10120-3U*-AL	120	12	12	21	4660	4341	15.3	7.5/7.5	5.4/4.8	2.4	3	1/2	185
QP10144-3U*-AL	144	12	12	21	4247	4326	15.3	7.5/7.5	5.4/4.8	2.4	3	1/2	200

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with 17% reduction in the performance data.

ETL listed to UL 507 (US) and CSA C22.2 (Canada)

NOTES

- **Alternate voltage codes with FLA (Full Load Amp) data:**
  - 277V/1Ø/60Hz (L) – 2.7A per motor
  - 220V/1Ø/50Hz (U) – 2.5A per motor
  - 380-415V/3Ø/50Hz (W) – 1.1A per motor
- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - 1 motor unit = 53 dBA
  - 2 motor unit = 55 dBA
  - 3 motor unit = 57 dBA
  - 4 motor unit = 59 dBA

MARS RECOMMENDED ACCESSORIES

Please note the following represent the most commonly selected accessory in each respective category

- Controls
  - INS-CTRL, Unit mounted 24v controller, unheated, up to 600v, 4 motor max
  - MCPA-†U*, Control panel, 120V control voltage († = # of Motors, * = Voltage Code)
    - MCP-24V, Low voltage control option (panel required)
    - MCP-TD, Adjustable time delay
    - BMS-303, BMS for monitoring and controlling (Motor control panel required with MCP-24V option)
  - SK-UU, SimpleLink, 115V-230V, 1PH, 2Mtr & 1HP max, Integral Control, Nema 1
- Door limit switches
  - 99-018, Commercial, Plastic, Surface Mounted
  - 99-125, Industrial surface mounted magnetic switch
- Available heat types
  - Electric

KEY FEATURES

- **AMCA 211 certified and ETL listed to UL 507 (US) and CSA 22.2 (Canada)**
- **Recessed mounted in ceiling for invisible protection**
- **Overhead or wall mounting**
- **Powder coated Pearl White**
- **Freight is allowed in continental US**

Phantom 8 Series: PH8 (Up to 8')

Temperature Control for Commercial, Office, and Retail Applications

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 1 Phase		# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			115V (A)	208/230V (D)			
PH836-1U*-PW	36	8	7 3/4	17 1/4	1957	520	2.4	1.2/1.2	1	1/6	42
PH842-1U*-PW	42	8	7 3/4	17 1/4	2218	807	2.4	1.2/1.2	1	1/6	47
PH848-1U*-PW	48	8	7 3/4	17 1/4	2438	946	2.4	1.2/1.2	1	1/6	52
PH860-1U*-PW	60	8	7 3/4	17 1/4	2329	1250	2.6	1.4/1.4	1	1/6	62
PH872-1U*-PW	72	8	7 3/4	17 1/4	2476	1612	2.6	1.4/1.4	1	1/6	71
PH884-2U*-PW	84	8	7 3/4	17 1/4	2218	1614	4.8	2.4/2.4	2	1/6	94
PH896-2U*-PW	96	8	7 3/4	17 1/4	2438	1892	4.8	2.4/2.4	2	1/6	104
PH8108-2U*-PW	108	8	7 3/4	17 1/4	2438	2196	5	2.6/2.6	2	1/6	114
PH8120-2U*-PW	120	8	7 3/4	17 1/4	2329	2500	5.2	2.8/2.8	2	1/6	124
PH8144-2U*-PW	144	8	7 3/4	17 1/4	2476	3224	5.2	2.8/2.8	2	1/6	143

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 1550 RPM at 60 Hz, 50 Hz is 1300 RPM with 17% reduction in the performance data.

- *The AMCA Certified Ratings Seal applies to airflow rate, average velocity uniformity, velocity projection, and power rating at free delivery only.*

ETL listed to UL 507 (US) and CSA C22.2 (Canada)

NOTES

- **Alternate voltage codes with FLA (Full Load Amp) data:**
  - 220V/1Ø/50Hz (U) – 0.9A per motor
- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - 25"-36" = 49 dBA
  - 42" = 50 dBA
  - 48" = 52 dBA
  - 60"-96" = 53 dBA
  - 108"-144" = 54 dBA

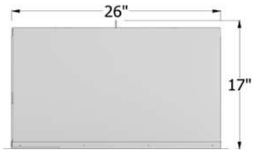
MARS RECOMMENDED ACCESSORIES

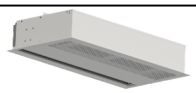
Please note the following represent the most commonly selected accessory in each respective category

- Controls
  - SK-UU, SimpleLink, 115V-230V, 1PH, 2Mtr & 1HP max, Integral Control, Nema 1
  - INS-TD, Adjustable time delay
- Filters
  - J21‡-†, ¼" aluminum pressed frame bank filters (‡ = Model Length, † = # of Motors)
- Available heat types
  - Electric, hot water, and steam

KEY FEATURES

- **AMCA 211 certified and ETL listed to UL 507 (US) and CSA 22.2 (Canada)**
- **Recessed mounted in ceiling for invisible protection**
- **Overhead or wall mounting**
- **Power coated Pearl White**
- **Freight is allowed in continental US (except hot water, steam heated)**





Phantom 10 Series: PH10 (Up to 12')

Temperature Control for Commercial, Office, and Retail Applications

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 1 Phase		Full Load Amps (Total FLA) 3 Phase			# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			115V (A)	208/230V (D)	208/230V (G)	460V (H)	575V (I)			
PH1036-1U*-PW	36	12	17	26	5960	1379	5.1	2.5/2.5	1.8/1.6	0.8	-	1	1/2	60
PH1042-1U*-PW	42	12	17	26	4865	1418	5.1	2.5/2.5	1.8/1.6	0.8	-	1	1/2	60
PH1048-1U*-PW	48	12	17	26	4247	1442	5.1	2.5/2.5	1.8/1.6	0.8	-	1	1/2	65
PH1072-2U*-PW	72	12	17	26	5960	2758	10.2	5.0/5.0	3.6/3.2	1.6	-	2	1/2	105
PH1084-2U*-PW	84	12	17	26	4865	2836	10.2	5.0/5.0	3.6/3.2	1.6	-	2	1/2	125
PH1096-2U*-PW	96	12	17	26	4247	2884	10.2	5.0/5.0	3.6/3.2	1.6	-	2	1/2	130
PH10108-3U*-PW	108	12	17	26	5960	4137	15.3	7.5/7.5	5.4/4.8	2.4	-	3	1/2	170
PH10120-3U*-PW	120	12	17	26	4660	4341	15.3	7.5/7.5	5.4/5.8	2.4	-	3	1/2	180
PH10144-3U*-PW	144	12	17	26	4247	4326	15.3	7.5/7.5	5.4/4.8	2.4	-	3	1/2	195
The following model is not licensed to bear the AMCA seal														
PH1060-2U*-PW	60	12	17	26	6000	2743	10.2	5.0/5.0	3.6/3.2	1.6	-	2	1/2	100

Phantom 12 Series: PH12 (Up to 16')

Temperature Control for Commercial, Office, and Retail Applications

PH1236-1U*-PW	36	16	17	26	5960	1379	9	5	3.3/3.2	0.8	0.7	1	1	85
PH1242-1U*-PW	42	16	17	26	4865	1418	9	5	3.3/3.2	0.8	0.7	1	1	90
PH1248-1U*-PW	48	16	17	26	4247	1442	9	5	3.3/3.2	0.8	0.7	1	1	90
PH1272-2U*-PW	72	16	17	26	5960	2758	18	10	6.6/6.4	1.6	1.4	2	1	155
PH1284-2U*-PW	84	16	17	26	4865	2836	18	10	6.6/6.4	1.6	1.4	2	1	175
PH1296-2U*-PW	96	16	17	26	4247	2884	18	10	6.6/6.4	1.6	1.4	2	1	180
PH12120-3U*-PW	120	16	17	26	4660	4341	27	15	9.9/9.6	2.4	2.1	3	1	270
PH12144-3U*-PW	144	16	17	26	4247	4326	27	15	9.9/9.6	2.4	2.1	3	1	285
The following model is not licensed to bear the AMCA seal														
PH1260-1U*-PW	60	16	17	26	6000	2743	9	5	3.3/3.2	1.6	1.3	2	1	95

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with 17% reduction in the performance data.

• *The AMCA Certified Ratings Seal applies to airflow rate, average velocity uniformity, velocity projection, and power rating at free delivery only.*

† *Limited availability, long lead times may apply.*

ETL listed to UL 507 (US) and CSA C22.2 (Canada); certified to ANSI/NSF 37 (LPN2 only)

NOTES

- **Alternate voltage codes with FLA (Full Load Amp) data:**
  - 277V/1Ø/60Hz (L) – 2.7A per motor (PH10), 5.2A per motor (PH12)
  - 220V/1Ø/50Hz (U) – 2.5A per motor (PH10), 7.1A per motor (PH12)
  - 380-415V/3Ø/50Hz (W) – 1.1A per motor (PH10), 1.8A per motor (PH12)
- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - 1 motor unit = 66 dBA (PH10), 70 dBA (PH12)
  - 2 motor unit = 68 dBA (PH10), 73 dBA (PH12)
  - 3 motor unit = 71 dBA (PH10), 75 dBA (PH12)
  - 4 motor unit = 73 dBA (PH10), 75 dBA (PH12)

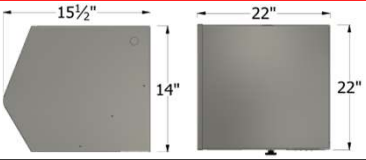
MARS RECOMMENDED ACCESSORIES

Please note the following represent the most commonly selected accessory in each respective category

- Controls
  - MCPA-†U*, Control panel, 120V control voltage († = # of Motors, * = Voltage Code)
    - MCP-24V, Low voltage control option (panel required)
    - MCP-TD, Adjustable time delay
    - BMS-303, BMS for monitoring and controlling (Motor control panel required with MCP-24V option)
  - INS-CTRL, Unit mounted 24v controller, unheated, up to 600v, 4 motor max
  - SK-UU, SimpleLink, 115V-230V, 1PH, 2Mtr & 1HP max, Integral Control, Nema 1
- Door limit switches
  - 99-018, Commercial, Plastic, Surface Mounted
  - 99-125, Industrial surface mounted magnetic switch
- Available heat types
  - Electric, hot water, and steam

KEY FEATURES

- **AMCA 211 certified (WMI/WMH only) and ETL listed to UL 507 (US) and CSA 22.2 (Canada)**
- **Overhead mounting (all) or wall mounting (EP2 only)**
- **Power coated Titanium Silver**
- **EP2: Freight allowed in continental US (except hot water, steam, gas fired)**
- **WMI/WMH: Freight not included**



Extra Power 2 Series: EP2 (14'-16')

Temperature Control for Large Dock Doors, and Receiving Door Applications

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 3 Phase			# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			208/230V (G)	460V (H)	575V (I)			
EP236-1U*-TS	96	14-16	14	15 1/2	4800	9600	16.6/15.2	7.6	6	2	3	280
EP240-1U*-TS	108	14-16	14	15 1/2	4200	9600	16.6/15.2	7.6	6	2	3	295
EP242-1U*-TS	120	14-16	14	15 1/2	5760	14400	24.9/22.8	11.4	9	3	3	390
EP248-1U*-TS	144	14-16	14	15 1/2	4800	14400	24.9/22.8	11.4	9	3	3	420

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above for 3450 RPM at 60 Hz, 50 Hz is 2850 RPM with 17% reduction in the performance data.

Windstopping Series: WM (14'-20')

Temperature Control for Large Dock Door, and Heavy Industrial Applications with Mild Breeze

WMI (14'-16')												
WMI48-1U*-TS †	48	14-16	22	22	5500	8250	7.2/7.0	3.5	3	1	2	260
WMI60-1U*-TS †	60	14-16	22	22	5200	9750	16.0/12.2	6.1	4.5	1	3	305
WMI72-1U*-TS †	72	14-16	22	22	5800	13050	16.0/12.2	6.1	4.5	1	3	345
WMI96-2U*-TS	96	14-16	22	22	5500	16500	14.4/14.0	7	6	2	2	515
WMI108-2U*-TS †	108	14-16	22	22	4900	16538	32.0/24.4	12.2	9	2	3	570
WMI120-2U*-TS	120	14-16	22	22	5200	19500	32.0/24.4	12.2	9	2	3	610
WMI144-2U*-TS	144	14-16	22	22	5800	26100	32.0/24.4	12.2	9	2	3	695
WMI168-3U*-TS	168	14-16	22	22	4900	25725	48.0/36.6	18.3	13.5	3	3	880
WMI192-4U*-TS	192	14-16	22	22	5500	33000	28.8/28.0	14	12	4	2	1030
WMH (16'-20')												
							208/230V (E/F)	460V (H)	575V (I)			
WMH48-1U*-TS †	48	16-20	22	22	7300	10950	19/15.8	7.9	6.3	1	5	320
WMH60-1U*-TS †	60	16-20	22	22	7600	14250	19/15.8	7.9	6.3	1	5	365
WMH72-1U*-TS †	72	16-20	22	22	7400	16650	--/21	10.5	8.4	1	7	445
WMH96-2U*-TS	96	16-20	22	22	7300	21900	38/31.6	15.8	12.6	2	5	635
WMH108-2U*-TS †	108	16-20	22	22	6700	22613	38/31.6	15.8	12.6	2	5	695
WMH120-2U*-TS	120	16-20	22	22	7600	28500	38/31.6	15.8	12.6	2	5	735
WMH144-2U*-TS	144	16-20	22	22	7400	33300	--/42	21	16.8	2	7	890
WMH168-3U*-TS	168	16-20	22	22	6700	35175	57/47.4	23.7	18.9	3	5	1060
WMH192-4U*-TS	192	16-20	22	22	7300	43800	76/63.2	31.6	25.2	4	5	1275

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above is for 60 Hz, 17% reduction in the performance data for 50 Hz.

• *The AMCA Certified Ratings Seal applies to airflow rate, average velocity uniformity, velocity projection, and power rating at free delivery only.*

† *Limited availability, long lead times may apply.*

ETL listed to UL 507 (US) and CSA C22.2 (Canada); certified to ANSI/NSF 37 (NH2 only)

NOTES

- **Alternate voltage codes with FLA (Full Load Amp) data:**
  - 380-415V/3Ø/50Hz (W) – 4.5A per motor (EP2), 6.6A per motor (WMH 5HP), 8.9A per motor (WMH 7HP). For WMI, consult factory.
- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - 1 motor unit = 76 dBA
  - 2 motor unit = 79 dBA (EP2), 66 dBA (WMI), 69 dBA (WMH)
  - 3 motor unit = 81 dBA (EP2), 67 dBA (WMI), 70 dBA (WMH)
  - 4 motor unit = 68 dBA (WMI), 72 dBA (WMH)

WMI/WMH only

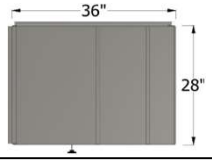
MARS RECOMMENDED ACCESSORIES

Please note the following represent the most commonly selected accessory in each respective category

- Controls
  - MCPB-†U*, Control panel, 120V control voltage († = # of Motors, * = Voltage Code)
    - MCP-24V, Low voltage control option (panel required)
    - MCP-TD, Adjustable time delay
    - BMS-303, BMS for monitoring and controlling (Motor control panel required with MCP-24V option)
- Mounting brackets (EP2 Only)
  - B0004-TS, Adjustable mounting bracket set, 3½" clearance
  - B0008 to B0011, Extended wall mounting bracket, 10", 16", 19", 23" clearance respectively
- Door limit switches
  - 99-125, Industrial surface mounted magnetic switch
- Available heat types
  - Electric, hot water, steam, and indirect gas fired

KEY FEATURES

- **Belt drive unit for heavy industrial projects**
- **Overhead mounting**
- **Powder coated Titanium Silver**
- **Freight not included**



Windguard Series: BD (14'-32')

Temperature Control for Large Dock Doors and Heavy Industrial Applications with Mild Gusts

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 3 Phase			# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			208/230V (G)	460V (H)	575V (I)			
BD14 (14'-16')												
BD1496-1U*-TS	96	14-16	28	36	4500	11700	14.2/13	6.5	5.3	1	5	600
BD14120-1U*-TS	120	14-16	28	36	4500	14650	14.2/13	6.5	5.3	1	5	700
BD14144-1U*-TS	144	14-16	28	36	4500	17600	21.6/20	10	8.9	1	7 1/2	800
BD14168-1U*-TS	168	14-16	28	36	4500	20500	21.6/20	10	8.9	1	7 1/2	900
BD14192-1U*-TS	192	14-16	28	36	4500	23450	28/26	13	10.3	1	10	1000
BD18 (16'-20')												
BD1896-1U*-TS	96	16-20	28	36	5100	13800	21.6/20	10	8.9	1	7 1/2	650
BD18120-1U*-TS	120	16-20	28	36	5100	17255	21.6/20	10	8.9	1	7 1/2	750
BD18144-1U*-TS	144	16-20	28	36	5100	20700	28/26	13	10.3	1	10	850
BD18168-1U*-TS	168	16-20	28	36	5100	24100	28/26	13	10.3	1	10	950
BD18192-1U*-TS	192	16-20	28	36	5100	27600	42/40	20	15.6	1	15	1050
BD22 (20'-24')												
BD2296-1U*-TS	96	20-24	28	36	6000	16250	28/26	14	10.3	1	10	700
BD22120-1U*-TS	120	20-24	28	36	6000	20300	42/40	20	15.6	1	15	800
BD22144-1U*-TS	144	20-24	28	36	6000	24350	42/40	20	15.6	1	15	900
BD22168-1U*-TS	168	20-24	28	36	6000	28400	55/51	25	20.2	1	20	1000
BD22192-1U*-TS	192	20-24	28	36	6000	32500	55/51	25	20.2	1	20	1100
BD26 (24'-28')												
BD2696-1U*-TS	96	24-28	28	36	6500	18700	42/40	20	16.8	1	15	750
BD26108-2U*-TS	120	24-28	28	36	6500	23400	55/51	25.5	20.2	1	20	850
BD26120-2U*-TS	144	24-28	28	36	6500	29200	65/60	30	24.8	1	25	950
BD26144-2U*-TS	168	24-28	28	36	6500	32700	65/60	30	24.8	1	25	1050
BD26168-3U*-TS	192	24-28	28	36	6500	37400	78/71	35.5	29.7	1	30	1150
BD30 (28'-32')												
BD3096-1U*-TS	96	28-32	28	36	6950	19200	55/51	25.5	20.2	1	20	800
BD30120-1U*-TS	120	28-32	28	36	6950	24900	65/60	30	24.8	1	25	900
BD30144-1U*-TS	144	28-32	28	36	6950	30300	78/71	35.5	29.7	1	30	1000
BD30168-1U*-TS	168	28-32	28	36	6950	33000	78/71	35.5	29.7	1	30	1100
BD30192-2U*-TS	192	28-32	28	36	6950	38100	110/102	51	40.4	2	20	1200

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above is for 60 Hz, 17% reduction in the performance data for 50 Hz.

NOTES

- **Alternate voltage codes with FLA (Full Load Amp) data:**
  - 380-415V/3Ø/50Hz (W) – 6.5A per motor (5HP), 8.3A per motor (7 1/2HP), 11.5A per motor (10HP), 15.5A per motor (15HP), 22.5A per motor (20HP), 30.0A per motor (25HP), 36.5A per motor (30HP)
- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - 5HP unit = 73 dBA (BD14)
  - 7 1/2HP unit = 74 dBA (BD14), 75 dBA (BD18)
  - 10HP unit = 75 dBA (BD14,BD22), 76 dBA (BD18)
  - 15HP unit = 76 dBA (BD18, BD22, BD26)
  - 20HP unit = 77 dBA (BD22, BD26, BD30)
  - 25HP unit = 78 dBA (BD26, BD30)
  - 30HP unit = 79 dBA (BD26, BD30)
  - (2) 20HP unit = 80 dBA (BD30)

MARS RECOMMENDED ACCESSORIES

Please note the following represent the most commonly selected accessory in each respective category

- Controls
  - MCPB-†U*, Control panel, 120V control voltage († = # of Motors, * = Voltage Code)
    - MCP-24V, Low voltage control option (panel required)
    - MCP-TD, Adjustable time delay
    - BMS-303, BMS for monitoring and controlling (Motor control panel required with MCP-24V option)
- Door limit switches
  - 99-125, Industrial surface mounted magnetic switch
- Available heat types
  - Electric, hot water, steam, and indirect gas fired

KEY FEATURES

- **ETL listed to UL 507 (US) and CSA 22.2 (Canada) (Air Curtain Only Packaged HEPAC Models)**
- **Low-profile design**
- **Low voltage (24Vac) control option**
- **Top mounted and factory wired junction box with labeled wires for easy field wiring**
- **Includes surface mounted magnetic switch**
- **Overhead or wall mounting**
- **Powder coated Obsidian Black**
- **Freight allowed in continental US**

Clean Air Series : UVP, HCP, VHP

Air Sanitation and Temperature Control for Commercial, Office, and Retail Applications

Unheated Model Number	Opening Width (in)	Mounting Height (ft)	Unit Dimensions (in)		Air Velocity FPM @ Nozzle (Max)	Air Volume CFM @ Nozzle	Full Load Amps (Total FLA) 3 Phase		# of Motors	HP per Motor	Net Weight (lbs)
			Height	Depth			115V (A)	208V/230V (D)			
LPV2 - Packaged UV Models (Up to 8')											
LPV236-1U*-OB-UVP	36	8	8	12 1/2	1800	900	3	1.8/1.8	1	1/6	80
LPV242-1U*-OB-UVP	42	8	8	12 1/2	1800	1050	3	1.8/1.8	1	1/6	90
LPV248-1U*-OB-UVP	48	8	8	12 1/2	1800	1200	3	1.8/1.8	1	1/6	100
LPV260-1U*-OB-UVP	60	8	8	12 1/2	1800	1500	3.5	2.3/2.3	1	1/6	125
LPV272-1U*-OB-UVP	72	8	8	12 1/2	1800	1800	3.8	2.6/2.6	1	1/6	160
STD2 - Packaged UV Models (Up to 10')											
STD236-1U*-OB-UVP	36	10	10 5/8	21 3/8	2206	1379	5.7	3.1/3.1	1	1/2	85
STD242-1U*-OB-UVP	42	10	10 5/8	21 3/8	1945	1418	5.7	3.1/3.1	1	1/2	95
STD248-1U*-OB-UVP	48	10	10 5/8	21 3/8	1730	1442	5.7	3.1/3.1	1	1/2	110
STD260-2U*-OB-UVP	60	10	10 5/8	21 3/8	2592	2700	11.1	5.9/5.9	2	1/2	135
STD272-2U*-OB-UVP	72	10	10 5/8	21 3/8	2206	2758	11.4	6.2/6.2	2	1/2	170
STD2 - Packaged HEPAC Models (Up to 8')											
STD236-1U*-OB-HCP	36	8	10 5/8	21 3/8	2206	1379	5.1	2.5/2.5	1	1/2	95
STD242-1U*-OB-HCP	42	8	10 5/8	21 3/8	1945	1418	5.1	2.5/2.5	1	1/2	110
STD248-1U*-OB-HCP	48	8	10 5/8	21 3/8	1730	1442	5.1	2.5/2.5	1	1/2	125
STD260-2U*-OB-HCP	60	8	10 5/8	21 3/8	2592	2700	10.2	5.0/5.0	2	1/2	150
STD272-2U*-OB-HCP	72	8	10 5/8	21 3/8	2206	2758	10.2	5.0/5.0	2	1/2	190
STD2 - Packaged UV, HEPAC, & Ionizer Models (Up to 8')											
STD236-1U*-OB-VHP	36	8	10 5/8	30	2206	1379	5.7	3.1/3.1	1	1/2	120
STD242-1U*-OB-VHP	42	8	10 5/8	30	1945	1418	5.7	3.1/3.1	1	1/2	140
STD248-1U*-OB-VHP	48	8	10 5/8	30	1730	1442	5.7	3.1/3.1	1	1/2	165
STD260-2U*-OB-VHP	60	8	10 5/8	30	2592	2700	11.1	5.9/5.9	2	1/2	195
STD272-2U*-OB-VHP	72	8	10 5/8	30	2206	2758	11.4	6.2/6.2	2	1/2	240
STD2 - Air Wash Series (UV, HEPAC, & Ionizer) - Door Height of 7' Max & Door Width of 3'-6'											
AWS-4U*-OB-VHP	84	---	10 5/8	30	1945	5672	22.8	12.4/12.4	4	1/2	280

* - Use corresponding letters in Electrical Data columns to complete the model numbers.

Note: Data above is for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with 17% reduction in the performance data.

NOTES

- **For total FLA, multiply motor FLA by # of motors.**
- **Ampacity (MCA) = total FLA x 1.25**
- **Sound levels (measured at 10' in an open field):**
  - ° 25"-36" = 49 dBA (LPV2)
  - ° 42" = 50 dBA (LPV2)
  - ° 48" = 52 dBA (LPV2)
  - ° 60"-96" = 53 dBA (LPV2)
  - ° 1 motor unit = 66 dBA (STD2)
  - ° 2 motor unit = 68 dBA (STD2)

Intertek

Air Curtain Only for HCP & VHP option

MARS RECOMMENDED ACCESSORIES

Please note the following represent the most commonly selected accessory in each respective category

- Controls
  - ° INS-TD, Adjustable time delay
- Mounting brackets
  - ° B0004, Adjustable mounting bracket set, 3½" clearance
  - ° B0005, Adjustable mounting bracket set, 7"-13" clearance

SPECIALTY APPLICATIONS

Mars Air Curtains are engineered for a range of demanding specialty applications, including Cold Storage to maintain temperature separation and combat frost; Commercial Dishwasher Dryers for efficient, space-saving ware drying; Washdown environments (NEMA 4X/IP54) requiring frequent cleaning in food/pharmaceutical settings; Explosion Proof (NEMA 7 & 9) for hazardous locations; and Tamper Proof options for high-security facilities. We provide robust, custom-engineered solutions with appropriate materials and ratings to meet the unique operational and safety challenges of each application.

Cold Storage

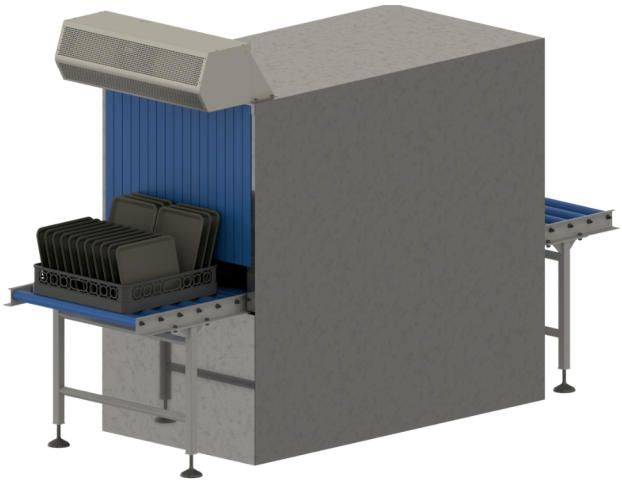
Cold storage facilities present a unique challenge for thermal separation due to the significant temperature differences between indoor and outdoor environments. To address this, Mars air curtains are specifically engineered to minimize infiltration and prevent the common issues that plague these applications. Mars air curtains not only maintain temperature separation but also combat frost buildup, fogging, and condensation. We offer solutions for both coolers and freezers, ensuring your cold storage remains efficient and safe.

To find the perfect air curtain for your needs, our engineers have developed a straightforward, one-page cold storage survey form.

This helps us quickly recommend the ideal Mars air curtain and accessories for your specific application. Please contact the factory for additional information and to discuss your specific application needs.

Commercial Dishwasher Dryer

Mars air curtains are engineered to tackle the unique challenges of commercial ware washing, providing a superior and highly efficient alternative to traditional blower-dryer tunnels. Our units generate a powerful, high-velocity air stream that effectively dries wares as they exit the machine, eliminating the need for expensive drying tunnels. This compact design adds no additional length to the ware wash machine, freeing up valuable floor space that would otherwise be cluttered by drying racks. Built for durability, these air curtains are specifically designed to withstand the harsh conditions of a kitchen environment, including high temperatures and constant water splashes.



Designed with safety in mind, each unit features a rust-preventative electrostatic polyurethane powder coating in titanium silver, with stainless steel options available. A protective safety mesh is also installed at the discharge nozzle to prevent accidental contact with the fan blades. With a universal mounting bracket, multiple voltages, and a variety of accessories, our air curtains are a versatile and robust solution for any commercial kitchen. Please contact the factory for additional information and to discuss your specific application needs.

Washdown

Mars offers a washdown-ready option for applications requiring frequent cleaning and sanitization, such as in food and beverage processing, pharmaceutical, and chemical facilities. These units are designed to withstand rigorous cleaning protocols and maintain operational integrity.

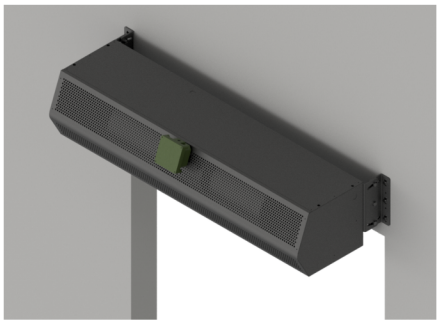
The washdown option includes a NEMA 4X/IP54 rating, ensuring protection against dust, corrosion, and powerful water jets. The units are built with corrosion-resistant materials. 304 grade stainless steel and other grades available upon request. These air curtains come with Washdown-rated motors that are fully sealed to prevent water intrusion and corrosion.

To meet the demands of a washdown environment, washdown-rated control panel, also available in NEMA 4X/IP54, which can be mounted remotely. All accessories, including door switches, are also available with the appropriate washdown rating to ensure the entire system is protected.

Please contact the factory for additional information and to discuss your specific application needs.

Explosion Proof

Mars offers specialized air curtains designed for applications in hazardous locations where flammable liquids, gases or vapors are present. These units are specifically designed to minimize the risk of ignition in explosive atmospheres. The core of our unit is built with a spark resistant motors that is fully enclosed to contain any internal arching or sparks and prevent the ignition of flammable vapors or gases. Additionally, our blower wheels are constructed from spark resistant non-ferrous aluminum to minimize sparks in the event they come in contact with the steel air curtain enclosure. Our motors, control panels and door limit switches are rated and certified for Class I, Division I, Group D environments.

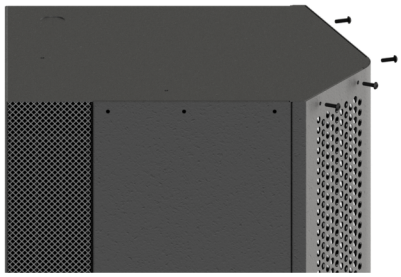


OSHA Publication 3073 defines a hazardous location as an area where flammable liquids, gases or vapors or combustible dusts exist in sufficient quantities to produce an explosion or fire. North America uses a class and division system to define the risk of fire or explosion outlined in ANSI/NFPA 70, while other parts of the world use a zone system known as the ATEX Directive. No standards or code definitions exist for ACUs intended for explosive environments, hazardous locations, or spark- resistant construction (SRC). As fans cannot guarantee safety for any level of SRC, and SRC does not protect against the ignition of explosive gases caused by catastrophic failure, ACUs cannot guarantee a level of safety, either.

Please contact the factory for additional information and to discuss how we can meet your specific needs and application safety requirements.

Tamper Proof

Mars offers a tamper-resistant option for applications in highly secure areas such as government, mental health, and correctional facilities. Lockable doors and access panels, specialized screws heads (tool included), and wire mesh screens prevent removal of components and/or access to internal parts and controls. Please contact the factory for additional information.



Please note the following represent the most commonly selected accessory in each respective category

DOOR LIMIT SWITCHES

Door limit switches automatically activate and de-activate (start and stop) the air curtain when the door(s) open and close.

Note: Control panel will be required if the air curtain selected is 3 phase or exceeds 250 volts, 20 amps, or 1 total horsepower. Please refer to the panel and/or switch submittals for additional rating details.

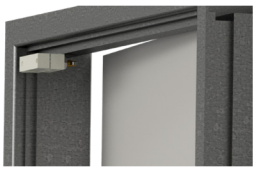
Mechanical

Mechanical switches are suitable for all door types and can be used without a control panel or controller if it does not exceed the switch limitations. Mechanical switches are adaptable to varying field conditions and have a large throw (activation range) to compensate for doors that may not close completely. Please refer to the switch submittals for switch limitations and control requirements.

99-014

Standard Duty

NEMA 1 - Designed for all door types in dry indoor environments. Part #: 99-014
- Mechanical Combination Roller/Plunger Type Door Limit Switch, NEMA 1 with a maximum rating of 250 volts, 20 amps or 1 horsepower, Single Pole and Single Throw (Field Installed)



99-270

Severe Duty (typically for industrial applications)

NEMA 4X - Designed for outdoor and/or wet environments. Part # 99-270 - Mechanical Roller Type Door Limit Switch, NEMA 4X with a maximum rating of 250 volts, 15 amps or 1 horsepower, Single Pole & Single Throw (Field Installed)

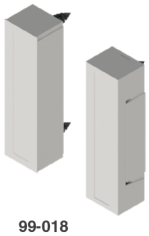
99-016

NEMA 7 (Fumes) & 9 (Dust) - Designed for indoor use in locations classified as hazardous. Part # 99-016 - Mechanical Roller Type Door Limit Switch, NEMA 7 & 9, Class I, Division I, Groups A, B, C, or D and NEMA 9, Class II, Groups E, F, or G with a maximum rating of 250 volts, 15 amps or 1 horsepower and Single Pole & Single Throw (Field Installed)

Magnetic

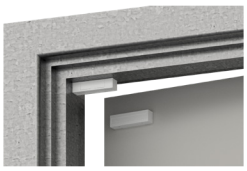
Magnetic switches are designed for low profile architectural NEMA 1 applications and are typically used for low voltage controls systems. Input power is limited to 1 phase and 240 volts, and a motor control panel or solid-state controller is required for all magnetic switches when used with unheated, hot water/steam, or indirect gas fired models. Magnetic switches have a narrow throw (activation range, 3/8” or less) and require the door(s) to fully close to de-activate the air curtain(s). Please refer to the switch submittals for switch limitations and control requirements.

Commercial Surface Mounted



99-018

Commercial surface-mounted switches are designed for the reed switch and the magnet to be mounted on the surface of the door jamb and the door. The compact footprint minimizes its surface exposure in visible high traffic areas, making them ideal for offices, retail shops, restaurants, and concession door applications. Note: Control wires can be concealed if the door frame and/or wall can accommodate wire races or conduit.



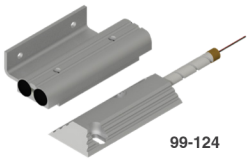
Part # 99-018 - Commercial Plastic Surface Mounted Magnetic Door Limit Switch, NEMA1 with 24Vac Controls, requires an optional Control Panel or Solid-State Controller. (Field Installed)

Please note the following represent the most commonly selected accessory in each respective category

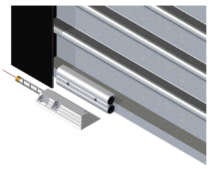
Industrial Surface-Mounted

Industrial surface-mounted switches are designed for large factory and warehouse doors. The larger heavier duty aluminum reed switches and magnets allow for high voltage (120 volt), low load (1/2 amp) controls applications, and can withstand the rigors of industrial wear and tear. Conduits are required for high voltage control signals and may be used for 24V controls.

Part # 99-125 - Industrial Metallic Surface Mounted Magnetic Door Limit Switch, NEMA1 with 24Vac Controls, requires an optional Control Panel or Solid- State Controller. (Field Installed)



Part # 99-124 - Industrial Metallic Floor Mounted Magnetic Door Limit Switch, NEMA1 with 24Vac Controls, requires an optional Control Panel or Solid-State Controller. (Field Installed)



CONTROLLERS

INS-CTRL, Unit Mounted Controller

The INS-CTRL is a factory-mounted, pre-wired unit controller designed to simplify automatic operation for unheated Mars Air Curtains (STD2, PH10, PH12, QP10, HV2 series). This controller is rated for all voltages and applicable for air curtains up to 4 motors, featuring a built-in step-down transformer to provide low voltage (24VAC) control power. This enables automatic activation with any magnetic or mechanical door switch. The system is ETL-certified to conform to UL 507 and CSA 22.2 standards, providing a single-point connection with labeled wires for easy hook-up of main power and door switch.

Motor Control Panels

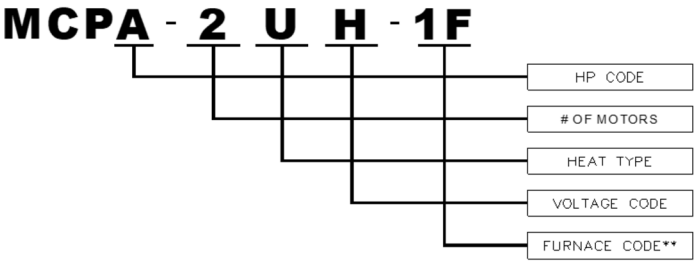
Mars Motor Control Panels (“Motor Starters”) integrate with Mars air curtain(s) to automatically and/or manually activate and de-activate (start and stop) the air curtain, via H-O-A (Hands-Off-Automatic), when the door(s) open and close. A panel is required when the air curtain uses 3 phase power or exceeds the door limit switch electrical limitations. Available in all voltages, horsepower, and phases with 115-volt control standard (24V available as an option) for unheated, hot water/steam, and indirect gas fired units. All panels are NEMA 1, designed for indoor use to provide protection to personnel against access to hazardous parts, and to provide a degree of protection to the equipment against ingress of solid foreign objects.

MotorControlPanel (MCP)

For severe duty applications including indoor/outdoor, hose-directed water, and corrosion resistance, Mars offers a NEMA 4X panel with a fiberglass enclosure (optional 304 stainless steel or 316 stainless steel enclosures are also available). In addition, spark-resistant hazardous applications are available with cast aluminum mill-faced enclosures. NEMA 7 (gases) enclosures are intended for indoor use in locations classified as Class I, Division I, Groups A, B, C, or D, while NEMA 9 (dust) enclosures are for indoor use in locations classified as Class II, Groups E, F, or G. These options are only available for unheated and hot water/steam units. Please refer to the panel submittals for additional details.

Mars Motor Control Panels can also be customized by adding multiple control options and accessories to suit a variety of customer needs and applications.

Please note the following represent the most commonly selected accessory in each respective category



HP CODE		# OF MOTOR	HEAT TYPE		VOLTAGE CODE				FURNACE CODE**	
HP	CODE		HEAT MODE	CODE	VOLTS	PHASE	HZ	CODE	FURNACE QTY	CODE
1/2	A	1	Unheated	U	115	1	60	A	1	1F
1	B	2	Electric	E	208/230	1	60	D	2	2F
2	C	3	Hot Water or Steam	V	208/230	3	60	G	3	3F
3	D	4	Indirect Fired Gas	I	277	1	60	L		
5	E	5			460	3	60	H		
7	F	6			575	3	60	I		
7 1/2	G				220	1	50	U		
10	H				220	3	50	V		
15	I				380/415	3	50	W		
20	J									
25	K									
30	L									
Special*	S									

*Usually for 1/6 HP motors or for a combination of different motors with different HP
**Must Specify for Indirect Fired Gas Control Panel Only

Part # MCP-TD - Accessory, Panel Mounted, Adjustable Time Delay, 1sec-17min, 24V-120V Controls, (Control Panel Required)

Part # MCP-VR - Accessory, Panel Mounted, VFD Ready, Unheated/Hot Water/Steam Heated (Control Panel & External Stand Alone VFD Required)

Part # MCP-HD - Accessory, Panel Mounted, Heat on Demand, Hot Water/Steam Heated (Thermostat Included)

Part # MCP-24V - Accessory, Panel Mounted, Transformer, Unheated/Hot Water/Steam Heated, 24V Controls (Control Panel Required)

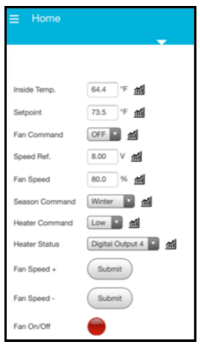
Part # MCP-2S - Accessory, Pane l Mounted, 2 Speed, 1 Phase Only, Unheated/Hot Water/Steam Heated, STD2/HV2/PH10/PH12/QP10, 3 Motor Max (Control Panel Required)

Solid-State Panels

A solid-state control is an electronic switching device, designed to activate and de-activate a device when a small external voltage is applied across its control terminals. Solid-state controls consist of a sensor which reacts to digital and/or analog input and can be designed to switch either AC or DC control systems.

SimpleLink®

SimpleLink® is a multi-function programmable solid-state controller that enables automatic air curtain operation via an advanced control system with “Smart Mode,” which optimizes the air curtain sequence based on the current conditions, and regulates the heaters and/or fan speed as required by current local conditions. Includes factory built WiFi router for wireless connection to field supplied smartphone or tablet. Optional remote mounted HMI module available. Please refer to the SimpleLink® submittals for the list of compatible units and limitations.



SimpleLink

Standard Package

The Mars SimpleLink® Controller Standard Package includes standard and programable control modes that automatically adjust the fan speed, heat, and time delay based on the specified set points via internally mounted sensors. Fully programable 24/7/365 timer, maintenance schedule alert, and password-protected screen is standard.

Please note the following represent the most commonly selected accessory in each respective category

Plus Package

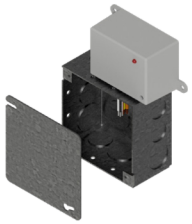
The Mars SimpleLink® Controller Plus Package includes all the features in the Standard Package, but also includes BACnet capability and Full Adaptive Controls (“Smart Mode”). Smart Mode regulates and adjusts the set points of the fan speed, heat, and time delay based on the current trending operational conditions.

Basic Controller

The basic controller is a simple, compact solid-state controller that offers an affordable method of automatically activating and de-activating (start and stop) the air curtain when the door(s) open and close. However, input power is limited to 115 or 208/240 volts, 1 phase, and ½ or 1 total unit horsepower and may not be considered as a “motor starter”. Please refer to the Basic Controller submittals for additional rating details and limitations.

Non-Time Delayed

Non-time delayed basic controller kits are the most popular type and turn the air curtain off immediately when the door closes. This option is typically selected when low voltage controls are required.



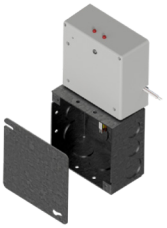
Non Time Delayed Basic Controller

Part # J0705 - Solid State Controller kit with 24Vac Non-time Delayed controls, NEMA1, 115V, 1Ø, (2) 1/2 HP motors max with part # 99-125, Commercial Plastic Surface Mounted Magnetic Door Limit Switch (Field Installed)

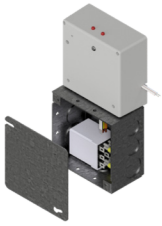
Part # J0706 - Solid State Controller kit with 24Vac Non-time Delayed controls, NEMA1, 208-277V, 1Ø, (2) 1/2 HP motors max with part # 99-125, Commercial Plastic Surface Mounted Magnetic Door Limit Switch (Field Installed)

Time Delayed

Time delayed basic controller kits reduce cycling of air curtain motors for high traffic applications (10 or more cycles per hour). The controller delays the unit from turning off when the door closes, with a minimum delay of 6 seconds and maximum of 20 minutes. Please refer to the Basic Controller submittals for additional kits available.



Time Delayed Basic Controller (1/2 HP)



Time Delayed Basic Controller (1 HP)

Part # J0021 - Solid State Controller kit with 24Vac Adjustable (6s -20m) Time Delayed controls, NEMA1, 115V, 1Ø, 1/2 HP max with part # 99-018, Commercial Plastic Surface Mounted Magnetic Door Limit Switch (Field Installed)

Part # J0022 - Solid State Controller kit with 24Vac Adjustable (6s -20m) Time Delayed controls, NEMA1, 208-277V, 1Ø, 1/2 HP max with part # 99-018, Commercial Plastic Surface Mounted Magnetic Door Limit Switch (Field Installed)

Part # J0703 - Solid State Controller kit with 24Vac Adjustable (6s -20m) Time Delayed controls, NEMA1, 115V, 1Ø, (2) 1/2 HP motors max with part # 99-018, Commercial Plastic Surface Mounted Magnetic Door Limit Switch (Field Installed)

Part # J0704 - Solid State Controller kit with 24Vac Adjustable (6s -20m) Time Delayed controls, NEMA1, 208-277V, 1Ø, (2) 1/2 HP motors max with part # 99-018, Commercial Plastic Surface Mounted Magnetic Door Limit Switch (Field Installed)

VFD (Variable Frequency Drive)

A Variable Frequency Drive (VFD), also known as an adjustable speed drive, adjustable frequency drive, AC drive, microdrive, or inverter, controls the motor speed by varying the frequency and voltage supplied to the electric motor .In addition to reducing the motor’s energy consumption, reduced motor speed may be required for certain applications. VFDs may only be used for inverter-rated motors, and always require 3 phase output power. VFDs can be factory-installed or mounted remotely as a standalone controller.

VFD

Single Phase Input Power

New applications with 1 phase input power can utilize a custom VFD. The VFD will need to be properly sized to ensure it meets the input power requirements for voltage, amperage, and horsepower. Existing 1 phase units cannot use VFDs without first changing the motor voltage to 3 phase. Please contact the factory for additional details.

Please note the following represent the most commonly selected accessory in each respective category

Three Phase Input Power

All Mars 3 phase units are inverter-rated and compatible with VFDs. Please refer to the VFD submittals for limitations.

BMS Control Options

Mars offers enhanced control features for “Smart Buildings” to increase their operational and energy efficiency. The Mars BMS (Building Management System) options offer an easy and seamless integration with industry standard BMS or BAS (Building Automation System) to assist in monitoring and controlling all its mechanical and electrical equipment. This is achieved through a computer-based control system that utilizes various Internet protocols and open standards. Mars offers both basic on/off control using low-voltage signals and more sophisticated BACnet MSTP and IP communication options.

Part # BMS-301 - BMS for monitoring only for all unheated models (Motor control panel required with MCP-24V option)

Part # BMS-302 - BMS for controlling only for all unheated models (Motor control panel required with MCP-24V option)

Part # BMS-303 - BMS for monitoring and controlling for all unheated models (Motor control panel required with MCP-24V option)

Part # BMS-304 - BMS for monitoring only for all hot water, steam, indirect gas and BD & WM electric heated models (Motor control panel required with MCP-24V option)

Part # BMS-305 - BMS for controlling only for all hot water, steam, indirect gas and BD & WM electric heated models (Motor control panel required with MCP-24V option)

Part # BMS-306 - BMS for monitoring and controlling for all hot water, steam, indirect gas and BD & WM electric heated models (Motor control panel required with MCP-24V option)

Part # BMS-300 - BMS for monitoring and controlling for all electric heated LP2/STD2/N2/HV2/NH2/EP2/PH models

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THERMOSTATS

The Mars thermostat controls the optional heat output of air curtains by regulating the output temperature and providing supplemental heat to the local area. Thermostats are typically remote mounted to sense the average space or local area temperature (open spaces) and adjusts the air curtain heat to maintain the setpoint temperature.

Mars provides an analog thermostat as standard for most models with optional programmable digital thermostats available.

Part # 99-063 - Thermostat, 801, Line Voltage, Up to 250V, Analog, Single Stage, Single Pole (Optional for LPV2, WM/BD Electric & All Hot Water/Steam)

Part # 99-064 - Thermostat, 802, Line Voltage, Up to 250V, Analog, Two Stage, Double Pole (Optional for All Hot Water/Steam)

Part # 99-264 - Thermostat, 9200H, 24 Volt, Analog, Single Pole (Standard for Elec LPV2, STD2, HV2, EP2, PH & All Gas Fired)

99-264

99-063

Part # 99-263 - Thermostat, RS4110, 24 Volt, Digital, Single Pole, Battery Power (Optional for Elec LPV2, STD2, HV2, EP2, PH, WM/BD & All Gas Fired)

Please note the following represent the most commonly selected accessory in each respective category

DISCONNECTS

Mars disconnects are intended to manually open a circuit to disconnect power from a unit for servicing and/or during an overcurrent or short-circuit event. This is a line of protection for the air curtain and any other equipment that is integrated with it. In addition, it also serves as a mechanism for providing safe access to the unit for periodic maintenance and service, with most having the ability to “lock-out and tag” the input power.

Disconnects are typically shipped remote mounted for field installation and wiring. This is mainly due to the physical size of the disconnect and thickness of the conduit required to integrate with the air curtain. Smaller amperage systems can be panel or unit mounted, but remote mounting as a standalone option is the most practical for higher amperage systems and fused type disconnects.

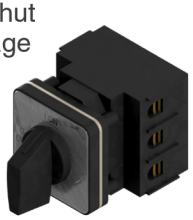
Fused Type

A fused disconnect switch is a combination of a manual switch to disconnect the circuit and fuses to shut the circuit off in the event of a problem. The disconnect and fuses are sized according to the unit voltage and amperage. Please refer to the disconnect submittals for additional details and selection guide.

Fused Type

Non-fused Type

A non-fused disconnect switch is designed to shut the circuit off in the event of a problem. The disconnects are sized according to the unit voltage and amperage. Please refer to the disconnect submittals for additional details and selection guide.



Non-Fused Type

BRACKETS

Mars brackets are individually designed to integrate with certain Mars units, but each bracket component is designed to be interchangeable and may be used with each bracket type to meet field clearance requirements. Brackets are not compatible with WM and BD series and gas heated units. Please refer to the bracket submittals for additional details and bracket compatibility.

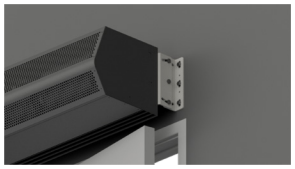
Offset Mounting

Offset mounting brackets are intended to clear obstructions directly above the opening and are compatible with both swinging and sliding door types. The obstruction must not extend beyond the outer edges of the opening, and a minimum of 6” clearance is required on either side for proper mounting. Examples of obstructions include exit signs, power conduits, outlets, sectional door tracks, protruding headers, etc.

B0004

Part # B0004 - Adjustable Mounting Bracket set with a maximum of clearance of 3-1/2” Obsidian Black. One set required per air curtain. (Field Installed)

Part # B0005 - Adjustable Mounting Bracket set with variable clearances of 7”, 9”, 11” or 13”, Obsidian Black. One set required per air curtain. (Field Installed)

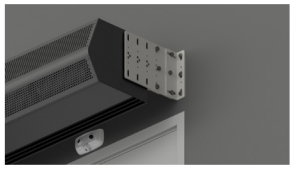


Adjustable Mounting Bracket B0004

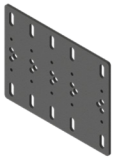
B0005

Side Extension

Side extension brackets are intended to extend the air curtain mounting holes sideways to clear obstructions on the outer edges and/or above the opening. Typically used in conjunction with offset mounting brackets to clear obstructions such as sectional door tracks, pipes and conduit, signs, etc.

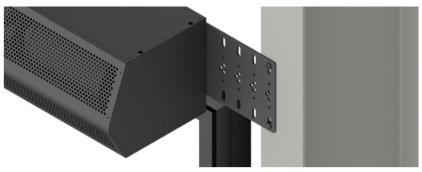


Adjustable Mounting Bracket B0005



B0020

Part # B0020 - Side Extension Plate set with variable clearances of 4”, 6”, 8” or 10”, Obsidian Black. One set required per air curtain. (Field Installed)



Side Extension Plate

Please note the following represent the most commonly selected accessory in each respective category

Extended Wall Mounting

Extended wall mounting brackets are intended to clear larger obstructions above the opening that extend beyond the door header but do not extend more than 24” above the door header. Specifically designed to clear drum roll-up type doors and larger diameter objects such as main water and gas pipes and allow the unit to be mounted directly in front of the obstruction. Side baffles are recommended for larger clearances to minimize bypass and losses from gaps.

Extended Wall Mounting Bracket

Part #B0008 - Extended Wall Mounting Bracket set with a maximum of clearance of 10”, Obsidian Black. One set required per air curtain and includes part # B0004, Offset Mounting Bracket. (Field Installed)

Part # B0009 - Extended Wall Mounting Bracket set with a maximum of clearance of 16”, Obsidian Black. One set required per air curtain and includes part # B0004, Offset Mounting Bracket. (Field Installed)

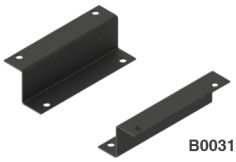
Sliding Door Application

Part # B0010 - Extended Wall Mounting Bracket set with a maximum of clearance of 19”, Obsidian Black. One set required per air curtain and includes part # B0004, Offset Mounting Bracket. (Field Installed)

Part # B0011 - Extended Wall Mounting Bracket set with a maximum of clearance of 23”, Obsidian Black. One set required per air curtain and includes part # B0004, Offset Mounting Bracket. (Field Installed)

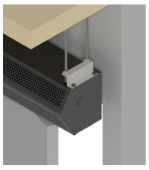
Top Mounting

Top mounting brackets are intended for overhead installations, using threaded rods (not included) to clear obstructions directly above all door types where wall mounting is not as an option. Wall or ceiling mounted stabilizing brackets or rods (not included) are recommended to minimize unit movement when cycling.

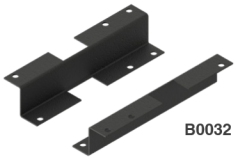


B0031

Part #B0031- Top Mounting Bracket set for the unheated LP2 series, Obsidian Black. One set required per air curtain. Model 84”-144” long require an additional set for center support. (Field Installed)

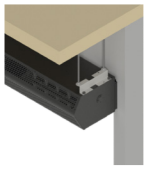


Overhead Mounted Unheated LP2



B0032

Part # B0032 - Top Mounting Bracket set for the electric, hot water and steam heated LPV2 series, Obsidian Black. One set required per air curtain. Model 84”-144” long require an additional set for center support. (Field Installed)



Overhead Mounted Unheated LPV2

Transom Mounting

B0041

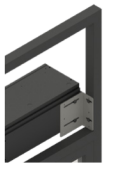
Transom mounting brackets are designed to be mounted flush to the vertical frame of the transom (aluminum framed glass window) above the opening.

Part # B0041 - Transom Mounting Bracket set for the unheated and electric heated STD2/N2 series, Obsidian Black. One set required per air curtain. Models 84”-144” long require an additional set for center support. (Field Installed)

Transom Mounted STD2

B0042

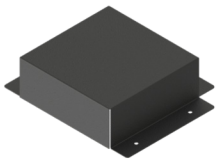
Part # B0042 - Transom Mounting Bracket set for the unheated, electric, hot water and steam-heated LP2 series, Obsidian Black. One set required per air curtain. Models 84”-144” long require an additional set for center support. (Field Installed)



Transom Mounted LP2

Please note the following represent the most commonly selected accessory in each respective category

Vertical Mounting



Vertical Mounting Base

Vertical mounting brackets are designed to secure the Mars air curtain to the floor and wall and are ETL certified for vertical mounting to the floor. Additional brackets (not included) may be required to suit field conditions.

Part #09-500 - Vertical Mounting Bracket set for the unheated, electric, hot water and steam heated LP2 series 25” to 72”, Obsidian Black. For 25”-72” models only. Maximum of 2 units for hot water and steam heated models (Field Installed)

Part # 09-510 - Vertical Mounting Bracket set for the unheated, electric, hot water and steam heated STD2 series, Obsidian Black. Excludes electric heated with 16kW per motor/fan assembly. Maximum of 2 units for hot water and steam heated models (Field Installed)

Part # 09-520 - Vertical Mounting Bracket set for the unheated, electric, hot water and steam heated HV2/EP2 series, Titanium Silver. Maximum of 2 units for hot water and steam heated models (Field Installed)

Typical Mounting Base

Part # 09-530 - Vertical Mounting Bracket set for the unheated, hot water and steam heated WM series, Titanium Silver. Maximum of 2 units (Field Installed)

Part # 09-546 - Vertical Mounting Bracket set for the unheated, hot water and steam heated BD series, Titanium Silver. Maximum of 2 units (Field Installed)

Part # 09-550 - Vertical Mounting Bracket set for the unheated BD series, Titanium Silver. Maximum of 2 units (Field Installed)

SIDE BAFFLES

Mars side baffles are designed to minimize leakage (bypass) from the space created at the sides of the door when the air curtain is not mounted flush to the wall. The side baffles also improve the air curtain performance by framing the air curtain stream and redirecting it towards the floor. Available in 12” and 24” depth to cover a wide array of applications and may be customized in the field to contour the shapes of the obstructions. Note: The space between the back of the air curtain and the wall must also be blanked off, but that is typically field supplied and installed.

Part # B0101 - Side Vinyl Baffle Kit, 14’ Height, 12” Width (Set of two)

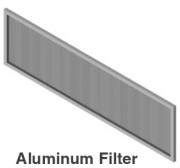
Part # B0103 - Side Vinyl Baffle Kit, 14’ Height, 24” Width (Set of two)

FILTERS

Aluminum and Pleated

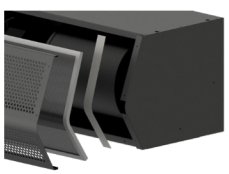
Aluminum (washable) filters are designed to meet UL Class 2 requirements, with superior dust and debris holding capacity. The multi-layer bonded expanded aluminum construction allows uniform loading and low airflow resistance for long life and improved protection. They are durable, rust-proof, and are easy to clean or replace in the field.

Pleated (disposable) filters are designed to meet MERV (Minimum Efficiency Rating Value) 8 and feature an extended area filtering medium that is extremely efficient and ecologically friendly. Made primarily from recycled materials, this medium achieves MERV 8 (particle sizes 3-10 pm) efficiency with low resistance to airflow. Higher MERV rated air filters are also available.



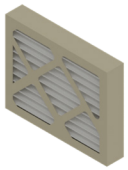
Aluminum Filter

Flat-bank (1/4” - 2”) 1/4” aluminum pressed flat-bank filters are contoured to fit the Mars air curtain intake and do not require any additional parts beyond the included spring-loaded straps.



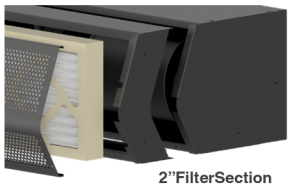
1/4” Pressed Filter

Please note the following represent the most commonly selected accessory in each respective category



Pleated Filter

1/2” to 2” Flat-bank filters require additional depth in front of the unit for the filter enclosure (included). Industrial air curtain models with higher airflows are limited to the 2” aluminum type due to higher face area velocities. Please refer to the filter submittals for additional details and filter compatibility.



2”FilterSection

V-bank

Please contact the factory for additional details.

SOUND DAMPENING

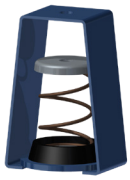
Noise Reduction

Mars offers a noise reduction package for sound abatement in noise-sensitive and tightly enclosed areas. Specialized coatings, custom internal configurations, and dampeners provide noise profiles to suit quiet restaurants, high-end retail shops, work areas near doors, galleries, etc.

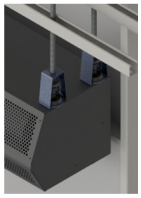
Part # INS-NR - Noise Reduction Package for all LPV2, STD2, PH, HV2 series, one is required for each motor/wheel assembly. Excludes gas heated models.

Vibration Isolation

Mars offers vibration isolation sets for sound and vibration abatement by dampening vibration transfer from the unit to the mounting surface (suspended mounting only). Please refer to the vibration isolation submittals for additional details and compatibility.



Spring Isolator



Typical overhead mounting for Spring Isolator

NOZZLE EXTENSIONS

Mars offers nozzle extensions to lower the air curtain discharge just above the door header. Adjustable from 10” to 16” below the installation height for recessed mounting and high ceiling applications. Constructed with heavy gauge steel and powder coated for improved sound absorption with minimal performance loss. Painted to match unit color and includes trim pieces for field installation. Please refer to the Nozzle Extension submittals for additional details and features.

Nozzle Extention

CUSTOM MATERIALS & FINISHES

Mars offers a variety of material and finish options to complement the space’s architectural/design requirements. From custom materials such as stainless steel and aluminum, to custom-blended colors and coatings, Mars can provide a personalized solution for any application.

Materials

For severe duty applications, 304SS (stainless steel) is available and is best suited for outdoor and/or wet applications. However, for extremely corrosive applications such as marine or caustic environments, 316SS provides superior corrosion resistance, especially from chlorides and chlorinated solutions, but it comes at a premium. Brushed 6061 aluminum is also available for weigh reduction and to meet the project specifications, as required, but is not intended for corrosive environments.

Please note the following represent the most commonly selected accessory in each respective category

Finishes

Upon request, any of the three standard colors may be used on any series. Special RAL colors are also available but are limited to selected stock RAL numbers from the manufacturer. Non-RAL colors may be ordered but will require custom blending and color samples. As an alternative to stainless steel, Heresite and epoxy coatings are available for severe duty applications that requires corrosion resistance. All the above color options are at an additional costs and lead time. Please contact the factory for additional details.

FURNACE OPTIONS

Mars furnace options allows the designers, specifiers and engineers to customize the furnace sequencing, operation and materials to meet the application design requirements. Enhanced furnace heat output control systems are available to assist in minimizing furnace short-cycling, reduce BTU consumption and maintain a de-stratified and more comfortable local area or space. Stainless steel heat exchangers are available for caustic environments to maintain the standard furnace operational lifecycle.

Part # IDF-2STG - Two stage controls for Hi-Lo heat operation (per furnace)

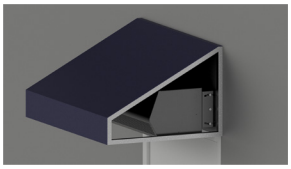
Part # IDF-SS - 409 Stainless Steel Heat Exchangers and Burners (per furnace)

Part # IDF-MOD-RS - Modulating controls for room sensing, 0-10Vdc/4-20mA controls included and factory supplied. Only one controller supplied per air curtain.

Part # IDF-SC - Single stage controls with separated combustion furnace for 100% outside air intake. One required for each furnace.

HARSH WEATHER COVER

Mars offers harsh weather covers to protect the air curtains from the inclement conditions when the air curtain is exposed to outside environment. Made from industrial grade steel tubing and thick durable outdoor rated fade and UV resistant canvas material, the harsh weather cover minimizes the accumulation of snow, ice, and other debris in and on the top of the units. It also reduces the affects of the direct sunlight and retards the premature aging of the air curtain finish and its internal components.



Specifically designed for all Mars unheated models and available with easily replaceable canvas cover, the harsh weather cover offers another layer of protection to maintain the air curtain's standard operational lifecycle. Please refer to the Harsh Weather Covers submittals for additional details and compatibility.