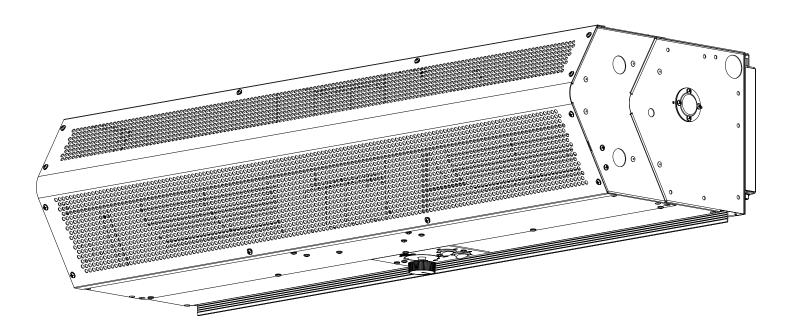


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LPV2 Series Packaged UV Models (UVP)

LoPro Series 2 Commercial Air Curtain Submittal Package



Submitted by:

Mars Air Systems, LLC 14716 S. Broadway Gardena, CA 90248

Project Name	
P.O.#	
S.Q.	
Company	
Print Name	
Signature	
Date	

Company Seal or Stamp

(Electronic Signature Preferred)





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Clean Air Series

(UVC and HEPAC Air Curtain)



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Item No.		Overall Length	Weight (lbs)	Voltage Code & FLA		
	Description	(in)		115V/1Ø	208-230V/1Ø	
		(111)		□ (A)	□ (D)	
LPV2 Series	Packaged UV Models					
☐ LPV225-1U*-OB-UVP	LPV225, 1Mtr, 1/6HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	25	30	3	1.8	
☐ LPV236-1U*-OB-UVP	LPV236, 1Mtr, 1/6HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	36	48	3	1.8	
☐ LPV242-1U*-OB-UVP	LPV242, 1Mtr, 1/6HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	42	53	3	1.8	
☐ LPV248-1U*-OB-UVP	LPV248, 1Mtr, 1/6HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	48	60	3	1.8	
☐ LPV260-1U*-OB-UVP	LPV260, 1Mtr, 1/6HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	60	72	3.5	2.3	
☐ LPV272-1U*-OB-UVP	LPV272, 1Mtr, 1/6HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	72	87	3.8	2.6	
STD2 Series	Packaged UV Models					
☐ STD236-1U*-OB-UVP	STD236, 1Mtr, 1/2HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	36	90	5.7	3.1	
☐ STD242-1U*-OB-UVP	STD242, 1Mtr, 1/2HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	42	98	5.7	3.1	
☐ STD248-1U*-OB-UVP	STD248, 1Mtr, 1/2HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	48	105	5.7	3.1	
☐ STD260-2U*-OB-UVP	STD260, 2Mtr, 1/2HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	60	135	11.1	5.9	
☐ STD272-2U*-OB-UVP	STD272, 2Mtr, 1/2HP, Unhtd, Galv, OB, UVC, 24v Ctrl, Mag Sw (99-018)	72	180	11.4	6.2	
STD2 Series	Packaged HEPAC Models					
☐ STD236-1U*-OB-HCP	STD236, 1Mtr, 1/2HP, Unhtd, Galv, OB, HEPAC, 24v Ctrl, Mag Sw (99-018)	36	120	5.1	2.5	
☐ STD242-1U*-OB-HCP	STD242, 1Mtr, 1/2HP, Unhtd, Galv, OB, HEPAC, 24v Ctrl, Mag Sw (99-018)	42	130	5.1	2.5	
☐ STD248-1U*-OB-HCP	STD248, 1Mtr, 1/2HP, Unhtd, Galv, OB, HEPAC, 24v Ctrl, Mag Sw (99-018)	48	140	5.1	2.5	
☐ STD260-2U*-OB-HCP	STD260, 2Mtr, 1/2HP, Unhtd, Galv, OB, HEPAC, 24v Ctrl, Mag Sw (99-018)	60	180	10.2	5	
☐ STD272-2U*-OB-HCP	STD272, 2Mtr, 1/2HP, Unhtd, Galv, OB, HEPAC, 24v Ctrl, Mag Sw (99-018)	72	240	10.2	5	
STD2 Series	Packaged UV, HEPAC, and Ionizer Models					
☐ STD236-1U*-OB-VHP	STD236, 1Mtr, 1/2HP, Unhtd, Galv, OB, UVC/HEPAC/Ionizer, 24v Ctrl, Mag Sw (99-018)	36	150	5.7	3.1	
☐ STD242-1U*-OB-VHP	STD242, 1Mtr, 1/2HP, Unhtd, Galv, OB, UVC/HEPAC/Ionizer, 24v Ctrl, Mag Sw (99-018)	42	163	5.7	3.1	
☐ STD248-1U*-OB-VHP	STD248, 1Mtr, 1/2HP, Unhtd, Galv, OB, UVC/HEPAC/Ionizer, 24v Ctrl, Mag Sw (99-018)	48	175	5.7	3.1	
☐ STD260-2U*-OB-VHP	STD260, 2Mtr, 1/2HP, Unhtd, Galv, OB, UVC/HEPAC/Ionizer, 24v Ctrl, Mag Sw (99-018)	60	225	11.1	5.9	
☐ STD272-2U*-OB-VHP	STD272, 2Mtr, 1/2HP, Unhtd, Galv, OB, UVC/HEPAC/Ionizer, 24v Ctrl, Mag Sw (99-018)	72	300	11.4	6.2	

* - Use corresponding letters in "Electrical Data" column headers to complete the model numbers (consult factory for alternate voltages).

Features:

- Air curtains are ETL-certified to conform to UL 2021 (US) and CSA 22.2 (Canada) standards for indoor use
- Sleek self-contained one-piece heavy-gauge and corrosion-proof paint lock metal design with fire retardant and rust preventative electrostatic polyurethane powder coating
 - Standard color is Obsidian Black (OB)
- Top mounted and factory wired junction box with labeled wires for easy field wiring provided (6" to 10" service clearance required on the top for STD2 series)
- Low voltage (24Vac) control circuit
- Surface mounted magnetic switch (Part# 99-018) is included
- 12-month parts warranty
- Freight included (FOB continental USA)
- Proudly made in the USA

UVC Package (UVP)

- Patented dual bulb design standard (UVC & UVV) disinfects the airstream, destroying bacteria, mold, and viruses and reducing unwanted odors
- Standard sequence of operation
- Door open: fan and UV ON
- Door closed: fan and UV ON
 - Fan speed can be adjusted using factory-installed variable speed switch
- o Fan ON/OFF Switch provided for unit to work as regular air curtain (If indoor sanitation is not desired)
 - Door open: Fan and UV ON
 - Door closed: Fan OFF and UV ON
- o UV ON/OFF Switch provided to turn UV lamps OFF
- Door open: Fan ON and UV OFF
- Door closed: Fan and UV OFF
- Master controls to turn fan and UV OFF independent of door position
 - o Safety switch to turn fan and UV OFF provided for service
- UVC Germicidal destroys biological contaminants
 - o Sterilizes up to 99.99% of airborne bio-contaminants with multiple passes
 - Perfect for test labs, hospitals, and crowded waiting rooms
 - o Reduces accumulation of pathogens on exposed surfaces of air curtain's internal components and minimizes pathogen redistribution
- UVV Oxidizing destroys chemicals and odors
 - o Destroys ethylene produced by off-gassing, a leading cause of premature aging of fruits and vegetables
 - o Ideal for food storage/processing facilities, waste areas, kitchens, and bathrooms with noxious gases
 - o Low levels of ozone generated

HEPAC Package (HCP)

- ♦ HEPA® filters rated 99.99% per ASHRAE (0.3 micron) and meets UL Standard 900 for Flammability
- Includes 2" pre-filters, MERV 7-8 rated (Minimum Efficiency Reporting Value)
- Air curtain performance is reduced by 10-15% with clean filters. Motor are set to highest speed from the factory.

Combo Package (VHP)

- Package Includes UV, HEPA, and Ionizer
- Fully factory assembled and wired

Mars Recommended Accessories (see catalog for complete listing):

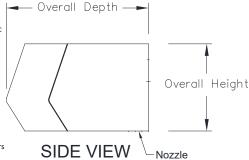
Factory Mounted Control Options

☐ INS-TD, Adjustable time delay (1 sec to 17 min)

Brackets (shipped loose)

☐ B0004, Adjustable mounting bracket set, 3 ½" clearance

 \square B0005, Adjustable mounting bracket set, 7"-13" clearance



-	— · · · · · · · · · · · · · · · · · · ·				
	Air Curtain		Overall	Overall	
	Series	Option	Height	Depth	
			(in)	(in)	
	LPV2	UVP	8	12 ½	
	STD2	UVP	10 %	18 %	
	STD2	HCP	10 %	21 ½	
	STD2	VHP	10 %	27	

NOTE: for ampacity, multiply FLA x 1.25

Room Size (W x L x H)	Minutes Required for Air Sanitation with UV Package*					
LPV2 Series	LPV225	LPV236	LPV242	LPV248	LPV260	LPV272
10' x 10' x 8'	20	14	12	11	9	7
15' x 15' x 8'	46	32	27	24	19	16
STD2 Series	-	STD236	STD242	STD248	STD260	STD272
10' x 10' x 8'	-	9	9	9	5	5
15' x 15' x 8'	-	21	20	20	11	10

*NOTE: test conducted in an enclosed, airtight chamber, Sanitation time may be longer for open space, or when doors/windows are opened



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Document No: CAS-IOM

Date: 10/21/20

CLEAN AIR SERIES

NOTE

Before proceeding, refer to the units specific IOM Manual for safety, installation and start information. Verify proper voltage to the product per local and NEC codes. Ensure proper rotation for units with three phase motors.

CLEAN AIR SERIES

The HEPAC (High Efficiency Particulate Air Curtain) and UVC (Ultraviolet Curtain) section is intended for localized filtering and cleaning inside a building with a NEMA1 condition. The effective area should not exceed 15 cubic feet and may be more effective when the area is enclosed. Both options are available prefactory mounted with the corresponding air curtains with single point connection or field retrofitted and wired by others.

HEPAC SECTION

The HEPAC section is specifically designed and compatible with the STD2 models only and available in section lengths of 36", 42", 48" and 60". For longer units, multiple tandem mounted sections are used to match the unit length.

Note:

 Factory pre-assembled HEPAC section may require the removal of the pre and HEPA filters for mounting and wiring.

The HEPAC section is not suited for outdoor use or in areas with very high and/or large particulates. The frequency of service and/or filter replacement will vary depending on the usage time and application area conditions.

UVC SECTION

The UVC section is specifically designed and compatible with both the LPV2 and STD2 models. They are available in section lengths of 36", 42", 48", 60" and 72". For longer units, multiple tandem mounted sections are used to match the unit length.

Note:

 Factory pre-assembled UVC Section with an Air Curtain are pre-wired and ready for field installation and single point wiring.

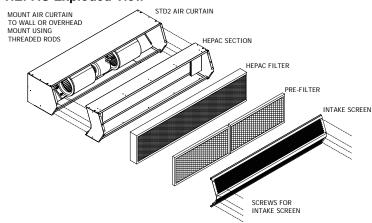
FIELD INSTALLED HEPAC AND UVC SECTION

Both the HEPAC and UVC sections may be field installed and added to an existing unheated Mars Air Curtain unit. (Available sizes previously listed). The top and bottom must be field secured to the existing units using the pre-drilled holes provided on the sections. The number of holes may vary per the length.

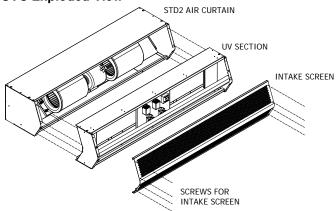
For the HEPAC section, the unit should set at the highest speed for multiple speed motors. No additional wiring is required for the HEPAC section.

UVC section will required additional field mounting and wiring with existing air curtains. Please refer to the wiring instructions and diagrams provided with the UVC Section for your existing field voltage and phase.

HEPAC Exploded View



UVC Exploded View



Warning:

Disconnect and lockout main power before replacing UV bulb.

Clean Air Series Applications Guide



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Mars Air Systems offer the Mars UVC® and HEPAC® packages and sections are designed to minimize the redistribution of airborne pathogens and fine particulates, as well as eliminate unwanted odors in the local space.

We offer three design configurations to address various applications. Each sections are designed to seamlessly integrate with unheated Mars air curtains and are all Proudly Made in the USA.

Packaged UV Models (Mars UVC® & UVP) Ultraviolet Air Curtain Units

- Patented dual bulb design standard (UVC & UVV)
- UVC Germicidal destroys biological contaminants
- Sterilize up to 99.99% of airborne bio-contaminants with multiple passes
- Perfect for test labs, hospitals and small waiting rooms
- UVV Oxidizing destroys chemicals and odors
- Destroy ethylene off-gassing, which is a leading cause of premature aging of fruits and vegetables
- Ideal for food storage/processing facilities, waste areas with noxious gases
- Low levels of ozone generated
- UVC only bulb available for no ozone applications
- Reduces accumulation of pathogens on the exposed surface of the air curtain's internal components and minimizes pathogen redistribution
- 24VAC Control Circuit Standard
- LPV2 or STD2 air curtain required for UVC section
- HEPAC section and Ionizer may be used in tandem with UV for STD2 models
- Maximum operating temperature: 160F
- Indoor use only
- 1-year warranty on workmanship and defects
- Warranty does not cover normal bulb wear
- Proudly Made in the USA

Packaged HEPAC Model (Mars HEPAC® & HCP) High Efficiency Particulate Arrestance Air Curtain Unit

- HEPA® filters rated 99.99% per ASHRAE (0.3 micron) and meets UL Standard 900 for Flammability
- HEPA® filter has extended life, up to 3 years, under normal conditions and with regular service
- 2" pre-filters MERV 7-8 rated (Minimum Efficiency Reporting Value)
- Optional HEPA® filter, ULPA (Ultra-Low Penetration Air) rated 99.99% of particles 0.12 micron and MERV 13 rated 2" pre-filters for extended usage applications or high particulate

- Most viruses, including all SARS-CoV-2, are 0.12 micron as a single virion (unattached to any fluid droplet) but transmission is typically through liquid droplets, which are larger
- The ULPA option is best suited for hospital environments and rooms with infected patients
- The HEPA® does not eradicate pathogens, but instead it distributes them through the large filter surface, collects and compacts them in the filter
- Maintaining a consistent service regiment based on the usage for the pre-filters will increase HEPA® filter life-span and ensure the air curtain performance is not adversely affected
- Air curtain performance is reduced by 10-15% with clean filters. Motor are set to highest speed from the factory.
- 24VAC Control Circuit Standard
- STD2 air curtain required for HEPAC section
- UV section and Ionizer may be used in tandem with HEPAC
- Maximum operating temperature is160 °F
- Indoor use only
- 1-year warranty on workmanship and defects
- Warranty does not cover filters
- Proudly Made in the USA

Air Wash System (AWS) for Doorways Vertically Mounted Combination UVC, HEPAC & Ionizer System

- Triple sanitizing design that includes HEPAC, UVC and lonizer combination
- Vertically mounted dual units includes mounting and framing kit
- Designed to help disperse debris on surfaces and collect airborne pathogens and debris
- Can assist in minimizing the introduction of pathogens and debris from cleaner areas
- Higher usage will require more periodic maintenance and filter and bulb replacement
- 24VAC Control Circuit Standard
- STD2 air curtain required for combination Mars UVC[®] and Mars HEPAC[®] sections
- Maximum operating temperature is160 °F
- Indoor use only
- 1-year warranty on workmanship and defects
- Warranty does not cover filters or normal bulb wear
- Proudly Made in the USA



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SECTION 23 34 33

AIR CURTAINS

Important Note: This specification contains hidden text appearing in red. To show or remove hidden text in MSWord, click the "File" tab or "Office" icon on the top-left corner, select "Options," select "Display," and check or uncheck the box marked "Hidden Text."

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Air curtains for pedestrian entrances.
- B. Air curtains for countertop and drive through windows.
- C. Air curtains for room purification applications.

1.2 RELATED SECTIONS

- A. Section 05 50 00 Metal Fabrications: Concealed steel support members.
- B. Section 06 10 00 Rough Carpentry.
- C. Section 05 41 00 Structural Metal Studs.
- D. Section 07 62 00 Sheet metal flashing.
- E. Section 07 92 00 Joint Sealants.
- F. Section 08 10 00 Metal Doors and Frames.
- G. Section 08 33 00 Overhead Coiling Doors.
- H. Section 08 42 00 Entrance Doors.
- I. Section 26 05 00 Equipment Wiring: Connections to building power distribution.

1.3 REFERENCES

- A. ASTM A240 / A240M -10 Standard Specification for Chromium and Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
- B. ASTM A591 / A591M -98 Standard Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Weight (Mass) Application (Withdrawn in 2005, replaced by A879/A879M).
- C. ASTM A879 / A879M -06 Standard Specification for Steel Sheet, Zinc Coated by the Electrolytic Process for Application Requiring Designation of the Coating Mass on Each Surface.
- D. ASTM A653 / A653M -09a Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- E. UL 507 UL Standard for Safety Electric Fans Intertek Testing Services Listed for US and Canada
- F. NEC National Electric Code.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Include plans, elevations, sections, and details, indicating dimensions, tolerances, materials, fasteners, hardware, finish, piping, electrical wiring diagrams, options, and accessories.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum five years documented experience producing the products specified in this Section
- B. Installer Qualifications: Minimum one years documented experience installing products specified in this Section

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store in a dry, heated storage area until installation of products.

C. Protect materials and finish from damage during handling and installation.

1.7 SEQUENCING

- A. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
- B. Coordinate the installation of wiring and control switches for air curtains with the openings and the hardware provided for such openings.
- C. Install after doors, walls, ceilings, and other adjacent surfaces are finished and painted.

1.8 WARRANTY

A. Standard one-year limited parts warranty for units against defects in workmanship and material.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Acceptable Manufacturer: Mars Air Systems, LLC; 14716 South Broadway St., Gardena, CA 90248. Tel: (310) 532-1555 or (800) 421-1266. Fax: (310) 324-3030. Email: info@marsair.com. Web: www.marsair.com.
- B. Delete one of the following two paragraphs: coordinate with requirements of Division 1 section on product options and substitutions.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 33 00.

2.2 AIR CURTAIN ASSEMBLIES

- A. Motor Fan Assembly: Design for easy removal, assembly, repair, and maintenance.
 - 1. Motor: Totally enclosed air over (TEAO) cooled motor with sealed lifetime prelubricated ball bearings, motor starter and thermal overload protection.
 - a. LPV2 Units: Wired for variable speed operation.
 - b. Electrical Characteristics: 115V AC, single phase; 2.7 Amp (25 inches wide unit), 3.0 Amp (units up to 48 inches wide) 3.5 Amp (60 inches wide unit) or 3.8 Amp (72 inches wide unit) full load per motor/fan.
 - c. Electrical Characteristics: 208/230V AC, single phase; 1.5 Amp (25 inches wide unit), 1.8 Amp (units up to 48 inches wide) 2.3 Amp (60 inches wide unit) or 2.6 Amp (72 inches wide unit) full load per motor/fan..
 - d. Meets NEC. ETL Listed to conform to UL 507 (US) and CSA22.2 (Canada) Standards.
 - 2. Fans: Tangential type, double width, directly driven by an electric motor.

- a. Provide resilient isolation dampening mountings between motor frame and housing.
- b. Factory balanced blower wheel assembly statically and dynamically.
- B. Housing: Self-contained one-piece type for units up to 72 inches in length with sufficient strength for mounting from pre-punched mounting holes at both ends to ceiling without intermediate support.
 - 1. Size:
 - a. Unheated: 12-1/2 inches deep by 8 inches high (including discharge nozzle) by width of unit.
 - 2. Mounting:
 - a. Unheated Inside Mount.
 - b. Mount Location Indicated.
 - 3. Material:
 - a. Provide 18- and 20-gauge electro or hot dipped galvanized steel sheet housing conforming to ASTM A 591 and/or ASTM A 653.
 - b. Provide type 304 stainless steel housing with brushed finish. ASTM A 240/A 240M.
 - 4. Air Inlet Grille and Filters:
 - a. Location: Front.
 - b. Type: Fixed air intake grille.
 - 1) Filter: Aluminum mesh, 1/4 inch (6.4 mm), washable.
 - 5. UV irradiation
 - 1) UV: UVC & UVV germicidal and odor elimination with disposable UV bulbs
 - 2) UV with 100% UVC germicidal only with disposable UV bulb
 - 6. Discharge: Provide integral discharge nozzle specified.
 - 7. Finish and Color: Provide with, no VOC, corrosion resistant polyurethane powder coated finish for sheet metal housings.
 - a. Obsidian Black.
 - b. Pearl White.
 - c. Titanium Silver.
 - d. Stainless Steel.
- C. Environmental Air Curtains: Air purification application models for Heights up to 8 feet (2438 mm) for Environmental Separation and Temperature Control and up to 7 feet (2133 mm) for Flying Insect Control and Room purification applications models for interior air sanitation
 - 1. Discharge Nozzle: Adjustable air foil vanes with a plus/minus 40-degree sweep front to back.
 - 2. Air Velocity at Nozzle:
 - a. LPV225-1: 25 Inch (635 mm) Wide Units: 1800 feet/min (9.1 m/s) single 1/6HP motor/fan assembly.
 - b. LPV236-1: 36 Inch (915 mm) Wide Units: 1800 feet/min (9.1 m/s) single 1/6HP motor/fan assembly.
 - c. LPV242-1: 42 Inch (1067 mm) Wide Units: 1800 feet/min (9.1 m/s) single 1/6HP motor/fan assembly.

- d. LPV248-1: 48 Inch (1220 mm) Wide Units: 1800 feet/min (9.1 m/s) single 1/6HP motor/fan assembly.
- e. LPV260-1: 60 Inch (1524 mm) Wide Units: 1800 feet/min (9.1 m/s) single 1/6HP motor/fan assembly.
- f. LPV272-1: 72 Inch (1830 mm) Wide Units: 1800 feet/min (9.1 m/s) single 1/6HP motor/fan assembly.
- 3. Air Speed at Floor: Minimum of 400 fpm (2 m/s) at 1 foot (304 mm) from the floor
- 4. Air Inlet Grille and Filters:
 - a. Location: Front.
 - b. Type: Fixed air intake grille.
- 5. Sound Pressure Level At 10 feet (3 m) From Nozzle:
 - a. Single Motor/Fan Units (LPV2 25-LPV2 36): 49 dBA.
 - b. Single Motor/Fan Units (LPV2 42): 50 dBA.
 - c. Single Motor/Fan Units (LPV2 48): 52 dBA.
 - d. Single Motor/Fan Units (LPV2 60-LPV2 72): 53 dBA.

2.3 COMPONENTS

- A. Door-Activated Limit switch(s): Provide, field installed magnetic door switch to control air curtain(s) as follows; Automatic on/off control, activates air curtain to full speed when door is opened and turns to low speed when door is closed.
 - 1. Type: Magnetic reed switch and actuator for swing and sliding doors. Industrial floor mounted or surface mounted switches for roll up doors
- B. Optional Digital Programmable Controller:
 - 1. Fully programmable controller
 - 2. Pre-set and fully customizable programs
 - 3. Wireless WiFi control via field supplied smartphone, tablet or computer
 - 4. Time delay (Passive & Adaptive)
 - 5. Factory Integrated temperature control sensors. No external thermostat required.
 - 6. Summer-Winter modes
 - 7. 24/7 timer
 - 8. Maintenance schedule alerts
 - 9. Status display showing date, time, temperature and air curtain mode
 - 10. Multi-unit control capability
 - 11. English (IP) or Metric (SI) display readings
 - 12. Password protected
 - 13. Auto Lock display
 - 14. Emergency shut-off button
 - 15. High temperature lock from fan failure
 - 16. Low voltage control signal for door activation
 - 17. Integrated BMS controls
 - 18. VFD compatible with 0-10VDC output
 - 19. Optional BACnet option
 - 20. Optional adaptive fan speed control and heat control based on existing field conditions. Field mounted outdoor temperature sensors required.
- C. Provide mounting hardware as required for the opening.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that required utilities are in correct location and are of correct capacities for specified products.
- B. Verify openings to receive air curtains are plumb, level, square, accurately aligned, correctly located, and in tolerance.
- C. Examine surfaces to receive air curtains. If surface preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 INSTALLATION

- A. Install air curtains in accordance with approved shop drawings and manufacturer's printed installation instructions.
- B. Install air curtains plumb, level, square, true to line, and weathertight, without warp or rack.
- C. Anchor air curtains securely in place to supports.
- D. Coordinate with sheet metal flashing as specified in Section 07 62 00.
- E. Install joint sealants as specified in Section 07 92 00.
- F. Coordinate with electrical power as specified in Section 26 05 00.
- G. Install door limit switches and adjust for correct operation.
- H. Provide connection to piped services and utilities as specified in Section 22 10 00 and 23 21 00.

3.3 FIELD QUALITY CONTROL

- A. Adjust air curtains to function properly.
- B. Adjust air foil vanes located within the discharge nozzle as required for prevailing conditions at each opening.
- C. Check heated air curtain performance on a calm day by measuring air temperature 6 inches off the floor. Optimal reading is halfway between the temperature inside and outside the building.

3.4 CLEANING

A. Clean air curtains promptly after installation in accordance with manufacturer's instructions.

- B. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- C. Remove and replace damaged components that cannot be successfully repaired as determined by Architect.

3.5 PROTECTION

A. Protect materials and finish from damage until substantial completion.

3.6 SCHEDULES

A. Refer to Air Curtain Schedule appended to this section.

END OF SECTION



LPV2 Submittal Package

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Reference Links

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LPV2-UVP Series CSI spec (Word doc)