

# INSTALLATION INSTRUCTIONS FOR UNHEATED LOW PROFILE (LPV & LPN SERIES) AIR CURTAIN

## READ INSTRUCTIONS BEFORE REMOVING FROM CARTON

### SAVE THIS SHEET FOR FUTURE REFERENCE

#### INSTALLATION INSTRUCTIONS:

1. Carefully remove the unit from the box. Loosen the screws from the intake screen and remove the intake screen.
  2. Gently remove all packaging materials, hardware and all other accessories from interior of unit prior to operating. Severe unit damage will occur if these items are not removed prior to operation.
  3. Remove the Tek Screws from the wall mounting plate and remove the mounting plate from the unit.
  4. Install the mounting plate above the opening. The lowest point of the unit must be at least 1" above any obstructions, i.e., doors and/or door closers, etc... when the unit is installed.
  5. Align the tabs on the rear of the unit with the slots provided on the wall mounting plate (see drawing below). The bottom flange on the unit must also drop in the bottom channel of the wall mounting plate. Replace the Tek Screws to secure the unit in place.
- NOTE: If the holes provided on the bottom of the unit and the bottom of the wall mounting plate do not align, remove the unit and re-install. The holes on the bottom channel of the wall mounted plate must be on the bottom.
6. The discharge must be free and clear of any obstacles for optimum performance.
  7. All wires must be connected internal of the unit and some knockouts are provided. However, it may be necessary to create your own knockout, as required.
  8. The unit must be wired per NEC and local codes.

FIGURE 1

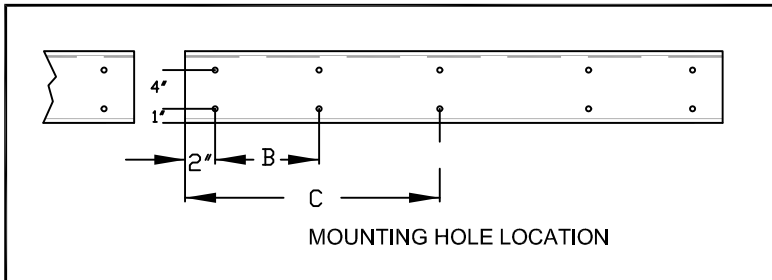
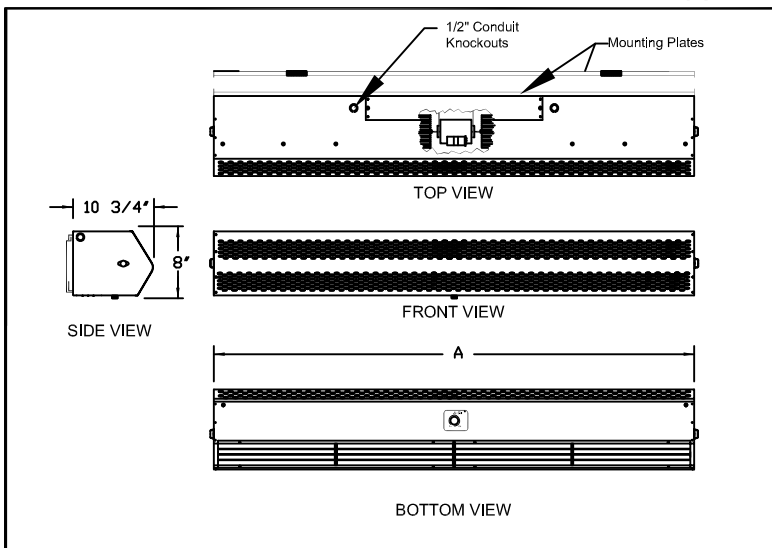


FIGURE 2



#### PRELIMINARY

1. Center the air curtain mounting bracket on solid wall over doorway.
2. Spot holes through 5/16" mounting holes in bracket. If necessary, drill additional holes in bracket to match wall stud or any other mounting bars spacing supplied in the field.
3. Securely fasten mounting bracket with the proper fastener and set air curtain in key hole slots provided.
4. Adjust air directional vanes approximately 15° towards the wind load.
5. Connect to proper voltage and phase.

NOTE: LoPro air curtains are not recommended for heavy insect control.

#### ADJUSTMENTS

1. Pull air directional vanes in air discharge nozzle to proper position with air flow slanted slightly outward around 15°.
2. Set air velocity control louvers so that the air stream just reaches the floor to prevent turbulent mixing of inside and outside air.
3. The unit is to be installed such that the airflow is unobstructed.

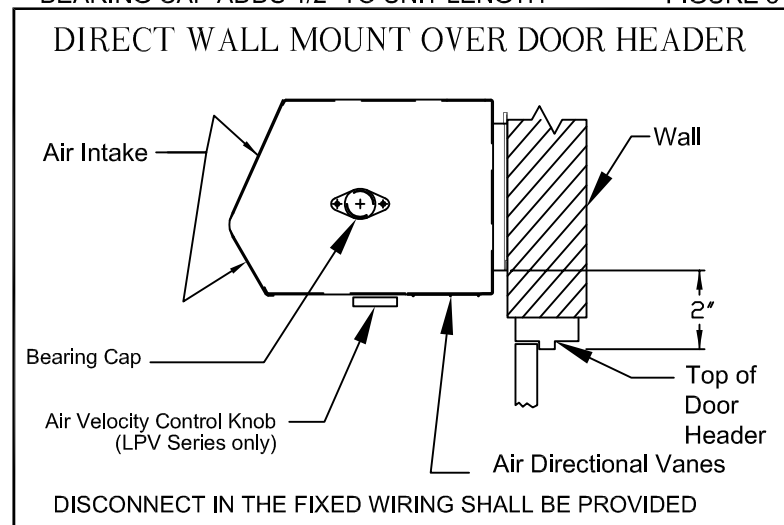
NOTE: MODEL NUMBER DESIGNATES THE LENGTH OF THE UNIT IN INCHES

MODEL NUMBER	Voltage	MODEL LENGTH	MOUNTING HOLE LOCATION	
		A**	B	C
LPV25*	115/208/230 V	25"	-	12.5"
LPV28*	115/208/230 V	28"	-	14"
LPV30*	115/208/230 V	30"	-	15"
LPV36*	115/208/230 V	36"	-	18"
LPV42*	115/208/230 V	42"	-	21"
LPV48*	115/208/230 V	48"	-	24"
LPV60*	115/208/230 V	60"	13 1/4"	30"
LPV72*	115/208/230 V	72"	17"	36"
Units Length 84" and above, use two Mounting Brackets with 2" in between				
LPV84-2*	115/208/230 V	86"	-	21" (2)
LPV96-2*	115/208/230 V	98"	-	24" (2)
LPV108-2*	115/208/230 V	110"	Use LPV48 and 60 brackets	
LPV120-2*	115/208/230 V	122"	13 1/4" (2)	30" (2)
LPV144-2*	115/208/230 V	146"	17" (2)	36" (2)

\*- Unit also available for LPN series

\*\* - BEARING CAP ADDS 1/2" TO UNIT LENGTH

FIGURE 3



# MAINTENANCE INSTRUCTION

## ROUTINE MAINTENANCE

It is imperative to keep the fans clean, as they eventually become coated with residue. Dirty fans will lower the efficiency and eventually throw fans out of balance which can shorten the life of the blower wheels and cause undue wear on the bearings. The time between cleanings depend upon the type and amount of particles floating in the air. Under normal circumstances, the system will require cleaning only about once a year.

**TO KEEP THE LoPro AIR CURTAIN LOOKING NEW, REMOVE SCREWS FROM AIR INTAKE OPENING AND REMOVE AIR INTAKE GRILLE. CLEAN ACCUMULATION OF DIRT FROM MOTOR HOUSING, BLOWER WHEELS & INTAKE GRILLE THEN REINSTALL INTAKE GRILLE.**

**WARNING - TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:**

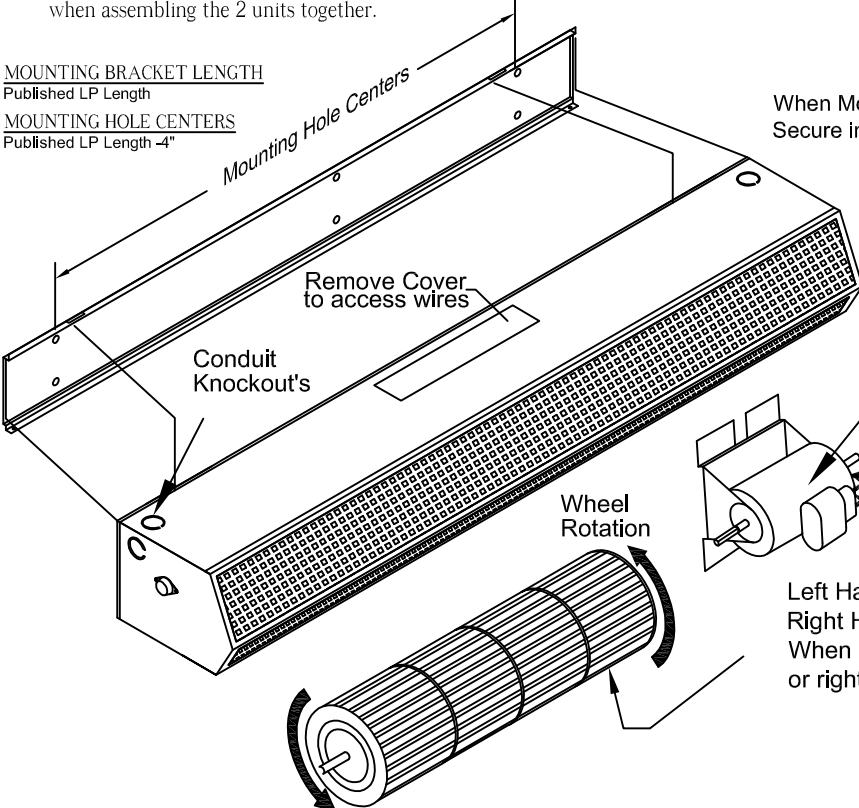
Use this unit only in the manner intended by the manufacturer, if you have any questions, contact the manufacturer. Before servicing or cleaning the unit, switch power off at service panel and lock to prevent power from being switched on accidentally. Servicing an energized air curtain presents a risk of fire, electric shock or injury to persons. **DO NOT** attempt any maintenance unless the electric supply has been completely disconnected. Installation work with all electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

"CAUTION: MOUNT WITH THE LOWEST MOVING PART AT LEAST 7 FT ABOVE FLOOR OR GRADE LEVEL"

Note: For models 84" or longer, knock out must be removed when assembling the 2 units together.

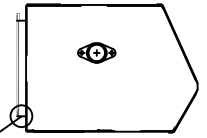
MOUNTING BRACKET LENGTH  
Published LP Length

MOUNTING HOLE CENTERS  
Published LP Length -4"



"ATTENTION: INSTALLER DE SORTE QUE LES PIECES INFERIEURES SOIENT A AU MOINS 2.5 METERS AU-DESSUS DU PLANCHER OU DU SOL"

When Mounting Plates are inserted together. Secure in place with (2) #10 Tek Screws.



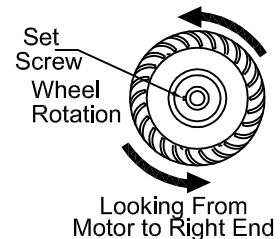
ALL NSF MODELS (LPN SERIES) MOUNTING HEIGHT MAY NOT EXCEED 7 FT OR 2.5m ABOVE FLOOR OR GRADE LEVEL.

Motor is double shaft, resilient mounted with automatic thermal overload protection and lifetime prelubricated double sealed ball bearings.

\* Wired Per NEC code.

NOTE: WHEN ORDERING PARTS, INCLUDE SERIAL NUMBER AND MODEL NUMBER FROM NAME PLATE.

Left Hand Blower Wheel  
Right Hand Not Shown  
When Ordering Specify left or right.



## AVAILABLE REPLACEMENT PARTS

Metal Cabinet  
Cross Flow Blower Wheel LH & RH  
Air Inlet GRILLE  
Air Directional Vane  
Bearing Cap  
Speed Control Switch (LPV Series only)  
Door Limit Switch  
Motor - 115Vac or 208/230Vac  
Washable filter required for NSF service windows models

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