

NOTES:

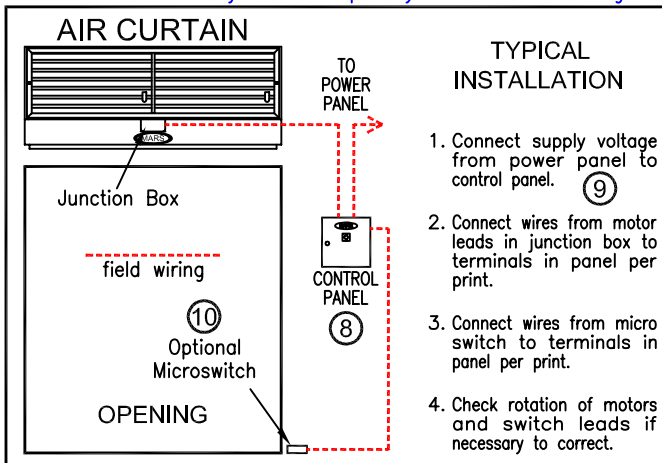
- ① This product is designed to comply with the National Electric Code (NEC) and is U.L. Listed.
- ② 7/16" mounting holes (4) provided, (2) on each end.
- ③ Mounting hole location for model number 60-2 is 1 inch.
- ④ All units have a self contained one piece cabinet, fire retardant and corrosion proof paint lock metal, double protected with baked on gray color rust preventative electrostatic polyurethane powder coating.
- ⑤ Cabinet has sufficient strength for fastening to wall on both ends without intermediate support.
- ⑥ One watertight electrical junction box per motor mounted on bottom center of each motor/fan assembly. Specify for alternate locations. (See rear view for 36 & 60-2 J-Box locations)
- ⑦ Unit is to be installed such that air flow is unobstructed. Air discharge nozzle containing adjustable air directional vanes with 40° sweep front to back.
- ⑧ Optional motor control panel. Overloads are factory set. Standard procedure is to ship panel loose for remote mount. Can be factory mounted on either left or right hand side of air curtain housing. Please specify.
- ⑨ Circuit protection as per NEC by others.
- ⑩ Optional microswitch is field installed and is to be wired to the control panel. Switch to be mounted such that the air curtain turns on as door begins to open.



-2, -3 & -4 designates the number of motors.

*NOTE: Louver assembly size and quantity varies with unit length.

| MODEL NUMBER | MOUNTING CENTERS A | LENGTH B | DEPTH C | HEIGHT D |
|--------------|--------------------|----------|---------|----------|
| 36 | 35 1/8" | 36" | 11 1/4" | 14" |
| 42 | 41 1/8" | 42" | 11 1/4" | 14" |
| 48 | 47 1/8" | 48" | 11 1/4" | 14" |
| 64-2 | 63 1/8" | 64" | 11 1/4" | 14" |
| 72-2 | 71 1/8" | 72" | 11 1/4" | 14" |
| 78-2 | 77 1/8" | 78" | 11 1/4" | 14" |
| 84-2 | 83 1/8" | 84" | 11 1/4" | 14" |
| 96-2 | 95 1/8" | 96" | 11 1/4" | 14" |
| 96-3 | 95 1/8" | 96" | 11 1/4" | 14" |
| 108-2 | 107 1/8" | 108" | 11 1/4" | 14" |
| 108-3 | 107 1/8" | 108" | 11 1/4" | 14" |
| 120-3 | 119 1/8" | 120" | 11 1/4" | 14" |
| 144-3 | 143 1/8" | 144" | 11 1/4" | 14" |
| 144-4 | 143 1/8" | 144" | 11 1/4" | 14" |



| | |
|-----------|-------------|
| PROJECT | MODEL NO. |
| LOCATION | DRAWING NO. |
| ARCHITECT | DATE |
| ENGINEER | SHEET OF |
| | DRAWN BY |
| | CHECKED BY |
| | PROJECT NO. |

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1/2 HP STANDARD UNHEATED MODELS

| MARK | STANDARD MODEL NUMBER | NO. REQ'D | LENGTH | WEIGHT (LBS) | MOTOR FAN DATA | | | | | | | | REMARKS | | |
|------|-----------------------|-----------|--------|--------------|----------------|-----------|---------------|-----------------------------|-------------|----------------------------|-----------|-------------------|---------|-------------------|---------------------------------|
| | | | | | MOTOR HP | MOTOR RPM | VOLTS & PHASE | FLA (AMPACITY) SINGLE PHASE | | FLA (AMPACITY) THREE PHASE | | Max FPM at Nozzle | | Max CFM at Nozzle | dBA Measured 10 ft. from Nozzle |
| | | | | | | | | 115V | 208V 240V | 208V 240V | 460V | | | | |
| | 36 | | 3' | 75 | 1/2 | 1750 | | 5.1 (6.4) | 2.5 (3.2) | 1.8 (2.3) | 0.8 (1.0) | 3400 | 2550 | 66 | |
| | 42 | | 3' 6" | 80 | 1/2 | 1750 | | 5.1 (6.4) | 2.5 (3.2) | 1.8 (2.3) | 0.8 (1.0) | 2925 | 2550 | 66 | |
| | 48 | | 4' | 90 | 1/2 | 1750 | | 5.1 (6.4) | 2.5 (3.2) | 1.8 (2.3) | 0.8 (1.0) | 2550 | 2550 | 66 | |
| | 64-2 | | 5' 4" | 125 | Two 1/2 | 1750 | | 10.2 (12.8) | 5.1 (6.4) | 3.6 (4.5) | 1.6 (2.0) | 3020 | 5100 | 68 | |
| | 72-2 | | 6' | 135 | Two 1/2 | 1750 | | 10.2 (12.8) | 5.1 (6.4) | 3.6 (4.5) | 1.6 (2.0) | 3475 | 5100 | 68 | |
| | 78-2 | | 6' 6" | 145 | Two 1/2 | 1750 | | 10.2 (12.8) | 5.1 (6.4) | 3.6 (4.5) | 1.6 (2.0) | 3200 | 5100 | 68 | |
| | 84-2 | | 7' | 150 | Two 1/2 | 1750 | | 10.2 (12.8) | 5.1 (6.4) | 3.6 (4.5) | 1.6 (2.0) | 2925 | 5100 | 68 | |
| | 96-2 | | 8' | 160 | Two 1/2 | 1750 | | 10.2 (12.8) | 5.1 (6.4) | 3.6 (4.5) | 1.6 (2.0) | 2550 | 5100 | 68 | |
| | 96-3 | | 8' | 190 | Three 1/2 | 1750 | | 15.3 (19.2) | 7.5 (9.4) | 5.4 (6.9) | 2.4 (3.0) | 3825 | 7650 | 71 | |
| | 108-2 | | 9' | 195 | Two 1/2 | 1750 | | 10.2 (12.8) | 5.1 (6.4) | 3.6 (4.5) | 1.6 (2.0) | 2550 | 5100 | 71 | |
| | 108-3 | | 9' | 210 | Three 1/2 | 1750 | | 15.3 (19.2) | 7.5 (9.4) | 5.4 (6.9) | 2.4 (3.0) | 3400 | 7650 | 71 | |
| | 120-3 | | 10' | 220 | Three 1/2 | 1750 | | 15.3 (19.2) | 7.5 (9.4) | 5.4 (6.9) | 2.4 (3.0) | 3060 | 7650 | 71 | |
| | 144-3 | | 12' | 240 | Three 1/2 | 1750 | | 15.3 (19.2) | 7.5 (9.4) | 5.4 (6.9) | 2.4 (3.0) | 2550 | 7650 | 71 | |
| | 144-4 | | 12' | 280 | Four 1/2 | 1750 | | 20.4 (25.6) | 10.2 (12.8) | 7.2 (9.0) | 3.2 (4.0) | 3400 | 10,200 | 73 | |

EQUIPMENT SPECIFICATIONS – Standard Features

GENERAL

Air curtain shall be a Mars® Air Doors brand air curtain: Type Standard Unheated.

APPROVALS

Air curtain shall be Underwriters Laboratories Listed and meet the requirements of the National Electric Code.

CABINET

Cabinet shall be a self contained one piece housing with sufficient strength for fastening to wall on both ends without intermediate support. Cabinet constructed of fire retardant, corrosion proof paint lock metal and double protected with gray baked rust preventative electrostatic polyurethane powder coating. Cabinet to have mechanically field adjustable variable intake louver assembly capable of reducing outlet air velocity up to 60% with louver in totally closed position. Discharge air outlet nozzle shall be wedge shaped containing adjustable air directional vanes with 40' sweep front to back. Motor/Fan assembly to be easily accessible for maintenance.

MOTORS AND BLOWER WHEELS

Motor(s) shall be totally enclosed air over (TEAO) type suitable for continuous heavy duty, all angle operation. Construction shall include sealed lifetime pre-lubricated ball bearings, resilient mounted and protected by an automatic reset thermal overload switch. Motor(s) to have double extended shaft and direct drive, double inlet, dynamically balanced forward curved squirrel cage blower wheels.

ELECTRICAL WIRING

Each motor to have a watertight junction box to be mounted on bottom center of each motor/fan assembly. Specify for alternate locations.

GUARANTEE

Shall be five years on all parts.

An equipment specification can be prepared by combining the standard features with the checked boxes below indicating the selection of the optional features.

OPTIONAL FEATURES

When checked below, the air curtain will be supplied with the following special features.

- Explosion proof motors
- Two speed motor (Available in single phase only)
- Door microswitch(s) (20 amp) for automatic on/off control. Turns air curtain on when door is opened and off when door is closed. Field installed.
 - Plunger type Roller type

NOTE:All 3 Phase Motors or Single Phase Combined Motors greater than 1 Hp or over 250Vac or greater than 20 Amps require a motor control panel whenever a door microswitch is used to start and stop the air curtain. A door microswitch may be used to directly control one 1 HP or one or two 1/2 HP, single phase motors without the need for a motor control panel. (As long as it does not exceed 20 AMPS or 250 VAC)

- Wall mounted control panel Factory mounted control panel on air curtain
- Indicate the total number of motors to be powered through panel
 - 1 2 3 4 5 6
- Plates for side extension of mounting points
 - 5 inch extension 7 inch extension 9 inch extension
- Adjustable mounting brackets to clear any wall obstruction of air flow
 - 2 1/2 inch clearance 4 inch clearance 7 inch clearance 10 inch clearance
- Extended Wall Mounting Brackets for drum type roll-up doors
 - 10 inch clearance 16 inch clearance 19 inch clearance 23 inch clearance
- All stainless steel housing
- Washable aluminum air filter
 - In lieu of adjustable inlet air louver
 - In conjunction with adjustable inlet air louver

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