

JOB:

ARCHITECT/ENGINEER:

DRWG.: \_\_\_\_\_

CONTRACTOR:

SHEET \_\_\_\_\_ of \_\_\_\_\_ DATE: \_\_\_\_\_

MARK	HEATED MODEL NUMBER	NO. REQ'D	LENGTH	WEIGHT (LBS)	MOTOR FAN DATA								REMARKS	
					MOTOR HP	MOTOR RPM	VOLTS & PHASE	HEATER INPUT, kW ②	AMPS ①, ②	TEMP RISE °F ②	MAX FPM @ NOZZLE	MAX CFM @ NOZZLE		dBA Measured 10 ft. from Nozzle
	E36		3'		1/2	1750					3400	2550	66	
	E38		3' 2"		1/2	1750					3225	2550	66	
	E42		3' 6"		1/2	1750					2925	2550	66	
	E48		4'		1/2	1750					2550	2550	66	
	E60		5'		1/2	1750					2040	2250	66	
	E64-2		5' 4"		(2) - 1/2	1750					3040	3800	68	
	E72-2		6'		(2) - 1/2	1750					3475	5100	68	
	E78-2		6' 6"		(2) - 1/2	1750					3200	5100	68	
	E84-2		7'		(2) - 1/2	1750					2925	5100	68	
	E96-2		8'		(2) - 1/2	1750					2550	5100	68	
	E96-3		8'		(3) - 1/2	1750					3825	7650	71	
	E108-3		9'		(3) - 1/2	1750					3450	7650	71	
	E120-3		10'		(3) - 1/2	1750					3060	7650	71	
	E144-3		12'		(3) - 1/2	1750					2550	7650	71	

NOTES: ① Represents unit's full load current (FLA). For ampacity (AMPC), multiply by 1.25.

② Refer to heater availability chart for parameter values.

**EQUIPMENT SPECIFICATIONS - Standard Features**

GENERAL: Air curtain shall be a Mars® Air Doors brand air curtain: Type Standard Electric Heated Models. APPROVALS: Air curtain shall meet the requirements of the National Electric Code (N.E.C.) and shall be Canadian and U.S. Engineering Testing Laboratories (ETL) Certified.

**CABINET**

Cabinets 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 by gray baked rust preventative electrostatic polyurethane powdercoating. Cabinet to have mechanically field adjustable air intake louver assembly, capable of reducing outlet air velocity up to 60% with louvers in totally closed position. Discharge air outlet nozzle shall be wedge shaped containing adjustable air directional vanes with a 40° sweep front to back. Motor/Fan Assembly assembly to be easily accessible for maintenance.

**ELECTRIC HEATER COIL**

The heating coils shall be an open coil type for rapid temperature rise to be located in the air curtain nozzle directly in the air stream. Thermal overload protection shall be provided by manual reset protectors, which shall directly disconnect the electric power from the heaters in the event of an overload. Secondary protectors in the heating contactor shall not be substituted.

**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 quick disconnect plug for fast and easy removal of motor/fan assembly for inspection and cleaning. Motor(s) to have double extended shaft and direct drive, double inlet, dynamically balanced, forward curved squirrel cage blower wheels.

**ELECTRIC WIRING**

Air curtain shall contain prewired, control panel shipped loose, ready for power connection. Panel to be mounted on right hand side of unit unless otherwise specified. Control panel adds 4 inches to unit's overall length and requires an additional 20 inches of clearance from the end of the cabinet for access to panel. Unit shall include a 24 volt thermostat with "heat/off/fan" switch, shipped loose and field installed. Terminal block provided inside panel.

GUARANTEE Shall be 18 months 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.

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

- Two speed motor with HI/LO switch located on control panel. If 480 volt air curtain is specified, a separate 208-240V/1 phase service is required.
- HI/LO heat control switch located on control panel
- Door microswitch (20Amp) for automatic on/off control. Turns air curtain on when door is opened and turns the air curtain off when door is closed. (Field installed)
  - Plunger type
  - Roller type
- Delay microswitch with delay timers premounted in the control panel (check type below)
  - Fixed delay (preset at factory, specify delay)
    - 30
    - 60
    - 90
    - 120
    - 240
    - 600 seconds
  - Adjustable time delay (field adjustable to 17 minutes)
- Washable aluminum air filter
  - In lieu of adjustable inlet air louver
  - In conjunction with adjustable inlet air louver
- 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 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

# 1/2 HP STANDARD ELECTRIC HEATED MODELS