



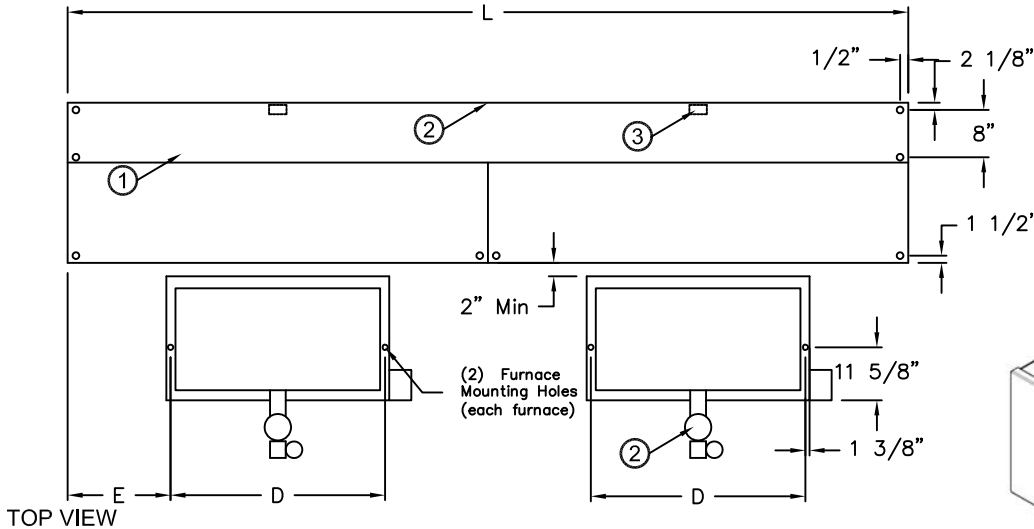
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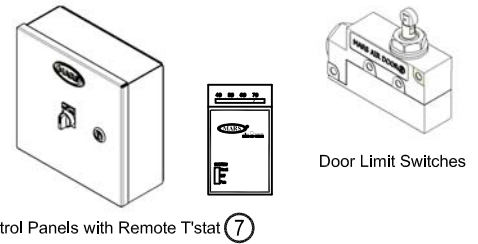
PROJECT		OPTIONS/ITEMS	
TITLE		DATE	
COMMENTS		4/25/16	PAGE
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MODEL NO. EP2 Series	DRAWING NO EP2I-F	DRAWN BY BH	CHECKED BY
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# Indirect Fired Gas Heated Drawing

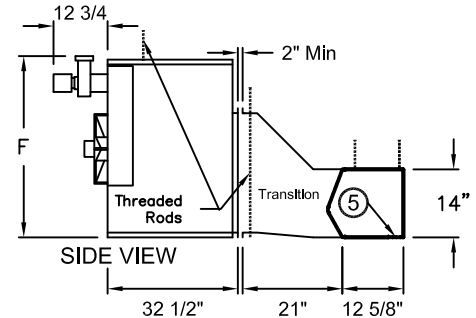
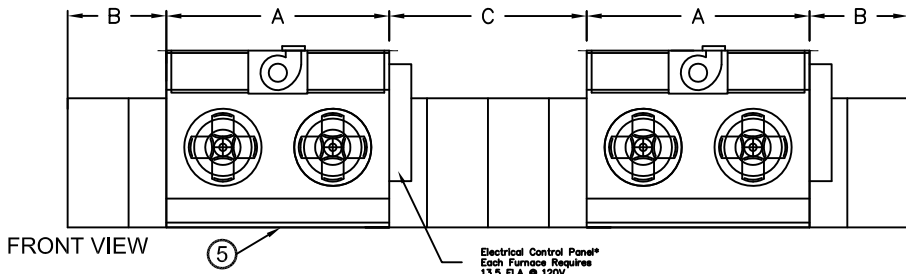
## EP2 (Extra Power 2) Series



### 7 Recommended Accessories



NOTE:  
 Dual Furnace model shown. For Single Furnace models, omit one dimension A and dimension C.



### Notes:

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

MODEL NUMBER	Overall Width (in) L	Furnace Width (in) A	End Space (in) B	Center Space (in) C	Mounting Distance (in) D	End Dim (in) E	Furnace Height (in) F	Furnace Size (MBH)
EP296-2I*-TS	96	50 3/4	22 5/8	-	48 5/8	24	34	400
EP2108-2I*-TS	108	50 3/4	28 5/8	-	48 5/8	30	34	400
EP2120-2I*-TS	120	32 3/4	13 5/8	27 1/4	30 5/8	15	33 3/4	2@250
EP2120-3I*-TS	120	50 3/4	3	12 1/2	48 5/8	2 1/8	34	2@300
EP2144-3I*-TS	144	50 3/4	10 5/8	21 1/4	48 5/8	12	34	2@350

- The Air Curtains are ETL Listed for the US and Canada with 7/16" mounting holes for overhead mounting.
- The Furnaces are ETL verified to be 83% efficient with 3/8" overhead mounting hardware for overhead mounting.
- Cabinet has sufficient strength for fastening from overhead on both ends without intermediate support. Furnace must be mounted at least 2" away from the transition. Transition pieces are provided with pilot holes for easy field assembly and hardware is included. Units larger than 8' utilize multiple transitions.
- Internal J-Box(es) for electrical wiring: one motor-(1) 2"x 4"; two motors-(1) 4"x 4"; three motors-(2) 4"x 4".
- 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.
- Furnaces with impellers have positive pressure, 20 gauge aluminized tubular heat exchanger with in-shot burner technology, power vented exhaust (horizontal or vertical), single stage gas valve, direct spark ignition and certified for Category I and III venting.
- Circuit protection as per NEC by others.
- Optional motor control panel, door limit switch and mounting brackets are field installed and/or wired by others. The door limit switch is to be mounted such that the air curtain turns on as door begins to open. To prevent unit damage, the mounting brackets must be installed such that the bottom of the air curtain is not below the door header.

# EP2 (Extra Power 2) Series

Indirect Gas Fired

Model Lengths 96" – 144"



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## Indirect Gas Fired Data Sheet

### Applications: Environmental Separation (up to 16')

EP2 (Extra Power) Series 2	Mechanical Data							Lab Data	
Model Number	Nozzle Length (in)	Length (in)	Min. Depth (in)	Height (in)	Motor (hp)	Total Weight**** (lbs)	Furnace Weight (lbs)	Max Velocity (fpm)	Max Volume (cfm)
EP296-2I*-TS	96	96	67 1/2	33	Two 3	705	335	4800	9600
EP2108-2I*-TS	108	108	67 1/2	33	Two 3	726	335	4266	9600
EP2120-2I*-TS	120	120	67 1/2	33	Two 3	828	2 @ 211	3840	9600
EP2120-3I*-TS	120	120	67 1/2	33	Three 3	1105	2 @ 307	5760	14400
EP2144-3I*-TS	144	144	67 1/2	33	Three 3	1174	2 @ 321	4800	14400

\* - 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 a 17% reduction in the performance data.

\*\* - Total Weight includes air curtain, transition, and furnace.

### Features:

- Air Curtain and Transition
  - 3 HP Continuous Duty Motors
  - Air curtain is a self-contained one-piece heavy gauge corrosion proof paint lock metal design\*
  - Air curtain is ETL Certified to conform to UL 507 (US) and CSA 22.2 (Canada) Standards
  - Top mounting holes provided (7/16")
  - Cabinet has sufficient strength for fastening from overhead on both ends without intermediate support
  - Adjustable air directional vanes with 40° sweep front to back
  - Transition is shipped KD (Knocked Down) to minimize freight and storage expenses
  - Transition pieces are provided with pilot holes for easy field assembly (Hardware included)
  - Standard color is Titanium Silver
  - Rust preventative electrostatic polyurethane powder coating
  - 12-month parts warranty
  - Freight FOB the factory
  - Proudly Made in the USA
- \*Note: Motor/Fan Assembly(s) (MFA) are shipped loose to minimize freight damage and installation costs. EP2 Series is single speed only and not compatible with VFD.

### Indirect Gas Fired Furnaces

- ETL verified to be 83% efficient
- In-shot burner technology
- Aluminized tubular heat exchanger (20 gauge)
- Positive pressure 120V impellers (separate 120V, 1Ø power required)
- Power vented exhaust
- Single stage gas valve
- Standard direct spark ignition
- Certified for Category I and III Venting
- Natural gas
- Factory test fired
- Overhead mounting hardware provided (2 per furnace)

### Mars Recommended Accessories (see submittals for additional details):

- Door limit switches
  - 99-125, Industrial surface-mounted door limit switch
- Controllers
  - MCPA-†U\*, Motor Control Panel, 120V control voltage († = # of Motors, \* = Voltage Code)
    - MCP-TD, Adjustable time delay, 1sec-100hr (panel required)

Note: Dry contact provided in panel for monitoring motor. 24Vac signal provided from panel for controlling motor
- Non-fused disconnect, panel-mounted
- IDF-2STG, Two-stage heat exchanger
- IDF-SS, 409 stainless steel heat exchanger
- IDF-MOD-RS, Room sensor for modulating gas valves (0-10VDC/4-20mA control voltage by others)

### Sound Levels: (measured at 10' in an open field)

2 Motor Unit = 79 dBA, 3 & 4 Motor Unit = 81 dBA

EP2 (Extra Power) Series 2	Indirect Fired Gas Data					
Model Number	# of Furnaces	Input MBH per Furnace	Total Output MBH	Temp Rise (°F)	Flue Size	Natural Gas (NPT) CONN
EP296-2I*-TS	1	400	332	32	6" Rnd	3/4"
EP2108-2I*-TS	1	400	332	32	6" Rnd	3/4"
EP2120-2I*-TS	2	250	415	40	5" Rnd	2 @ 1/2"
EP2120-3I*-TS	2	300	498	32	6" Rnd	2 @ 3/4"
EP2144-3I*-TS	2	350	581	37	6" Rnd	2 @ 3/4"

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

Note: Gas pressure required min/max in ("wc)(kPa): Natural Gas (3.5/14)(0.9/3.5) and LP (10/14)(2.5/3.5)

Electrical Data (FLA)	Unit Voltage (Voltage Code)			Furnace
	208/230v/3Ø (G)	460v/3Ø (H)	575v/3Ø (I)	
EP296-2I*-TS	16.6/15.2	7.6	6.0	13.5
EP2108-2I*-TS	16.6/15.2	7.6	6.0	13.5
EP2120-2I*-TS	16.6/15.2	7.6	6.0	16.0
EP2120-3I*-TS	24.9/22.8	11.4	9.0	22.6
EP2144-3I*-TS	24.9/22.8	11.4	9.0	27.0

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

Alternate voltage codes with FLA (Full Load Amp) data:

380-415V/3Ø/50Hz (W) - 4.5A per motor

Note: For ampacity, multiply FLA X 1.25

EXAMPLE

EP2 144-3 I H-TS

