

EP2 (Extra Power 2) Series

Hot Water/Steam Heated

Model Lengths: 96"–144"

Environmental Separation (up to 16')

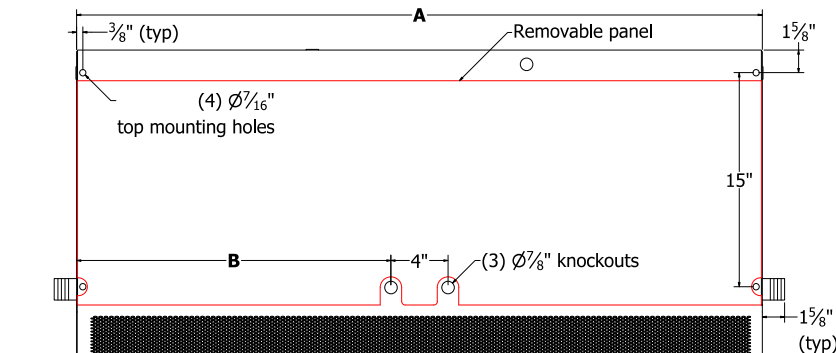
Insect Control (up to 14')



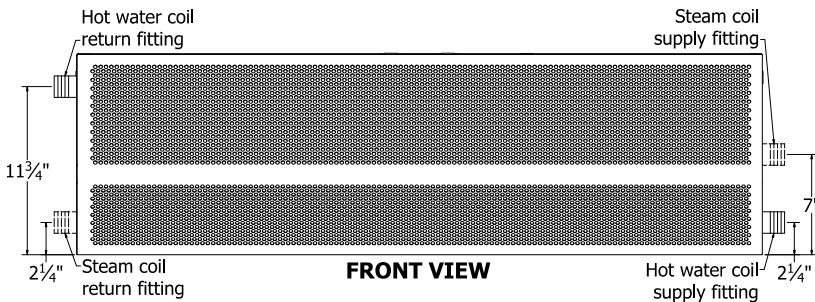
atmosphere is everything

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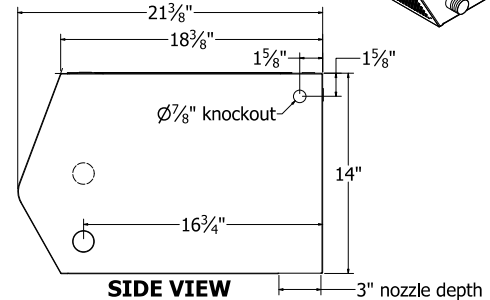
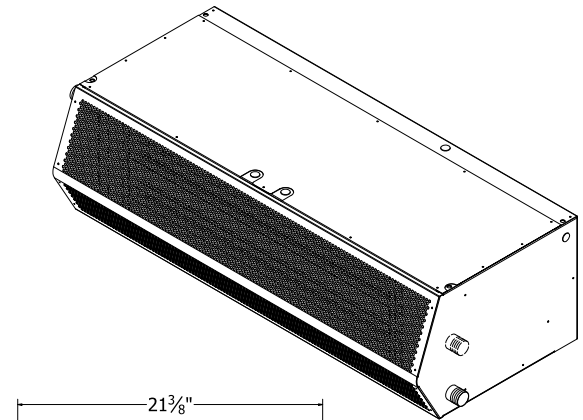
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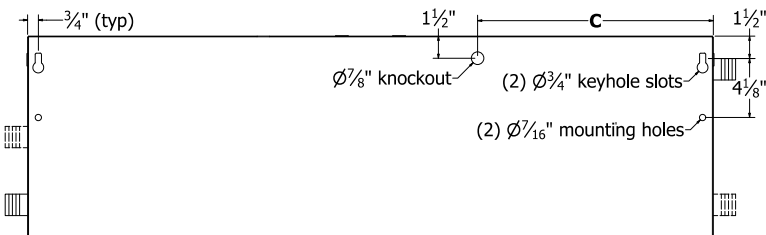
TOP VIEW



FRONT VIEW



SIDE VIEW



REAR VIEW



Notes:

1. Internal junction boxes provided for electrical wiring: (1) 2"x4" box for one-motor units, (1) 4"x4" box for two-motor units, (2) 4"x4" box for three-motor units.
2. Recommended service clearances are 12" to the left and right sides, 24" on top, and 24" in front of the unit.
3. Circuit protection (per NEC) to be installed by others.
4. To prevent accidental damage during operation, unit must be installed so that the bottom of the air curtain does not extend below the door header.
5. Unit can be fastened to wall on both ends without intermediate support.
6. 1 1/2" MPT coil connections.

Model Number	Mechanical Data						Lab Data	
	Overall Length A (in)	Nozzle Length (in)	Top Knockout Location B (in)	Rear Knockout Location C (in)	Motor (hp)	Weight (lb)	Max Velocity (fpm)	Max Volume (cfm)
<input type="checkbox"/> EP296-2**-TS	96	96	43 1/2	52 1/2	(2) 3	325	4800	9600
<input type="checkbox"/> EP2108-2**-TS	108	108	49 1/2	58 1/2	(2) 3	345	4200	9600
<input type="checkbox"/> EP2120-2**-TS	120	120	55 1/2	64 1/2	(2) 3	385	3840	9600
<input type="checkbox"/> EP2120-3**-TS	120	120	35 1/2	44 1/2	(3) 3	440	5760	14400
<input type="checkbox"/> EP2144-3**-TS	144	144	43 1/2	52 1/2	(3) 3	500	4800	14400

* – Use corresponding letters in "Electrical Data" column headers (see page 2) to complete the model numbers.

Note: above data is for 60 Hz at 3450 RPM. For 50 Hz, RPM is 2850 with a 17% reduction in performance.

NOTE: Mars Air Systems, LLC reserves the right to change specifications and product design without notice. Such revisions do not entitle the buyer to corresponding changes, improvements, additions, or replacements for previously purchased equipment.

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Standard Features:

- ❖ ETL-certified to conform to UL 1995 (US) and CSA 22.2 (Canada) standards for indoor use
- ❖ Sleek self-contained one-piece heavy-gauge corrosion-proof paint lock metal design
- ❖ Fire retardant and rust preventative electrostatic polyurethane powder coating
 - Standard color is Titanium Silver (TS)
- ❖ 3 HP continuous duty Totally Enclosed Air Over (TEAO) motors (NEMA 1)
- ❖ Adjustable air directional vanes with 40° sweep front to back
- ❖ 18-month parts warranty
- ❖ Freight included (FOB continental USA)
- ❖ Proudly made in the USA

Hot Water and Steam Coils

- ❖ Coil casings shall not be less than 16-gauge galvanized steel with tube holes formed with extruded collars
- ❖ Fins are die formed 0.006" aluminum (1 row – 10 FPI, 2 row – 8 FPI)
- ❖ Coil tubes constructed of heavy wall, 5/8" OD seamless copper (Steam – 0.035" & Hot Water – 0.025")
- ❖ Coil tubes arranged in a staggered pattern and mechanically expanded into fins to ensure a uniform pressure bond
- ❖ Manifolds shall be of heavy seamless copper construction
- ❖ All joints shall be brazed with high temperature silver brazing alloy (Steam – 7% & Hot Water – 3%), max steam operating pressure: 30 PSI
- ❖ Fittings shall be of wrought copper or similar construction such that the entire fluid circuit shall be of compatible nonferrous materials
- ❖ Manifold shall be fitted with 1/4" vent or drain fittings
- ❖ Supply fitting is on the right side of coil. Return fitting is on the left side
 - Same end connections available (see Coil Options below)

Mars Recommended Accessories (see [catalog](#) for complete listing):

- ❖ **Door Limit Switches** (\$) ☐ 99-125, Industrial surface mounted magnetic switch (controller required)
 - ❖ **Controllers**
 - ☐ MCPD-†V*, [Motor Control Panel](#), 120V control voltage († = # of Motors, * = Voltage Code) (\$)
 - ☐ MCP-TD, Adjustable time delay, 1sec-100hr (panel required)
 - ☐ MCP-24V, Low voltage control option (panel required)
 - ☐ BMS-303, BMS for monitor and control (panel with MCP-24V required)

Note: Dry contact provided in panel for monitoring motor. 24Vac signal provided from panel for controlling motor.
 - ❖ **Thermostats** (\$) ☐ 99-063, Thermostat, line voltage up to 250V max, single stage, single pole
 - ❖ **Brackets** (\$) ☐ B0005, Adjustable mounting bracket set, 7"-13" clearance ☐ B0008 to B0011, Extended wall mounting bracket set, 10", 16", 19", and 23" clearance respectively
 - ❖ **Severe Duty and Finish**
 - ☐ HSG-304SS-HV/EP, 304 Stainless steel housing construction
 - ☐ INS-WD-EP2, Washdown motor fan assembly, IP54
 - ☐ INS-XP-EP2, Explosion resistant motor fan assembly, Class 1, Division 1, Group D (TENV)
 - ❖ **Coil Options**
 - ☐ HSG-COIL-LH, Accessory, Left Hand HW/S Coil Connection Adder
 - ☐ HSG-COIL-RH, Accessory, Right Hand HW/S Coil Connection Adder
- (S) = Shipped loose

Sound Levels (measured at 10' in a free field):

1 Motor Unit = 76 dBA, 2 Motor Unit = 79 dBA, 3 Motor Unit = 81 dBA

Coil Data	Hot Water			Steam		
	Coil Code (X)	GPM	MBH	Temp Rise (°F)	Coil Code (Z)	MBH
<input type="checkbox"/> EP296-2**-TS	2 Row	26	284	28	2 Row	443
<input type="checkbox"/> EP2108-2**-TS	2 Row	27	306	30	2 Row	471
<input type="checkbox"/> EP2120-2**-TS	2 Row	28	326	32	2 Row	497
<input type="checkbox"/> EP2120-3**-TS	2 Row	27	382	25	2 Row	618
<input type="checkbox"/> EP2144-3**-TS	2 Row	30	429	28	2 Row	680

* - Use corresponding letters in "Coil Code" and "Voltage Code" column headers to complete the model numbers.

EAT: 70 F, EWT: 200 F, Steam pressure: 5 PSI

Electrical Data Full Load Amp (FLA)	Unit Amperage (Voltage Code)		
	208-230V/3Ø (G)	460V/3Ø (H)	575V/3Ø (I)
<input type="checkbox"/> EP296-2**-TS	16.6/15.2	7.6	6.0
<input type="checkbox"/> EP2108-2**-TS	16.6/15.2	7.6	6.0
<input type="checkbox"/> EP2120-2**-TS	16.6/15.2	7.6	6.0
<input type="checkbox"/> EP2120-3**-TS	24.9/22.8	11.4	9.0
<input type="checkbox"/> EP2144-3**-TS	24.9/22.8	11.4	9.0

* - Use corresponding letters in "Coil Code" and "Voltage Code" column headers to complete the model numbers.

Ampacity (MCA) = total FLA x 1.25

Alternate voltage codes with FLA data:

•380-415V/3Ø/50Hz (W) – 4.5A per motor

Washdown motor FLA data (INS-WD-STD2):

•208-230V/3Ø/60Hz (G) – 7.8A per motor

•460V/3Ø/60Hz (H) – 3.7A per motor

Explosion proof motor FLA data (INS-XP-STD2):

•208-230V/3Ø/60Hz (G) – 7.8A per motor

•460V/3Ø/60Hz (H) – 3.7A per motor

EXAMPLE

EP2 144 - 3 X H - TS

