

WMI (Wind Stopping 14) Series

Hot Water/Steam Heated

Model Lengths: 96"–192"

Environmental Separation (up to 16')

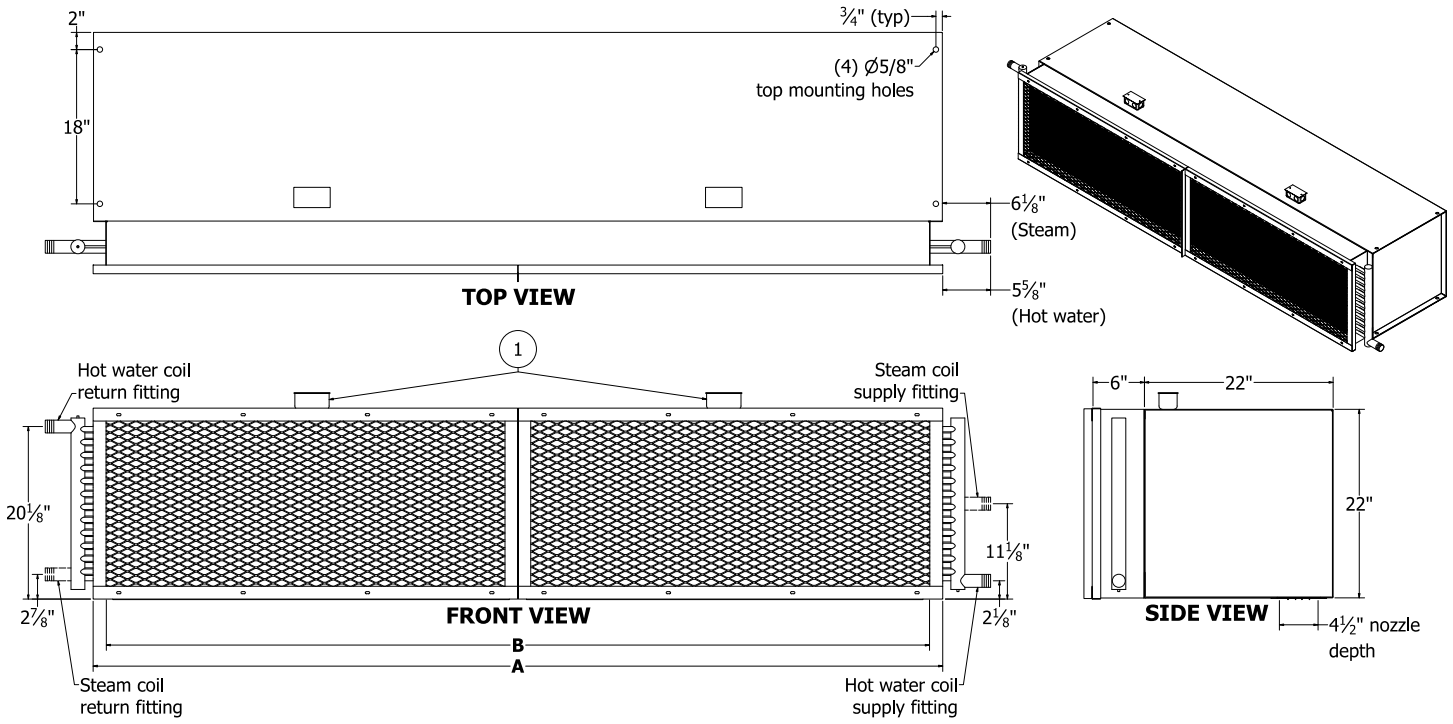
Insect Control (up to 14')



atmosphere is everything

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Notes:

1. External 2"x4" junction boxes for electrical wiring provided on top of unit above each motor
2. Recommended service clearances are 6" to the left side, 28" on the right side, 12" to 22" 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 suspended from overhead on both ends without intermediate support.
6. Electric heater shown with heater component panel on the right side, as standard.

Model Number	Mechanical Data				Lab Data					
	Overall Length A (in)	Nozzle Length B (in)	Motor (hp)	Weight (lb)	Max Velocity (fpm)	Max Volume (cfm)	Avg Velocity (fpm)	Volume (cfm)	Uniformity (%)	Power Rating (watt)
<input type="checkbox"/> WMI96-2**-TS	99	96	(2) 2	600	5500	16500	2614	7842	92	4260
<input type="checkbox"/> WMI120-2**-TS	123	120	(2) 3	720	5200	19500	3205	9474	90	5600
<input type="checkbox"/> WMI144-2**-TS	147	144	(2) 3	822	5800	26100	3009	13422	86	6340
<input type="checkbox"/> WMI168-3**-TS	171	120	(3) 3	1026	4900	25725	2920	15060	84	8070
<input type="checkbox"/> WMI192-4**-TS	195	192	(4) 2	1197	5500	33000	2614	15684	92	8520

* – Use corresponding letters in "Electrical Data" column headers (see page 2) to complete the model numbers. Note: above data is for 60 Hz at 850 RPM. For 50 Hz, RPM is 700 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:

Air Curtain

- ❖ 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)
- ❖ 2 to 3 HP continuous duty Totally Enclosed Air Over (TEAO) motors (NEMA 1)
 - Direct drive system
- ❖ Adjustable air directional vanes with 40° sweep front to back
- ❖ 12-months parts warranty
- ❖ Freight not included
- ❖ Proudly made in the USA

Hot Water/Steam Coil

- ❖ 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**
 - MCP‡+V*, [Motor Control Panel](#), 120V control voltage (‡ = HP Code, † = # of Motors, * = Voltage Code) (\$)
 - Note:** possible HP codes = C (2 HP) or D (3 HP)
 - MCP-TD, Adjustable time delay, 1sec-100hr (panel required)
 - MCP-HD, Heat on demand, Hot water/steam (thermostat included)
 - MCP-24V, Low voltage control option (panel required)
 - ❖ **Thermostats** (\$)
 - 99-064, Thermostat, line voltage up to 250V max, two stage, double pole
 - ❖ **Severe Duty and Finish**
 - HSG-304SS-WM, 304 Stainless steel housing construction (per foot)
 - INS-WD-WM, Washdown motor fan assembly, IP54
 - INS-XP-WMI, Explosion resistant motor fan assembly, Class 1, Division 1, Group D (TENV)
 - Note:** Washdown and explosion proof units draw higher motor amperage. Control panels for these units require OL/MP with higher amperage range (use MCP-MWD or MCP-MXP accessory).
 - ❖ **Coil Options**
 - HSG-COIL-LH, Accessory, Left Hand HW/S Coil Connection Adder
 - HSG-COIL-RH, Accessory, Right Hand HW/S Coil Connection Adder
 - HSG-COIL-SD, Accessory, Steam Distributing Coil Conversion (per foot)
- (§) = Shipped loose

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

2 Motor Unit = 66 dBA, 3 Motor Unit = 67 dBA, 4 Motor Unit = 68 dBA

Coil Data	Hot Water				Steam		
	Coil Code (X)	GPM	MBH	Temp Rise (°F)	Coil Code (Y)	MBH	Temp Rise (°F)
<input type="checkbox"/> WMI96-2U*-TS	2 Row	12	299	35	1 Row	324	38
<input type="checkbox"/> WMI120-2U*-TS	2 Row	13	361	35	1 Row	399	39
<input type="checkbox"/> WMI144-2U*-TS	2 Row	20	502	35	1 Row	523	36
<input type="checkbox"/> WMI168-3U*-TS	2 Row	20	560	35	1 Row	599	37
<input type="checkbox"/> WMI192-4U*-TS	2 Row	19	590	35	1 Row	652	39

* - 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 <input type="checkbox"/> (G)	460V/3Ø <input type="checkbox"/> (H)	575V/3Ø <input type="checkbox"/> (I)
<input type="checkbox"/> WMI96-2U*-TS	14.4/14.0	7.0	6.0
<input type="checkbox"/> WMI120-2U*-TS	32.0/24.4	12.2	9.0
<input type="checkbox"/> WMI144-2U*-TS	32.0/24.4	12.2	9.0
<input type="checkbox"/> WMI168-3U*-TS	48.0/36.6	18.3	13.5
<input type="checkbox"/> WMI192-4U*-TS	28.8/28.0	14.0	12.0

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

† - Limited availability, long lead times may apply.

Ampacity (MCA) = total FLA x 1.25

Alternate voltage codes with FLA data:
:380-415V/3Ø/50Hz (W) – consult factory

EXAMPLE

WMI 144 - 2 X H - TS

