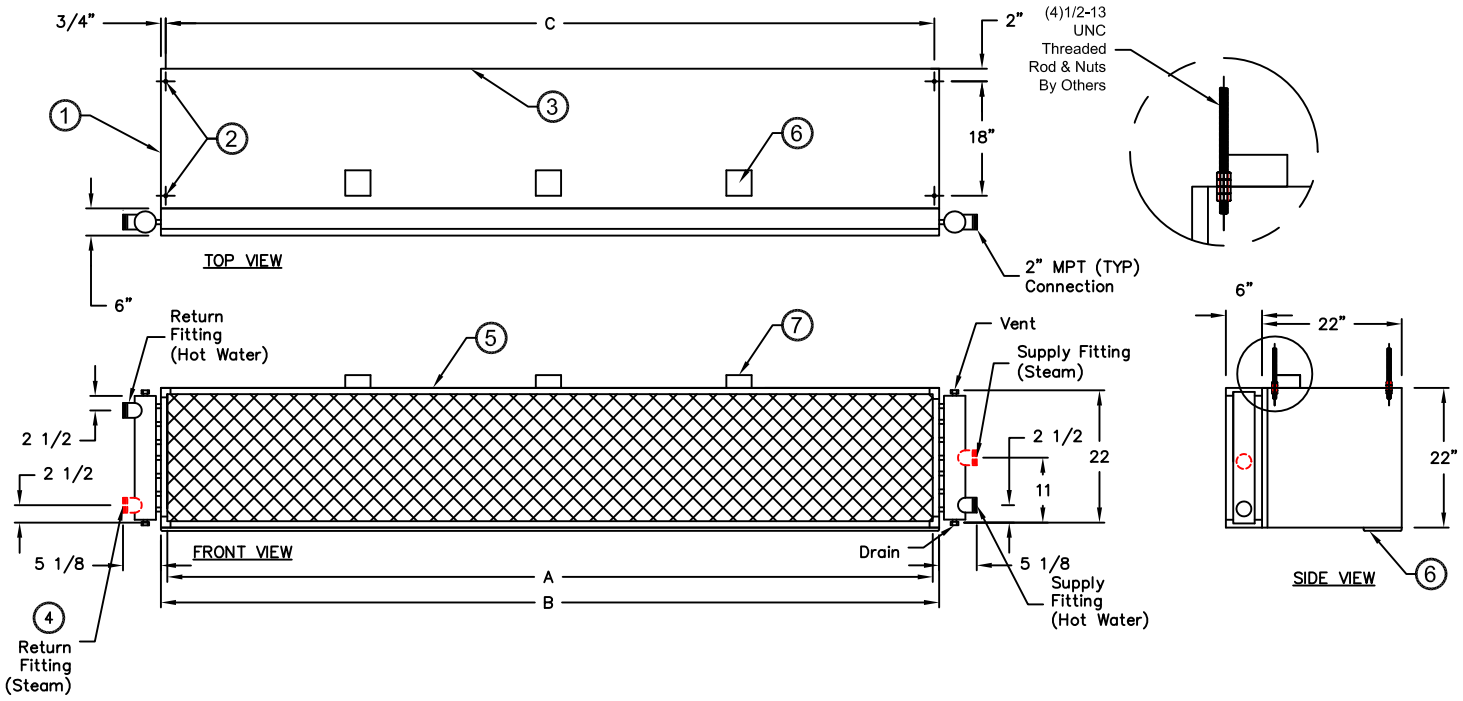
atmosphere is everything
14716 S. Broadway • Gardena, CA 90248 • USA
TEL:(310) 532-1555 • (800) 421-1266 • FAX:(310) 324-3030
Web Site: www.marsair.com • E-mail:info@marsair.com

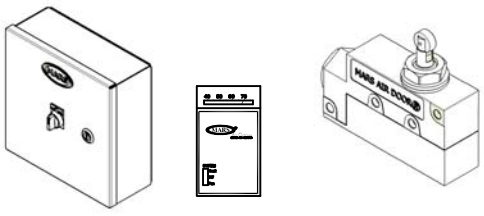
| PROJECT | | OPTIONS/ITEMS |
|---|---|---|
| TITLE | | |
| COMMENTS | | DATE 4/16/15 / PAGE |
| | | REV. NO |
| MODEL NO. WMI Series | DRAWING NO WMHW–F | DRAWN BY TVN / CHECKED BY / FILE NAME |

# Hot Water/Steam Heated Drawing

## WMH
**(Wind Stopping 16)**
**Series**




## ⑨ Recommended Accessories



Control Panels with Remote T'stat

Door Limit Switches

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

| MODEL NUMBER | NOZZLE LENGTH A (in) | AIR CURTAIN LENGTH B (in) | MOUNTING CENTER C (in) |
|---|---|---|---|
| WMH96-2**-TS | 96 | 99 | 97 1/2 |
| WMH120-2**-TS | 120 | 123 | 121 1/2 |
| WMH144-2**-TS | 144 | 147 | 145 1/2 |
| WMH168-3**-TS | 168 | 171 | 169 1/2 |
| WMH192-4**-TS | 192 | 195 | 193 1/2 |

Notes:

1. This product is designed to meet the National Electric Code (NEC) and is CSA Listed
2. (4) 5/8" mounting holes provided on for overhead mounting provided, (2) on each end.
3. All units have a self contained one piece cabinet, fire retardant and corrosion proof paint lock metal double protected with baked on Titanium Silver color, rust preventative electrostatic polyurethane powder coating.
4. Hot Water application shown. For Steam, return fitting is at the bottom of manifold and supply is at center of manifold. (2" MPT Typical)
5. Cabinet is to be mounted from overhead and has sufficient strength for suspension from both ends without intermediate support.
6. Unit is to be installed such that air flow is unobstructed. Unit has a 4.5" air discharge nozzle containing adjustable air directional vanes with 40° sweep front to back.
7. Units are direct drive. One external top mounted 2"x4" J-box provided above each motor. VFD optional.
8. Circuit protection as per NEC by others.
9. Optional motor control panel and door limit switch 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 air curtain must be installed such that the bottom of the air curtain is not below the door header.

# WMH (Wind Stopping) Series

Hot Water/Steam Heated

Model Lengths 96” – 192”

atmosphere is everything

14716 S. BROADWAY, GARDENA, CA 90248 ● Ph: (310) 532-1555 Fax: (310) 532-3030 ● www.marsair.com
© Copyright Mars Air Systems, LLC 2014

## *Hot Water/Steam Heated Data Sheet*

***Applications: Environmental Separation (up to 16’)***

| WMH (Wind Stopping 16) | Mechanical Data | | | | | | Lab Data | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model Number | Nozzle Length (in) | Length (in) | Depth (in) | Height (in) | Motor (hp) | Weight (lbs) | Max Velocity (fpm) | Max Volume (cfm) | Avg Velocity (fpm) | Volume (cfm) | Uniformity (%) | Power Rating (watts) |
| WMH96-2**-TS | 96 | 99 | 30 | 22 | Two 5 | 750 | 7300 | 21900 | 4466 | 13190 | 91 | 9390 |
| WMH120-2**-TS | 120 | 123 | 30 | 22 | Two 5 | 880 | 7600 | 28500 | 4231 | 15670 | 89 | 12420 |
| WMH144-2**-TS | 144 | 147 | 30 | 22 | Two 7 | 1060 | 7400 | 33300 | 3816 | 17022 | 82 | 13300 |
| WMH168-3**-TS | 168 | 171 | 30 | 22 | Three 5 | 1260 | 6700 | 35175 | 3822 | 19845 | 90 | 17700 |
| WMH192-4**-TS | 192 | 195 | 30 | 22 | Four 5 | 1505 | 7300 | 43800 | 4466 | 26380 | 91 | 18760 |

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

**Features:**

Air Curtain

- 5 to 7 HP Continuous Duty Motors (TEAO)
- ETL Certified to conform to UL 1995 (US) and CSA 22.2 (Canada) Standards
- Cabinet with sufficient strength for fastening from overhead on both ends without intermediate support. Top mounting holes provided (4) 5/8”
- Adjustable air directional vanes with 40° sweep front to back
- Standard color is Titanium Silver
- Rust preventative electrostatic polyurethane powder coating
- All units are shipped fully assembled ready for installation
- 18 months parts warranty
- Freight Not Included (FOB Factory)
- Proudly Made in the USA

| Coil Data | Hot Water | | | | Steam | | |
|---|---|---|---|---|---|---|---|
| | Coil Code (X) | GPM | MBH | Temp Rise (°F) | Coil Code (Y) | MBH | Temp Rise (°F) |
| WMH96-2**-TS | 2 Row | 21 | 419 | 30 | 1 Row | 423 | 30 |
| WMH120-2**-TS | 2 Row | 22 | 501 | 30 | 1 Row | 517 | 31 |
| WMH144-2**-TS | 2 Row | 20 | 545 | 30 | 1 Row | 591 | 32 |
| WMH168-3**-TS | 2 Row | 22 | 632 | 30 | 1 Row | 690 | 32 |
| WMH192-4**-TS | 2 Row | 24 | 757 | 27 | 1 Row | 852 | 30 |

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

Hot Water and Steam Coils

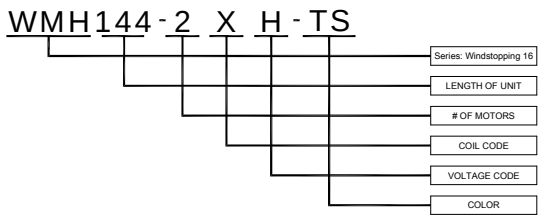
- Coil casings shall not be less than 16 gauge galvanized steel with tube holes formed with extruded collars.
- Fins are die formed .006” aluminum (1 row – 10 FPI, 2 row – 8 FPI)
- Coils tubes constructed of heavy wall, 5/8" OD seamless copper (Steam - .035” & Hot Water - .025”)
- Coil tubes arranged 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

| Electrical Data (FLA) | Unit Voltage (Voltage Code) | | |
|---|---|---|---|
| | 208/230v (G) | 460v (H) | 575v (I) |
| WMH96-2**-TS | 38/31.6 | 15.8 | 12.6 |
| WMH120-2**-TS | 38/31.6 | 15.8 | 12.6 |
| WMH144-2**-TS | --/42.0 | 21.0 | 16.8 |
| WMH168-3**-TS | 57/47.4 | 23.7 | 18.9 |
| WMH192-4**-TS | 76/63.2 | 31.6 | 25.2 |

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

Note: For Ampacity Multiply FLA X 1.25

EXAMPLE




**Options and Accessories: (see Accessories Brochure)**

- Motor Control Panels with remote mounted t’stat
- Steam distribution, Cupro Nickel and CRN coils
- Rust resistant epoxy coated or SS coils
- Custom housing and transition colors and finishes (304SS, 316SS, Aluminum)

**Sound Levels: (measured at 10’ in an open field)**

1 Motor Unit = 70 dBA, 2 Motor Unit = 73 dBA, 3 & 4 Motor Unit = 75 dBA

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.