Hot Water/Steam Heated Drawing

HV2
(High Velocity 2 Series)

TOP VIEW

RETURN FITTING

RETURN FITTING

FRONT VIEW

Supply Fitting

Knock Out

TOP MOUNTING HOLES (4)

END VIEW

1. This product is designed to meet the National Electric Code (NEC) and is ETL listed for the US and Canada (UL 1995 and CSA 22.2).
2. (4) 7/16" mounting holes provided on for overhead mounting provided, (2) each end.
3. (2) 1/2" key hole slots and (2) 7/16" mounting holes are provided on each end of the back side for wall mounting.
4. 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.
5. Hot Water application shown. For Steam, return fitting is at bottom of manifold and supply is at center of manifold.
6. Cabinet is to be mounted from overhead or fastened to a wall and has sufficient strength for suspension from both ends without intermediate support.
7. Internal J-Box(es) for electrical wiring are provided.
8. Unit is to be installed such that air flow is unobstructed. Unit has a 3" air discharge nozzle containing adjustable air directional vanes with 40° sweep front to back.
9. Circuit protection as per NEC by others.
10. 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.
Hot Water/Steam Heated Data Sheet

Applications: Environmental Separation: Max Height 14’ / Insect Control: Max Height 12’

<table>
<thead>
<tr>
<th>HV2 (High Velocity) Series 2</th>
<th>Mechanical Data</th>
<th>Lab Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number</td>
<td>Nozzle Length</td>
<td>Length</td>
</tr>
<tr>
<td>HV2144-3**-TS</td>
<td>48</td>
<td>52</td>
</tr>
<tr>
<td>HV2120-3**-TS</td>
<td>72</td>
<td>76</td>
</tr>
<tr>
<td>HV284-2**-TS</td>
<td>84</td>
<td>88</td>
</tr>
<tr>
<td>HV260-1**-TS</td>
<td>96</td>
<td>100</td>
</tr>
<tr>
<td>HV2188-3**-TS</td>
<td>108</td>
<td>112</td>
</tr>
<tr>
<td>HV2120-2**-TS</td>
<td>120</td>
<td>124</td>
</tr>
<tr>
<td>HV296-2**-TS</td>
<td>120</td>
<td>124</td>
</tr>
<tr>
<td>HV284-2**-TS</td>
<td>144</td>
<td>148</td>
</tr>
</tbody>
</table>

Features:

- Air Curtain
- 1 HP Continuous Duty TEAO Motors
- Sleek self-contained one piece heavy gauge corrosion proof paint lock metal design
- ETL Certified to conform to UL 1955 (US) and CSA 22.2 (Canada) Standards
- Cabinet has sufficient strength for fastening to wall on both ends without intermediate support.
- Adjustable air directional vanes with 40° sweep front to back
- Standard color is Titanium Silver
- Rust preventative electrostatic polyurethane powder coating
- 18 months parts warranty
- Freight FOB the factory
- 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 .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

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)

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: Data above for 1725 RPM at 60 Hz, 50 Hz is 1425 RPM with a 17% reduction in the performance data.

Features:

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

- Use corresponding letters in “Electrical Data” columns to complete the model numbers.

Example:

HV2 144-3 X H - TS

Electrical Data

<table>
<thead>
<tr>
<th>FLA</th>
<th>115v (A)</th>
<th>208/230v/1Ø (D)</th>
<th>208/230v/3Ø (G)</th>
<th>460v (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.0</td>
<td>5.0</td>
<td>3.35/2</td>
<td>1.6</td>
<td>1.3</td>
</tr>
<tr>
<td>9.0</td>
<td>5.0</td>
<td>3.35/2</td>
<td>1.6</td>
<td>1.3</td>
</tr>
<tr>
<td>10.0</td>
<td>10.0</td>
<td>6.6/6.6</td>
<td>3.2</td>
<td>2.6</td>
</tr>
<tr>
<td>10.0</td>
<td>10.0</td>
<td>6.6/6.6</td>
<td>3.2</td>
<td>2.6</td>
</tr>
<tr>
<td>15.0</td>
<td>15.0</td>
<td>9.9/9.9</td>
<td>4.8</td>
<td>3.9</td>
</tr>
<tr>
<td>15.0</td>
<td>15.0</td>
<td>9.9/9.9</td>
<td>4.8</td>
<td>3.9</td>
</tr>
</tbody>
</table>

Unit Voltage

<table>
<thead>
<tr>
<th>Voltage Code</th>
<th>115v (A)</th>
<th>208/230v/1Ø (D)</th>
<th>208/230v/3Ø (G)</th>
<th>460v (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>115v</td>
<td>115v</td>
<td>208/230v/1Ø</td>
<td>208/230v/3Ø</td>
<td>460v</td>
</tr>
<tr>
<td>208/230v/1Ø</td>
<td>208/230v/1Ø</td>
<td>208/230v/3Ø</td>
<td>460v</td>
<td></td>
</tr>
<tr>
<td>208/230v/3Ø</td>
<td>208/230v/3Ø</td>
<td>460v</td>
<td></td>
<td></td>
</tr>
<tr>
<td>460v</td>
<td>460v</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: For Ampacity Multiply FLA x 1.25

MARS AIR SYSTEMS, LLC • GARDENA, CA • USA