Indirect Fired Gas Heated Drawing

HV2
(High Velocity 2) Series

TOP VIEW

FRONT VIEW

SIDE VIEW

Notes:
1. The Air Curtains are ETL Listed for the US and Canada with 7/16" mounting holes for overhead mounting.
2. The Furnaces are ETL verified to be 85% efficient with 3/8" overhead mounting hardware for overhead mounting.
3. 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.
4. 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".
5. 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.
6. Furnaces with impellers have positive pressure, 20 gauge aluminumized 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.
7. Circuit protection as per NEC by others.
8. 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.

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

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>Overall Width (in)</th>
<th>Furnace Width (in) A</th>
<th>End Space (in) B</th>
<th>Mounting Distance (in) D</th>
<th>End Dim (in) E</th>
<th>Furnace Height (in) F</th>
<th>Furnace Size (MBH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HV256-2P-TS</td>
<td>96</td>
<td>32 3/4</td>
<td>31 5/8</td>
<td>30 5/8</td>
<td>33</td>
<td>33 3/4</td>
<td>250</td>
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<td>HV2168-3P-TS</td>
<td>108</td>
<td>50 3/4</td>
<td>28 5/8</td>
<td>48 5/8</td>
<td>30</td>
<td>34</td>
<td>300</td>
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<tr>
<td>HV2123-2P-TS</td>
<td>120</td>
<td>50 3/4</td>
<td>34 5/8</td>
<td>48 5/8</td>
<td>36</td>
<td>34</td>
<td>300</td>
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<tr>
<td>HV2123-3P-TS</td>
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<td>50 3/4</td>
<td>34 5/8</td>
<td>48 5/8</td>
<td>36</td>
<td>34</td>
<td>350</td>
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<tr>
<td>HV2144-3P-TS</td>
<td>144</td>
<td>50 3/4</td>
<td>46 5/8</td>
<td>48 5/8</td>
<td>48</td>
<td>34</td>
<td>400</td>
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</table>
**HV2 (High Velocity 2) Series**

Indirect Fired Gas Heated
Model Lengths 96” – 144”

**Indirect Fired Gas Heated Data Sheet**

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

### HV2 (High Velocity) Series 2

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Nozzle Length (in)</th>
<th>Length (in)</th>
<th>Min. Depth (in)</th>
<th>Height (in)</th>
<th>Motor (hp)</th>
<th>Total Weight** (lbs)</th>
<th>Furnace Weight (lbs)</th>
<th>Max Core Velocity at Nozzle (fpm)</th>
<th>Max Volume (cfm)</th>
<th>Avg Velocity (fpm)</th>
<th>Volume (cfm)</th>
<th>Uniformity (%)</th>
<th>Power Rating (watts)</th>
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<tbody>
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<td>HV2108-3I*-TS</td>
<td>96</td>
<td>96</td>
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<td>33</td>
<td>Two 1</td>
<td>551</td>
<td>211</td>
<td>6144</td>
<td>8000</td>
<td>2447</td>
<td>4894</td>
<td>88</td>
<td>2720</td>
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<tr>
<td>HV2144-3I*-TS</td>
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<td>144</td>
<td>67 1/2</td>
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<td>Three 1</td>
<td>822</td>
<td>335</td>
<td>6144</td>
<td>12000</td>
<td>2647</td>
<td>7341</td>
<td>88</td>
<td>4080</td>
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</tbody>
</table>

* - 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.

### Features:

- Air Curtain and Transition
  - 1 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.

### Indirect Fired Gas Furnaces

- ETL verified to be 83% efficient
- In-shot burner technology
- Aluminiized tubular heat exchanger (20 gauge)
- Positive pressure 120V impellers (separate 120V, 1Ø power req’d)
- 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)

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

- Motor Control Panels with remote mounted t’stat
- 409 and 321 stainless steel heat exchangers
- Separated combustion
- Two stage and modulating gas valves
- LP gas
- Custom housing and transition colors and finishes (304SS, 316SS)

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

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