**HSJ POWER VENTER SPECIFICATIONS**

**Performance curves**

Static pressure (inches H2O) vs CFM (std. air) at selected flue gas temps.

NOTE: TO ARRIVE AT TOTAL SYSTEM STATIC PRESSURE REFER TO CURVE AND ADD .38" TO COMPENSATE FOR VENT HOOD AND WIND RESISTANCE.

---

**MOTOR ELECTRICAL DATA**

- **Volts**: 115
- **Hertz**: 60
- **RPM**: 3000
- **Watts**: 95
- **Amps**: 1.26
- **Therm. Prot.**: Yes

**MOTOR MECHANICAL DATA**

- **DESCRIPTION**
  - Shaded Pole: Yes
  - Open: Yes
  - Int. Fan Cooled: Yes

- **BEARINGS**
  - Type: Sleeve
  - Material: Sintered Iron

---

**UC1 UNIVERSAL CONTROL**

- Maximum Power Consumption: 1/2 Amp @ 120 VAC 50/60 Hz + Venter motor load
- Pre-Purge: Options (0, 15, 30, 60 seconds)
- Post-Purge: Factory set at 2 minutes
- Options (0, 30 seconds; 1, 2, 4, 8, 16 minutes)
- Dimensions: 5" x 8" (2' electrical whip inc.)

**SAFETY / INTERLOCK**

- Fan Proving Switch
  - 5 VDC UC1 board supplied power switched through Fan Prover. UC1 burner / gas valve interlock rated for 1 H.P. @ 120 VAC.

---

**MODELS AND APPLICATION:**

**HSJ (Gas or Oil)**

Used as a means of Side Wall Venting gas or oil appliances which require a Post Purge cycle. Used also to co-vent two gas heaters within combined BTU/hr. input listed below (requires accessory controls). Includes a Fan Proving Switch and the UC1 Universal Control for 24V, 115V or "dry contact" actuation. LED diagnostics and Pre / Post-purge options are standard with the UC1.

**HSUL-J (Discontinued 8/05)**

**HS115-J & HST-J (Discontinued 7/02)**

Replace above models with HSJ.

**Note:** Tjernlund Products, Inc. reserves the right to make changes to specifications without notification.

---

**MODELS AND APPLICATION:**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VENT PIPE DIA.</th>
<th>BTU / HR INPUT</th>
<th>MAXIMUM PIPE LENGTH (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Gas Fired</td>
<td>Oil Fired</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>300°F 400°F 500°F</td>
</tr>
<tr>
<td>HSJ</td>
<td>4&quot;</td>
<td>50,000</td>
<td>100' 100' 100'</td>
</tr>
<tr>
<td></td>
<td></td>
<td>75,000</td>
<td>100' 100' 100'</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100,000</td>
<td>100' 100' 100'</td>
</tr>
<tr>
<td></td>
<td></td>
<td>125,000</td>
<td>35' 23' 23'</td>
</tr>
</tbody>
</table>

---

**P/N 8506001**

REV. B 2/06

-SIDE VIEW- | -END VIEW- | -PLAN VIEW-
### HS1 POWER VENTER SPECIFICATIONS

#### Performance curves

Static pressure (inches H2O) vs CFM (std. air) at selected flue gas temps.  
**NOTE:** TO ARRIVE AT TOTAL SYSTEM STATIC PRESSURE REFER TO CURVE AND ADD .38” TO COMPENSATE FOR VENT HOOD AND WIND RESISTANCE.

<table>
<thead>
<tr>
<th>Temp (°F)</th>
<th>100</th>
<th>80</th>
<th>60</th>
<th>40</th>
<th>20</th>
<th>10</th>
<th>0</th>
</tr>
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<tbody>
<tr>
<td>70</td>
<td>.20</td>
<td>.40</td>
<td>.60</td>
<td>.80</td>
<td>1.00</td>
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<td></td>
</tr>
<tr>
<td>300</td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

**NOTE:** Tjernlund Products, Inc. reserves the right to make changes to specifications without notification.

#### MODELS AND APPLICATION:

- **HS1 (Gas or Oil)**  
  Used as a means of Side Wall Venting gas or oil appliances which require a Post Purge cycle. Used also to co-vent multiple heaters within combined BTU/hr. input listed below (requires accessory controls). Includes a Fan Proving Switch and the UC1 Universal Control for 24V, 115V or “dry contact” actuation. LED diagnostics and Pre / Post-purge options are standard with the UC1.

- **HSUL-1 (Discontinued 8/05)**
- **HS115-1 & HST-1 (Discontinued 7/02)**
  Replace above models with HS1.

**Note:** Tjernlund Products, Inc. reserves the right to make changes to specifications without notification.

#### MOTOR ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Volts</th>
<th>Hertz</th>
<th>Watts</th>
<th>Amps</th>
<th>Therm. Prot.</th>
</tr>
</thead>
<tbody>
<tr>
<td>115</td>
<td>60</td>
<td>95</td>
<td>1.26</td>
<td>Yes</td>
</tr>
</tbody>
</table>

#### MOTOR MECHANICAL DATA

- **DESCRIPTION**
  - Shaded Pole: Yes
  - Open: Yes
  - Int. Fan Cooled: Yes

- **BEARINGS**
  - Type: Sleeve
  - Material: Sintered Iron

- **UC1 UNIVERSAL CONTROL**
  - Maximum Power Consumption: 1/2 Amp @ 120 VAC 50/60 Hz + Venter motor load
  - Pre-Purge: Options (0,15,30,60 seconds)
  - Post-Purge: Factory set at 2 minutes
  - Options (0,30 seconds; 1,2,4,8,16 minutes)
  - Dimensions: 5” x 8” (2’ electrical whip inc.)

- **SAFETY / INTERLOCK**
  - Fan Proving Switch
    - 5 VDC UC1 board supplied power switched through Fan Prover. UC1 burner / gas valve interlock rated for 1 H.P. @ 120 VAC.

- **FAN PROVER SENSOR**
  - Fan Proving Pressure Switch
  - Adjustable Damper

- **ADJUSTABLE DAMPER**

- **SHADED POLE MOTOR**
  - 3,000 R.P.M.

### MAXIMUM PIPE LENGTH (FT)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VENT PIPE DIA.</th>
<th>BTU / HR INPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>GAS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MAXIMUM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300° F</td>
</tr>
<tr>
<td>HS1</td>
<td>4”</td>
<td>150,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200,000</td>
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<tr>
<td></td>
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<td>250,000</td>
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<tr>
<td></td>
<td></td>
<td>300,000</td>
</tr>
<tr>
<td></td>
<td>6”</td>
<td>150,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>200,000</td>
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<tr>
<td></td>
<td></td>
<td>250,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>300,000</td>
</tr>
</tbody>
</table>
**HS2 POWER VENTER SPECIFICATIONS**

**Performance curves**

Static pressure (inches H2O) vs CFM (std. air) at selected flue gas temps.

**NOTE:** TO ARRIVE AT TOTAL SYSTEM STATIC PRESSURE REFER TO CURVE AND ADD .38” TO COMPENSATE FOR VENT HOOD AND WIND RESISTANCE.

**MODELS AND APPLICATION:**

- **HS2** (Gas or Oil)
  - Used as a means of Side Wall Venting gas or oil appliances which require a Post Purge cycle.
  - Used also to co-vent multiple appliances which require a Post Purge cycle.
  - UC1 Universal Control for 24V, 115V or “dry contact” actuation. LED diagnostics and Pre / Post-purge options are standard with the UC1.

- **HSUL-2** (Discontinued 8/05)
- **HS115-2 & HST-2** (Discontinued 7/02)
  - Replace above models with HS2.

**Note:** Tjernlund Products, Inc. reserves the right to make changes to specifications without notification.

**TOLERANCE:** ±1/8" UNLESS OTHERWISE NOTED

---

**MOTOR ELECTRICAL DATA**

- **Volts:** 115
- **Hertz:** 60
- **RPM:** 3300
- **Watts:** 224
- **Amps:** 1.51
- **Therm. Prot.:** Yes

---

**MOTOR MECHANICAL DATA**

**DESCRIPTION**

- Perm. Split Cap: Yes
- Open: Yes
- Incl. Fan Cooled: Yes

**BEARINGS**

- Type: Sleeve
- Material: Sintered Iron

---

**UC1 UNIVERSAL CONTROL**

- Maximum Power Consumption: 1/2 Amp @ 120 VAC 50/60 Hz + Venter motor load
- Pre-Purge: Options (0,15,30,60 seconds)
- Post-Purge: Factory set at 2 minutes
- Options (0,30 seconds; 1,2,4,8,16 minutes)
- Dimensions: 5’ x 8” (2’ electrical whip inc.)

**SAFETY / INTERLOCK**

- **Fan Proving Switch**
  - 5 VDC UC1 board supplied power switched through Fan Prover. UC1 burner / gas valve interlock rated for 1 H.P. @ 120 VAC.

**MOTOR ELECTRICAL DATA**

- Volts: 115
- Hertz: 60
- RPM: 3300
- Watts: 224
- Amps: 1.51
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**SAFETY / INTERLOCK**

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  - 5 VDC UC1 board supplied power switched through Fan Prover. UC1 burner / gas valve interlock rated for 1 H.P. @ 120 VAC.

**FAN PROVER SENSOR**

- Adjustable Damper
- Fan Proving Pressure Switch
- DAMPER ADJUSTMENT ROD

**MODEL**

- **HS2**

**MAXIMUM PIPE LENGTH (FT)**

<table>
<thead>
<tr>
<th>MODEL</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>300° F</td>
</tr>
<tr>
<td><strong>HS2</strong></td>
<td></td>
<td></td>
<td>350,000</td>
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**FAN PROVER SENSOR**

- Adjustable Damper
- Fan Proving Pressure Switch
- DAMPER ADJUSTMENT ROD

**MODEL**

- **HS2**

**MAXIMUM PIPE LENGTH (FT)**

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<td>600,000</td>
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</tbody>
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**TOLERANCE:** ±1/8” UNLESS OTHERWISE NOTED

---

**MODELS AND APPLICATION:**

- **HS2** (Gas or Oil)
  - Used as a means of Side Wall Venting gas or oil appliances which require a Post Purge cycle.
  - Used also to co-vent multiple heaters within combined BTU/hr. input listed below (requires accessory controls).
  - Includes a Fan Proving Switch and the UC1 Universal Control for 24V, 115V or “dry contact” actuation. LED diagnostics and Pre / Post-purge options are standard with the UC1.

- **HSUL-2** (Discontinued 8/05)
- **HS115-2 & HST-2** (Discontinued 7/02)
  - Replace above models with HS2.

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**SAFETY / INTERLOCK**

- **Fan Proving Switch**
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**FAN PROVER SENSOR**

- Adjustable Damper
- Fan Proving Pressure Switch
- DAMPER ADJUSTMENT ROD

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**MODEL**

- **HS2**

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- **HS115-2 & HST-2** (Discontinued 7/02)
  - Replace above models with HS2.

---

**FAN PROVER SENSOR**

- Adjustable Damper
- Fan Proving Pressure Switch
- DAMPER ADJUSTMENT ROD

---

**MODEL**

- **HS2**

**MAXIMUM PIPE LENGTH (FT)**

<table>
<thead>
<tr>
<th>MODEL</th>
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</tbody>
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- **HSUL-2** (Discontinued 8/05)
- **HS115-2 & HST-2** (Discontinued 7/02)
  - Replace above models with HS2.

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