HS3 MOTOR SPECIFICATIONS

MECHANICAL DATA

DESCRIPTION

Casing:
- Diameter (in): 5.63/48 TR
- Nominal Length (in): 5.00

Shaft:
- Diameter (in): .500
- Nominal Length (in): 3.38

Bearings:
- Type: Sleeve
- Material: Stainless Steel

ELECTRICAL DATA

Volts: 7V
Hertz: 60
RPM: 1600
HP: 1/4
Amph: 2.57
Thermal Prot.: Yes

HS3 POWER VENTER SPECIFICATIONS

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.)

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.

DESCRIPTION OF APPLICATION

Used as a means of Side Wall Venting commercial gas appliances. 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.

HS-3 (Discontinued 7/02)
Replace with model HS3.

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

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Visit our web site • www.tjernlund.com
**HS4 POWER VENTER SPECIFICATIONS**

**DESCRIPTION OF APPLICATION**

Used as a means of Side Wall Venting commercial gas appliances. 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.

**HS-4 (Discontinued 7/02)**

Replace with model HS4.

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

### HS4 MOTOR SPECIFICATIONS

**ELECTRICAL DATA**

- **VOLTS:** 115
- **HERTZ:** 60
- **RPM:** 1,235
- **HP:** 1/3
- **AMPS:** 5.8
- **THERM. PROT.:** YES

### MECHANICAL DATA

**DESCRIPTION:**

- **SPLIT PHASE CAP STAY:** YES
- **INT. FAN COOLED:** NO

**CASING:**

- **DIAMETER (IN):** 5.63/48 FR
- **NOM. LENGTH (IN):** 8.89

**SHAFT:**

- **DIAMETER (IN):** .350
- **NOM. LENGTH (IN):** 1.58

**BEARINGS:**

- **TYPE:** SLEEV
- **MATERIAL:** BARBITED STEEL

### 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.)

### 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.

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**HS4 FAN CURVE WITH DAMPER OPEN**

<table>
<thead>
<tr>
<th>VENT PIPE</th>
<th>BTU/HR INPUT</th>
<th>MAXIMUM PIPE LENGTH (FT) AT STACK TEMP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100% DILUTION, 300°F</td>
<td>25% DILUTION, 400°F</td>
</tr>
<tr>
<td></td>
<td>GAS FIRED</td>
<td>ATMOSPHERIC WITH GROSS DRAFT*</td>
</tr>
<tr>
<td>HS4</td>
<td>100°</td>
<td>100°</td>
</tr>
<tr>
<td>8&quot;</td>
<td>700,000</td>
<td>800,000</td>
</tr>
<tr>
<td>10&quot;</td>
<td>700,000</td>
<td>800,000</td>
</tr>
<tr>
<td>12&quot;</td>
<td>700,000</td>
<td>800,000</td>
</tr>
</tbody>
</table>

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![Diagram of HS4 Power Venter Specifications](image-url)
TJERNLUND PRODUCTS, INC.
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HS5 MOTOR SPECIFICATIONS

**ELECTRICAL DATA**
- VOLTS: 115/208~230
- Hertz: 60
- RPM: 1725
- HP: 1
- FL Amps: 6.2 @ 208, 6.3 @ 230, 12.6 @ 115V
- THERM. PROT.: YES

**MECHANICAL DATA**
- DESCRIPTION:
  - SPLIT PHASE CAP START: YES
  - OPEN: YES
  - INT. FAN COOLED: NO
- CASING:
  - DIAMETER (IN): 6.38/56 FR
  - NOM. LENGTH (IN): 9.38
- SHAFT:
  - DIAMETER (IN): 6.25
  - NOM. LENGTH (IN): 1.94
- BEARINGS:
  - TYPE: SLEEVY
  - MATERIAL: BARBETED STEEL

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.)

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.

DESCRIPTION OF APPLICATION
Used as a means of Side Wall Venting commercial gas appliances. 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.

HS-5 (Discontinued 7/02)
Replace with model HS5.

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

208-230 VAC motor wiring is not compatible with the UC1 Control. A 115 VAC coil / 230 VAC contact DPST motor contactor rated for 1 H.P. is required.