



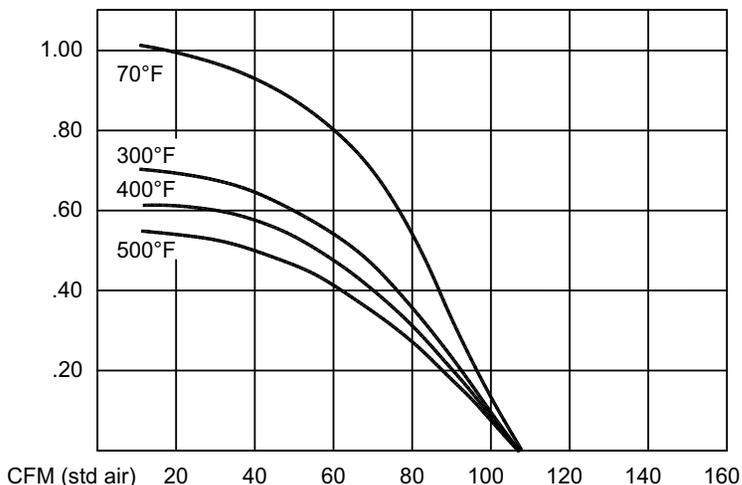
TJERNLUND PRODUCTS, INC.

1601 Ninth Street • White Bear Lake, MN 55110-6794
 PHONE (800) 255-4208 • (651) 426-2993 • FAX (651) 426-9547
 Visit our web site • www.tjernlund.com

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.



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)

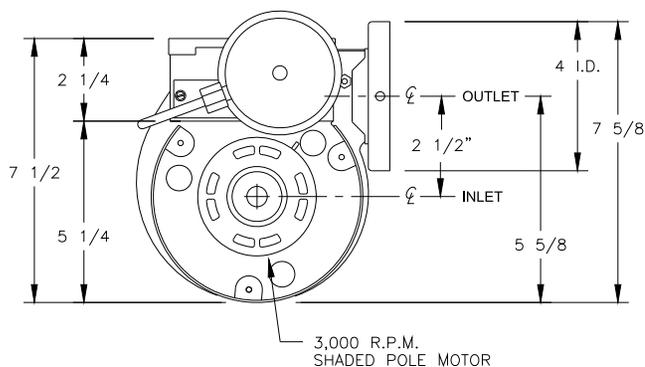
Replace above models with HSJ.

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

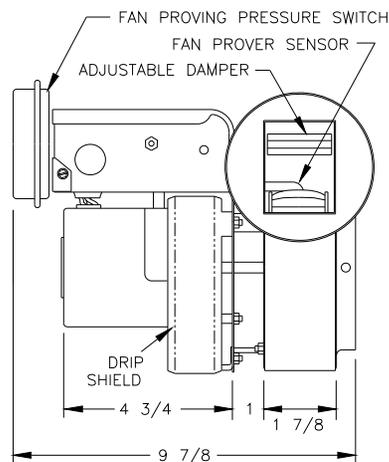
| MOTOR ELECTRICAL DATA | |
|---|---------------|
| Volts | 115 |
| Hertz | 60 |
| RPM | 3000 |
| Watts | 95 |
| Amps | 1.26 |
| Therm. Prot. | Yes |
| MOTOR MECHANICAL DATA | |
| DESCRIPTION | |
| Shaded Pole | Yes |
| Open | Yes |
| Int. Fan Cooled | Yes |
| BEARINGS | |
| Type | Sleeve |
| Material | 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. | |

| MODEL | VENT PIPE DIA. | BTU / HR INPUT | MAXIMUM PIPE LENGTH (FT) AT STACK TEMPERATURE | | |
|-------|----------------|----------------|---|--------|-----------|
| | | | GAS FIRED | | OIL FIRED |
| | | | 300° F | 400° F | 500° F |
| HSJ | 4" | 50,000 | 100' | 100' | 100' |
| | | 75,000 | 100' | 100' | 100' |
| | | 100,000 | 100' | 100' | -- |
| | | 125,000 | 35' | 23' | -- |

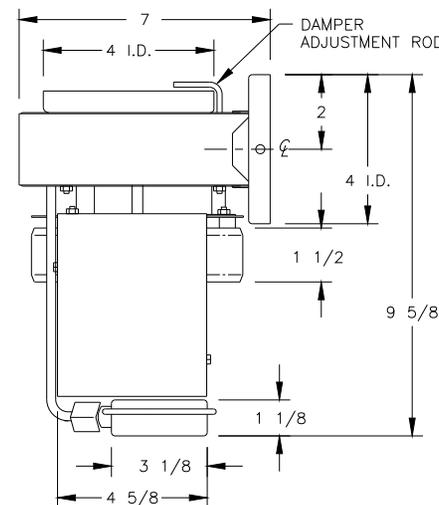
TOLERANCE: ±1/8" UNLESS OTHERWISE NOTED



-SIDE VIEW-



-END VIEW-



-PLAN VIEW-



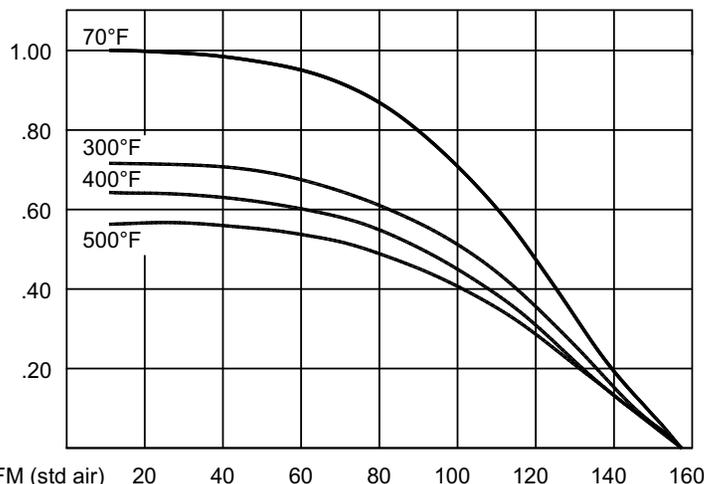
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HS1 POWER VENTER SPECIFICATIONS

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.



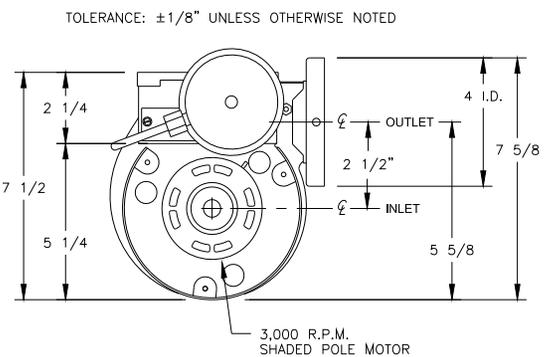
| MOTOR ELECTRICAL DATA | |
|-----------------------|------|
| Volts | 115 |
| Hertz | 60 |
| RPM | 3000 |
| Watts | 95 |
| Amps | 1.26 |
| Therm. Prot. | Yes |

| MOTOR MECHANICAL DATA | |
|-----------------------|-----|
| DESCRIPTION | |
| Shaded Pole | Yes |
| Open | Yes |
| Int. Fan Cooled | Yes |

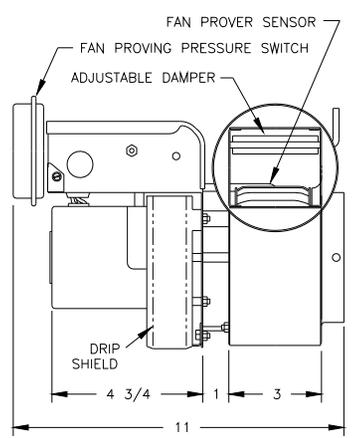
| BEARINGS | |
|----------|---------------|
| Type | Sleeve |
| Material | Sintered Iron |

| 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.) | |

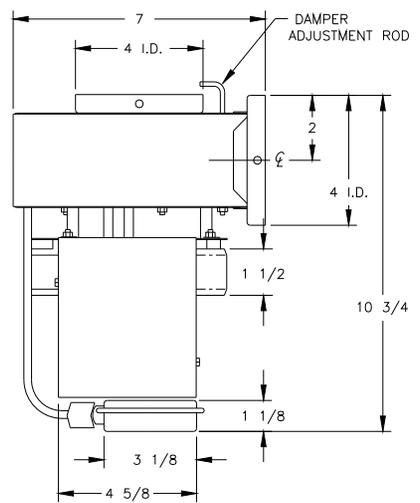
| SAFETY / INTERLOCK | |
|--|--|
| Fan Proving Switch | |
| 5 VDC UC1 board supplied power switched through Fan Prover. UC1 burner / gas valve interlock rated for 1 H.P. @ 120 VAC. | |



-SIDE VIEW-



-END VIEW-



-PLAN VIEW-



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.

| MODEL | VENT PIPE DIA. | BTU / HR INPUT | MAXIMUM PIPE LENGTH (FT) AT STACK TEMPERATURE | | |
|---------|----------------|----------------|---|--------|-----------|
| | | | GAS FIRED | | OIL FIRED |
| | | | 300° F | 400° F | 500° F |
| HS1 | 4" | 150,000 | 100' | 60' | 35' |
| | | 200,000 | 87' | 57' | 27' |
| | | 250,000 | 40' | 12' | -- |
| | 300,000 | 4' | -- | -- | |
| | 6" | 150,000 | 100' | 100' | 100' |
| | | 200,000 | 100' | 100' | 100' |
| 250,000 | | 100' | 92' | -- | |
| 300,000 | 30' | -- | -- | | |



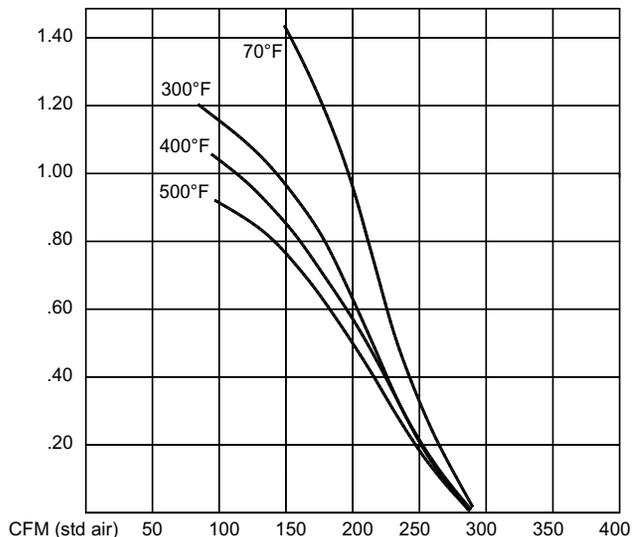
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HS2 POWER VENTER SPECIFICATIONS

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.



| 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 |
| 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:

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.



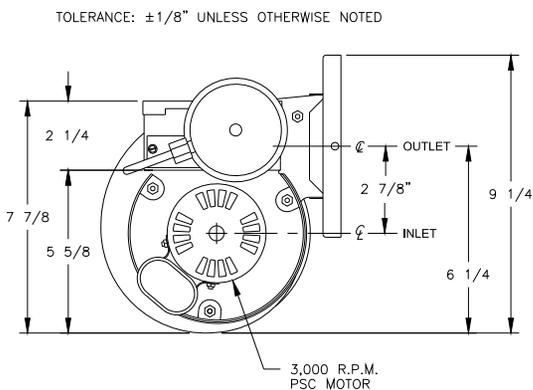
HSUL-2 (Discontinued 8/05)

HS115-2 & HST-2 (Discontinued 7/02)

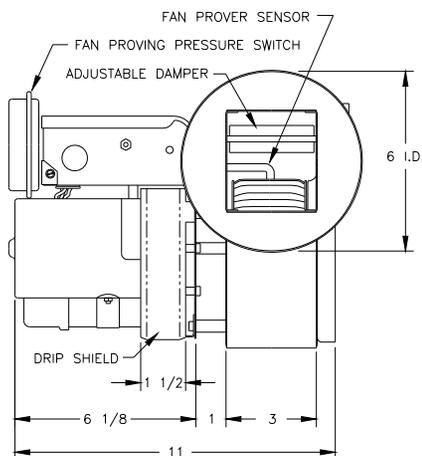
Replace above models with HS2.

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

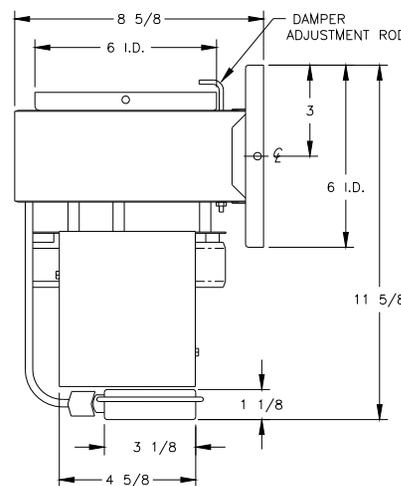
| MODEL | VENT PIPE DIA. | BTU / HR INPUT | MAXIMUM PIPE LENGTH (FT) AT STACK TEMPERATURE | | |
|---------|----------------|----------------|---|--------|-----------|
| | | | GAS FIRED | | OIL FIRED |
| | | | 300° F | 400° F | 500° F |
| HS2 | 6" | 350,000 | 100' | 100' | 100' |
| | | 400,000 | 100' | 100' | 100' |
| | | 450,000 | 100' | 100' | 67' |
| | | 500,000 | 100' | 72' | -- |
| | | 550,000 | 94' | -- | -- |
| | 600,000 | 15' | -- | -- | |
| | 8" | 350,000 | 100' | 100' | 100' |
| | | 400,000 | 100' | 100' | 100' |
| | | 450,000 | 100' | 100' | 100' |
| | | 500,000 | 100' | 100' | -- |
| 550,000 | | 100' | -- | -- | |
| 600,000 | 67' | -- | -- | | |



-SIDE VIEW-



-END VIEW-



-PLAN VIEW-