



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

HS3 MOTOR SPECIFICATIONS	
ELECTRICAL DATA	
VOLTS	115
HERTZ	60
RPM	1600
HP	1/4
AMPS	2.57
THERM. PROT.	YES
MECHANICAL DATA	
DESCRIPTION:	
PERM. SPLIT CAP	YES
OPEN	YES
INT. FAN COOLED	NO
CASING:	
DIAMETER (IN)	5.63/48 FR
NOM. LENGTH (IN)	5.00
SHAFT:	
DIAMETER (IN)	.500
NOM. LENGTH (IN)	3.38
BEARINGS:	
TYPE	SLEEVE
MATERIAL	BABBITED 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

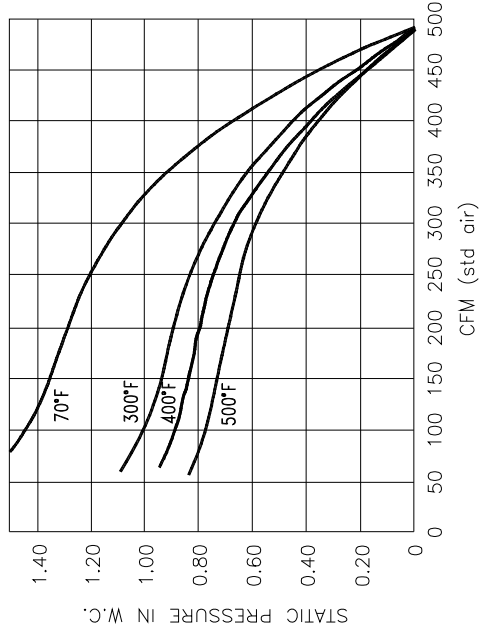
Used as a means of Side Wall Venting commercial gas appliances. Used also to co-vent multiple heaters within combined BTU/hr. input listed below (requires accessory controls). Includes a Fan Proving Switch and the UC1 Universal Control for 24V, 115V or "dry contact" actuation. LED diagnostics and Pre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

HS-3 (Discontinued 7/02)

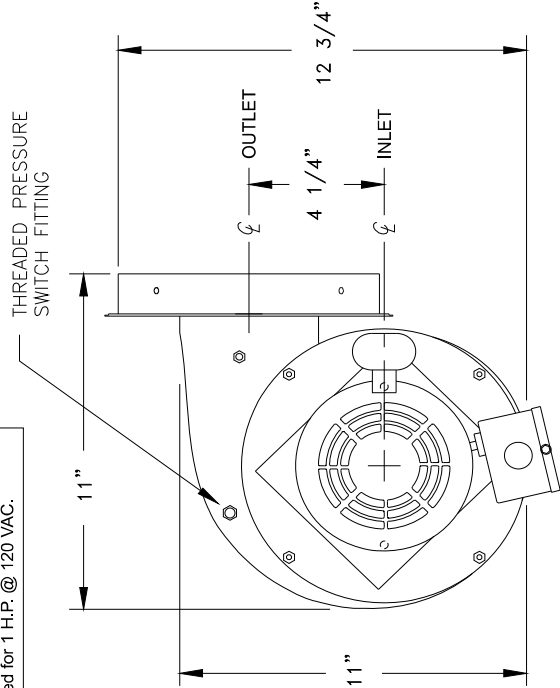
Replace with model HS3.

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

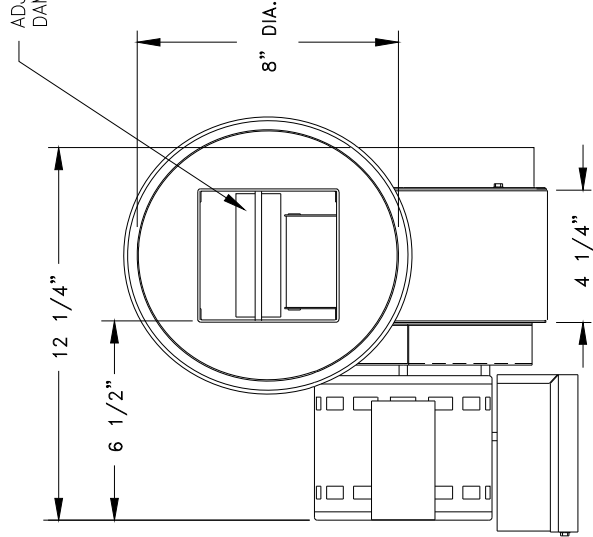
HS3 FAN CURVE WITH DAMPER OPEN



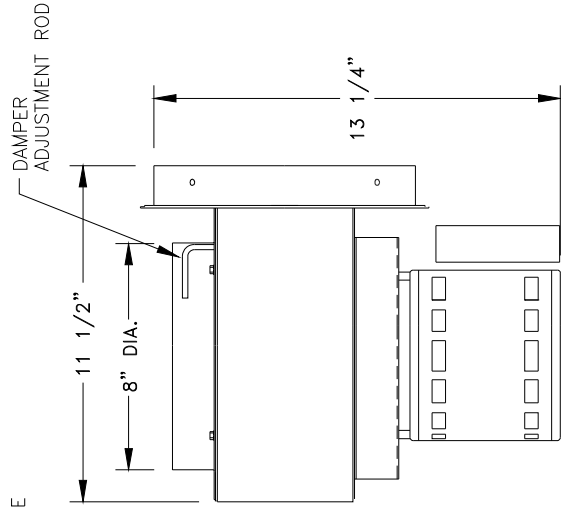
MODEL NUMBERS	VENT PIPE DIA.	BTU/HR INPUT	MAXIMUM PIPE LENGTH (FT) AT STACK TEMP	
			100% DILUTION, 300°F	25% DILUTION, 400°F
HS3	8"	450,000	100'	100'
		500,000	100'	100'
		600,000	100'	100'
		700,000	7'	100'
115 VAC 1/4 HP 2.7 AMP	10"	450,000	100'	100'
		500,000	100'	100'
		600,000	100'	100'
		700,000	21'	100'



— SIDE VIEW —



— END VIEW —



— PLAN VIEW —



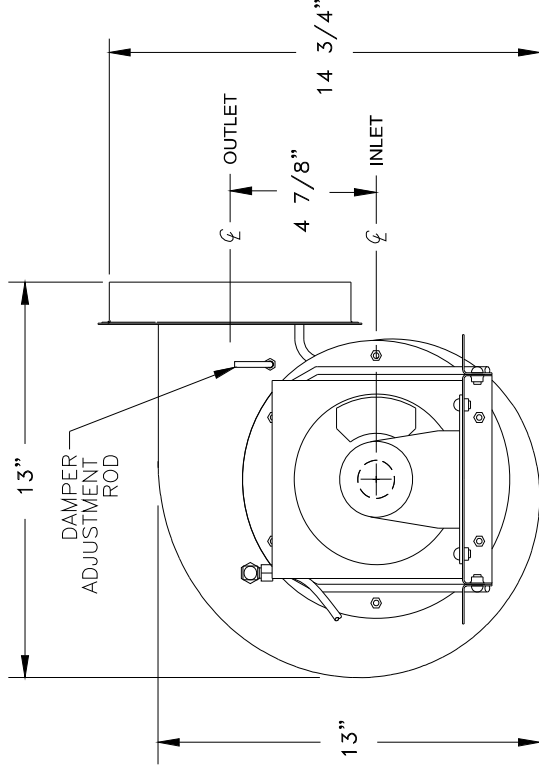
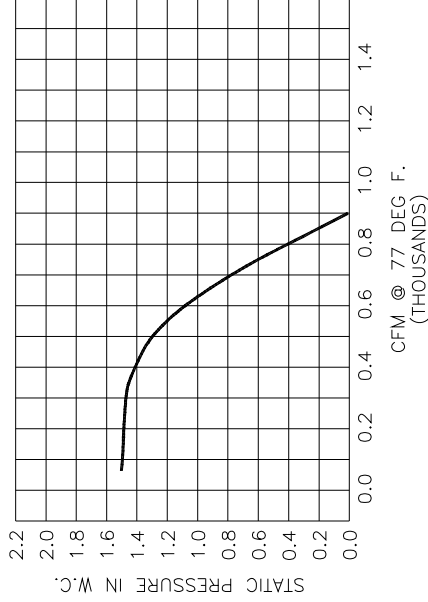
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HS4 MOTOR SPECIFICATIONS	
ELECTRICAL DATA	
VOLTS	115
HERTZ	60
RPM	1725
HP	1/3
AMPS	5.8
THERM. PROT.	YES
MECHANICAL DATA	
DESCRIPTION:	
SPLIT PHASE CAP STARTYES	
OPEN YES	
INT. FAN COOLED NO	
CASING:	
DIAMETER (IN)	5.63/48 FR
NOM. LENGTH (IN)	8.58
SHAFT:	
DIAMETER (IN)	.500
NOM. LENGTH (IN)	1.56
BEARINGS:	
TYPE	SLEEVE
MATERIAL	BABBITED 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.	

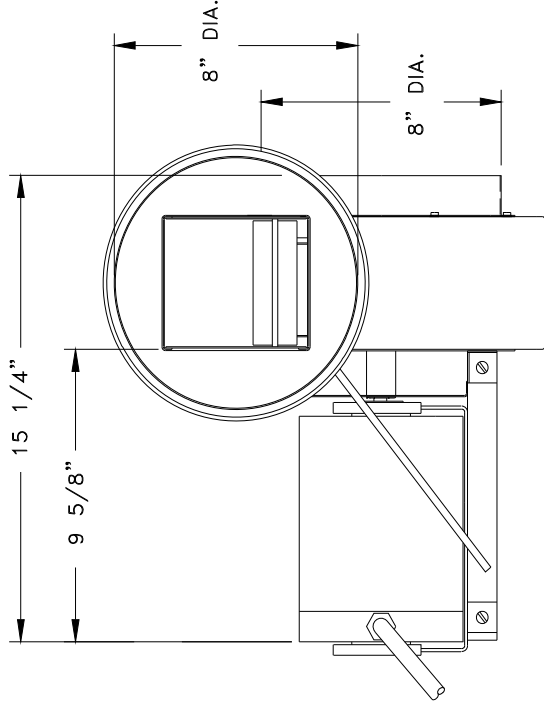
HS4 POWER VENTER SPECIFICATIONS

HS4 FAN CURVE WITH DAMPER OPEN



D/N 2162044

— SIDE VIEW —



— END VIEW —

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.

MODEL NUMBERS	VENT PIPE DIA.	BTU/HR INPUT	MAXIMUM PIPE LENGTH (FT) AT STACK TEMP		
			100% DILUTION, 300°F	GAS FIRED ATMOSPHERIC WITH DRAFT HOOD OR DRAFT DIVERTER	25% DILUTION, 400°F POWER BURNER WITH BAROMETRIC DRAFT CONTROL
HS4	8"	700,000	100'	100'	100'
		800,000	100'	100'	100'
		900,000	100'	100'	100'
		1,000,000	100'	100'	100'
		1,100,000	52'	52'	100'
		1,200,000	5'	5'	100'
	10"	700,000	100'	100'	100'
		800,000	100'	100'	100'
		900,000	100'	100'	100'
		1,000,000	100'	100'	100'
		1,100,000	97'	97'	100'
		1,200,000	14'	14'	100'
	12"	700,000	100'	100'	100'
		800,000	100'	100'	100'
		900,000	100'	100'	100'
		1,000,000	100'	100'	100'
		1,100,000	100'	100'	100'
		1,200,000	34'	34'	100'



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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

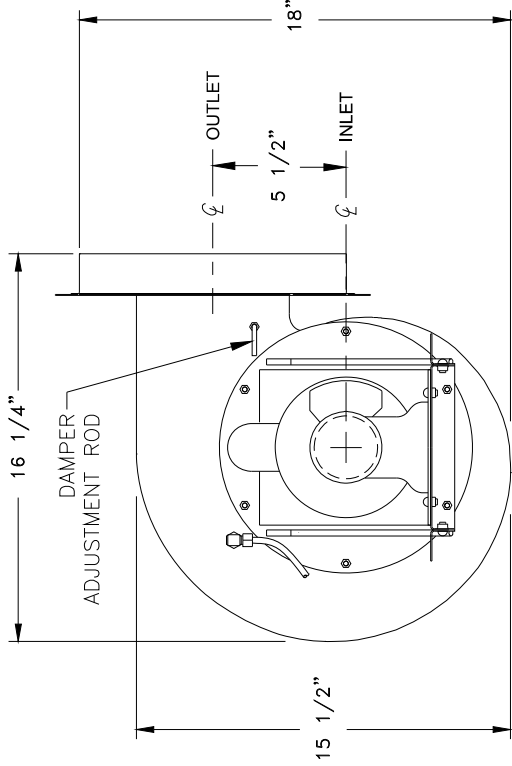
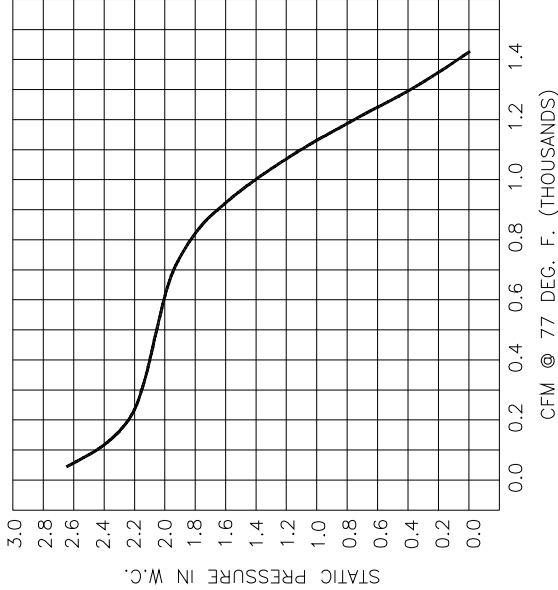
MECHANICAL DATA	
DESCRIPTION:	
SPLIT PHASE CAP START	YES
OPEN	YES
INT. FAN COOLED	NO
CASING:	
DIAMETER (IN)	6.38/56 FR
NOM. LENGTH (IN)	9.38
SHAFT:	
DIAMETER (IN)	.625
NOM. LENGTH (IN)	1.94
BEARINGS:	
TYPE	SLEEVE
MATERIAL	BABBITT STEEL

UC1-1HP 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.)	

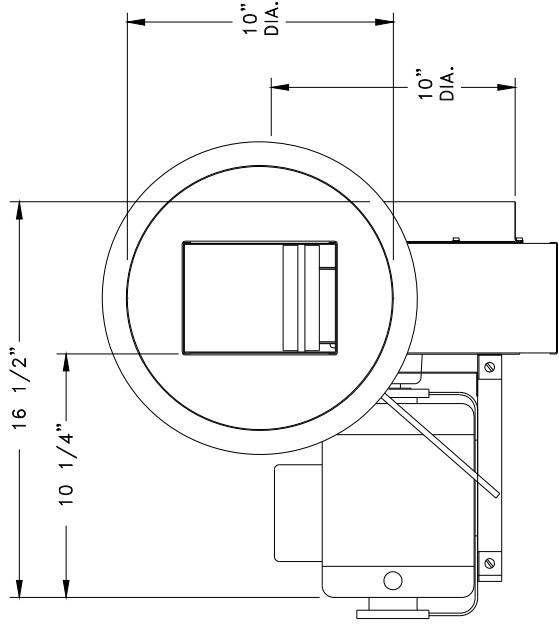
FAN PROVING SWITCH	
5 VDC UC1 board supplied power switched through Fan Prover. UC1 burner / gas valve interlock rated for 1 H.P. @ 120 VAC.	

HS5 POWER VENTER SPECIFICATIONS

HS5 FAN CURVE WITH DAMPER OPEN



— SIDE VIEW —



— END VIEW —

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 UC1-1HP Universal Control for 24V, 115V or "dry contact" actuation. LED diagnostics and Pre / Post-purge options are standard with the UC1-1HP.

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

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

MODEL NUMBERS	VENT PIPE DIA.	BTU/HR INPUT	MAXIMUM PIPE LENGTH (FT) AT STACK TEMP	
			GAS FIRED ATMOSPHERIC WITH DRAFT HOOD OR DRAFT DIVERTER	GAS FIRED POWER BURNER WITH BAROMETRIC DRAFT CONTROL
HS5	10"	1,200,000	100'	100'
		1,400,000	100'	100'
		1,600,000	100'	100'
	12"	1,825,000	29'	100'
		1,200,000	100'	100'
		1,400,000	100'	100'
	14"	1,600,000	100'	100'
		1,825,000	72'	100'
		1,200,000	100'	100'
	115/208/230 VAC 1 HP	1,400,000	100'	100'
		1,600,000	100'	100'
		1,825,000	100'	100'