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MODEL DJ-3 DRAFT INDUCER SPECIFICATIONS

Performance Curves

MODEL	PIPE GAS FIRING SIZE WITH IN. DRAFT HOOD				BAR.	FIRINO /ITH DRAF ITROL	т	OIL FIRING WITH BAR. DRAFT CONTROL		
NO.		HEATER BTU INPUT	27 FLUE		HEATER BTU INPUT	390°F FLUE GAS		HEATER BTU INPUT	530 [•] F FLUE GAS	
			S.P.	CFM	1	S.P.	CFM		S.P.	CFM
	3	69,000	.034	48	72,000	.047	36	58,000	.048	33
	4	105,000	.042	72	109,000	.053	55	92,000	.057	48
DJ-3	5	111,000	.043	72	104,000	.052	52	74,000	.052	39
	6	100,000	.041	68	34,000	.042	17	25,000	.035	13







- Inputs shown are believed to be maximum capacities for inducers when mounted on pipe sizes shown for ordinary jobs where a moderate amount of mechanical induced draft is required.
- Consideration is given to typically higher static pressure requirements for larger installations, for the type of fuel burned and for the type of draft control installed.
- Where pressure requirements are unknown or believed to be unusually severe, ask for complete performance curves or consult factory.
- All ratings have been developed in our testing and research department and have been approved by a nationally known independent testing laboratory. Certification is available upon request.
- Heating capacities shown are for 1000 BTU per cubic foot natural gas and for 139,000 BTU per gallon No. 2 fuel oil. Consult factory for capacities with other fuels. Heating capacities are based on typical combustion efficiencies and allow for approximately 5 percent ambient air drawn into inducer to cool motor and drives.
- Draft Inducers should be installed in single wall vent pipe in order to insure proper performance.

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

MOTOR SPEC	MOTOR SPECIFICATIONS								
ELECTRICAL DATA									
Volts	115								
Hertz	60								
RPM	1550								
Watts	35								
Amps	.43								
Therm. Prot.	Imp. Prot.								

P/N 8506000 REV. C 11/05



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MODEL D-3 DRAFT INDUCER SPECIFICATIONS

Performance curves

MODEL	pipe Size IN.	W	firing /Ith Thoo		W BAR.	firing /ith Draf ⁻ Ntrol	Г	OIL FIRING WITH BAR. DRAFT CONTROL		
NO.		Heater Btu Input	271 FLUE		Heater Btu Input	390°F Flue gas		010		D°F gas
			S.P.	CFM		S.P.	CFM		S.P.	CFM
	5	270,000	.063	190	330,000	.085	166	295,000	.092	163
D-3	6	356,000	.073	246	377,000	.090	190	300,000	.093	169
0-3	7	360,000	.075	259	330,000	.085	166	230,000	.080	118
	8	320,000	.068	217	222,000	.075	110	123,000	.065	65







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- Draft Inducers should be installed in single wall vent pipe in order to insure proper performance.

MOTOR SPECIFICATIONS									
ELECTRICAL DATA									
Volts	115								
Hertz	60								
RPM	1550								
Watts	74								
Amps	.96								
Therm. Prot.	Yes								

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MODEL I DRAFT INDUCER SPECIFICATIONS

Performance curves

MODEL	PIPE Size IN.	GAS FIRING WITH DRAFT HOOD			W BAR.	firing /ITH Draft Itrol		oil Firing With Bar. Draft Control		
NO.		Heater Btu Input	27(FLUE		Heater Btu Input	39) FLUE		Heater Btu Input	53 FLUE	
			S.P.	CFM		S.P.	CFM		S.P.	CFM
	8	900,000	.125	590	1,200,000	.143	603	1,100,000	.147	566
I	9	1,110,000	.135	765	1,330,000	.150	653	1,100,000	.148	566
1	10	1,250,000	.140	850	1,260,000	.145	615	840,000	.136	440
	12	1,030,000	.128	710	710,000	.115	357	400,000	.100	211





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- Draft Inducers should be installed in single wall vent pipe in order to insure proper performance.

MOTOR SPECIFICATIONS								
ELECTRICAL DATA								
Volts	115							
Hertz	60							
RPM	1725							
Watts	1/4 HP							
Amps	5.4							
Therm. Prot.	Yes							



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MODEL IL DRAFT INDUCER **SPECIFICATIONS**

Performance curves

	PIPE SIZE IN.	W	firino /Ith		W	FIRING /ITH DRAF		W	FIRING /ITH DRAF		e inches H20 (70° F Air) "negative" and apply only on inlet side 50 52 54		Mo 70°F Ai	del II		Γ			
MODEL	IN.	DRAF	T HOO	D		NTROL		CON	ITROL		F Air) Iy only or	_							
NO.		Heater Btu Input	27 FLUE	0°F GAS	Heater Btu Input	39 FLUE	0°F gas	Heater Btu INPut	53 FLUE	0°F GAS	Static pressure inches H20 (70° F A es shown are "negative" and apply o 50 54 54 59 50 50 50 50 50 50 50 50 50 50 50 50 50			9" Pipe					
					-			-			es H20 by: ar								
			S.P.	CFM		S.P.	CFM		S.P.	CFM	e inche "negat	5		10" Pipe					
	9	1,460,000	.145	1010	1,970,000	.175	989	1,700,000	.180	900	essure	Ĩ		12" Pipe					
	10	2,080,000	.170	1370	2,460,000	.185	1240	1,900,000	.180	1010	atic pressur shown are	0		-14" Pipe		<u> </u>	\rightarrow		+
IL	12	1,920,000	.160	1325	2,230,000	.182	1120	1,500,000	.170	789	ssur			16" Pipe					\downarrow
IL	14	1,840,000	.159	1270	1,470,000	.158	740	825,000	.135	453	tic bre	5 -		18" Pipe					$\overline{}$
	16	900,000	.120	620	650,000	.113	340	350,000	.095	184)°E	Air)	200 4/	00 6	00 8	00 10		1200
	18	650,000	.099	450	440,000	.095	220	200,000	.075	106	CFM (70	, r	AII) 4	200 4	00 0	00 0	00 10	00	1200





- 1. Inputs shown are believed to be maximum capacities for inducers when mounted on pipe sizes shown for ordinary jobs where a moderate amount of mechanical induced draft is required.
- 2. Consideration is given to typically higher static pressure requirements for larger installations, for the type of fuel burned and for the type of draft control installed.
- 3. Where pressure requirements are unknown or believed to be unusually severe, ask for complete performance curves or consult factory.
- 4. All ratings have been developed in our testing and research department and have been approved by a nationally known independent testing laboratory. Certification is available upon request.
- 5. Heating capacities shown are for 1000 BTU per cubic foot natural gas and for 139,000 BTU per gallon No. 2 fuel oil. Consult factory for capacities with other fuels. Heating capacities are based on typical combustion efficiencies and allow for approximately 5 percent ambient air drawn into inducer to cool motor and drives.
- 6. Draft Inducers should be installed in single wall vent pipe in order to insure proper performance.

1400

Location For **Optional Fan** Prover

MOTOR SPECI	MOTOR SPECIFICATIONS								
ELECTRICAL DATA									
Volts	115								
Hertz	60								
RPM	1725								
Watts	1/4 HP								
Amps	5.4								
Therm. Prot.	Yes								

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MODEL XL DRAFT INDUCER SPECIFICATIONS

Performance curves

MODEL	PIPE SIZE IN.		firing /ITH T Hooi		W BAR.	firing /ITH Draft Itrol		oil Firing With Bar. Draft Control		
NO.	HEATER BTU 270 [•] F INPUT FLUE GAS		Heater Btu Input	390°F Flue gas		DIQ		530°F FLUE GAS		
			S.P.	CFM		S.P.	CFM		S.P.	CFM
	16	4,000,000	.250	2760	4,000,000	.260	2010	3,300,000	.230	1763
XL	18	3,900,000	.240	2650	3,250,000	.240	1660	2,100,000	.190	1103
ΛL	20	2,800,000	.195	1935	2,100,000	.175	1079	1,200,000	.150	626
	24	1,500,000	.150	1035	1,100,000	.125	527	503,000	.110	266







18 3/4"



- 2. Consideration is given to typically higher static pressure requirements for larger installations, for the type of fuel burned and for the type of draft control installed.
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- Heating capacities shown are for 1000 BTU per cubic foot natural gas and for 139,000 BTU per gallon No. 2 fuel oil. Consult factory for capacities with other fuels. Heating capacities are based on typical combustion efficiencies and allow for approximately 5 percent ambient air drawn into inducer to cool motor and drives.
- Draft Inducers should be installed in single wall vent pipe in order to insure proper performance.

MOTOR SPECIFICATIONS								
ELECTRICAL DATA								
Volts Hertz RPM Watts Amps Therm. Prot.	115, 208-230 60 1725 1 HP 12.6 @ 115 6.2 @ 208 6.3 @ 230 Yes							

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MODEL HD DRAFT INDUCER SPECIFICATIONS

Performance curves

MODEL	PIPE SIZE IN. GAS FIRING WITH DRAFT HOOD HEATER BTU INPUT 270°F FLUE GAS		/ITH		Gas Firing With Bar. Draft Control			oil Firing With Bar. Draft Control		
			Heater Btu Input	390 F FLUE GAS		Heater Btu Input	530°F Flue gas			
			S.P.	CFM		S.P.	CFM		S.P.	CFM
НD	20	5,300,000	.290	3690	5,200,000	.270	2440	3,600,000	.240	1870
	24	3,500,000	.220	2415	3,750,000	.220	1660	2,900,000	.218	1550





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- Where pressure requirements are unknown or believed to be unusually severe, ask for complete performance curves or consult factory.
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- Draft Inducers should be installed in single wall vent pipe in order to insure proper performance.

MOTOR SPECIFICATIONS								
ELECTRICAL DATA								
Volts	208-230, 460							
Hertz	60							
RPM	1725							
Watts	2 HP							
Amps	6.3 @ 208							
	6.4 @ 230							
	3.2 @ 460							
Therm. Prot.	No							