



SHELDONS ENGINEERING INC.

FAN PERFORMANCE FOR SERIES 3000
 6660 Ordan Drive, Mississauga ON L5T1J7
 tel: 905-564-5072 fax: 904-564-9004

QUOTE NUMBER:

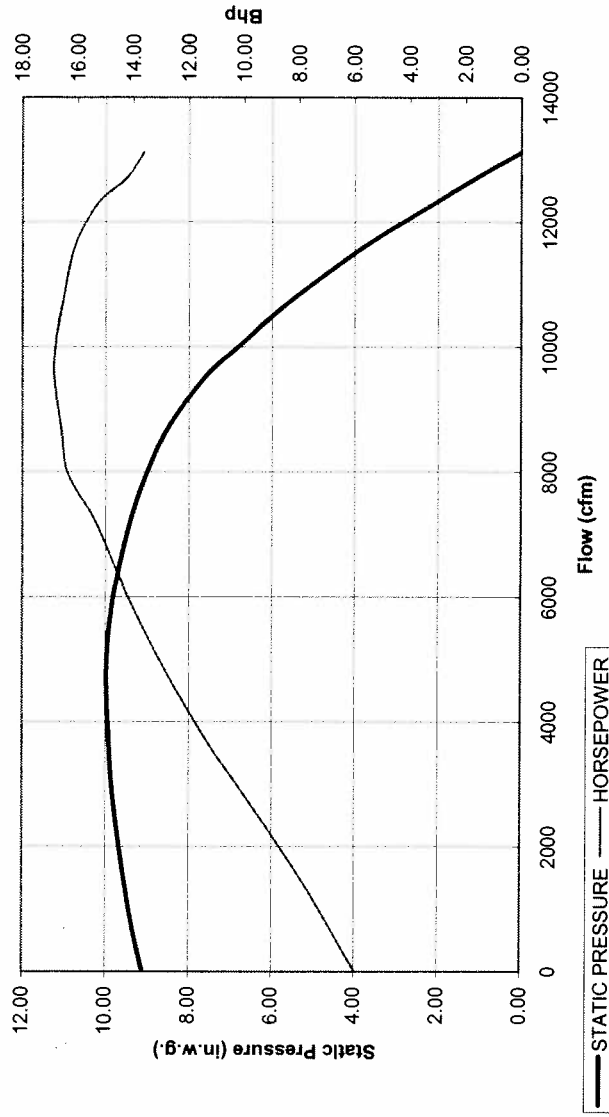
REFERENCE Current program curve for 01-8195

DATE: 7-Jan-10

Revision 3.8

q (acfm)	sp (" wg)	bHP	OV (fpm)	eff
0	9.10	5.96	0	0.0%
733	9.35	6.92	253	15.5%
1447	9.54	7.88	500	27.4%
2182	9.70	8.98	755	37.0%
2886	9.83	10.07	998	44.1%
3633	9.91	11.24	1256	50.2%
4447	9.97	12.35	1538	56.3%
5068	9.97	13.13	1753	60.3%
5821	9.86	13.98	2013	64.3%
6506	9.66	14.68	2250	67.1%
7256	9.39	15.41	2509	69.2%
7974	9.01	16.36	2758	68.8%
8688	8.51	16.60	3005	69.8%
9529	7.60	16.85	3295	67.3%
10063	6.71	16.80	3480	62.9%
10670	5.69	16.56	3690	57.4%
11600	3.79	16.12	4012	42.7%
12306	2.07	15.27	4256	26.2%
12718	1.06	14.22	4398	14.9%
13122	0.00	13.62	4538	0.0%

UNIFOIL SWSI -- SERIES 3000 size=222
2272 RPM @ 0.075 lb/ft³ inlet density



8,000	9.00	16.37	2767	68.9%
Fan Type	UNF-S			
Series	3000			
speed	2,272	RPM		
Size	222		Standard	
Diameter	22.250	" Dia	<input checked="" type="checkbox"/> Auto Calculate	
density	0.075	lb/ft ³	<input checked="" type="checkbox"/> SELECT CLASS 2	
%width	1.000	1=100%	MAX RPM=2575	
Tip Velocity	13,232	FPM		
Outlet A	2.892	ft ²		

Note: selected SP is 9.8% from peak SP of 10.0 in.w.g.

- X-AXIS AT SP
- Y-AXIS AT CFM
- MAJOR X-AXIS GRIDLINES
- MAJOR Y-AXIS GRIDLINES

Temperature deg F.	70	1.0000	cold	70	1.000
Elevation (FASL)		1.0000			
Relative Humidity dec.		1.0000			
(-)Inlet sp		1.0000			
BaseDensity	0.075	1.0000			=0.0750 lb/ft ³
Material De-Rating	1.000				

STANDARD UNIT DATA



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SOUND PREDICTION FOR SERIES 3000
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Dia = 22.25 inches
ACFM = 8,000
SP = 9.00 in w.g.
bHP = 16.37
Max EFF = 69.8
EFF = 68.9
RPM full speed = 2,272

Type of Fan = UNIFOIL SWSI
Tab = 1.0 (reference only)
ER = 98.7 (reference only)
OPC = 0.0 (reference only)

Distance to Sound Source = 5.0 feet

Ducting in/out (Gauge mat'l) = 18 GA

NOTE: When ducted in/out is selected the Auto gauge calculator may be used as a rough estimate of material thicknesses in lieu of Engineering data.

UNIFOIL SWSI -- SERIES 3000 size=222
2272 RPM @ 0.075 lb/ft^3 inlet density

OCTAVE BANDS (CENTRE FREQUENCY)

	63	125	250	500	1000	2000	4000	8000
SPL	103	103	104	97	92	86	82	77
A scale	-25	-15	-8	-3	0	1	1	-1
Ducted in/out	-11	-12	-10	-12	-15	-12	-15	-16
Sound Attenuation	0	0	0	0	0	0	0	0
LWA	67	76	86	82	77	75	68	60

Single Value (A Weighted)

dBA = 89 @ 0 feet

dBA = 76 @ 5.0 feet

NOTE: These values are predicted levels and may vary depending on acoustical properties of surrounding environment and/or mounting conditions



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UNIFOIL SWSI -- SERIES 3000 size=222
2272 RPM @ 0.075 lb/ft³ inlet density

ACFM = 8,000
 SP = 9.00 in w.g.
 bHP = 16.37
 rpm full speed = 2,272
 t full speed = 37.8 lb ft

Point	RPM	Torque lb ft
0	0.0	0.0
1	227.2	0.4
2	454.3	1.5
3	681.5	3.4
4	908.6	6.1
5	1,135.8	9.5
6	1,362.9	13.6
7	1,590.1	18.5
8	1,817.2	24.2
9	2,044.4	30.7
10	2,271.5	37.8

Fan Torque Curve

