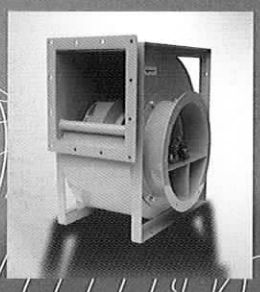
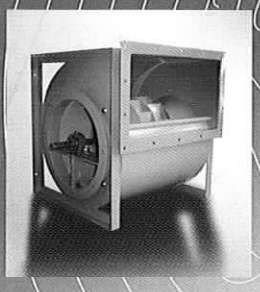
GT-GNN™

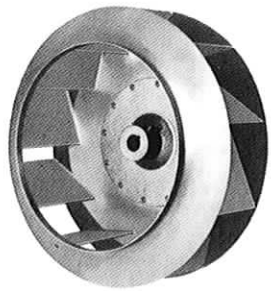
Backward Curve Centrifugal Fan





GT-GNN™

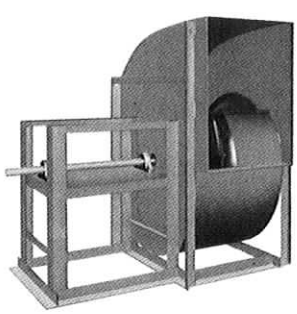
ROTOR DESIGN CHARACTERISTICS



The backward-inclined designed wheels gives medium speed operation, broad pressure / volume performance with non-overloading and high efficiency characteristics, resulting in highly desirable fans for all types of air handling applications.

The backward-inclined wheels are designed for maximum operating efficiencies at relatively low tip speeds. This results in quiet operation at a higher total and static efficiency.

The non-overloading wheel characteristics allow for brake horsepower to level off at a point that allows economical selection of motors that will not be overloaded even if the system pressure drops.



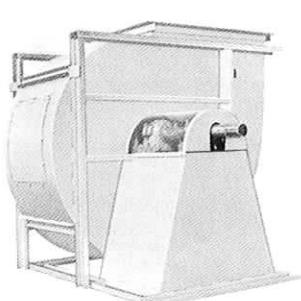
The backward-inclined wheels are constructed of heavy gauge, single thickness blades securely welded to a heavy gauge backplate and wheel cone to ensure smooth airflow into the blades and a close running fit between the wheel shroud and inlet cone. The wheels are statically and dynamically balanced to precise tolerances to ensure smooth running of fans.

DRIVES SYSTEM

Belt-Driven

V-belt drives are supplied as standard, sized for a minimum of 150% of driven horsepower.

Direct-Driven



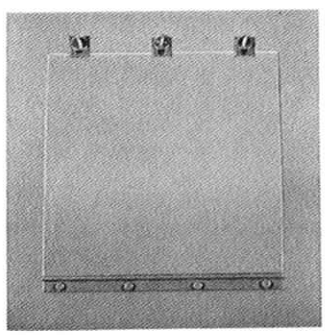
Direct-driven fans are constructed with the fan wheel mounted directly on the motor shaft or driven through a flexible coupling with the wheel supported on its own set of bearings.

SHAFT COOLERS

Where high temperature applications are required, the aluminium shaft cooler is recommended for dissipating heat and protecting bearings from the high temperature environment.

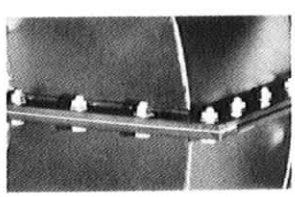
DRAIN HOLE

A pipe coupling can be welded to the lowest point the in housing scroll to allow draining water for washing purposes as well as condensation.



ACCESS PANEL

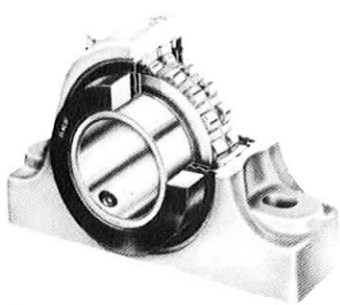
Bolted for quick opening access panels are available for easy access to the fan interior for inspection and maintenance purposes.

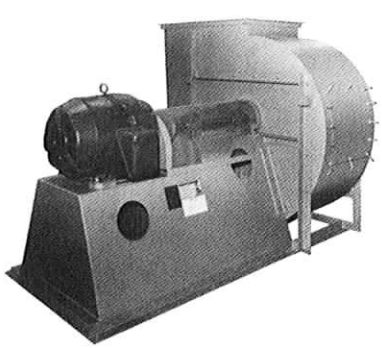


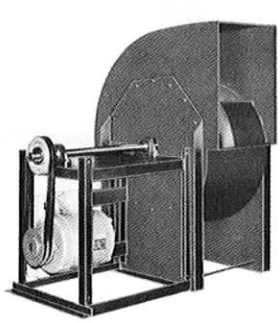
OTHER ACCESSORIES

A large number of optional accessories are available, including,

- Split housings;
- Inlet and outlet screen;
- Special construction material (stainless steel, carbon steel, etc...)
- Special coatings and finishes;
- Vibration isolators;
- Others upon request & availability

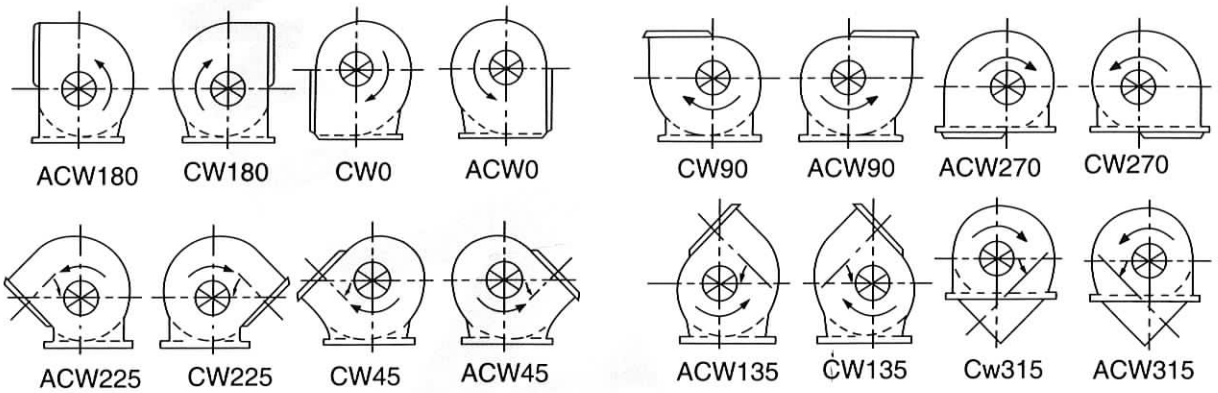






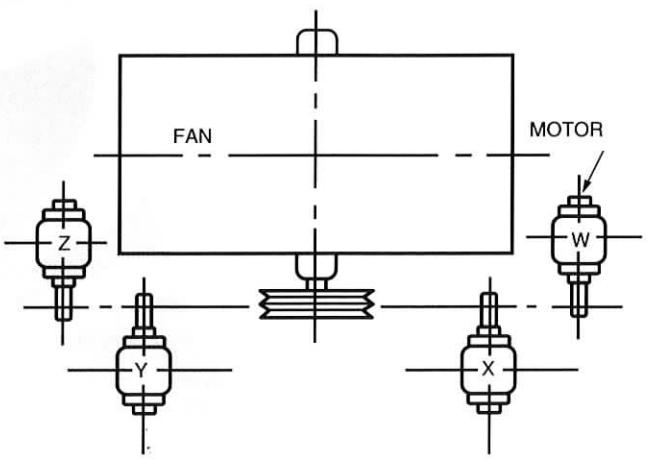
Direction of Rotation and Discharge

Direction of rotation is determined from the drive side. On single inlet fans, drive side is considered as opposite inlet, regardless of actual drive location.



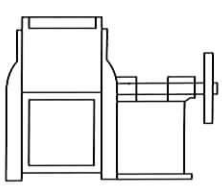
STANDARD MOTOR POSITIONS

The location of motor is determined from plan view of the blower, designating the motor position by letters W, X, Y and Z as the case may be.



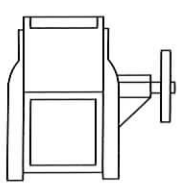
ARRANGEMENTS OF DRIVE

1



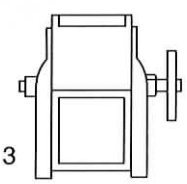
ARRANGEMENT No. 1, SWSI
For belt drive or direct connection. Wheel overhung. Two bearings on base.

2



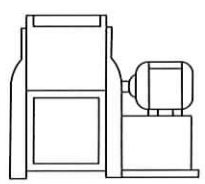
ARRANGEMENT No. 2, SWSI
For belt drive or direct connection. Wheel overhung. Bearings in bracket supported by fan housing.

3



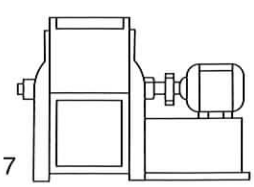
ARRANGEMENT No. 3, SWSI AND DWDI
For belt drive or direct connection. One bearing on each side and supported by fan housing.

4



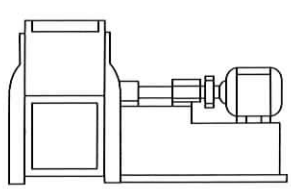
ARRANGEMENT No. 4, SWSI
For direct drive. Wheel overhung on motor shaft. No bearings on fan. Base mounted or an integrally direct connected motor.

7



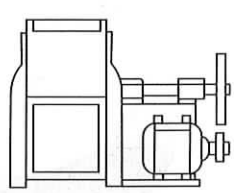
ARRANGEMENT No. 7, SWSI AND DWDI
For belt drive or direct connection. Arrangement No. 3 plus base for motor.

8



ARRANGEMENT No. 8, SWSI
For belt drive or direct connection. Arrangement No. 1 plus base for motor.

9



ARRANGEMENT No. 9, SWSI
For belt drive Arrangement No. I designed for mounting prime mover on side of base.

Engineering Data

High Temperature Construction Requirements

TEMPERATURE (°F)	TYPE OF BEARING	LUBRICATION	OTHER REQUIREMENTS	AVAILABLE ARRANGEMENTS
-20°F To +300°F	Ball or Roller	Grease	Standard Fan	Arr. 1, 4, 8, 9, & 10; (Arr. 4 limited to 180°F.
300°F To +500°F	Ball or Roller	High Temp. Grease	Shaft Cooler, Shaft Seal, Expansion and Non-Expansion Bearings	Arr. 1, 8, 9, and 10*
500°F To +800°F	Ball or Roller	High Temp. Grease	High Temp, Aluminium Paint, Shaft Cooler, Shaft Seal, Expansion and Non-Expansion Bearings	Arr. 1, 8, 9, & 10*; (Arr. 9 & 10 limited to 600°F unless fan is insulated.)
800°F To 1000°F	Ball or Roller	High Temp. Grease	Consult Factory	

Derating Factors for High Temperature

TEMP. (°F)	DERATING FACTOR	
	STD STEEL	STAINLESS
70	1.000	0.970
200	0.990	0.890
300	0.975	0.840
400	0.955	0.810
500	0.930	0.770
600	0.900	0.750
700	0.800	0.740
800	0.600	0.720
900	—	0.710
1000	—	0.680

When elevated temperatures are encountered, maximum RPM allowable as shown below must be derated according to the values given in the table. Standard steel construction is suitable for use in gas temperatures up to 800°F. Aluminum wheels are suitable for temperatures up to 250°F only. For higher maximum RPM or elevated temperatures consult factory.

The prefix symbols shown in Table 12 above should be placed directly before the unit symbol, without any space between them.

CONVERSION FACTORS

Acceleration

1 m/s^2 = ft/s^2 x 0.3048 ft/s^2 = m/s^2 x 3.281

Gravitational acceleration = 9.81 m/s^2 = 32.2 ft/s^2

Angle

radians	= degree x 0.0174533	degree	= radians x 5.729575
minute	= degree x 0.0166667	degree	= minute x 60
second	= degree x 0.0002778	degree	= second x 3600

Area

m^2	= ft^2 x 0.0929	ft^2	= m^2 x 10.7639
mm^2	= in^2 x 645.16	in^2	= min^2 x 0.00155

Bending Moment

Nm	= lbf ft x 1.35582	lbf ft	= Nm x 0.7376

Density

kg/m^3	= lb/ft^3 x 16.02	lb/ft^3	= kg/m^3 x 0.0624
kg/m^3	= $tonne/m^3$ x 1000	$tonnein^3$	= kg/m^3 x 0.001

Density of dry air = 1.2 kg/m^3 = 0.075 lb/ft^3 at 20°C
Density of water = 1 kg/litre = 1000 kg/m^3 = 1 $tonne/m^3$

Energy

MJ	= kwhr x 3.6	kwhr	= MJ x 0.2778
kJ	= BTU x 1.0551	BTU	= kJ x 0.9478
J	= cal x 4.187	cal	= J x 0.2388

Force
N (Newton) = kgm/s^2

1 Newton is equal to the force required to impart an acceleration of $1m/s^2$ to body of mass 1 kg.

N	= b (force) x 4.4483	lb (foce)	= N x 0.2248
N	= kg (force) x 9.807	kg (force)	= N x 0.102

Length
1 micron = 10^{-3} mm = 10^{-6}m = 1mm

mm	= in. x 25.4	in	= mm x 0.03937
mm	= ft x 304.8	ft	= mm x 0.00328
m	= ft x 0.3048	ft	= m x 3.2808
km	= mile x 1.609	mile	= km x 0.6215
m	= yd x 0.9144	yd	= m x 1.0936

Mass

kg	= lb x 0.4536	lb	= kg x 2.2046
tonne	= ton x 1.01605	ton	= tonne x 0.9842
tonne	= kg x 0.001	kg	= tonne x 1000
lb	= oz x 0.0625	oz	= lb x 16

Mass per unit length

kg/m	= lb/ft x 1.4882	lb/ft	= kg/m x 0.672

Power

kw	= hp x 0.7457	hp	= kw x 1.341

Fan absorbed power = (0.1 x m^3/s x Pa) 4 Fan efficiency in %

Pressure

$$\textbf{1Pa (Pascal)} = 1\frac{N}{m^2} = 1\ \frac{kg}{ms^2}$$

Absolute pressure is the pressure compared with zero pressure in empty space.

Atmospheric pressure can be expressed in various units and is equal to 1.013 bat, 1013.25 mbar, 101325 Pa, 760 Torr, 29.92 in.Hg, 14.696 psi, 407 in.w.g.

in w.g	= Pa x 0.004	Pa	= in w.g. x 249
in w.g.	= kPa x 4.016	kPa	= in w.g. x 0.249
in w.g.	= psi x 27.7	psi	= in w.g. x 0.0361
in w.g.	= mbar x 0.405	mbar	= in w.g. x 2.49
in w.g.	= mm w.g. x 0.03937	mm w.g.	= in w.g. x 25.4
kPa	= psi x 6.895	psi	= kPa x 0.145
kPa	= mm w.g. x 0.00981	mm w.g.	= kPa x 101.94
mm w.g.	= psi x 704.2	psi	= mm w.g. x 0.00142
mm Kg (Torr)	= Pa x 0.0075	Pa	= mm Hg x 133.33
mm Hg	= in w.g. x 13.6	in w.g.	= mm Hg x 0.07353
in Hg	= kPa x 0.2953	kPa	= in Hg x 3.3864
in Hg	= psi x 2.0367	psi	= in Hg x 0.491
Pa	= mbar x 100	mbar	= Pa x 0.01
Pa	= mm w.g. x 9.81	mm w.g.	= Pa x 0.102

Rotational Speed

rpm	= rev/s x 60	rev/s	= rpm x 0.01667
rpm	= rad/s x 9.551	rad/s	= rpm x 0.1047

Specific Volume

m^3/kg	= ft^3/lb x 0.06243	ft^3/lb	= m^3/kg x 16.0185

Specific volume for dry air = 0.833 m^3/kg @ 20°C
Specific volume for water = 0.001 m^3/kg

Temperature

°C	= (°F - 32)^{5}x9 /	°F	= (°C x $^9/_5$) + 32
°K (Kelvin)	= °C + 273.15	°C	= °K - 273.15
°R (Rankine)	= °F + 459.6	°F	= °R - 459.6
°K	= °R x $^5/_9$	°R	= °R x $^9/_5$

°K (Kelvin) and °R (Rankine) are absolute temperatures. At the absolute zero temperature of -459.6°F or -273.15°C, there is no molecular movement within a body.

Water boils at 100°C (212°F) and freezes at 0°C (32°F)

Torque

Nm	= lb.ft x 1.35582	lb.ft	= Nm x 0.7376
Nm	= lb.in x 0.113	lb.in	= Nm x 8.85

$$\text{Torque in Nm} = \frac{\text{kw(output)} \times 9560}{\text{rpm}} \qquad \text{where } 9560 = \frac{60 \times 1000}{2p}$$

Velocity

ft/s	= m/s x 3.281	m/s	= ft/s x 0.3048
ft/min	= m/s x 196.85	m/s	= ft/min x 0.00508
m/min	= m/s x 60	m/s	= m/min x 0.01667
km/hr	= m/s x 3.6	m/s	= km/hr x 0.2778
m/s	= mph x 0.44704	mph	= m/s x 2.2369
km/hr	= mph x 1.609	mph	= km/hr x 0.621

Velocity Pressure

Velocity pressure in Pa = $0.5rv^2$, where r = density, kg/m^3 ; v = velocity, m/s

Volume

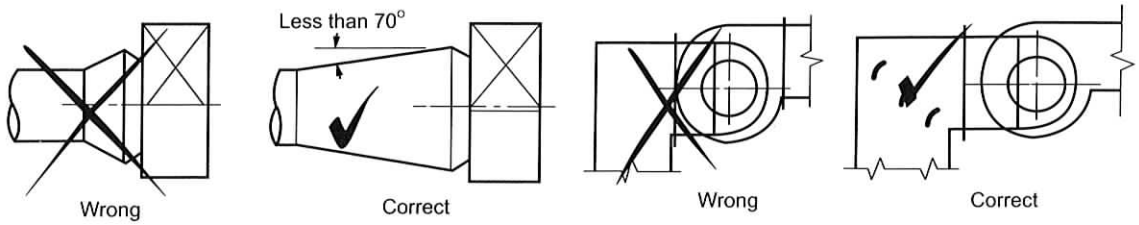
m^3	= ft^3 x 0.02832	ft^3	= m^3 x35.3147

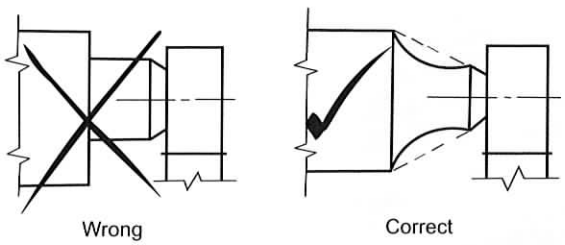
Volume Flowrate

cfm	= m^3/hr x 0.5886	m^3/hr	= cfm x 1.699
cfm	= m^3/min x 35.31	m^3/min	= cfm x 0.02832
cfm	= m^3/s x 2118.6	m^3/s	= cfm x 0.000472
cfm	= l/s x 2.1186	l/s	= cfm x 0.472
cfm	= l/min x 0.0353	l/min	= cfm x 28.32

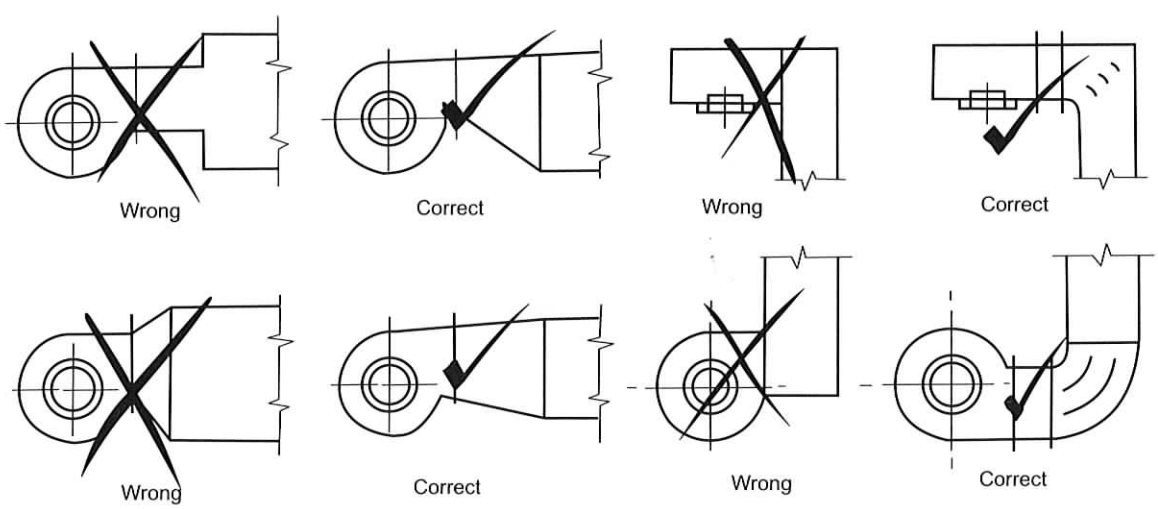
Recommended Connections

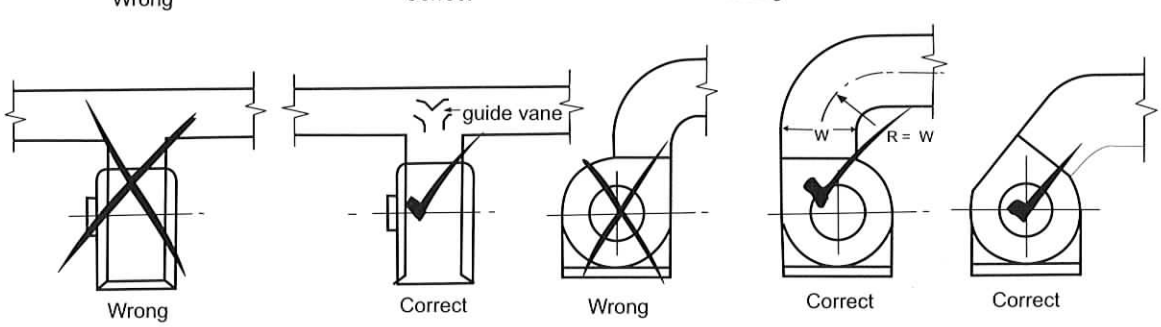
SUCTION DUCT

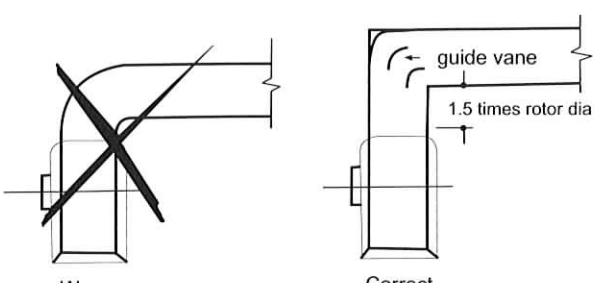




DISCHARGE DUCT







DWDI 122

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
12 1/4"	1.840 SQ. FT.	1.55 SQ. FT.	F.P.M. = 3.21xRPM	.1418 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1200	774	921	0.10	60	1004	0.13	66	1082	0.16	68	1158	0.21	70	1232	0.23	72	1305	0.29	72	1377	0.33	74	1519	0.41	76	1655	0.54	78
1300	839	969	0.11	62	1049	0.14		1123	0.18		1194	0.21		1263	0.26		1332	0.31		1400	0.35		1533	0.45		1662	0.56	
1400	903	1018	0.13		1095	0.16		1166	0.21		1233	0.25		1298	0.29		1363	0.33		1427	0.36		1552	0.46		1676	0.58	
1500	968	1067	0.15	63	1142	0.18	67	1210	0.23	69	1275	0.27	71	1337	0.31	73	1398	0.35	73	1457	0.40	75	1576	0.49	77	1693	0.62	79
1600	1032	1117	0.18		1191	0.21		1257	0.26		1318	0.30		1378	0.33		1436	0.37		1494	0.42		1605	0.54		1716	0.65	
1700	1097	1166	0.20		1239	0.23		1304	0.28		1364	0.33		1421	0.36		1477	0.41		1531	0.45		1638	0.57		1743	0.67	
1800	1161	1216	0.23	64	1289	0.27	68	1352	0.31	70	1410	0.35	72	1466	0.40	74	1519	0.45	74	1572	0.49	76	1674	0.61	78	1774	0.71	80
1900	1226	1267	0.26		1338	0.30		1401	0.35		1457	0.39		1512	0.44		1564	0.49		1614	0.55		1712	0.65		1807	0.75	
2000	1290	1316	0.29		1387	0.33		1449	0.37		1506	0.42		1558	0.47		1609	0.54		1657	0.58		1752	0.70		1844	0.81	
2100	1355	1367	0.31		1438	0.36		1499	0.41		1554	0.46		1606	0.53		1655	0.58		1703	0.63		1793	0.73		1882	0.85	
2200	1419	1416	0.35		1487	0.41		1548	0.45		1603	0.53		1653	0.58		1702	0.62		1748	0.67		1838	0.80		1923	0.91	
2300	1484	1467	0.40	65	1538	0.45	69	1598	0.52	71	1652	0.57	73	1702	0.62	75	1749	0.67	75	1795	0.73	77	1882	0.85	79	1965	0.97	81
2400	1548	1517	0.44		1587	0.49		1648	0.57		1702	0.62		1751	0.67		1797	0.73		1842	0.79		1927	0.91		2009	1.04	
2500	1613	1568	0.49		1638	0.56		1697	0.62		1751	0.67		1800	0.72		1846	0.79		1890	0.85		1973	0.97		2053	1.11	
2600	1677	1617	0.55		1688	0.61		1748	0.66		1800	0.72		1849	0.79		1895	0.85		1938	0.92		2020	1.05		2098	1.17	
3000	1935	1819	0.77	66	1888	0.85	70	1948	0.94	72	2000	1.00	74	2048	1.07	76	2093	1.15	76	2134	1.22	78	2212	1.37	80	2286	1.50	82
3400	2194	2022	1.07		2089	1.16		2149	1.26		2201	1.35		2248	1.42		2292	1.50		2333	1.59		2409	1.75		2479	1.93	
3800	2452	2226	1.43	67	2291	1.56	71	2349	1.66	73	2401	1.75	75	2448	1.86	77	2493	1.95	77	2533	2.04	79	2608	2.22	81	2676	2.41	83
4200	2710	2433	1.88		2495	2.01		2550	2.14		2602	2.25		2649	2.36		2692	2.47		2734	2.58		2808	2.78		2875	3.00	
4600	2968	2642	2.43	68	2699	2.58	72	2753	2.70	74	2804	2.83	76	2850	2.96	78	2893	3.09	78	2933	3.20	80	3008	3.44	82	3075	3.66	84

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1700	1097	1949	0.92	81	2149	1.19	83	2341	1.50	85																		
1800	1161	1969	0.97	82	2162	1.25	84	2348	1.56	86	2528	1.87	86															
1900	1226	1995	1.01		2178	1.30		2359	1.61		2533	1.93																
2000	1290	2023	1.07		2199	1.35		2372	1.67		2541	1.99		2706	2.34	88												
2100	1355	2055	1.11		2224	1.41		2391	1.72		2553	2.06		2713	2.40		2869	2.78	90									
2200	1419	2089	1.17		2252	1.47		2411	1.77		2569	2.12		2724	2.48		2876	2.85		3023	3.25	90						
2300	1484	2125	1.24	83	2281	1.52	85	2436	1.84	87	2588	2.18	87	2738	2.54	89	2885	2.93	91	3029	3.34	91	3170	3.75	91			
2400	1548	2164	1.32		2314	1.61		2464	1.93		2610	2.27		2755	2.64		2898	3.01		3039	3.42		3177	3.83		3311	4.27	93
2500	1613	2203	1.39		2349	1.68		2494	2.01		2635	2.34		2776	2.71		2914	3.09		3051	3.50		3185	3.91		3318	4.37	
2600	1677	2245	1.45		2387	1.77		2526	2.08		2663	2.44		2799	2.80		2932	3.18		3065	3.59		3197	4.02		3326	4.46	
3000	1935	2422	1.82	84	2549	2.14	86	2674	2.48	88	2795	2.83	88	2916	3.21	90	3034	3.61	92	3153	4.02	92	3270	4.46	92	3387	4.90	94
3400	2194	2608	2.25		2727	2.60		2843	2.96		2953	3.34		3062	3.73		3169	4.13		3275	4.55		3380	5.00		3486	5.46	
3800	2452	2801	2.78	85	2915	3.15	87	3023	3.54	89	3127	3.93	89	3227	4.35	91	3326	4.76	93	3423	5.20	93	3520	5.67	93	3614	6.12	95
4200	2710	2997	3.39		3108	3.80		3212	4.20		3309	4.64		3404	5.06		3497	5.50		3587	5.97		3676	6.44		3765	6.91	96
4600	2968	3195	4.11	86	3304	4.54	88	3404	4.99	90	3499	5.45	90	3590	5.90	92	3677	6.38	94	3764	6.86	95	3847	7.34	95	3929	7.84	97
5000	3226	3395	4.93		3502	5.41		3600	5.89		3693	6.38		3780	6.86	93	3865	7.35	95	3947	7.86		4026	8.37		4105	8.90	
5400	3484	3595	5.86		3701	6.38		3798	6.89	91	3888	7.42	91	3974	7.93		4056	8.46		4135	9.00		4212	9.53		4287	10.09	
5800	3742	3796	6.90	88	3901	7.47	90	3996	8.03	92	4086	8.60	92	4169	9.16	94	4250	9.70	96	4327	10.28	96	4402	10.85	96	4475	11.41	98
6200	4000	3995	8.08		4100	8.69		4196	9.30		4285	9.90		4367	10.50		4447	11.08		4523	11.69		4595	12.30		4666	12.91	
6600	4258	4196	9.38		4301	10.05		4396	10.70		4484	11.36		4566	11.99		4644	12.62		4718	13.25		4791	13.88		4861	14.53	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2500	1613	3446	4.81	93																								
2600	1677	3453	4.91		3577	5.39	93																					
3000	1935	3501	5.38	94	3615	5.86	94	3729	6.34	96	3840	6.86	97	4058	7.92	99												
3400	2194	3590	5.92		3693	6.43		3796	6.93	97	3898	7.46		4099	8.53		4298	9.67	99	4493	10.87	99	4683	12.09	101			
3800	2452	3709	6.60	95	3803	7.12	96	3896	7.63	98	3989	8.15	98	4175	9.26	100	4357	10.40	100	4538	11.62	100	4716	12.88	102	4893	14.17	102
4200	2710	3851	7.42	96	3938	7.92		4024	8.46		4110	9.00		4279	10.11		4448	11.29		4614	12.50		4780	13.78		4945	15.10	
4600	2968	4011	8.35	97	4091	8.89	97	4172	9.41	99	4251	9.98	99	4407	11.12	101	4563	12.30	101	4718	13.53	101	4872	14.82	103	5024	16.16	103
5000	3226	4182	9.43		4258	9.98		4333	10.54		4407	11.10		4555	12.27		4700	13.47		4844	14.75		4986	16.05		5128	17.40	
5400	3484	4361	10.64		4433	11.22		4505	11.78		4575	12.37		4714	13.57		4851	14.81		4986	16.10		5120	17.43		5254	18.81	
5800	3742	4546	12.01	98	4615	12.60	98	4684	13.19	100	4751	13.79	100	4884	15.05	102	5014	16.33	102	5143	17.64	102	5269	19.00	104	5394	20.40	
6200	4000	4735	13.50		4803	14.12		4869	14.76		4934	15.38		5061	16.67		5186	17.98		5309	19.34		5429	20.74		5549	22.18	104
6600	4258	4928	15.17		4993	15.82		5058	16.48		5121	17.14		5245	18.47		5364	19.84		5483	21.23		5598	22.67		5711	24.12	
7000	4516	5122	17.01		5187	17.69		5250	18.35		5312	19.06		5431	20.45		5549	21.87		5662	23.31		5773	24.78		5883	26.28	
7400	4774	5319	18.98	99	5382	19.70	99	5444	20.41	101	5504	21.15	101	5622	22.59	103	5735	24.06	103	5846	25.56	103						
7800	5032	5517	21.16		5578	21.90		5640	22.66		5699	23.41		5814	24.93		5926	26.45										
8200	5290	5714	23.50		5776	24.29		5837	25.08		5896	25.86																

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™
DWDI 135

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
13 1/2"	2.240 SQ. FT.	1.89 SQ. FT.	F.P.M.=3.53x RPM	.2305 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1500	794	851	0.12	61	925	0.16	65	994	0.21	69	1061	0.26	71	1127	0.30	73	1192	0.35	73	1257	0.41	75	1382	0.53	77	1504	0.66	79
1600	847	887	0.14		959	0.18	67	1025	0.23		1089	0.27		1152	0.31		1212	0.36		1274	0.42		1394	0.56		1511	0.67	
1700	899	924	0.16		994	0.21		1058	0.25		1119	0.30		1178	0.35		1236	0.40		1295	0.45		1408	0.58		1520	0.70	
1800	952	960	0.18	64	1029	0.23	68	1091	0.27	70	1149	0.31	72	1207	0.36	74	1263	0.41	74	1317	0.47	76	1427	0.61	78	1533	0.73	80
1900	1005	997	0.21		1065	0.25		1126	0.30		1182	0.35		1237	0.40		1291	0.45		1343	0.52		1447	0.63		1549	0.77	
2000	1058	1034	0.23		1101	0.28		1161	0.31		1215	0.36		1269	0.42		1320	0.47		1371	0.55		1470	0.66		1568	0.80	
2100	1111	1071	0.25		1138	0.30		1196	0.35		1249	0.40		1301	0.46		1351	0.52		1400	0.58		1496	0.71		1589	0.84	
2200	1164	1109	0.28		1174	0.33		1232	0.37		1284	0.44		1335	0.49		1383	0.56		1431	0.62		1522	0.73		1613	0.68	
2300	1217	1146	0.31	65	1211	0.35	69	1268	0.41	71	1320	0.46	73	1369	0.54	75	1416	0.60	75	1462	0.66	77	1551	0.78	79	1638	0.92	81
2400	1270	1183	0.33		1248	0.40		1305	0.45		1355	0.52		1404	0.58		1450	0.63		1495	0.70		1581	0.83		1664	0.97	
2500	1323	1222	0.36		1285	0.42		1341	0.49		1392	0.56		1439	0.62		1484	0.67		1527	0.73		1612	0.89		1693	1.03	
2600	1376	1259	0.41		1323	0.46		1378	0.54		1428	0.60		1475	0.66		1519	0.72		1561	0.79		1644	0.94		1723	1.07	
2700	1429	1296	0.45		1361	0.52		1415	0.58		1465	0.65		1511	0.70		1554	0.78		1597	0.83		1676	0.99		1753	1.13	
2800	1481	1334	0.49		1398	0.56		1452	0.62		1502	0.68		1547	0.75		1590	0.83		1630	0.89		1710	1.04		1785	1.19	
3300	1746	1521	0.72	66	1585	0.82	70	1639	0.91	72	1687	0.97	74	1730	1.06	76	1772	1.14	76	1811	1.22	78	1884	1.37	80	1953	1.55	82
3800	2011	1710	1.05	67	1773	1.15	71	1826	1.25	73	1874	1.35	75	1917	1.43	77	1957	1.52	77	1994	1.63	79	2064	1.81		2130	1.98	
4300	2275	1899	1.45		1960	1.58		2014	1.68		2061	1.80		2104	1.92		2143	2.01		2181	2.12		2250	2.32	81	2312	2.52	
4800	2540	2091	1.94	68	2149	2.08	72	2201	2.22	74	2248	2.36	76	2291	2.48	78	2331	2.60	78	2367	2.71	80	2435	2.96	82	2497	3.18	84
5300	2804	2286	2.54		2339	2.70		2390	2.85		2436	3.01		2478	3.16		2518	3.30		2554	3.43		2622	3.70		2683	3.96	
5800	3069	2481	3.27	69	2531	3.44	73	2579	3.63	75	2624	3.78	77	2667	3.96	79	2706	4.11	79	2742	4.26	81	2809	4.55	83	2870	4.84	85

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2000	1058	1760	1.09	82	1946	1.43	84																					
2100	1111	1774	1.14		1953	1.47		2126	1.84	86																		
2200	1164	1790	1.17		1963	1.51		2132	1.88		2294	2.29	86															
2300	1217	1809	1.24	83	1976	1.58	85	2139	1.94	87	2298	2.34	87															
2400	1270	1829	1.29		1991	1.63		2150	2.01		2304	2.40		2454	2.83	89												
2500	1323	1852	1.33		2009	1.68		2162	2.06		2312	2.47		2459	2.89		2601	3.35	91									
2600	1376	1877	1.39		2028	1.73		2176	2.12		2323	2.52		2466	2.96		2605	3.42		2741	3.90	91						
2700	1429	1902	1.45		2049	1.80		2193	2.18		2335	2.60		2474	3.04		2611	3.49		2744	3.97							
2800	1481	1930	1.51		2072	1.87		2211	2.25		2349	2.66		2485	3.11		2618	3.57		2749	4.06		2877	4.55	91			
3300	1746	2083	1.88	84	2207	2.27	86	2329	2.66	88	2448	3.09	88	2567	3.54	90	2684	4.02	92	2801	4.50	92	2916	5.02	92	3030	5.57	94
3800	2011	2251	2.36	85	2365	2.76	87	2474	3.18	89	2581	3.63	89	2686	4.09	91	2790	4.57	93	2893	5.09	93	2996	5.60	93	3098	6.16	95
4300	2275	2428	2.96		2535	3.39		2636	3.83		2734	4.28		2829	4.78		2924	5.27		3017	5.79		3110	6.34		3201	6.89	
4800	2540	2609	3.65	86	2711	4.12	88	2808	4.58	90	2899	5.09	90	2989	5.58	92	3076	6.12	94	3161	6.65	94	3246	7.21	94	3330	7.79	96
5300	2804	2793	4.46		2892	4.97		2985	5.49		3074	6.00		3158	6.56		3239	7.11		3320	7.66		3398	8.25		3476	8.84	
5800	3069	2979	5.41	87	3077	5.97	89	3166	6.52	91	3252	7.10	91	3333	7.66	93	3411	8.24	95	3488	8.84	95	3562	9.45	95	3635	10.07	97
6300	3333	3165	6.49		3262	7.11		3351	7.71		3433	8.32		3512	8.92		3587	9.54		3661	10.18		3732	10.82		3802	11.46	98
6800	3598	3353	7.73		3448	8.38		3536	9.04		3617	9.69		3695	10.35	96	3768	11.01	96	3839	11.67	96	3908	12.36	96	3975	13.04	
7300	3862	3540	9.12	88	3635	9.84	90	3721	10.56	92	3803	11.25	93	3878	11.95	95	3950	12.65	97	4020	13.37	97	4087	14.07	97	4152	14.79	99
7800	4127	3727	10.67		3822	11.46	91	3909	12.24	93	3988	12.98		4063	13.73		4134	14.49		4820	15.22		4268	15.98		4332	16.75	
8300	4392	3914	12.41	89	4009	13.27		4095	14.08		4175	14.89		4250	15.71		4320	16.51		4387	17.29		4452	18.10		4514	18.90	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
3300	1746	3143	6.12	94																								
3800	2011	3199	6.74	95	3300	7.31	95																					
4300	2275	3292	7.48		3383	8.08		3473	8.69	97	3563	9.34	97	3740	10.66	99												
4800	2540	3412	8.38	96	3495	9.00	96	3577	9.63	98	3659	10.28	98	3821	11.62	101	3982	13.02	101	4142	14.50	101	4299	16.04	103			
5300	2804	3552	9.47		3629	10.09		3704	10.72		3779	11.38	99	3928	12.76		4076	14.19		4223	15.69		4369	17.23		4513	18.84	103
5800	3069	3707	10.70	97	3778	11.36	98	3848	12.01	100	3918	12.70	100	4056	14.09	102	4193	15.55	102	4329	17.07	102	4464	18.64	104	4598	20.26	104
6300	3333	3870	12.11	98	3938	12.79		4004	13.49		4070	14.17		4199	15.61		4327	17.11		4454	18.65		4580	20.26		4705	21.90	
6800	3598	4040	13.73		4105	14.43		4168	15.15		4230	15.87		4354	17.36		4474	18.88		4594	20.46		4712	22.10		4830	23.77	
7300	3862	4215	15.52	99	4278	16.25	99	4338	17.01	101	4398	17.75	101	4517	19.29	103	4631	20.87	103	4744	22.48	103	4856	24.16	105	4968	25.88	105
7800	4127	4394	1751.00		4454	18.28		4513	19.06		4571	19.84		4684	21.44		4796	23.08		4904	24.75		5011	26.47		5116	28.21	
8300	4392	4574	19.70		4634	20.52		4692	21.33		4748	22.15		4857	23.80		4965	25.50		5070	27.24		5172	29.00		5273	30.81	
8800	4656	4758	22.10		4815	22.95		4872	23.80		4928	24.67		5035	26.41		5139	28.17		5240	29.95		5340	31.78				
9300	4921	4942	24.73	100	4999	25.64	100	5054	26.53	102	5109	27.42	102	5214	29.24	104	5316	31.08	104									
9800	5185	5126	27.58		5183	28.54		5238	29.48		5291	30.42		5395	32.31													
10300	5450	5313	30.68		5368	31.68																						

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

DWDI 150

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
15"	2.780 SQ. FT.	2.33 SQ. FT.	F.P.M. = 3.93 x RPM	.3903 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1900	815	779	0.16	63	845	0.21	67	905	0.27	69	965	0.31	72	1023	0.37	74	1079	0.44	74	1136	0.52	76	1247	0.66	78	1355	0.82	80
2000	858	804	0.18		869	0.23		928	0.29		986	0.33		1040	0.40		1096	0.45		1149	0.54		1257	0.68		1361	0.83	
2100	901	831	0.20		895	0.25		952	0.31	70	1007	0.35		1061	0.41		1113	0.49		1165	0.57		1268	0.70		1368	0.88	
2200	944	858	0.21		921	0.28		976	0.33		1030	0.39		1082	0.45		1132	0.52		1181	0.58		1280	0.73		1377	0.91	
2300	987	885	0.23	64	947	0.30	69	1001	0.35	71	1053	0.41	73	1103	0.47	75	1152	0.55	75	1200	0.62	77	1295	0.77	79	1388	0.94	81
2400	1030	913	0.27		972	0.31		1027	0.37		1077	0.44		1126	0.49		1173	0.58		1220	0.65		1311	0.80		1401	0.96	
2500	1073	939	0.29	65	999	0.35		1053	0.41		1102	0.46		1149	0.54		1195	0.61		1240	0.67		1329	0.83		1415	1.00	
2600	1116	966	0.31		1026	0.36		1078	0.44		1127	0.49		1173	0.58		1217	0.63		1262	0.71		1347	0.88		1432	1.04	
2700	1159	994	0.33		1053	0.40		1104	0.46		1153	0.54		1197	0.61		1241	0.67		1283	0.74		1367	0.91		1448	1.07	
2800	1202	1021	0.36		1079	0.42		1131	0.49		1177	0.58		1223	0.65		1265	0.71		1306	0.79		1387	0.96		1467	1.11	
2900	1245	1049	0.40	66	1106	0.46	70	1158	0.54	72	1204	0.61	74	1247	0.67	76	1290	0.75	76	1330	0.83	78	1409	0.99	80	1485	1.16	82
3000	1288	1075	0.42		1134	0.49		1183	0.58		1230	0.65		1273	0.71		1314	0.80		1353	0.88		1431	1.05		1506	1.22	
3100	1330	1103	0.45		1161	0.55		1211	0.62		1257	0.68		1299	0.77		1339	0.83		1378	0.92		1453	1.09		1526	1.27	
3700	1588	1267	0.70	67	1325	0.80	71	1373	0.89	73	1416	0.99	75	1457	1.07	77	1495	1.15	77	1531	1.25	79	1600	1.43	81	1664	1.63	83
4300	1845	1431	1.04		1488	1.15		1537	1.26		1580	1.37		1619	1.47		1655	1.58		1690	1.67		1754	1.87		1815	2.10	
4900	2103	1597	1.45	68	1652	1.59	72	1701	1.72	74	1743	1.84	76	1782	1.97	78	1818	2.08	78	1852	2.19	80	1914	2.44	83	1971	2.67	85
5500	2361	1763	1.97		1817	2.13		1864	2.27		1907	2.43	77	1946	2.56	79	1982	2.70	79	2015	2.83	81	2075	3.09		2132	3.37	
6100	2618	1931	2.60	70	1982	2.78	74	2029	2.96	76	2071	3.11	78	2109	3.28	80	2145	3.44	80	2178	3.59	82	2239	3.88	84	2295	4.19	86
6700	2876	2101	3.37		2149	3.55		2194	3.76		2235	3.96		2273	4.12		2309	4.32		2342	4.47		2403	4.81		2458	5.15	
7300	3133	2273	4.27	71	2318	4.48	75	2360	4.71	77	2400	4.91	79	2438	5.13	81	2473	5.31	81	2506	5.51	83	2567	5.89	85	2621	6.26	87

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2400	1030	1578	1.33	83	1748	1.75	85																					
2500	1073	1586	1.37		1752	1.78		1911	2.24	88																		
2600	1116	1597	1.41		1758	1.82		1914	2.29																			
2700	1159	1609	1.45		1765	1.87		1918	2.34		2064	2.82	88															
2800	1202	1622	1.49		1775	1.93		1923	2.39		2067	2.87																
2900	1245	1637	1.56	84	1785	1.98	86	1929	2.44		2070	2.93	89	2207	3.45	91												
3000	1288	1652	1.61		1796	2.03		1937	2.48	89	2075	3.00		22	3.51													
3100	1330	1670	1.66		1810	2.08		1947	2.54		2082	3.06		2213	3.57		2341	4.14	93									
3700	1588	1789	2.04	85	1910	2.48	88	2028	2.96	90	2145	3.47	90	2261	4.02	92	2375	4.60	94	2488	5.20	94	2599	5.83	94	2707	6.49	96
4300	1845	1928	2.54	86	2036	3.00		2141	3.50		2244	4.03		2346	4.60		2447	5.19		2547	5.81		2647	6.45		2745	7.12	
4900	2103	2079	3.16	87	2178	3.65	89	2274	4.19	91	2368	4.73	91	2460	5.31	93	2549	5.92	95	2639	6.56	95	2728	7.21	95	2816	7.89	97
5500	2361	2235	3.88		2330	4.43		2419	5.00		2506	5.58		2589	6.18		2673	6.81		2754	7.47		2835	8.15		2915	8.84	
6100	2618	2395	4.78	88	2486	5.36	90	2572	5.97	92	2653	6.59	92	2732	7.22	94	2809	7.88		2884	8.55	96	2959	9.26	96	3032	9.96	98
6700	2876	2556	5.79		2645	6.44		2727	7.09		2806	7.74		2881	8.42		2954	9.12	96	3025	9.82		3095	10.55		3164	11.29	
7300	3133	2719	6.96	89	2807	7.66	91	2887	8.37	93	2963	9.08	93	3035	9.79	95	3105	10.52	97	3173	11.27	97	3239	12.02	97	3304	12.79	99
7900	3391	2882	8.31		2968	9.06		3048	9.84		3123	10.59		3193	11.36		3261	12.13		3326	12.91		3390	13.71		3452	14.52	
8500	3648	3046	9.82		3132	10.66		3211	11.47		3284	12.28		3353	13.11		3419	13.92		3482	14.76		3544	15.58		3604	16.44	
9100	3906	3209	11.53	90	3295	12.43	92	3373	13.30	94	3445	14.17	94	3514	15.05	96	3578	15.92	98	3641	16.81	98	3701	17.69	98	3760	18.58	100
9700	4163	3373	13.42		3459	14.40		3537	15.36		3608	16.29		3676	17.23		3740	18.16		3801	19.09		3860	20.01		3917	20.96	
10300	4421	3537	15.52		3623	16.58		3701	17.61		3772	18.61		3839	19.60		3902	20.61		3962	21.59		4021	22.58		4077	23.58	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
3700	1588	2814	7.17	96																								
4300	1845	2843	7.81		2939	8.53	96	3033	9.27	98	3127	10.04	98															
4900	2103	2905	8.60	97	2991	9.34	97	3079	10.09	99	3164	10.87	99	3334	12.47	101												
5500	2361	2994	9.56		3074	10.30		3152	11.07		3230	11.86		3386	13.50		3539	15.22	101	3692	17.03	101	3840	18.90	103			
6100	2618	3105	10.70	98	3178	11.47	98	3250	12.25	100	3322	13.05	100	3464	14.73	102	3605	16.46	102	3745	18.29	102	3884	20.19	104	4021	22.16	104
6700	2876	3231	12.04		3299	12.83		3365	13.63		3432	14.45		3563	16.14		3694	17.93		3823	19.78		3952	21.70		4080	23.69	
7300	3133	3368	13.59	99	3432	14.40	99	3494	15.22	101	3557	16.07	101	3679	17.80	103	3800	19.60	103	3920	21.49	103	4040	23.44	105	4158	25.45	105
7900	3391	3513	15.34		3573	16.18		3632	17.03		3690	17.91		3806	19.68		3920	21.55		4032	23.46		4145	25.44		4255	27.48	
8500	3648	3663	17.31		3720	18.17		3777	19.07		3833	19.97		3943	21.81		4051	23.70		4157	25.67		4262	27.70		4366	29.78	
9100	3906	3816	19.49	100	3872	20.41	100	3926	21.33	102	3980	22.26	102	4086	24.16	104	4189	26.14	104	4290	28.14	104	4390	30.21	106	4489	32.33	106
9700	4163	3973	21.92		4027	2286.60		4080	23.83		4132	24.80		4234	26.79		4333	28.81		4430	30.88		4526	3302.18		4621	35.20	
10300	4421	4131	24.57		4184	25.56		4236	26.58		4287	27.59		4386	29.65		4482	31.75		4575	33.91		4668	36.08				
10900	4678	4291	27.47		4344	28.53		4394	29.58		4443	30.65		4540	32.78		4634	34.98										
11500	4936	4453	30.64	101	4504	31.74	101	4554	32.85	103	4603	33.96	103	4697	36.20	105												
12100	5193	4614	34.08		4665	35.24		4714	36.40		4763	37.55																
12700	5451	4777	37.78		4828	39.01																						

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™
DWDI 165

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
16 1/2"	3.340 SQ. FT.	2.82 SQ. FT.	F.P.M. = 4.32 x RPM	.6287 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2200	780	688	0.18	63	750	0.23	67	806	0.30	69	862	0.36	71	917	0.44	73	971	0.52	74	1025	0.60	76	1129	0.78	78	1230	0.97	80
2400	851	728	0.21	64	787	0.28	68	840	0.33	70	893	0.41	72	943	0.47	75	994	0.57	75	1043	0.65	77	1141	0.82	79	1236	1.01	81
2600	922	767	0.26		825	0.31		877	0.37		925	0.45		973	0.54		1020	0.61		1066	0.70		1158	0.88		1247	1.07	
2800	993	809	0.30		864	0.35		914	0.42		960	0.49	73	1005	0.58		1050	0.66		1094	0.74		1179	0.94		1264	1.14	
3000	1064	849	0.33	65	903	0.41	69	952	0.47	72	997	0.57	74	1040	0.65	76	1083	0.72	76	1124	0.81	78	1204	0.99	80	1284	1.19	82
3200	1135	890	0.39		943	0.46	70	991	0.55		1034	0.62		1076	0.70		1117	0.79		1156	0.89		1233	1.07		1308	1.29	
3400	1206	930	0.45		984	0.54		1030	0.62		1073	0.70		1113	0.78		1153	0.88		1190	0.96		1263	1.15		1335	1.37	
3600	1277	971	0.52	67	1025	0.60	71	1070	0.68	73	1112	0.77	75	1152	0.85	77	1189	0.96	77	1226	1.05	79	1296	1.24	81	1365	1.45	83
3800	1348	1012	0.58		1065	0.67		1110	0.75		1152	0.85		1190	0.94		1227	1.05		1262	1.14		1330	1.35		1396	1.57	
4000	1418	1054	0.66		1106	0.74		1152	0.85		1192	0.94		1230	1.05		1265	1.14		1300	1.24		1366	1.45		1429	1.67	
4200	1489	1095	0.73		1147	0.83		1192	0.94		1232	1.05		1269	1.14		1304	1.24		1338	1.35		1402	1.58		1464	1.78	
4400	1560	1136	0.82		1188	0.94		1233	1.05		1272	1.15		1309	1.25		1343	1.35		1376	1.47		1439	1.69		1499	1.93	
4600	1631	1176	0.92	68	1229	1.04	72	1273	1.15	74	1313	1.26	76	1349	1.37	78	1383	1.47	78	1416	1.59	80	1477	1.82	82	1536	2.06	84
4800	1702	1217	1.03		1270	1.15		1314	1.26		1353	1.37		1389	1.49		1423	1.61		1455	1.72		1516	1.97		1573	2.21	
5500	1950	1362	1.43		1414	1.59		1457	1.73		1497	1.87		1533	2.01		1566	2.14		1597	2.27		1654	2.52		1708	2.80	
6200	2199	1508	1.98	69	1557	2.14	73	1602	2.32	75	1641	2.48	77	1676	2.64	79	1708	2.78	79	1739	2.93	81	1795	3.22	83	1847	3.52	85
6900	2447	1654	2.62		1703	2.82		1745	3.01		1784	3.20		1819	3.37		1851	3.55		1882	3.73	82	1937	4.06	84	1988	4.38	86
7600	2695	1803	3.40	70	1848	3.63	74	1890	3.85	77	1928	4.07	79	1963	4.26	81	1995	4.46	81	2025	4.65	83	2081	5.04	85	2130	5.40	87
8300	2943	1952	4.35	71	1994	4.58	75	2034	4.83		2072	5.07		2106	5.30		2138	5.51		2169	5.74		2224	6.16		2273	6.56	
9000	3191	2102	5.45	72	2141	5.72	76	2181	5.97	78	2217	6.25	80	2251	6.49	82	2282	6.75	82	2312	6.99	84	2367	7.46	86	2417	7.91	88

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
3200	1135	1456	1.73	84	1602	2.24	86	1742	2.78	88																		
3400	1206	1476	1.82		1614	2.34		1749	2.89		1879	3.49	89															
3600	1277	1499	1.93	85	1630	2.44	87	1759	3.00	89	1886	3.61	90	2009	4.24	92												
3800	1348	1524	2.03		1650	2.54		1774	3.11		1895	3.73		2014	4.38		2130	5.06	94									
4000	1418	1552	2.14		1673	2.67		1791	3.24		1908	3.86		2023	4.50		2135	5.19		2244	5.91	94						
4200	1489	1582	2.27		1697	2.80		1812	3.39		1924	3.99		2034	4.65		2143	5.35		2251	6.08		2355	6.83	94			
4400	1560	1614	2.41		1725	2.96		1834	3.52		1943	4.14		2049	4.80		2155	5.50		2258	6.23		2360	7.00		2460	7.78	96
4600	1631	1647	2.56	86	1754	3.11	88	1859	3.70	90	1963	4.32	91	2066	4.97	93	2168	5.68	95	2269	6.42	95	2368	7.19	95	2465	7.98	97
4800	1702	1681	2.73		1785	3.27		1887	3.86	91	1987	4.48		2086	5.15		2185	5.86		2281	6.60		2378	7.37		2473	8.18	
5500	1950	1809	3.35		1903	3.94	89	1995	4.55		2085	5.20		2172	5.90		2260	6.62		2347	7.37		2433	8.15		2518	8.97	
6200	2199	1943	4.13	88	2031	4.76	90	2116	5.41	92	2198	6.09	92	2278	6.80	94	2358	7.55	96	2436	8.32	96	2514	9.12	96	2591	9.95	98
6900	2447	2081	5.06		2165	5.74		2245	6.43		2323	7.15		2397	7.89		2470	8.66		2542	9.45		2613	10.29		2684	11.12	
7600	2695	2222	6.12	89	2303	6.86		2380	7.61	93	2453	8.37	93	2524	9.16	95	2593	9.95	97	2659	10.79	97	2726	11.64	97	2791	12.52	99
8300	2943	2363	7.37		2443	8.17	91	2518	8.97		2588	9.79		2656	10.61		2721	11.46		2785	12.32		2848	13.21		2910	14.12	
9000	3191	2506	8.79	90	2585	9.64	92	2658	10.52	94	2727	11.38	94	2792	12.27	96	2855	13.16	98	2916	14.07	98	2976	15.01	98	3034	15.94	100
9700	3440	2649	10.38		2727	11.33		2800	12.27		2868	13.19		2930	14.12		2992	15.07		3051	16.04		3109	17.01		3164	18.00	
10400	3688	2792	12.18		2871	13.21		2942	14.22		3009	15.22		3071	16.22		3131	17.21		3189	18.23		3245	19.26		3298	20.30	
11100	3936	2937	14.21		3014	15.31	93	3085	16.39		3151	17.47		3213	18.52		3271	19.60		3328	20.67		3383	21.73		3435	22.84	
11800	4184	3080	16.44	91	3158	17.64		3228	18.81	95	3293	19.94	95	3355	21.07	97	3412	22.22	99	3468	23.35	99	3522	24.47	99	3574	25.63	101
12500	4433	3224	18.90		3301	20.20		3371	21.44		3436	22.67		3497	23.88		3555	25.08		3610	26.28		3663	27.48		3713	28.69	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
4600	1631	2561	8.81	97																								
4800	1702	2566	9.01		2657	9.87	97	2747	10.75	99																		
5500	1950	2604	9.82		2688	10.70		2771	11.60		2853	12.52	99	3015	14.47	101	3171	16.49	101									
6200	2199	2668	10.82	98	2745	11.70	98	2820	12.62	100	2896	13.57	100	3046	15.53	102	3192	17.61	102	3336	19.76	102	3477	21.99	104			
6900	2447	2754	12.01		2824	12.93		2893	13.84		2962	14.81		3099	16.81		3235	18.90		3370	21.09		3502	23.36		3633	25.73	104
7600	2695	2856	13.42	99	2921	14.35	99	2985	15.31	101	3048	16.28	101	3174	18.31	103	3300	20.42	103	3424	22.64	103	3547	24.96	105	3670	27.34	105
8300	2943	2971	15.05		3030	16.00		3090	16.97		3149	17.98		3266	20.04		3383	22.21		3498	24.44		3612	26.79		3726	29.20	
9000	3191	3092	16.91	100	3149	17.90	100	3204	18.90	102	3260	19.93	102	3370	22.05	104	3478	24.24	104	3586	26.53	104	3694	28.88	106	3800	31.33	106
9700	3440	3220	19.01		3273	20.03		3327	21.07		3379	22.12		3483	24.31		3586	26.54		3687	28.87		3787	31.28		3887	33.76	
10400	3688	3352	21.33		3404	22.41		3455	23.49		3505	24.58		3604	26.82		3702	29.13		3798	31.52		3892	33.97		3987	36.49	
11100	3936	3487	23.93		3537	25.05		3586	26.17		3635	27.31		3731	29.62		3823	32.00		3915	34.45		4006	36.97		4095	39.54	
11800	4184	3624	26.78	101	3673	27.93	101	3721	29.12	103	3769	30.30	103	3860	32.70	105	3951	35.16	105	4039	37.69	105	4125	40.26	107	4211	42.90	107
12500	4433	3763	29.89		3811	31.12		3858	32.33		3905	33.57		3994	36.08		4081	38.63		4166	41.22		4250	43.87		4332	46.57	
13200	4681	3904	33.29		3951	34.58		3996	35.85		4042	37.14		4129	39.75		4215	42.38		4297	45.07		4379	47.79				
13900	4929	4045	37.00		4091	38.33		4136	39.68		4181	41.01		4267	43.72		4351	46.45										
14600	5177	4187	40.98	102	4232	42.38	102	4278	43.80	104	4322	45.19	104	4406	48.02	106												
15300	5426	4203	43.97		4247	45.40		4329	45.29		4374	46.76																

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

DWDI 182

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
18 1/4"	4.050 SQ. FT.	3.45 SQ. FT.	F.P.M.=4.78x RPM	1.200 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2800	812	580	0.21	64	643	0.28	68	698	0.35	70	751	0.41	72	801	0.49	74	850	0.60	74	897	0.67	76	988	0.88	79			
3200	928	625	0.27	65	685	0.33	69	739	0.41	71	788	0.49	73	834	0.58	75	879	0.67	75	923	0.77	77	1006	0.97	80	1087	1.17	82
3600	1043	672	0.33	66	730	0.41	70	781	0.49	72	828	0.60	74	872	0.68	76	914	0.78	76	955	0.89	79	1033	1.09	81	1108	1.31	83
4000	1159	718	0.41		775	0.52		825	0.61		870	0.70		913	0.80		953	0.89	77	992	0.99		1065	1.22		1136	1.45	
4400	1275	766	0.49		821	0.62		870	0.71		915	0.82		956	0.92	77	994	1.04		1031	1.14		1102	1.37		1169	1.61	
4800	1391	815	0.61	67	867	0.72	71	916	0.83	73	959	0.96	76	999	1.07	78	1037	1.17	78	1073	1.31	80	1141	1.55	82	1205	1.78	84
5200	1507	865	0.72		916	0.85		962	0.99	74	1004	1.11		1044	1.24		1082	1.35		1117	1.47		1182	1.73		1244	1.99	
5600	1623	917	0.88		964	1.00	72	1008	1.15		1051	1.29		1090	1.41		1126	1.56		1161	1.68		1225	1.95		1285	2.22	
6000	1739	969	1.03	69	1014	1.16	73	1057	1.33	75	1097	1.47	77	1197	1.61	79	1171	1.75	79	1205	1.91	81	1269	2.18	83	1328	2.47	85
6400	1855	1023	1.19		1064	1.35		1105	1.51		1144	1.67		1181	1.82		1217	1.98		1250	2.14		1313	2.44		1371	2.74	
6800	1971	1077	1.41		1115	1.58		1154	1.73		1192	1.91		1229	2.08		1264	2.24		1297	2.40		1358	2.73		1415	3.04	
7200	2087	1132	1.63	70	1168	1.80	74	1204	1.98	76	1240	2.15	78	1276	2.34	80	1310	2.50	80	1342	2.69	82	1403	3.02	84	1460	3.37	86
7600	2203	1188	1.87		1221	2.06		1256	2.24		1290	2.43		1324	2.62		1358	2.80		1389	3.00		1449	3.35		1505	3.71	
8000	2319	1244	2.15		1275	2.34		1307	2.52		1340	2.73		1373	2.91		1405	3.11		1436	3.32		1496	3.70		1550	4.09	
8400	2435	1301	2.47		1329	2.65		1360	2.83		1391	3.04		1422	3.25		1453	3.47		1483	3.68		1542	4.09		1595	4.48	
8800	2551	1358	2.80		1384	2.99		1413	3.18		1442	3.39		1472	3.61		1503	3.83		1532	4.06		1588	4.48		1642	4.91	
9200	2667	1414	3.17	71	1440	3.35	75	1467	3.55	77	1495	3.77	79	1523	4.01	81	1552	4.22	81	1580	4.46	83	1636	4.91	85	1688	5.38	87
9600	2783	1472	3.55		1496	3.76		1521	3.97		1548	4.19		1575	4.43		1603	4.66		1629	4.89		1684	5.38		1736	5.84	
10000	2899	1530	3.99		1552	4.20		1576	4.42		1602	4.64		1627	4.88		1653	5.12		1680	5.36		1732	5.86		1783	6.36	
10400	3014	1587	4.46		1609	4.66		1632	4.89		1655	5.13		1680	5.36		1705	5.60		1730	5.86		1781	6.38		1830	6.90	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
4400	1275	1296	2.13	85	1416	2.69	87	1533	3.29	89																		
4800	1391	1326	2.32	86	1441	2.91	88	1550	3.51	90	1657	4.17	90	1759	4.83	92												
5200	1507	1360	2.54		1469	3.15		1574	3.77		1676	4.45		1774	5.15		1869	5.86	94									
5600	1623	1397	2.80		1502	3.42		1602	4.07		1700	4.76		1793	5.46		1886	6.20	95	1976	6.98	95	2062	7.78	95			
6000	1739	1436	3.08	87	1537	3.70	89	1634	4.38	91	1727	5.09	91	1817	5.82	93	1906	6.58	96	1992	7.37	96	2076	8.18	96	2159	9.01	98
6400	1855	1477	3.37		1575	4.02		1669	4.72		1758	5.43		1845	6.19		1930	6.98		2013	7.79		2094	8.63		2174	9.49	
6800	1971	1519	3.70		1615	4.38		1706	5.09		1792	5.83		1876	6.60	94	1958	7.41		2038	8.24		2117	9.09		2194	9.98	
7200	2087	1563	4.06	88	1656	4.76	90	1744	5.49	92	1828	6.25	92	1910	7.03	95	1989	7.87	97	2066	8.71	97	2142	9.58	97	2217	10.50	99
7600	2203	1606	4.43		1698	5.16		1784	5.92		1866	6.70		1946	7.52		2022	8.35		2097	9.23		2170	10.12		2242	11.03	
8000	2319	1650	4.84		1741	5.60		1825	6.39		1906	7.20	93	1983	8.03		2058	8.89		2131	9.77		2202	10.69		2272	11.62	
8400	2435	1695	5.27		1785	6.09		1868	6.89		1947	7.73		2022	8.58		2095	9.45		2166	10.35		2235	11.29		2303	12.25	
8800	2551	1740	5.75		1829	6.59		1911	7.42	93	1989	8.27		2063	9.16		2134	10.05		2203	10.98		2271	11.93		2337	12.91	
9200	2667	1786	6.25	89	1874	7.12	91	1955	7.98	94	2031	8.87	94	2104	9.79	96	2174	10.70	98	2242	11.64	98	2308	12.62	98	2373	13.61	100
9600	2783	1831	6.78		1919	7.68	92	1999	8.60		2074	9.52		2147	10.44		2216	11.38		2281	12.36		2346	13.35		2410	14.36	
10000	2899	1878	7.32	90	1964	8.29		2044	9.23		2119	10.19		2190	11.14		2257	12.10		2323	13.11		2387	14.12		2448	15.15	
10400	3014	1924	7.92		2010	8.92		2089	9.90		2163	10.89		2233	11.88		2300	12.88		2365	13.91		2427	14.94		2488	16.00	
10800	3130	1970	8.55		2055	9.58		2134	10.61		2207	11.64		2276	12.65		2343	13.68		2407	14.74		2469	15.79		2529	16.88	
11200	3246	2018	9.21		2101	10.29		2179	11.36		2232	12.41		2321	13.47		2387	14.53		2449	15.61		2511	16.70		2570	17.80	
12200	3536	2136	10.99	91	2218	12.18	93	2294	13.37	95	2366	14.53	95	2433	15.69	97	2498	16.84	99	2560	18.00	99	2618	19.16	99	2676	20.34	101
13200	3826	2259	13.02		2336	14.34		2410	15.64		2480	16.91		2547	18.17		2610	19.42		2671	20.67		2730	21.92		2785	23.18	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
6800	1971	2269	10.87	98	2343	11.80	98	2417	12.75	100	2488	13.71	100															
7200	2087	2290	11.41	99	2362	12.36	99	2433	13.32	101	2503	14.31	101	2640	16.34	103												
7600	2203	2313	11.99		2383	12.95		2452	13.94		2520	14.95		2653	17.01		2783	19.14	103									
8000	2319	2340	12.58		2408	13.57		2475	14.58		2541	15.61		2670	17.73		2796	19.90		2919	22.16	103						
8400	2435	2370	13.21		2436	14.23		2501	15.26		2565	16.30		2690	18.46		2813	20.68		2933	22.99		3051	25.34	105			
8800	2551	2402	13.92		2466	14.94		2529	15.98		2591	17.04		2713	19.23		2833	21.52		2950	23.85		3064	26.24		3177	28.71	105
9200	2667	2436	14.64	100	2499	15.67	100	2560	16.74	102	2620	17.81	102	2739	20.04	104	2855	22.36	104	2969	24.75	104	3082	27.20	106	3191	29.69	106
9600	2.783	2472	15.39		2533	16.46		2593	17.54		2651	18.64		2768	20.92		2881	23.26		2992	25.68		3101	28.17		3208	30.72	
10000	2899	2509	16.20		2569	17.28		2628	18.39		2685	19.52		2797	21.82		2909	24.21		3017	26.67		3124	29.20		3228	31.80	
10400	3014	2547	17.07		2606	18.17		2664	19.29		2719	20.42		2830	22.76		2939	25.19		3045	27.70		3149	30.25		3251	32.89	
10800	3130	2587	17.98		2644	19.09		2701	20.23		2756	21.40		2864	23.77		2971	26.22		3074	28.76		3175	31.37		3275	34.05	
11200	3246	2628	18.93		2684	20.06		2740	21.23		2793	22.41		2899	24.82		3003	27.32		3104	29.89		3204	32.53		3302	35.25	
12200	3536	2733	21.52	101	2786	22.73	101	2840	23.95	103	2892	25.18	103	2994	27.70	105	3093	30.29		3190	32.96	105	3285	35.69	107	3377	38.49	107
13200	3826	2840	24.42		2893	25.71		2945	26.99		2995	28.28		3094	30.92		3190	33.62	105	3283	36.38		3373	39.21		3462	42.10	
14200	4116	2950	27.66		3002	29.00		3053	30.35		3102	31.71		3198	34.47		3291	37.30		3380	40.18		3468	43.11		3554	46.10	
15200	4406	3062	31.19	102	3114	32.62	102	3163	34.06	104	3212	35.50	104	3305	38.41	106	3396	41.38	106	3483	44.36	106	3569	47.41	108	3651	50.50	108
16200	4696	3175	35.05		3226	36.60		3274	38.12		3323	39.66		3415	42.71		3504	45.80		3590	48.95		3672	52.12		3753	55.33	
17200	4986	3290	39.26		3339	40.89		3388	42.52		3435	44.14		3526	47.40		3613	50.65		3698	53.94		3779	57.24		3858	60.61	
18200	5275	3404	43.81	103	3454	45.54	103	3502	47.28	105	3548	49.00	105	3639	52.45	107	3724	55.88	107	3808	59.33	107						
19200	5565	3521	48.70		3569	50.56		3616	52.40		3663	54.25		3752	57.89		3837	61.51										

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™
DWDI 200

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
20"	4.880 SQ. FT.	4.14 SQ. FT.	F.P.M. = 5.23 x RPM	1.897 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
3500	845	541	0.27	65	597	0.35	69	648	0.44	71	694	0.54	73	739	0.63	75	782	0.73	75	824	0.85	77	905	1.07	79	983	1.33	82
4000	966	584	0.35	66	639	0.44	70	686	0.54	72	730	0.63	74	773	0.73	76	812	0.85	76	851	0.96	78	926	1.22	80	997	1.47	83
4500	1087	628	0.42	67	681	0.55	71	727	0.65	73	769	0.75	75	810	0.88	77	847	0.99	77	883	1.11	79	953	1.35	82	1020	1.63	84
5000	1208	673	0.55		724	0.66		769	0.78		811	0.89		849	1.01		885	1.14		920	1.27		986	1.52		1049	1.82	
5500	1329	719	0.66		768	0.80		813	0.92		853	1.06		890	1.19		925	1.33		958	1.45	80	1021	1.73		1080	2.03	
6000	1449	766	0.80	68	813	0.96	72	856	1.09	74	895	1.24	76	932	1.37	78	966	1.51	79	998	1.67	81	1060	1.97	83	1117	2.27	85
6500	1570	815	0.96		859	1.13		900	1.29		939	1.43	77	974	1.59	79	1008	1.75		1040	1.91		1099	2.22		1155	2.54	
7000	1691	864	1.15		905	1.33		946	1.49	75	983	1.67		1018	1.84		1051	2.01		1083	2.17		1140	2.49		1195	2.83	
7500	1812	915	1.37	69	953	1.55	74	991	1.73	76	1027	1.93	78	1062	2.10	80	1095	2.29	80	1125	2.45	82	1182	2.80	84	1235	3.17	86
8000	1932	966	1.61	70	1001	1.80		1037	1.99		1072	2.18		1106	2.39		1138	2.58		1168	2.78		1225	3.15		1277	3.52	
8500	2053	1018	1.87		1051	2.08		1085	2.29		1119	2.48		1152	2.70		1182	2.91		1212	3.11		1268	3.51		1319	3.91	
9000	2174	1070	2.18	71	1101	2.39	75	1133	2.60	77	1165	2.83	79	1197	3.04	81	1227	3.27	81	1257	3.49	83	1311	3.91	85	1362	4.36	87
9500	2295	1124	2.52		1152	2.73		1181	2.96		1212	3.18		1242	3.43		1272	3.66		1301	3.90		1354	4.36		1405	4.80	
10000	2415	1177	2.89		1204	3.11		1232	3.35		1261	3.57		1290	3.83		1318	4.09		1346	4.33		1399	4.81		1448	5.30	
10500	2536	1231	3.30		1256	3.52		1282	3.76		1309	4.02		1337	4.28		1365	4.54		1392	4.80		1443	5.31		1492	5.83	
11000	2657	1285	3.76		1309	3.99		1334	4.22		1359	4.48		1385	4.76		1411	5.04		1438	5.31		1488	5.86		1537	6.39	
11500	2778	1340	4.24	72	1362	4.48	76	1385	4.73	78	1409	5.00	80	1434	5.27	82	1460	5.57	82	1484	5.84	84	1534	6.43	86	1581	6.99	88
12000	2899	1395	4.79		1415	5.04		1437	5.29		1461	5.56		1484	5.84		1508	6.13		1532	6.44		1580	7.03		1626	7.63	
12500	3019	1449	5.38		1469	5.61		1489	5.89		1511	6.17		1534	6.45		1556	6.75		1580	7.06		1626	7.67		1672	8.31	
13500	3261	1559	6.68		1577	6.94		1595	7.21		1616	7.52		1636	7.81		1656	8.14		1678	8.46		1721	9.12		1763	9.79	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
5000	1208	1168	2.43	86	1282	3.08	88	1391	3.78	90																		
5500	1329	1194	2.67		1302	3.35		1405	4.07		1505	4.83	90															
6000	1449	1225	2.91	87	1327	3.63	89	1424	4.38	91	1519	5.16	91	1612	5.99	93												
6500	1570	1259	3.21		1355	3.94		1449	4.72		1540	5.53		1627	6.38		1713	7.26	95	1796	8.18	95						
7000	1691	1295	3.55		1388	4.28		1478	5.09		1565	5.92		1649	6.80		1730	7.71		1811	8.64	95	1889	9.61	96	1965	10.61	98
7500	1812	1333	3.90	88	1423	4.69	90	1510	5.50	92	1592	6.36	92	1674	7.26	94	1752	8.19	96	1829	9.16	96	1904	10.15	97	1979	11.18	99
8000	1932	1373	4.30		1461	5.10		1544	5.94		1624	6.84		1702	7.76		1778	8.71		1851	9.69		1924	10.72		1995	11.76	
8500	2053	1413	4.73		1500	5.57		1580	6.44		1658	7.35		1732	8.29		1806	9.27		1877	10.29	97	1947	11.33		2016	12.41	
9000	2174	1454	5.20	89	1539	6.08	91	1618	6.96	93	1693	7.91	93	1766	8.87	95	1836	9.87	97	1906	10.92	98	1973	11.98	98	2039	13.07	100
9500	2295	1497	5.71		1580	6.62		1657	7.55		1731	8.50		1801	9.51		1870	10.52		1937	11.59		2002	12.67		2067	13.79	
10000	2415	1539	6.25		1621	7.20		1697	8.17		1770	9.16		1839	10.18		1906	11.22	98	1970	12.30		2034	13.42		2096	14.56	
10500	2536	1582	6.83		1663	7.82		1739	8.83		1809	9.84		1877	10.90	96	1943	11.98		2005	13.07		2067	14.22		2128	15.38	
11000	2657	1625	7.45		1706	8.49		1780	9.53		1850	10.59		1916	11.67		1981	12.78		2042	13.92		2102	15.07		2162	16.25	
11500	2778	1669	8.10	90	1748	9.19	92	1822	10.28	94	1891	11.38	95	1956	12.49	97	2019	13.63	99	2080	14.79	99	2139	15.98	99	2197	17.20	101
12000	2899	1712	8.79		1791	9.93		1864	11.07		1932	12.21		1997	13.37		2059	14.53		2119	15.72		2176	16.94		2233	18.19	
12500	3019	1756	9.53		1834	10.72		1907	11.92	95	1975	13.09		2038	14.28		2099	15.48		2159	16.72		2216	17.95		2271	19.23	
13500	3261	1846	11.12		1922	12.44	93	1993	13.73		2059	15.01		2122	16.28		2182	17.57		2239	18.87		2295	20.17		2349	21.51	
14500	3502	1935	12.91	92	2011	14.34	94	2080	15.74	96	2145	17.13	96	2207	18.50	98	2266	19.86	100	2323	21.23	100	2377	22.62	100	2430	24.02	102
15500	3744	2028	14.89		2100	16.44		2168	17.94		2232	19.45		2294	20.92		2351	22.38		2407	23.85		2461	25.31		2512	26.79	
16500	3986	2122	17.10		2191	18.75		2257	20.37		2321	21.97		2380	23.57		2438	25.12		2493	26.70		2545	28.24		2597	29.82	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
8500	2053	2084	13.50	99	2150	14.64	99	2216	15.79	101	2279	16.95	101	2405	19.37	103												
9000	2174	2105	14.21	100	2169	15.36	100	2233	16.54	102	2295	17.75	102	2417	20.22	104	2536	22.76	104									
9500	2295	2130	14.95		2192	16.13		2254	17.32		2314	18.55		2433	21.09		2548	23.70		2662	26.39	104						
10000	2415	2158	15.74		2218	16.94		2277	18.17		2336	19.42		2451	22.00		2564	24.68		2674	27.42		2781	30.23	106			
10500	2536	2188	16.58		2246	17.80		2304	19.07		2361	20.34		2473	22.96		2582	25.68		2689	28.50		2794	31.37		2897	34.32	106
11000	2657	2220	17.49		2276	18.73		2333	20.00		2389	21.30		2497	23.98		2604	26.75		2708	29.61		2810	32.55		2911	35.56	
11500	2778	2254	18.43	101	2309	19.71	101	2364	21.00	103	2417	22.32	103	2524	25.05	105	2628	27.87	105	2728	30.77	105	2828	33.76	107	2926	36.83	107
12000	2899	2289	19.46		2343	20.74		2397	22.06		2449	23.41		2552	26.18		2653	29.05		2752	32.00		2850	35.04		2946	38.15	
12500	3019	2326	20.52		2378	21.85		2431	23.19		2482	24.57		2583	27.37		2682	30.27		2778	33.29		2874	36.37		2966	39.54	
13500	3261	2402	22.85		2452	24.24		2503	25.63		2552	27.05		2649	29.94		2744	32.96		2836	36.05		2926	39.23		3016	42.49	
14500	3502	2481	25.44	102	2531	26.86	102	2579	28.33	104	2628	29.79	104	2721	32.81	106	2812	35.92	106	2900	39.10	106	2987	42.35	108	3072	45.72	108
15500	3744	2563	28.28		2611	29.78		2658	31.30		2706	32.83		2796	35.95		2884	39.16		2969	42.44		3053	45.79		3135	49.24	
16500	3986	2645	31.38		2693	32.96		2740	34.54		2786	36.14		2875	39.38		2960	42.70		3043	46.09		3124	49.54		3203	53.09	
17500	4227	2730	34.73		2777	36.40		2823	38.07		2868	39.73		2955	43.13		3039	46.57		3119	50.06		3198	53.63		3275	57.27	
18500	4469	2815	38.38	103	2861	40.13	103	2907	41.87	105	2951	43.62	105	3036	47.15	107	3119	50.74	107	3198	54.36	107	3275	58.06	109	3351	61.80	109
19500	4710	2902	42.27		2947	44.13		2992	45.96		3035	47.81		3120	51.51		3201	55.23		3278	59.00		3355	62.82		3428	66.69	
20500	4952	2988	46.47		3033	48.42		3078	50.36		3121	52.29		3204	56.17		3284	60.04		3361	63.96		3435	67.92		3508	71.91	
21500	5193	3076	50.94		3121	52.99		3164	55.04		3207	57.06		3290	61.13		3368	65.19		3444	69.27		3517	73.39		3858	60.61	
22500	5435	3163	55.69	104	3207	57.86	104	3252	60.03	106	3294	62.16	106	3375	66.44	108	3454	70.68	108	3529	74.93	108						
23500	5676	3252	60.77		3296	63.05		3339	55.02		3380	67.56		3462	72.04		3539	76.50										

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

DWDI 222

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
22 1/4"	6.040 SQ. FT.	5.12 SQ. FT.	P.P.M. = 5.83 x RPM	3.232 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
4200	820	478	0.31	66	529	0.41	70	575	0.53	72	618	0.63	74	658	0.75	76	698	0.89	76	736	1.01	78	811	1.31	80	983	1.33	83
4800	938	516	0.40	67	564	0.52	71	608	0.63	73	648	0.75	75	686	0.89	77	723	1.01	77	758	1.15	79	827	1.45	81	893	1.77	
5400	1055	554	0.49		602	0.63		644	0.75		682	0.89		718	1.03		752	1.16		786	1.32		850	1.63		911	1.97	
6000	1172	592	0.62	68	640	0.77	72	680	0.91	74	717	1.06	76	752	1.19	78	785	1.35	78	816	1.50	80	877	1.82	82	934	2.18	84
6600	1289	632	0.77		678	0.92		718	1.09		754	1.24		787	1.40		819	1.57		850	1.72		906	2.06		961	2.41	85
7200	1406	673	0.92	69	716	1.11	73	755	1.27	75	791	1.45	77	824	1.63	79	855	1.78	79	884	1.97	81	939	2.32	84	992	2.70	86
7800	1523	715	1.11		755	1.31		793	1.49		828	1.68		861	1.87		891	2.06		920	2.24		973	2.62		1024	3.00	
8400	1641	757	1.33		795	1.52		832	1.73		866	1.94		898	2.14		928	2.34		957	2.54	82	1009	2.95		1059	3.35	
9000	1758	801	1.57	70	836	1.78	74	871	2.01	76	905	2.22	78	936	2.44	80	966	2.66	81	994	2.87	83	1045	3.30	85	1094	3.73	87
9600	1875	846	1.84		879	2.06		912	2.31		945	2.54	79	975	2.78	81	1004	3.01		1031	3.24		1083	3.70		1130	4.14	
10200	1992	891	2.14		921	2.39		953	2.64	77	984	2.89		1014	3.13		1042	3.39		1069	3.63		1120	4.12		1166	4.60	
11200	2188	967	2.74	71	994	3.00	75	1023	3.25		1052	3.54		1079	3.81		1107	4.09		1133	4.38		1182	4.90		1228	5.43	
12200	2383	1044	3.44	72	1069	3.70	76	1094	3.99	78	1121	4.28	80	1147	4.60	82	1173	4.89	82	1198	5.20	84	1246	5.79	86	1291	6.38	88
13200	2578	1123	4.27		1144	4.54		1168	4.84		1192	5.16		1216	5.49		1240	5.82		1265	6.15		1311	6.79		1354	7.45	
14200	2773	1202	5.23		1222	5.51		1242	5.83		1265	6.16		1286	6.51		1309	6.85		1332	7.21		1376	7.92		1419	8.60	
15200	2969	1281	6.32	73	1299	6.63	77	1318	6.95	79	1338	7.29	81	1359	7.65	83	1380	8.02	83	1401	8.38	85	1443	9.16	87	1484	9.90	89
16200	3164	1361	7.56		1377	7.89		1396	8.23		1413	8.58		1433	8.95		1452	9.34		1472	9.72		1512	10.54		1551	11.33	
17200	3359	1441	8.97		1456	9.30		1473	9.66		1489	10.03		1507	10.40		1525	10.82		1544	11.22		1581	12.06		1618	12.93	
18200	3555	1521	10.56	74	1536	10.90	78	1551	11.27	80	1567	11.64	82	1583	12.04	84	1600	12.46	84	1617	12.88	86	1652	13.76	88	1687	14.66	90
19200	3750	1602	12.32		1615	12.67		1629	13.05		1644	13.45		1659	13.86		1675	14.28		1691	14.71		1724	15.61		1757	16.55	

CFM	OV	2" SP			2-1/2" SP			3-SP			3-1/2"SP			4"SP			4-1/2" SP			5-SP			5-1/2"SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
6000	1172	1043	2.93	87	1148	3.73	89																					
6600	1289	1065	3.19		1164	4.03		1258	4.91	90	1349	5.84	91															
7200	1406	1091	3.50	88	1183	4.36	90	1274	5.27	92	1361	6.23	92	1444	7.24	94												
7800	1523	1119	3.83		1208	4.72		1294	5.67		1376	6.65		1456	7.70		1535	8.77	96	1796	8.18	96						
8400	1641	1149	4.20		1235	5.13		1317	6.10		1397	7.12		1474	8.19		1548	9.30		1621	10.44		1693	11.62	96	1965	10.61	99
9000	1758	1182	4.64	89	1265	5.57	91	1344	6.56	93	1419	7.63	93	1494	8.71	95	1566	9.87	97	1636	11.05	97	1705	12.27	97	1773	13.50	
9600	1875	1216	5.09		1297	6.07		1373	7.10		1446	8.17		1517	9.30		1586	10.46		1654	11.67		1720	12.93		1785	14.21	
10200	1992	1251	5.57		1330	6.59		1404	7.65		1474	8.76		1543	9.92		1610	11.10		1675	12.35		1739	13.63		1801	14.95	
11200	2188	1311	6.49		1387	7.57		1458	8.69		1525	9.86		1590	11.06		1654	12.30		1716	13.58		1777	14.91		1835	16.27	
12200	2383	1373	7.53	90	1446	8.69	92	1515	9.89	94	1581	11.10	94	1643	12.35	96	1704	13.65	98	1762	14.97	98	1820	16.34	98	1877	17.75	101
13200	2578	1435	8.69		1508	9.95		1575	11.21		1638	12.47		1698	13.79		1757	15.13		1814	16.51		1868	17.94		1923	19.38	
14200	2773	1498	9.98		1570	11.33		1636	12.67		1697	14.02		1756	15.41		1813	16.81		1867	18.24		1921	19.71	99	1973	21.22	
15200	2969	1561	11.40	91	1632	12.83	93	1697	14.28	95	1758	15.72	95	1816	17.17	97	1872	18.64	99	1924	20.15	100	1977	21.66	100	2026	23.22	102
16200	3164	1625	12.95		1695	14.50		1759	16.05		1820	17.57	96	1877	19.10	98	1930	20.66	100	1983	22.22		2033	23.80		2083	25.42	
17200	3359	1691	14.64		1759	16.30		1822	17.95		1882	19.58		1937	21.22		1991	22.84		2042	24.47		2092	26.14		2140	27.82	
18200	3555	1757	16.46	92	1823	18.26	94	1886	20.03	97	1945	21.76	97	2000	23.47	99	2053	25.19	101	2103	26.92	101	2152	28.65	101	2199	30.41	103
19200	3750	1824	18.47		1889	20.37	95	1950	22.25		2007	24.11		2062	25.93		2115	27.74		2165	29.56		2212	31.38		2259	33.20	
20200	3945	1892	20.64	93	1955	22.67		2015	24.65		2071	26.63		2126	28.55		2177	30.47		2227	32.39		2274	34.29		2320	36.20	
21200	4141	1961	23.02		2021	25.12		2080	27.24		2136	29.31		2189	31.37		2240	33.39		2290	35.40		2336	37.41		2381	39.42	
22200	4336	2031	25.57		2089	27.78		2145	29.99		2201	32.20		2254	34.35		2304	36.49		2353	38.63		2399	40.73		2444	42.82	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
10200	1992	1863	16.29	99	1924	17.67	100	1984	19.07	102	2044	20.51	102	2405	19.37	104												
11200	2188	1894	17.67	100	1952	19.10		2009	20.56		2064	22.06		2174	25.12		2280	28.28	104									
12200	2383	1932	19.20	101	1987	20.67	101	2040	22.19	103	2094	23.72	103	2198	26.90	105	2300	30.19	105	2400	33.57	105	2498	37.03	107			
13200	2578	1976	20.89		2028	22.41		2080	23.96		2130	25.56		2230	28.84		2327	32.22		2423	35.71		2516	39.29		2608	42.96	107
14200	2773	2024	22.76		2074	24.32		2123	25.93		2172	27.57		2267	30.93		2361	34.42		2451	38.01		2542	41.72		2630	45.50	
15200	2969	2075	24.80	102	2124	26.44	102	2171	28.09	104	2219	29.76	104	2309	33.23	106	2399	36.79	106	2487	40.49	106	2573	44.29	108	2658	48.18	108
16200	3164	2130	27.06		2177	28.73		2223	30.45		2268	32.17		2357	35.71		2443	39.40		2528	43.18		2610	47.05		2691	51.05	
17200	3359	2187	29.52		2232	31.24		2277	33.00		2321	34.79		2406	38.44		2490	42.19		2572	46.06		2651	50.05		2731	54.13	
18200	3555	2244	32.19	103	2290	33.96	103	2333	35.79	105	2376	37.63	105	2460	41.38	107	2540	45.24	107	2619	49.20	107	2697	53.26	109	2773	57.45	109
19200	3750	2304	35.05		2348	36.89		2391	38.78		2433	40.69		2514	44.56		2594	48.50		2670	52.57		2745	56.74		2819	61.00	
20200	3945	2365	38.13		2408	40.06		2449	42.00		2491	43.96		2571	47.97		2648	52.05		2723	56.21		2796	60.46		2869	64.84	
21200	4141	2426	41.42		2468	43.44		2510	45.44		2550	47.48		2629	51.60		2705	55.82		2778	60.09		2850	64.47		2920	68.93	
22200	4336	2487	44.93		2530	47.02		2571	49.13		2610	51.24		2688	55.51		2762	59.83		2835	64.24		2905	68.71		2974	73.28	
23200	4531	2549	48.65	104	2591	50.83	104	2632	53.03	106	2672	55.23	106	2748	59.66	108	2821	64.12	108	2892	68.65	108	2961	73.25	110	3028	77.94	110
24200	4727	2612	52.60		2653	54.89		2693	57.17		2733	59.45		2809	64.04		2881	68.67		2951	73.33		3019	78.07		3085	82.86	
25200	4922	2675	56.77		2716	59.16		2756	61.54		2794	63.91		2870	68.68		2942	73.46		3011	78.28		3078	83.16		3144	88.10	
26200	5117	2738	61.17		2779	63.67		2818	66.15		2857	68.64		2931	73.57		3002	78.54		3071	83.52		3137	88.53		3507	71.91	
27200	5313	2802	65.81		2843	68.42		2882	71.01		2920	73.58		2993	78.73		3064	83.87		3132	89.02		3517	73.39		3858	60.61	
28200	5508	2866	70.68		2906	73.41		2945	76.12		2983	78.80		3056	84.15		3126	89.48		3529	74.93							
29200	5703	2930	75.80	105	2971	78.64	105	3009	81.46	107	3047	84.26	107	3119	89.83	109	3539	76.50	109									

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

GT-GNN™
DWDI 245

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
24 1/2"	7.280 SQ. FT.	6.21 SQ. FT.	F.P.M. = 6.41 x RPM	5.232 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
4900	789	425	0.35	67	473	0.47	72	515	0.61	74	554	0.73	76	592	0.89	78	629	1.04	78	664	1.19	80	733	1.52	82			
5900	950	472	0.49	69	517	0.65	73	556	0.78	75	592	0.94	77	626	1.09	79	659	1.25	79	691	1.42	81	753	1.78	83	813	2.17	85
6900	1111	520	0.67		562	0.83		600	1.00		634	1.16		666	1.35		697	1.51		726	1.71		783	2.08		836	2.49	
7900	1272	569	0.91	70	610	1.09	74	647	1.29	76	680	1.47	78	711	1.66	80	740	1.84	80	767	2.04	82	820	2.45	84	869	2.89	86
8900	1433	620	1.16		658	1.40		694	1.61		726	1.82		756	2.03		784	2.24		811	2.45		860	2.90		907	3.35	
9900	1594	673	1.49	71	709	1.75	75	742	1.99	77	774	2.22	79	802	2.47	81	830	2.70	81	856	2.93	83	904	3.40	85	949	3.90	87
10900	1755	727	1.88		759	2.15		791	2.43		822	2.70		850	2.96		877	3.21		902	3.47		949	3.99		993	4.52	
11900	1916	783	2.36	72	812	2.65	76	842	2.93	78	870	3.22	80	898	3.51	82	924	3.81	82	949	4.09	84	995	4.66	86	1037	5.22	88
12900	2077	839	2.90		865	3.20		893	3.51		920	3.83		947	4.16		972	4.47		996	4.79		1041	5.41		1084	6.00	
13900	2238	896	3.52		921	3.85		946	4.17		971	4.52		996	4.87		1021	5.20		1044	5.56		1089	6.23		1130	6.89	
14900	2399	955	4.26	73	976	4.57	77	1000	4.93	79	1024	5.29	81	1048	5.67	83	1070	6.03	83	1094	6.41	85	1137	7.14	87	1177	7.84	89
15900	2560	1014	5.09		1033	5.42		1055	5.79		1076	6.17		1099	6.56		1121	6.95		1143	7.35		1186	8.14		1225	8.90	
16900	2721	1072	6.00		1091	6.36		1110	6.75		1131	7.14		1152	7.55		1172	7.97		1194	8.38		1234	9.23		1273	10.05	
17900	2882	1132	7.06		1149	741.60		1167	7.81		1186	8.23		1205	8.64		1225	9.08		1245	9.53		1284	10.41		1323	11.31	
18900	3043	1192	8.24	74	1207	8.60	78	1225	9.01	80	1242	9.43	82	1260	9.87	84	1278	10.33	84	1297	10.79	86	1335	11.73	88	1371	12.67	90
19900	3205	1251	9.53		1266	9.92		1282	10.33		1299	10.75		1315	11.22		1333	11.69		1350	12.17		1386	13.14		1421	14.14	
20900	3366	1311	10.96		1326	11.36		1340	11.78		1355	12.24		1372	12.70		1387	13.18		1405	13.68		1438	14.69		1472	15.74	
21900	3527	1371	12.52		1384	12.95		1399	13.37		1413	13.83		1429	14.33		1443	14.81		1460	15.33		1491	16.39		1523	17.47	
22900	3688	1432	14.24	75	1444	14.68	79	1457	15.12	81	1471	15.59	83	1485	16.08	85	1500	16.59	85	1514	17.13	87	1545	18.21	89	1576	19.32	91
23900	3849	1492	16.11		1504	16.55		1516	17.03		1530	17.51		1543	18.00		1556	18.54		1571	19.07		1600	20.19		1628	21.35	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
7900	1272	964	3.82	88	1055	4.83	90	1141	5.90	92																		
8900	1433	996	4.34		1080	5.39		1161	6.51		1239	7.68	92	1314	8.91	94												
9900	1594	1033	4.91	89	1112	6.02	91	1188	7.19	93	1261	8.40	93	1332	9.69	95	1401	11.03	97	1469	12.39	97						
10900	1755	1073	5.60		1148	6.75		1220	7.96		1289	9.23		1357	10.56		1421	11.95		1485	13.37		1548	14.84	97	1610	16.36	99
11900	1916	1115	6.38	90	1189	7.57	92	1257	8.84	94	1323	10.15	94	1385	11.53	96	1448	12.96	98	1509	14.45	98	1568	15.98	98	1626	17.54	100
12900	2077	1160	7.24		1230	8.50		1296	9.82		1359	11.18		1419	12.61		1479	14.08		1537	15.61		1593	17.18		1649	18.81	
13900	2238	1205	8.19		1274	9.53		1338	10.90		1399	12.32		1456	13.79		1514	15.33		1569	16.90		1623	18.52		1677	20.19	
14900	2399	1251	9.26	91	1318	10.67	93	1381	12.11	95	1440	13.59	95	1497	15.11	97	1551	16.70	99	1605	18.31	99	1656	19.97	99	1708	21.69	101
15900	2560	1298	10.41		1364	11.93		1426	13.44		1483	14.99		1538	16.56		1591	18.20		1643	19.86		1693	21.58		1743	23.34	
16900	2721	1345	11.67		1410	13.28		1471	14.87		1527	16.49		1581	18.14		1633	19.84		1683	21.55		1731	23.32		1780	25.12	
17900	2882	1393	13.04		1457	14.75		1516	16.44		1573	18.13		1625	19.86		1676	21.61		1725	23.39		1773	25.21		1819	27.06	
18900	3043	1441	14.52	92	1504	16.34	94	1564	18.13	96	1618	19.90	96	1671	21.70	98	1720	23.51	100	1769	25.38	100	1815	27.25	100	1860	29.17	102
19900	3205	1489	16.11		1552	18.04		1610	19.93		1664	21.81		1716	23.70		1765	25.60		1812	27.51		1858	29.44		1902	31.43	104
20900	3366	1538	17.81		1600	19.86		1657	21.87		1711	23.83		1762	25.82		1811	27.79		1857	29.79		1902	31.80	102	1946	33.84	
21900	3527	1587	19.64		1648	21.81		1705	23.93		1758	26.02		1809	28.09		1856	30.15	101	1902	32.22	102	1947	34.32		1990	36.43	
22900	3688	1638	21.61	93	1696	23.88	95	1752	26.11	97	1806	28.33	97	1855	30.49	99	1902	32.66	103	1949	34.82	103	1992	37.00		2034	39.17	105
23900	3849	1688	23.72		1746	26.11		1800	28.45		1853	30.77		1902	33.05	101	1950	35.31		1995	37.56		2038	39.83	103	2080	42.10	
24900	4010	1740	25.97		1795	28.47		1849	30.92		1900	33.34	99	1950	35.75		1996	38.12		2041	40.47		2085	42.82		2126	45.19	
25900	4171	1791	28.40		1846	30.97		1898	33.55	99	1949	36.08		1997	38.59		2044	41.09		2088	43.55		2131	45.99		2172	48.44	
26900	4332	1844	30.97		1896	33.65	97	1948	36.33		1998	38.98		2046	41.61		2092	44.21		2135	46.78		2177	49.33		2219	51.86	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
14900	2399	1758	23.44	101	1808	25.25	101	1856	27.08	103	1904	28.96	105	1999	32.83	107	2091	36.82	107	2182	40.91	107	2269	45.13	109			
15900	2560	1791	25.14		1839	26.99		1885	28.86	105	1931	30.79		2022	34.74		2112	38.84		2198	43.07		2284	47.41		2367	51.85	109
16900	2721	1826	26.97		1873	28.86		1918	30.79		1962	32.77		2050	36.82		2135	41.01		2220	45.34		2302	49.79		2382	54.33	
17900	2882	1864	28.96		1909	30.91	103	1953	32.88		1994	34.89		2081	39.04		2163	43.33		2244	47.76		2324	52.30		2402	56.96	
18900	3043	1904	31.12	104	1948	33.10	104	1990	35.12	106	2032	37.18	106	2114	41.42	108	2194	45.80	108	2272	50.32	108	2349	54.97	110	2426	59.74	110
19900	3205	1946	33.43		1988	35.46		2029	37.55		2070	39.67		2150	43.99		2227	48.45		2303	53.08		2378	57.80		2451	62.67	
20900	3366	1988	35.92		2029	38.01		2069	40.13		2109	42.30		2188	46.73		2263	51.30		2337	56.00		2409	60.82		2481	65.77	
21900	3527	2031	38.55		2072	40.72		2112	42.90		2151	45.13		2227	49.66		2301	54.33		2373	59.12		2443	64.04		2513	69.07	
22900	3688	2075	41.38	105	2116	43.61	105	2155	45.87	107	2193	48.13	107	2268	52.79	109	2340	57.55	109	2410	62.44	109	2479	67.45	111	2547	72.58	111
23900	3849	2121	44.36		2160	46.67		2199	49.00		2236	51.34		2309	56.09		2380	60.98		2449	65.97		2516	71.07		2583	76.29	
24900	4010	2166	47.53		2205	49.91		2243	52.30		2280	54.71		2353	59.61		2422	64.59		2490	69.70		2555	74.90		2620	80.24	
25900	4171	2211	50.88		2251	53.34		2288	55.82		2325	58.29		2396	63.31		2465	68.43		2531	73.65		2596	78.97		2639	84.39	
26900	4332	2258	54.43		2296	56.95		2334	59.50		2370	62.06		2440	67.24		2508	72.48		2574	77.82		2638	83.24		2700	88.78	
27900	4493	2304	58.11		2342	60.74		2379	63.39		2415	66.02		2485	71.36		2552	76.74		2617	82.20		2680	87.75		2741	93.40	
28900	4654	2351	62.01	106	2389	64.73	106	2426	67.47	108	2462	70.19	108	2531	75.66	110	2597	81.21	110	2660	86.81	110	2722	92.49	112	2783	98.26	112
29900	4815	2398	66.07		2436	68.91		2472	71.73		2508	74.54		2576	80.21		2642	85.90		2705	91.64		2767	97.46		2826	103.35	
30900	4976	2445	70.33		2482	73.25		2519	76.18		2554	79.10		2622	84.93		2687	90.79		2750	96.69		2811	102.66		2870	108.68	
31900	5137	2493	74.77		2530	77.82		2566	80.84		2601	83.87		2669	89.90		2733	95.91		2795	101.97		2855	108.08				
32900	5298	2541	79.40		2577	82.58		2613	85.70		2648	88.84		2715	95.06		2779	101.26		2841	107.49							
33900	5459	2588	84.25		2625	87.52		2660	90.76		2696	94.01		2761	100.43		2825	106.82		2887	113.23							

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

DWDI 270

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
27"	8.700 SQ. FT.	7.54 SQ. FT.	F.P.M. = 7.075 x RPM	8.193 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
6000	796	375	0.40	68	421	0.55	72	465	0.70	74	507	0.85	77	548	1.01	79	586	1.19	79									
6600	875	394	0.46		437	0.62		478	0.78	75	518	0.96		556	1.13		593	1.32		62	1.49	80						
7200	955	415	0.55	69	454	0.70	73	493	0.89	76	530	1.06	78	567	1.24	80	602	1.43	80	636	1.63	82	700	2.04	84			
7800	1034	437	0.63		474	0.81	74	510	0.99		545	1.17		579	1.37		613	1.58		645	1.77		708	2.21		766	2.66	86
8400	1114	458	0.73		493	0.92		527	1.11		560	1.31		593	1.50		625	1.72		656	1.94		716	2.40		774	2.85	
9000	1194	481	0.85	71	515	1.05	75	547	1.24	77	578	1.45	79	609	1.67	81	639	1.87	81	668	2.10	83	726	2.58	85	782	3.08	87
9600	1273	505	0.99		536	1.17		567	1.39		596	1.61		625	1.82		654	2.06		683	2.29		737	2.78		791	3.30	
10200	1353	528	1.11		558	1.33		587	1.56		616	1.77		644	2.01		671	2.25		697	2.49		751	3.00		801	3.52	
10800	1432	552	1.29		581	1.49		609	1.73		636	1.97		662	2.21		688	2.45		714	2.71		764	3.24		814	3.78	
11400	1512	577	1.45	72	604	1.68	76	630	1.93	78	656	2.17	80	682	2.43	82	707	2.69	82	731	2.95	84	780	3.49	86	827	4.06	88
12000	1592	602	1.65		627	1.88		653	2.14		678	2.40		702	2.66		726	2.91		750	3.20		796	3.76		842	4.35	
12600	1671	626	1.84		651	2.10		676	2.36		699	2.64		723	2.90		747	3.17		769	3.47		814	4.04		858	4.65	
13200	1751	651	2.08		675	2.34		698	2.62		722	2.89		745	3.17		766	3.45		789	3.76		832	4.36		874	4.97	
13800	1830	677	2.32		699	2.60		722	2.87		745	3.17		766	3.45		788	3.76		809	4.07		851	4.69		891	5.31	
14400	1910	702	2.60	73	724	2.87	77	746	3.17	79	767	3.47	81	788	3.76	83	810	4.07	83	830	4.39	85	870	5.04	87	909	5.68	89
15000	1989	728	2.87		749	3.17		769	3.47		790	3.78		811	4.09		831	4.42		851	4.74		890	5.40		928	6.08	
17000	2255	815	4.02		833	4.35		852	4.68		870	5.02		888	5.36		906	5.72		924	6.08		960	6.80		994	7.55	
19000	2520	902	5.42	74	919	5.79	78	935	6.16	80	952	6.53	82	968	6.91	84	985	7.29	84	1001	7.68	86	1033	8.49	88	1065	9.30	90
21000	2785	991	7.15		1005	7.55		1021	7.94		1035	8.35		1051	8.77		1065	9.19		1080	9.63		1109	10.48		1139	11.36	
23000	3050	1080	9.23	75	1093	9.66	79	1107	10.09	81	1121	10.55	83	1134	10.98	85	1147	11.43	85	1161	11.90	87	1189	12.83	89	1215	13.78	91

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
9000	1194	885	4.11	89																								
9600	1273	892	4.37																									
10200	1353	899	4.64		991	5.81	91																					
10800	1432	908	4.93		998	6.13																						
11400	1512	919	5.23	90	1005	6.49	92	1088	7.78	94																		
12000	1592	930	5.57		1015	6.85		1095	8.18		1171	9.56	94															
12600	1671	942	5.91		1025	7.22		1103	8.60		1178	10.03		1250	11.49	96												
13200	1751	956	6.26		1035	7.63		1112	9.04		1186	10.52		1257	12.01													
13800	1830	970	6.64		1048	8.04		1123	9.51		1194	11.01		1264	12.56		1331	14.14	98									
14400	1910	986	7.05	91	1061	8.49	93	1133	9.98	95	1204	11.53	95	1272	13.11	97	1337	14.74	99	1401	16.40	99						
15000	1989	1002	7.48		1075	8.95		1145	10.48		1213	12.06		1280	13.68		1345	15.36		1408	17.07		1468	18.81	99			
17000	2255	1062	9.06		1127	10.66		1192	12.32		1255	14.02		1316	15.78		1376	17.58		1435	19.42		1492	21.29		1549	23.21	101
19000	2520	1127	10.96	92	1187	12.67	94	1245	14.45	96	1303	16.27	96	1361	18.16	98	1416	20.06	100	1471	22.03	100	1525	24.05	100	1578	26.09	102
21000	2785	1196	13.16		1251	15.01		1306	16.91		1360	18.86		1412	20.86		1464	22.90		1515	24.99		1566	27.11		1615	29.28	
23000	3050	1268	15.72	93	1320	17.69	95	1371	19.71	97	1420	21.79	97	1470	23.91	99	1518	26.08	101	1566	28.29	101	1613	30.55	101	1659	32.85	103
25000	3316	1343	18.64		1392	20.76		1439	22.93		1485	25.12		1532	27.37		1577	29.67		1621	32.00		1666	34.37		1710	36.78	
27000	3581	1420	21.99		1466	24.24		1511	26.54		1554	28.87		1598	31.26		1640	33.68		1682	36.14		1724	38.64		1765	41.16	
29000	3846	1500	25.78	94	1542	28.17	96	1584	30.61	98	1625	33.08	98	1667	35.60	100	1707	38.14	102	1747	40.73	102	1786	43.35	102	1825	46.01	104
31000	4111	1580	30.06		1620	32.59		1660	35.16		1700	37.77		1738	40.41		1776	43.10		1814	45.80		1851	48.56		1888	51.35	106
33000	4377	1661	34.86		1700	37.51		1738	40.21		1775	42.96		1811	45.75		1848	48.56		1884	51.42	104	1919	54.30	104	1954	57.22	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
17000	2255	1604	25.15	101	1657	27.11	101																					
19000	2520	1630	28.17	102	1682	30.27	102	1731	32.41	104	1781	34.58	104	1876	39.01	108												
21000	2785	1664	31.49		1713	33.74		1760	36.01		1808	38.32		1899	43.00		1988	47.79	108	2074	52.68	108						
23000	3050	1706	35.17	103	1751	37.54	103	1796	39.94	105	1841	42.37	105	1928	47.33	109	2014	52.40	109	2097	57.57	109	2177	62.82	111	2257	68.17	111
25000	3316	1753	39.23		1796	41.74		1839	44.25		1881	46.81	107	1964	52.03		2046	57.34		2125	62.78		2203	68.31		2279	73.94	
27000	3581	1806	43.73		1847	46.36		1887	49.00	107	1927	51.68		2005	57.12		2083	62.72		2159	68.41		2234	74.20		2307	80.08	
29000	3846	1863	48.71	104	1902	51.45	106	1939	54.20	108	1978	57.00	108	2053	62.72	110	2126	68.54	110	2199	74.48	110	2270	80.53	112	2341	86.67	112
31000	4111	1925	54.17	106	1961	57.03		1997	59.92		2033	62.85		2104	68.79		2174	74.86		2243	81.04		2312	87.34		2379	93.75	
33000	4377	1989	60.17		2024	63.16		2058	66.17		2092	69.21		2160	75.40		2227	81.70		2293	88.14		2358	94.69		2423	101.32	
35000	4642	2056	66.72		2089	69.83		2122	72.97		2155	76.15		2220	82.59		2282	89.14		2346	95.81		2408	102.59		2470	109.49	
37000	4907	2126	73.85	107	2157	77.10	107	2189	80.37	109	2220	83.68	109	2281	90.35	111	2342	97.17	111	2403	104.08	111	2463	111.12	113	2522	118.24	113
39000	5172	2197	81.62		2227	85.00		2257	88.38		2287	91.82		2346	98.78		2405	105.83		2463	112.99		2520	120.26		2577	127.65	
41000	5438	2269	90.02		2299	93.53		2328	97.07		2357	100.62		2413	107.83		2470	115.15		2526	122.57		2580	130.10				
43000	5703	2343	99.10		2372	102.74		2400	106.43		2428	110.12		2482	117.58		2537	125.18		2590	132.85							
45000	5968	2419	108.90	108	2446	112.68	108	2473	116.49	110	2500	120.32	110	2552	128.07	112	2605	135.91	112									
47000	6233	2496	119.45		2522	123.36		2548	127.31		2574	131.28																

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™
DWDI 300

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
30"	10.71 SQ. FT.	9.31 SQ. FT.	F.P.M. = 7.86 x RPM	13.88 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
7700	827	344	0.53	69	384	0.70	73	423	0.89	75	460	1.09	77	495	1.32	80	529	1.52	80									
8400	902	362	0.61		399	0.80		435	1.00		470	1.22	78	504	1.43		537	1.67		568	1.92	82						
9100	977	379	0.70	70	414	0.91	74	448	1.11	76	481	1.35	79	513	1.59	81	544	1.82	81	575	2.06	83	632	2.58	83			
9800	1053	398	0.81		431	1.03		462	1.25		493	1.49		524	1.73		554	1.98		583	2.24		639	2.78		691	3.35	83
10500	1128	416	0.94		447	1.15		478	1.40	77	508	1.65		537	1.91		564	2.15		592	2.44		646	3.00		697	3.57	
11200	1203	436	1.07		466	1.32		494	1.57		522	1.81		550	2.08		577	2.36		604	2.64		655	3.21		705	3.83	
11900	1278	455	1.22	71	484	1.47	76	511	1.72	78	538	1.99	80	564	2.27	82	590	2.56	82	615	2.85	84	664	3.45	84	713	4.09	84
12600	1353	476	1.39	72	503	1.66		528	1.93		554	2.19		580	2.48		604	2.78		628	3.09		676	3.71		722	4.37	
13300	1429	495	1.58		522	1.84		547	2.13		572	2.41		595	2.71		619	3.02		642	3.34		688	3.99		732	4.66	
14000	1504	517	1.77		542	2.06		565	2.36		589	2.66		612	2.96		634	3.28		657	3.61		700	4.28		744	4.97	
14700	1579	538	1.99	73	561	2.29	77	584	2.60	79	607	2.91	81	629	3.22	83	651	3.55	83	673	3.90	85	715	4.58	85	756	5.30	85
16700	1794	598	2.74		619	3.06		641	3.40		660	3.76		681	4.11		700	4.46		720	4.83		758	5.58		795	6.38	
18700	2009	661	3.65	74	680	4.02	78	698	4.39	80	717	4.78	82	734	5.16	84	753	5.56	84	770	5.96	86	805	6.78	86	839	7.62	86
20700	2223	724	4.78		741	5.17		758	5.58		775	6.00		791	6.43		808	6.86		824	7.29		856	8.18		888	9.08	
22700	2438	788	6.12	75	783	6.56	79	819	7.00	81	833	7.46	83	849	7.91	85	864	8.38	85	880	8.84	87	909	9.80	87	938	10.77	87
24700	2653	852	7.73		866	8.19		880	8.66		894	9.16		908	9.64		923	10.15		936	10.64		964	11.67		992	12.70	
26700	2868	917	9.58	75	930	10.09		942	10.59		956	11.12		968	11.64		982	12.17		995	12.72		1021	13.81		1046	14.91	
28700	3083	982	11.75	76	994	12.28	80	1005	12.81	82	1018	13.37	84	1030	13.94	86	1042	14.50	86	1055	15.07	88	1078	16.23	88	1102	17.42	88
30700	3298	1048	14.21		1058	14.78		1069	15.36		1080	15.94		1092	16.54		1103	17.14		1114	17.75		1137	18.97		1160	20.22	
32700	3512	1112	17.01		1123	17.61		1133	18.23		1144	18.84		1155	19.48		1165	20.12		1175	20.74		1197	22.05		1218	23.35	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
11200	1203	797	5.10	89																								
11900	1278	802	5.41	90																								
12600	1353	810	5.74		892	7.17	92																					
13300	1429	817	6.08		897	7.55																						
14000	1504	826	6.44		904	7.97		979	9.56	94																		
14700	1579	835	6.80	91	912	8.38	93	985	10.03	95	1054	11.73	95															
16700	1794	867	7.98		938	9.69		1006	11.47		1071	13.30		1134	15.20	97	1195	17.14	99									
18700	2009	906	9.37	92	970	11.19	94	1033	13.09	96	1095	15.05	96	1155	17.08	98	1212	19.16	100	1268	21.26		1323	23.43	100			
20700	2223	949	10.96		1008	12.91		1067	14.91		1124	17.01		1180	19.16		1235	21.37		1289	23.61		1340	25.91		1392	28.24	100
22700	2438	996	12.76	93	1051	14.84	95	1105	17.00	97	1159	19.20	97	1211	21.48	99	1263	23.79	101	1313	26.18	101	1363	28.60	101	1411	31.08	101
24700	2653	1044	14.84		1097	17.04		1147	19.31		1198	21.64		1246	24.03		1296	26.49		1343	28.98		1391	31.54		1437	34.14	
26700	2868	1096	17.18		1145	19.52		1193	21.92		1240	24.37		1286	26.88		1332	29.46		1377	32.07		1421	34.76		1466	37.49	
28700	3083	1149	19.81	94	1196	22.29	96	1241	24.80	98	1285	27.40	98	1329	30.03	100	1372	32.72	102	1415	35.46	102	1457	38.26	102	1499	41.12	102
30700	3298	1204	22.76		1248	25.37		1291	28.03		1333	30.72		1375	33.51		1415	36.32		1456	39.18		1496	42.12		1536	45.08	
32700	3512	1261	26.04		1302	28.77		1343	31.58		1383	34.42		1422	37.31		1462	40.26		1500	43.24		1538	46.30		1576	49.39	
34700	3727	1317	29.67		1358	32.55		1396	35.48		1434	38.46		1472	41.49		1509	44.56		1546	47.68		1582	50.85		1618	54.06	
36700	3942	1376	33.69	95	1413	36.69	97	1450	39.76	99	1487	42.87	99	1523	46.04	101	1558	49.24	103	1593	52.49	103	1628	55.80	103	1662	59.12	103
38700	4157	1435	38.09		1471	41.23		1506	44.44		1541	47.70		1575	51.00		1610	54.33		1643	57.72		1677	61.13		1710	64.60	
40700	4372	1495	42.92		1529	46.22		1563	49.54		1595	52.94		1629	56.36		1661	59.84		1694	63.37		1726	66.91		1758	70.51	
42700	4586	1554	48.18		1587	51.62		1619	55.09		1652	58.63		1684	62.18		1715	65.81		1746	69.45		1777	73.15		1808	76.88	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
20700	2223	1441	30.62	102	1489	33.05	102																					
22700	2438	1460	33.60	103	1506	36.14	103	1551	38.73	105	1597	41.35	105															
24700	2653	1482	36.79		1526	3946.96		1571	42.20		1614	44.96		1698	50.59	107	1780	56.34	107									
26700	2868	1509	40.26		1552	43.07		1594	45.93		1636	48.82		1717	54.71		1796	60.74		1873	66.89	107						
28700	3083	1540	44.01	104	1581	46.96	104	1621	49.93	106	1661	52.96	106	1740	59.12	108	1816	65.41	108	1890	71.83	110	1962	78.37	112	2033	85.02	112
30700	3298	1575	48.10		1614	51.16		1652	54.27		1690	57.41		1765	63.82		1839	70.37		1911	77.05		1982	83.87		2050	90.79	
32700	3512	1613	52.53		1650	55.71		1686	58.93		1723	62.21		1795	68.86		1865	75.66		1935	82.62		2003	89.68		2070	96.88	
34700	3727	1653	57.32		1689	60.64		1724	63.98		1759	67.36		1828	74.26		1895	81.32	110	1962	88.52		2028	95.85		2093	103.32	
36700	3942	1696	62.52	105	1730	65.95	105	1764	69.42	107	1797	72.93	107	1863	80.08	109	1929	87.36	111	1993	94.82	111	2057	102.40	113	2119	110.11	113
38700	4157	1742	68.12		1775	71.68		1807	75.26		1839	78.90		1902	86.29	111	1965	93.82		2027	101.52		2088	109.34		2148	117.32	
40700	4372	1789	74.16		1820	77.83		1852	81.56		1882	85.30	109	1943	92.95		2003	100.73		2063	108.67		2122	116.74		2179	124.94	
42700	4586	1838	80.65		1868	84.46		1898	88.29	109	1927	92.19		1986	100.06		2044	108.09		2101	116.27		2158	124.58		2215	133.02	
44700	4801	1888	87.60	107	1917	91.54	107	1946	95.52		1975	99.52		2031	107.67		2087	115.94		2142	124.36		2197	132.91		2251	141.60	
46700	5016	1939	95.05	108	1967	99.13	108	1995	103.22	110	2023	107.37	110	2078	115.76	112	2131	124.28	112	2185	132.95	112	2237	141.75	114	2290	150.69	114
48700	5231	1991	103.00		2019	107.21		2046	111.45		2072	115.72		2125	124.37		2177	133.16		2229	142.07		2280	151.11		2331	160.29	
50700	5446	2045	111.50		2071	115.83		2097	120.20		2123	124.62		2174	133.52		2225	142.55		2274	151.73		2325	161.03				
52700	5661	2099	120.54		2124	125.02		2150	129.52		2174	134.05		2224	143.23		2273	152.54		2322	161.97							
54700	5875	2154	130.15		2178	134.77		2203	139.41		2227	144.09		2275	153.53		2323	163.09										
56700	6090	2209	140.37	109	2233	145.12	109	2257	149.90	111	2280	154.71	111	2328	164.42	113												
58700	6305	2265	151.18		2289	156.08		2311	160.99		2335	165.94																

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

DWDI 330

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
33"	12.98 SQ. FT.	11.27 SQ. FT.	F.P.M.=8.65x RPM	22.35 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
9000	799	307	0.60	70	345	0.81	74	381	1.04	76	415	1.29	78	448	1.52	80	479	1.78	81									
9900	878	323	0.70		358	0.94		391	1.16		424	1.42		455	1.69		485	1.97		514	2.25	83						
10800	958	340	0.82		373	1.07		404	1.33		435	1.59		465	1.87	81	492	2.15		520	2.45		574	3.08	85			
11700	1038	357	0.96	71	388	1.22	75	418	1.49	77	446	1.77	79	475	2.06	82	502	2.36	82	528	2.67	84	579	3.32	86	627	3.99	88
12600	1118	376	1.11		405	1.39		433	1.67		459	1.97		486	2.27		512	2.60		538	2.91		586	3.59		633	4.28	
13500	1198	394	1.29		422	1.58		448	1.87		474	2.18	80	499	2.49		523	2.83		548	3.17		594	3.88		640	4.61	
14400	1278	414	1.47	72	440	1.77	76	465	2.10	78	489	2.41	81	513	2.75	83	537	3.09	83	559	3.45	85	605	4.19	87	648	4.94	89
15300	1358	434	1.69		458	2.01		482	2.34	79	505	2.69		527	3.02		550	3.39		572	3.76		615	4.52		656	5.31	
16200	1437	453	1.93		477	2.27	77	500	2.62		521	2.96		543	3.32		564	3.70		585	4.07		626	4.87		666	5.68	
17100	1517	473	2.18	73	495	2.54		517	2.90		539	3.27		559	3.65		580	4.03		599	4.43		640	5.24		678	6.09	
18000	1597	493	2.48	74	515	2.85	78	536	3.21	80	556	3.61	82	576	4.01	84	595	4.39	84	615	4.80	86	653	5.65	88	690	6.52	90
18900	1677	514	2.80		535	3.17		554	3.57		574	3.97		593	4.38		612	4.79		630	5.22		667	6.09		702	6.99	
19800	1757	535	3.13		554	3.54		574	3.94		592	4.36		611	4.78		629	5.20		647	5.65		682	6.54		717	7.47	
20700	1837	555	3.51		574	3.91		592	4.35		611	4.78		628	5.22		646	5.67		663	6.12		697	7.03		730	7.99	
21600	1917	577	3.91		594	4.35		612	4.79		629	5.23		647	5.68		663	6.15		681	6.60		714	7.56		746	8.55	
22500	1996	597	4.36	75	615	4.80	79	631	5.24	81	649	5.72	83	665	6.18	85	682	6.64	85	698	7.14	87	730	8.13	89	761	9.15	91
23400	2076	619	4.83		636	5.27		652	5.75		668	6.23		684	6.71		700	7.21		716	7.70		747	8.71		777	9.76	
26400	2343	690	6.65		705	7.16		720	7.67		734	8.22		749	8.76		763	9.28		777	9.84		805	10.96		832	12.10	
29400	2609	763	8.93	76	776	9.49	80	789	10.05	82	801	10.64	84	815	11.22	86	828	11.82	86	840	12.41	88	866	13.65	90	892	14.87	92
32400	2875	836	11.69		848	12.30		859	12.93		871	13.55		883	14.19		895	14.84		906	15.48		930	16.81		953	18.16	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
13500	1198	724	6.16	90																								
14400	1278	730	6.54	91																								
15300	1358	736	6.96		811	8.71	93																					
16200	1437	744	7.41		817	9.21		885	11.08	95																		
17100	1517	752	7.87		823	9.72		890	11.67																			
18000	1597	762	8.35	92	830	10.28	94	896	12.28	96	959	14.35	96															
18900	1677	773	8.87		839	10.85		903	12.91		964	15.05		1023	17.23	98												
19800	1757	784	9.41		848	11.44		911	13.57		971	15.77		1029	18.03		1084	20.34	100									
20700	1837	795	9.98		858	12.09		919	14.27		977	16.51		1034	18.83		1089	21.22										
21600	1917	809	10.61		869	12.75		928	14.99		986	17.29		1041	19.67		1095	22.10		1146	24.61	100						
22500	1996	822	11.24	93	881	13.45	95	938	15.74	97	994	18.10	97	1049	20.55	99	1101	23.03	101	1153	25.60	101	1202	28.19	101			
23400	2076	835	11.93		893	14.17		949	16.52		1003	18.94		1057	21.44		1108	24.01		1159	26.63		1207	29.28		1255	32.00	103
26400	2343	886	14.45		938	16.88		989	19.42		1039	22.03		1088	24.72		1136	27.47		1183	30.27		1230	33.14		1275	36.07	
29400	2609	940	17.43	94	989	20.06	96	1035	22.77	98	1082	25.56	98	1127	28.43	100	1171	31.37	102	1215	34.37	102	1259	37.43	102	1301	40.55	104
32400	2875	998	20.90		1043	23.73		1087	26.65		1129	29.62		1171	32.67		1212	35.79		1254	38.98		1294	42.21		1334	45.53	
35400	3141	1059	24.94		1100	27.95		1140	31.06		1180	34.23		1220	37.46		1259	40.76		1297	44.13		1334	47.56		1372	51.05	
38400	3407	1122	29.54	95	1160	32.77	97	1198	36.08	99	1235	39.44	99	1272	42.87	101	1308	46.36	103	1344	49.91	103	1379	53.52	103	1414	57.20	105
41400	3673	1186	34.79		1222	38.23		1258	41.75		1293	45.30		1327	48.94		1361	52.60		1395	56.34		1429	60.15		1462	64.00	
44400	3940	1250	40.75		1284	44.38		1318	48.10		1351	51.86		1384	55.69		1416	59.58		1448	63.50		1480	67.50		1511	71.52	
47400	4206	1317	47.42	96	1349	51.27	98	1381	55.20	100	1412	59.17	100	1444	63.19	102	1474	67.27	104	1505	71.40	104	1535	75.59	104	1565	79.83	106

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
26400	2343	1318	39.04	103	1362	42.04	103	1404	45.10	105	1445	48.22	105															
29400	2609	1343	43.72	104	1384	46.94	104	1424	50.19	106	1464	53.51	106	1541	60.26	108												
32400	2875	1373	48.88		1412	52.29		1450	55.74		1487	59.27		1561	66.40		1634	73.71	108	1703	81.16	108	1771	88.76	110			
35400	3141	1408	54.59		1445	58.20		1481	61.84		1517	65.55		1587	73.07		1656	80.78		1723	88.64		1788	96.63		1852	104.77	110
38400	3407	1449	60.92	105	1483	64.70	105	1518	68.54	107	1551	72.42	107	1618	80.34	109	1684	88.42	109	1748	96.69	109	1811	105.09	111	1873	113.62	111
41400	3673	1495	67.91		1526	71.88		1558	75.89		1591	79.95		1654	88.25		1716	96.71		1778	105.35		1839	114.13		1897	123.09	113
44400	3940	1543	75.63		1573	79.77		1604	83.98		1635	88.22		1694	96.87		1753	105.71		1812	114.70		1869	123.89		1926	133.21	
47400	4206	1593	84.10	106	1623	88.45	106	1652	92.82	108	1681	97.26	108	1738	106.28	110	1794	115.46	110	1850	124.84	110	1904	134.37	114	1959	144.08	114
50400	4472	1648	93.40		1676	97.92		1703	102.51		1730	107.12		1785	116.49		1839	126.06		1892	135.80	112	1945	145.69		1996	155.78	
53400	4738	1704	103.56		1730	108.26		1756	113.04		1783	117.84		1834	127.61		1886	137.54	112	1936	147.64		1987	157.91		2036	168.33	
56400	5004	1761	114.59	107	1786	119.52	107	1812	124.48	109	1836	129.47	109	1887	139.63	113	1935	149.93	113	1984	160.40	113	2032	171.03	115	2081	181.83	115
59400	5271	1820	126.59		1845	131.72		1868	136.87		1893	142.07	111	1941	152.59		1988	163.30		2034	174.13		2081	185.14		2126	196.31	
62400	5537	1880	139.60	109	1903	144.90	109	1927	150.27	111	1950	155.66		1996	166.59		2041	177.68		2087	188.89		2131	200.27				
65400	5803	1942	153.62		1964	159.16		1987	164.72		2009	170.32		2053	181.64		2097	193.11		2140	204.73							
68400	6069	2004	168.76		2026	174.48		2048	180.26		2069	186.07		2112	197.79													
71400	6335	2067	185.02	110	2089	190.96	110	2109	196.94	112	2130	202.95	112															

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™
DWDI 365

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
36 1/2"	15.96 SQ. FT.	13.79 SQ. FT.	F.P.M.=9.56x RPM	35.39 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
11000	798	287	0.74	70	320	1.01	74	349	1.31	76	377	1.61	78	404	1.92	80	428	2.24	80	453	2.58	82	501	3.27	85			
12000	870	301	0.88	71	333	1.15	75	361	1.45	77	387	1.77	79	412	2.10	81	437	2.44	81	460	2.80	83	506	3.52	86	548	4.28	88
13000	943	314	0.99		345	1.31		373	1.61		399	1.95		422	2.29		446	2.66		469	3.02		512	3.78		553	4.58	
14000	1015	328	1.15		358	1.47		386	1.80		411	2.14		434	2.50		456	2.87		478	3.25	84	519	4.07		558	4.90	
15000	1088	341	1.31	72	372	1.66	76	399	2.01	78	423	2.36	80	446	2.74	82	468	3.13	82	488	3.52	85	527	4.37	87	565	5.23	89
16000	1160	355	1.47		385	1.84		412	2.22		436	2.60		458	3.00		479	3.39	83	500	3.81		538	4.69		575	5.57	
17000	1233	370	1.67		400	2.08		425	2.47		449	2.87		471	3.27	83	491	3.70		511	4.12		548	5.02		584	5.94	
18000	1305	384	1.88	73	413	2.32	77	439	2.73	79	462	3.15	81	483	3.57	84	504	4.01	84	523	4.45	86	559	5.38	88	593	6.34	90
19000	1378	400	2.13		426	2.58		452	3.00		476	3.44	82	496	3.88		516	4.35		536	4.80		571	5.75		605	6.75	
20000	1450	415	2.39		441	2.85		466	3.30		489	3.76		510	4.22		529	4.71		548	5.19		583	6.17		616	7.20	
21000	1523	432	2.66		455	3.15		480	3.63	80	503	4.12		523	4.60		543	5.09		561	5.58		595	6.60		627	7.66	
24000	1740	481	3.68	75	501	4.19	79	522	4.74	81	544	5.30	83	563	5.84	85	583	6.41	85	600	6.95	87	634	8.09	89	665	9.23	91
27000	1958	533	4.94		549	5.49		568	6.09		587	6.71		606	7.34		624	7.96		642	8.58		674	9.84		705	11.10	
30000	2175	585	6.49	76	599	7.10	80	615	7.73	82	631	8.40	84	649	9.09	86	666	9.79	86	683	10.48	88	715	11.86	90	744	13.25	92
33000	2393	639	8.38		651	9.01		664	9.69		679	10.40		694	11.15		710	11.90		725	12.67		756	14.19		785	15.72	
36000	2611	692	10.64	77	703	11.32	81	715	12.02	83	727	12.78	85	741	13.55	87	755	14.36	87	769	15.17	89	798	16.84	91	826	18.50	93
39000	2828	747	13.28		756	13.99		766	14.75		778	15.53		790	16.36		802	17.20		815	18.07		842	19.84		868	21.64	
42000	3046	801	16.36		810	17.10		820	17.90		829	18.72		839	19.58		851	20.46		862	21.38		887	23.25		912	25.18	
45000	3263	856	19.87	78	864	20.67	82	872	21.52	84	882	22.36	86	891	23.26	88	901	24.18	88	912	25.14	90	933	27.11	92	956	29.13	95
48000	3481	912	23.90		919	24.73		926	25.61		934	26.50	87	943	27.44	89	952	28.40	89	961	29.39	91	982	31.44	93	1002	33.57	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
16000	1160	644	7.48	91	710	9.49	93																					
17000	1233	651	7.92	91	715	10.00		776	12.17	95																		
18000	1305	659	8.37	92	721	10.52	94	780	12.76	96	836	15.08	96															
19000	1378	667	8.84	92	728	11.07		785	13.39		840	15.78		893	18.24	98												
20000	1450	678	9.35	92	735	11.64		792	14.02		846	16.49		897	19.03		948	21.64	101									
21000	1523	688	9.87	92	745	12.22		799	14.68		851	17.21		901	19.84		951	22.51		998	25.27	101						
24000	1740	722	11.64	93	775	14.16	95	825	16.80	97	873	19.55	97	921	22.36	99	966	25.28	102	1010	28.24	102	1055	31.28	102	1097	34.37	104
27000	1958	759	13.70	93	810	16.39		857	19.22		902	22.15		946	25.15	100	989	28.27		1030	31.45		1071	34.71		1111	38.03	
30000	2175	797	16.07	94	846	18.97	96	891	21.96	98	934	25.06	98	976	28.27	101	1017	31.56	103	1056	34.94	103	1094	38.39	103	1132	41.90	105
33000	2393	837	18.78	94	885	21.89		928	25.08		970	28.36	99	1009	31.74		1049	35.21		1086	38.77		1122	42.41		1158	46.12	
36000	2611	878	21.84	95	924	25.18	97	967	28.59	100	1007	32.07	100	1045	35.63	102	1083	39.28	104	1119	43.01	104	1154	46.82	104	1188	50.73	106
39000	2828	918	25.27	95	964	28.86	98	1006	32.51		1046	36.19		1084	39.94		1120	43.80		1154	47.71		1188	51.71		1221	55.77	
42000	3046	960	29.07	96	1004	32.94		1046	36.84		1086	40.76		1123	44.72		1158	48.76		1191	52.88		1224	57.05		1256	61.31	
45000	3263	1002	33.29	97	1045	37.44	99	1087	41.61	101	1126	45.78	101	1162	49.99	103	1196	54.23	105	1230	58.55	105	1262	62.90	105	1293	67.35	107
48000	3481	1045	37.95	97	1088	42.38		1128	46.82		1166	51.27		1202	55.71		1236	60.20		1268	64.73		1300	69.31		1330	73.94	
51000	3698	1090	43.10	97	1130	47.81		1169	52.53		1206	57.24		1242	61.95		1276	66.69		1308	71.45		1339	76.24		1369	81.08	
54000	3916	1135	48.79	97	1173	53.71		1211	58.71		1247	63.73		1282	68.70		1316	73.71		1348	78.71		1378	83.75		1408	88.81	
57000	4133	1181	55.04	98	1217	60.19	100	1254	65.45	102	1290	70.73	102	1324	76.00	104	1357	81.27	106	1388	86.54	106	1418	91.82	106	1448	97.13	108
60000	4351	1230	61.89	98	1263	67.26		1298	72.74		1332	78.28		1366	83.84		1398	89.39		1429	94.95		1460	100.49		1488	106.04	
63000	4569	1278	69.42	98	1310	74.95		1342	80.66		1375	86.45		1408	92.28		1439	98.11		1470	103.93		1500	109.76		1529	115.58	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
24000	1740	1151	41.39	104	1189	44.82	104	1227	48.28	106	1264	51.80	106															
27000	1958	1169	45.50		1205	49.14		1241	52.84		1276	56.60		1345	64.22	108	1412	72.03	108									
30000	2175	1193	49.91	105	1228	53.77	105	1262	57.67	107	1295	61.64	107	1361	69.72	109	1424	77.99	109	1487	86.42	109	1548	95.02	111			
33000	2393	1221	54.68		1254	58.74		1286	62.83		1318	67.01		1380	75.51		1442	84.22		1502	93.11		1559	102.15		1617	111.35	111
36000	2611	1252	59.92	106	1284	64.14	106	1315	68.42	108	1345	72.79	108	1405	81.68	110	1464	90.79	110	1520	100.10	110	1577	109.59	112	1632	119.26	112
39000	2828	1286	65.62		1316	70.03		1346	74.49		1376	79.02		1433	88.28		1489	97.78		1544	107.49		1598	117.41		1650	127.49	
42000	3046	1323	71.86		1351	76.43		1380	81.07		1409	85.79		1464	95.40		1518	105.26		1571	115.36		1622	125.66		1673	136.15	
45000	3263	1360	78.63		1388	83.39	107	1416	88.22	109	1444	93.11	109	1498	103.07	111	1549	113.30	111	1601	123.75	111	1650	134.42	113	1698	145.29	113
48000	3481	1398	85.97	107	1426	90.94		1453	95.94		1480	101.03		1533	111.35		1583	121.93		1633	132.74		1680	143.77		1727	155.00	
51000	3698	1437	93.92		1465	99.08		1491	104.29		1517	109.55		1569	120.25		1618	131.20		1667	142.35		1713	153.73		1759	165.33	
54000	3916	1476	102.45		1504	107.83		1531	113.26		1556	118.74		1606	129.82		1654	141.12		1702	152.64		1747	164.39		1792	176.33	
57000	4133	1516	111.63	108	1543	117.22	108	1570	122.88	110	1595	128.55	110	1645	139.65	112	1692	151.75	112	1738	163.64	112	1783	175.74	114	1826	188.04	114
60000	4351	1556	121.42		1583	127.27		1609	133.14		1635	139.05		1683	150.99		1730	163.08		1776	175.36		1820	187.83		1862	200.49	
63000	4569	1597	131.85		1623	137.96		1649	144.09		1675	150.24		1723	162.61		1770	175.14		1814	187.82		1857	200.69		1899	213.73	115
66000	4786	1638	142.96		1663	149.34		1689	155.72		1714	162.11		1762	174.97		1809	187.93		1853	201.04		1895	214.30	115	1936	227.74	
69000	5004	1679	154.75		1705	161.39		1730	168.04		1755	174.71		1803	188.07		1848	201.50		1892	215.04	113	1934	228.74				
72000	5221	1720	167.23	109	1746	174.17	109	1771	181.10	111	1795	188.04	111	1843	201.91	113	1888	215.84	113	1931	229.85	114						
75000	5439	1762	180.45		1787	187.67		1812	194.88		1836	202.09		1883	216.52		1928	230.96										
78000	5656	1711	175.19		1735	182.20		1759	189.20		1783	196.20		1828	210.21		1872	224.23										

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

DWDI 402

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
40 1/4"	19.44 SQ. FT.	16.77 SQ. FT.	F.P.M. = 10.55 x RPM	57.71 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
13000	775	256	0.88	71	286	1.19	75	314	1.52	77	339	1.88	79	364	2.27	81	387	2.66	81	410	3.06	83	453	3.88	85			
14000	835	267	0.99		296	1.32		322	1.67		346	2.04		370	2.44		392	2.85		414	3.27		456	4.13		495	5.05	88
15000	894	276	1.11	72	306	1.45	76	331	1.82	78	354	2.22	80	377	2.64	82	399	3.06	82	419	3.49	84	460	4.39	86	499	5.35	89
16000	954	286	1.24		315	1.61		340	2.01		364	2.40		385	2.83		406	3.27		426	3.73		465	4.66		502	5.65	
17000	1014	297	1.39		325	1.78		349	2.18		372	2.62		393	3.04		413	3.50		433	3.96		471	4.94	87	507	5.96	
18000	1073	307	1.56	73	335	1.97	77	359	2.39	79	381	2.83	81	402	3.28	83	421	3.75	83	441	4.22	85	477	5.23	88	512	6.28	90
19000	1133	317	1.72		345	2.15		369	2.60		390	3.06		411	3.52		431	4.02		449	4.50		484	5.53		518	6.63	
20000	1193	329	1.92		355	2.38		379	2.83		401	3.30		420	3.78		439	4.28		457	4.80		491	5.86		524	6.98	
21000	1252	339	2.10		366	2.60		389	3.09		410	3.57		430	4.07		448	4.58		467	5.12		500	6.22		531	7.36	
22000	1312	350	2.34		376	2.83		399	3.35		420	3.86		440	4.38		458	4.90		475	5.46	86	508	6.58		540	7.76	
23000	1371	362	2.56	74	386	3.09	78	409	3.63	80	430	4.16	82	449	4.69	84	468	5.24	84	484	5.81	87	517	6.95	89	547	8.17	91
24000	1431	373	2.82		397	3.37		419	3.91		440	4.47		459	5.04	85	477	5.60	85	494	6.18		526	7.37		556	8.60	
25000	1491	385	3.09		407	3.66		430	4.24		450	4.81		469	5.40		487	5.97		504	6.58		535	7.79		564	9.06	
29000	1729	434	4.39	75	452	5.02	79	472	5.69	82	491	6.36	84	510	7.03	86	526	7.70	86	543	8.37	88	574	9.74	90	602	11.12	92
33000	1968	485	6.09	76	500	6.76	80	516	7.50	8	534	8.24		551	9.01		568	9.79		583	10.55		613	12.06		640	13.61	
37000	2206	537	8.20	77	550	8.93	81	563	9.72	83	579	10.55	85	594	11.38	87	610	12.25	87	624	13.09	89	653	14.81	91	680	16.51	93
41000	2445	590	10.82		602	11.59		613	12.43		626	13.30		640	14.22		653	15.15		667	16.10		694	17.98		720	19.89	
45000	2683	644	13.97	78	654	14.79	82	664	15.69	84	675	16.61	86	687	17.57	88	699	18.57	88	712	19.58	90	736	21.66	92	761	23.73	94
49000	2922	698	17.69		707	18.58		716	19.53		725	20.51		735	21.52		747	22.57		758	23.65		781	25.85		804	28.13	
53000	3160	753	22.07		760	23.02		768	24.02		777	25.04		786	26.11		795	27.21		805	28.35		826	30.67		848	33.08	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
18000	1073	578	8.50	92	640	10.83	94																					
19000	1133	582	8.92		643	11.32																						
20000	1193	587	9.34		646	11.82		701	14.40	96																		
21000	1252	592	9.79		650	12.34		705	15.00																			
22000	1312	598	10.24		654	12.86		708	15.58		759	18.43	96															
23000	1371	605	10.70	93	659	13.40	95	712	16.20	97	762	19.12	97	810	22.10	99												
24000	1431	612	11.21		665	13.97		716	16.84		765	19.83		813	22.88													
25000	1491	620	11.72		672	14.53		721	17.49		769	20.55		816	23.69		861	26.90	101									
29000	1729	653	14.04	94	701	17.10	96	747	20.29	98	791	23.61	98	833	27.05	100	876	30.56	102	916	34.17	102	956	37.83	103	994	41.58	105
33000	1968	690	16.77	95	735	20.06		778	23.50		819	27.07		859	30.77		897	34.55		935	38.44	103	972	42.41		1008	46.44	
37000	2206	728	19.97		773	23.54	97	813	27.21	99	852	31.02	99	889	34.94	101	926	38.98	103	961	43.11	104	996	47.34	104	1030	51.68	106
41000	2445	767	23.69		811	27.52		851	31.48		888	35.51		923	39.69		958	43.95	104	991	48.33		1024	52.81		1056	57.37	
45000	2683	808	27.89	96	850	32.07	98	889	36.31	100	925	40.61	100	960	45.02	103	993	49.53	105	1026	54.15	105	1056	58.86	105	1087	63.67	107
49000	2922	849	32.66		890	37.18		928	41.75		964	46.35	101	998	51.02		1030	55.80		1061	60.66		1091	65.61		1121	70.65	
53000	3160	890	38.00		931	42.90		968	47.79	101	1003	52.72		1036	57.70		1068	62.73		1098	67.87		1128	73.06		1156	78.34	
57000	3399	933	43.95	97	972	49.22	100	1008	54.51	102	1043	59.77	102	1076	65.07	104	1107	70.40	106	1137	75.81	106	1166	81.29	106	1193	86.83	108
61000	3637	976	50.59	98	1014	56.23		1050	61.87		1084	67.53		1117	73.17		1146	78.84		1176	84.53		1204	90.30		1232	96.11	
65000	3876	1022	58.01		1057	63.96		1092	69.98		1125	76.00		1157	82.01		1185	88.01		1215	94.05		1243	100.12		1270	106.23	
69000	4114	1068	66.24		1101	72.50		1134	78.86		1166	85.23		1197	91.62		1227	98.00		1256	104.38		1283	110.79		1310	117.21	
73000	4353	1115	75.37	99	1146	81.89	101	1177	88.55	103	1208	95.31	103	1239	102.06	105	1268	108.82	107	1297	115.56	107	1324	122.31	107	1349	129.07	109

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
29000	1729	1032	45.38	105																								
33000	1968	1044	50.56		1078	54.73	105	1113	58.97	107	1146	63.26	107															
37000	2206	1063	56.07	106	1096	60.54	106	1128	65.07	108	1160	69.68	108	1222	79.04	110	1282	88.90	110									
41000	2445	1088	62.03		1119	66.76		1148	71.59		1179	76.48		1238	86.44		1295	96.62		1351	107.02	110	1406	117.57	112			
45000	2683	1117	68.57	107	1145	73.57	107	1175	78.63	109	1203	83.78	109	1259	94.29	111	1313	105.05	111	1367	116.03	111	1419	127.22	113	1471	138.60	113
49000	2922	1148	75.78		1177	81.01		1204	86.32		1232	91.71		1284	102.71		1337	114.00		1387	125.55		1438	137.31		1486	149.29	
53000	3160	1183	83.73		1210	89.19		1237	94.73		1263	100.35		1314	111.85		1364	123.64		1412	135.69		1461	147.99		1507	160.53	
57000	3399	1221	92.44	108	1246	98.16	108	1272	103.95	110	1297	109.80	110	1346	121.76	112	1395	134.02	112	1441	146.58	112	1486	159.38	114	1532	172.42	114
61000	3637	1258	102.00		1283	107.95		1308	113.98		1333	120.09		1380	132.54		1427	145.27		1472	158.29		1516	171.58		1559	185.12	
65000	3876	1297	112.40		1321	118.61		1346	124.92		1370	131.27		1416	144.20		1462	157.43		1505	170.91		1548	184.68		1589	198.69	
69000	4114	1336	123.68		1361	130.19		1384	136.76		1408	143.39		1453	157.20		1498	170.55		1540	184.50		1582	198.74		1622	213.24	
73000	4353	1375	135.86	109	1400	142.69	109	1423	149.54	111	1447	156.46	111	1491	170.45	113	1535	184.67	113	1577	199.14	113	1617	213.85	115	1656	228.82	115
77000	4592	1415	148.96		1439	156.11		1463	163.30		1486	170.52		1531	185.07		1573	199.82		1614	214.82		1653	230.03		1692	245.48	
81000	4830	1455	163.01		1479	170.52		1503	178.03		1525	185.55		1570	200.73		1612	216.05		1652	231.60		1691	247.32		1729	263.29	
85000	5069	1496	178.06		1520	185.90		1543	193.76		1566	201.63		1609	217.45		1651	233.38		1690	249.48		1729	265.76				
89000	5307	1537	194.08		1560	202.30		1583	210.53		1606	218.75		1649	235.24		1690	251.84		1729	268.53							
93000	5546	1578	211.16	110	1602	219.77	110	1624	228.36	112	1646	236.96	112	1689	254.16	114	1730	271.41	114									
97000	5784	1620	229.35		1643	238.33		1666	247.30		1687	256.27		1729	274.21													
101000	6023	1662	248.67		1685	258.03		1707	267.38		1728	276.72																
105000	6261	1706	269.21		1727	278.91		1749	288.64																			

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™
DWDI 445

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
44 1/2"	23.72 SQ. FT.	20.49 SQ. FT.	F.P.M.= 11.65x RPM	95.33 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
16000	781	233	1.07	72	260	1.47	76	284	1.87	78	307	2.32	80	330	2.78	82	350	3.27	82	371	3.76	84	410	4.79	86			
17000	830	240	1.19		267	1.59		290	2.03		313	2.48		334	2.96		354	3.45		374	3.97		412	5.04				
18000	878	247	1.32	73	274	1.73	77	297	2.18	79	318	2.66	81	339	3.15	83	359	3.66	83	378	4.19	85	415	5.29	87	450	6.44	89
19000	927	255	1.43		281	1.88		304	2.36		324	2.83		345	3.35		364	3.86		382	4.42		418	5.55		452	6.74	
20000	976	263	1.59		288	2.04		311	2.52		332	3.04		351	3.55		370	4.09		387	4.65		422	5.83		455	7.03	
21000	1025	270	1.73		296	2.22		318	2.71		338	3.22		357	3.77		375	4.33		392	4.90		426	6.10		459	7.36	
22000	1074	278	1.88		303	2.40		324	2.91		345	3.45		364	4.01		381	4.57		399	5.16		432	6.41		462	7.67	
23000	1122	285	2.06	74	310	2.60	78	332	3.13	80	352	3.69	82	371	4.24	84	387	4.83	84	405	5.45	86	437	6.70	88	468	8.02	90
24000	1171	294	2.25		318	2.80		340	3.37		359	3.93		377	4.52		394	5.12		411	5.74		442	7.01		472	8.38	91
25000	1220	301	2.44		325	3.02		347	3.61		367	4.19		384	4.79		401	5.41		417	6.05		448	7.36		477	8.74	
26000	1269	309	2.66		333	3.25		354	3.86		374	4.46		391	5.09		408	5.72		423	6.36		454	7.71		483	9.12	
27000	1318	317	2.87		341	3.50		362	4.12		381	4.74		399	5.39		415	6.03		431	6.70		460	8.08		488	9.53	
32000	1562	361	4.20	75	380	4.93	79	400	5.67	81	418	6.41	83	435	7.15	85	451	7.89	85	466	8.64	87	494	10.19	90	520	11.76	92
37000	1806	407	5.97	76	422	6.76	80	440	7.61	82	456	8.46	84	473	9.32	87	488	10.18	87	503	11.03	89	529	12.76	91	555	14.50	93
42000	2050	454	8.25		468	9.12		481	10.03	83	496	10.98	85	511	11.95		526	12.93		540	13.88		567	15.82		591	17.78	
47000	2294	504	11.10	78	514	12.02	82	526	13.02	84	539	14.04	86	552	15.10	88	565	16.18	88	579	17.26	90	605	19.45	92	628	21.61	94
52000	2538	553	14.61		562	15.59		572	16.64		583	17.75		594	18.87		607	20.04		619	21.23		643	23.65		665	26.04	
57000	2782	603	18.83	79	611	19.89	83	620	20.99	85	629	22.16	87	639	23.35	89	650	24.61	89	660	25.88	91	683	28.49	93	705	31.13	95
62000	3026	653	23.83		660	24.96		667	26.12		676	27.36		685	28.61		694	29.93		703	31.28		724	34.06		744	36.89	
67000	3270	703	29.68		710	30.87		717	32.11		724	33.39		732	34.72		741	36.11		749	37.51		766	40.45		785	43.48	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
21000	1025	520	9.98	92																								
22000	1074	523	10.38		579	13.24	94																					
23000	1122	525	10.80	93	581	13.73	95																					
24000	1171	529	11.22		583	14.22																						
25000	1220	533	11.66		586	14.73		636	17.93	97																		
26000	1269	538	12.10		589	15.25		638	18.52		685	21.90	97															
27000	1318	542	12.56		592	15.78		641	19.13		687	22.59																
32000	1562	569	15.10	94	615	18.64	96	658	22.33	98	700	26.18	99	742	30.13	100	782	34.17	102	820	38.32	102						
37000	1806	600	18.16	95	644	21.99	97	684	25.99	99	723	30.15		761	34.43	101	797	38.85	103	833	43.36	103	868	47.99	103	902	52.68	105
42000	2050	636	21.77		676	25.91		714	30.20		751	34.66		786	39.26		820	44.00	104	853	48.85	104	886	53.82		918	58.89	
47000	2294	672	25.99	96	711	30.47	98	748	35.08	100	782	39.83	100	816	44.73	102	848	49.77		879	54.94		909	60.21	104	939	65.61	107
52000	2538	709	30.86		747	35.71		783	40.65		816	45.73		848	50.94		879	56.26		908	61.72		937	67.31		965	73.02	
57000	2782	746	36.40	97	784	41.67	99	819	46.99	101	851	52.42	101	882	57.94	103	912	63.57	105	940	69.33	106	968	75.22	106	995	81.21	108
62000	3026	784	42.64		821	48.37		855	54.12		887	59.89		918	65.79		947	71.74	106	974	77.83		1001	84.01		1027	90.30	
67000	3270	823	49.65		859	55.84		892	62.03	102	924	68.24		954	74.51	104	982	80.82		1009	87.23		1035	93.75		1061	100.35	
72000	3514	862	57.49	98	897	64.15	100	930	70.81		961	77.46	103	991	84.13	105	1019	90.85	107	1045	97.62	107	1071	104.47	107	1096	111.40	109
77000	3758	903	66.24		936	73.34		968	80.46	103	999	87.59		1028	94.70		1056	101.84		1082	109.02		1107	116.23		1131	123.51	
82000	4002	946	76.02	99	976	83.49	101	1007	91.08		1037	98.67		1065	106.24		1093	113.83		1119	121.43		1143	129.05		1168	136.71	
87000	4246	989	86.90		1018	94.71		1046	102.70		1075	110.76		1103	118.80		1130	126.84		1156	134.89		1180	142.94		1204	151.02	
92000	4490	1034	98.94	100	1060	107.07	102	1088	115.44	104	1114	123.92	104	1142	132.44	106	1168	140.96	108	1194	149.46	108	1217	157.96	108	1241	166.47	110

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
37000	1806	936	57.45	105	969	62.27	106																					
42000	2050	950	64.04	106	981	69.27		1010	74.57	108	1040	79.95	108	1099	90.89	110												
47000	2294	969	71.11	107	998	76.68	107	1027	82.36	109	1055	88.13	109	1110	99.84	111	1164	111.82	111	1215	124.01	111						
52000	2538	993	78.83		1021	84.74		1048	90.73		1074	96.84		1127	109.27		1177	121.99		1227	134.99		1276	148.21	113	1324	161.65	113
57000	2782	1022	87.32	108	1048	93.53	108	1073	99.84	110	1098	106.25	110	1147	119.36	112	1196	132.78	112	1243	146.50	112	1290	160.47	114	1335	174.69	114
62000	3026	1053	96.71		1077	103.21		1102	109.83		1126	116.54		1173	130.24		1220	144.32		1265	158.68		1308	173.38		1352	188.31	
67000	3270	1086	107.05		1109	113.87		1133	120.77		1157	127.78		1202	142.08		1245	156.76		1289	171.76		1331	187.08		1373	202.70	
72000	3514	1120	118.44	109	1143	125.56	109	1166	132.76	111	1189	140.08	111	1232	154.96	113	1275	170.24	113	1316	185.84	113	1357	201.77	115	1397	218.01	115
77000	3758	1155	130.87		1178	138.33		1200	145.86		1223	153.47		1265	168.98		1306	184.82		1346	201.04		1385	217.57		1423	234.41	
82000	4002	1191	144.45		1213	152.23		1236	160.09		1257	168.03		1299	184.17		1339	200.63		1378	217.43		1416	234.54		1453	251.98	
87000	4246	1228	159.14		1249	167.30		1271	175.52		1293	183.80		1334	200.59		1373	217.70		1411	235.11		1448	252.82		1484	270.85	
92000	4490	1264	175.00	110	1286	183.56	110	1308	192.18	112	1329	200.83	112	1369	218.32	114	1408	236.06	114	1445	254.11	114	1481	272.44	116	1516	291.06	116
97000	4734	1301	192.05		1324	201.05		1344	210.06		1365	219.11		1405	237.34		1443	255.78		1480	274.50		1515	293.46		1550	312.72	
102000	4978	1339	210.37		1361	219.78		1381	229.23		1402	238.68		1442	257.70		1479	276.89		1515	296.29		1550	315.94		1585	335.82	
107000	5222	1377	229.93		1398	239.81		1419	249.70		1439	259.59		1478	279.45		1516	299.42		1551	319.56		1586	339.90				
112000	5466	1415	250.81		1436	261.17		1456	271.52		1477	281.87		1515	302.58		1552	323.39		1588	344.29							
117000	5710	1453	273.07	111	1474	283.89	111	1495	294.71	113	1514	305.53	113	1552	327.16	115	1589	348.82	115									
122000	5954	1492	296.77		1513	308.07		1533	319.37		1552	330.66		1590	353.22													
127000	6198	1533	322.01		1552	333.75		1572	345.51		1590	357.28																
132000	6442	1573	348.85		1591	361.03																						

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

DWDI 490

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
49"	28.84 SQ. FT.	24.85 SQ. FT.	F.P.M.=12.85x RPM	154.3 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
20000	805	215	1.37	73	239	1.86	77	261	2.38	79	281	2.91	81	301	3.49	83	320	4.07	83	338	4.69	85	373	5.94	87			
21000	845	220	1.49		244	1.99		266	2.52		285	3.08		305	3.66		323	4.27		341	4.89		375	6.19		408	7.55	89
22000	885	226	1.61		249	2.13		271	2.67		290	3.25		309	3.85		327	4.47		344	5.12		377	6.45		409	7.86	
23000	926	232	1.75	74	255	2.29	78	276	2.85	80	295	3.44	82	313	4.04	84	331	4.69	84	347	5.35	86	380	6.73	88	411	8.15	90
24000	966	237	1.87		261	2.44		281	3.02		300	3.63		317	4.24		335	4.90		351	5.58		383	6.99		413	8.46	
25000	1006	243	2.03		266	2.62		286	3.21		305	3.83		322	4.47		339	5.14		355	5.83		386	7.26		416	8.77	
26000	1046	248	2.18		271	2.78		291	3.40		310	4.04		327	4.71		343	5.39		359	6.09		389	7.55		418	9.09	
27000	1087	254	2.36		277	2.97		297	3.61		315	4.26		332	4.94		348	5.63		364	6.34		393	7.86		421	9.43	
28000	1127	260	2.52		282	3.17		302	3.83		320	4.50		337	5.19		352	5.90		368	6.63		397	8.17		424	9.77	
29000	1167	266	2.70	75	288	3.37	79	308	4.06	81	325	4.74	83	342	5.45	85	357	6.18	85	373	6.93	87	401	8.49	89	428	10.12	91
30000	1207	272	2.90		294	3.59		313	4.28		331	4.99		347	5.72		363	6.46		377	7.22		406	8.83		433	10.48	
31000	1247	278	3.11		300	3.81		318	4.54		337	5.25		352	6.00		368	6.76		382	7.55		410	9.16		437	10.87	
37000	1489	315	4.57	76	335	5.41	80	352	6.26	82	370	7.12	84	385	7.98	86	400	8.84	86	413	9.72	88	439	11.53	90	464	13.40	92
43000	1730	356	6.52		372	7.47		387	8.44		404	9.43		418	10.43		433	11.43		446	12.43		471	14.45	91	494	16.51	93
49000	1972	399	9.06	77	411	10.07	81	425	11.15	83	439	12.27	85	453	13.40	87	467	14.53	87	480	15.67	90	504	17.94	92	526	20.23	94
55000	2213	443	12.25		453	13.35		465	14.50		477	15.74	86	489	16.97	88	502	18.24	88	514	19.53		538	22.06		559	24.61	
61000	2455	487	16.20	79	495	17.36	83	506	18.60	85	516	19.90	87	526	21.26	89	538	22.64	89	549	24.05	91	572	26.86	93	593	29.68	95
67000	2696	531	20.96		539	22.21		548	23.50		556	24.90		567	26.33		576	27.81		586	29.32		607	32.40		627	35.49	
73000	2938	577	26.60	80	583	27.93	84	591	29.32	86	598	30.79	88	607	32.29	90	616	33.86	90	625	35.45	92	644	38.77	94	662	42.13	96
79000	3179	622	33.25		628	34.66		634	36.14		642	37.67		649	39.24		656	40.89		664	42.58		682	46.05		699	49.66	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
25000	1006	472	11.93	92																								
26000	1046	474	12.32	93																								
27000	1087	476	12.73		526	16.20	95																					
28000	1127	478	13.14		527	16.70																						
29000	1167	480	13.55	94	529	17.20	96																					
30000	1207	483	13.99		531	17.70		577	21.55	98																		
31000	1247	486	14.43		534	18.21		579	22.16																			
37000	1489	509	17.36	95	551	21.52	97	592	25.89	99	631	30.41	99	670	35.05	101	707	39.83	103									
43000	1730	537	20.82		576	25.34		614	30.10		650	35.02		685	40.09		719	45.32		752	50.66	103	785	56.10	103	817	61.65	105
49000	1972	568	24.94	96	605	29.83	98	640	34.92	100	674	40.21	100	706	45.67	102	737	51.30	104	768	57.06	104	799	62.95	104	829	68.95	106
55000	2213	599	29.76		636	35.05		668	40.50		700	46.15		731	51.97		761	57.97		790	64.11		819	70.39		847	76.80	
61000	2455	632	35.34	97	667	41.07	99	699	46.91	101	730	52.94	101	760	59.12	103	788	65.45	105	816	71.95	105	843	78.60	105	868	85.39	107
67000	2696	665	41.68		700	47.92		731	54.20		761	60.62		790	67.17		817	73.87		844	80.74		869	87.74		894	94.88	
73000	2938	699	48.88	98	733	55.62	100	764	62.41	102	794	69.27	102	822	76.22	104	848	83.32	106	873	90.54	106	898	97.91	106	922	105.41	108
79000	3179	734	56.95		767	64.26		798	71.55		827	78.89		854	86.31		880	93.80		904	101.42		929	109.17		952	117.04	109
85000	3421	769	65.97		801	73.83		831	81.69		860	89.55		887	97.46		913	105.41		936	113.45		960	121.60	107	983	129.84	
91000	3662	805	76.06	99	836	84.45	101	865	92.88	103	894	101.29	103	920	109.70	105	946	118.14	108	969	126.64	108	992	135.23	108	1015	143.88	110
97000	3903	844	87.29		872	96.17		900	105.13		928	114.12		954	123.09	106	979	132.05		1002	141.05		1025	150.10		1048	159.20	
103000	4145	882	99.80		908	109.11		935	118.59		962	128.13	104	988	137.65		1012	147.17		1036	156.69		1058	166.24		1080	175.82	
109000	4386	922	113.65		947	123.34	102	972	133.31	104	997	143.37		1022	153.47		1046	163.55		1069	173.64		1092	183.71		1113	193.79	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
43000	1730	848	67.28	105																								
49000	1972	858	75.06	106	887	81.26	106	915	87.54	108	942	93.88	109															
55000	2213	873	83.33		900	89.96		927	96.71		953	103.54		1004	117.43	111	1054	131.64	111									
61000	2455	894	92.31	107	920	99.34	107	945	106.50	110	969	113.74	110	1018	128.55	112	1064	143.69	112	1110	159.12	112	1156	174.83	114	1199	190.80	114
67000	2696	919	102.16		942	109.58	108	966	117.10		990	124.74		1035	140.35		1079	156.35		1124	172.67		1166	189.31		1208	206.22	
73000	2938	946	113.04	109	968	120.81	109	991	128.69	111	1014	136.71	111	1057	153.07	113	1099	169.84	113	1141	187.01	113	1181	204.50	115	1222	222.30	115
79000	3179	974	125.03		997	133.16		1019	141.40		1039	149.75		1082	166.85		1122	184.37		1162	202.28		1201	220.58		1239	239.22	
85000	3421	1005	138.21		1027	146.70		1048	155.31		1068	164.03		1108	181.83		1147	200.06		1186	218.70		1223	237.75		1260	257.15	
91000	3662	1036	152.65	110	1058	161.51	110	1077	170.51	112	1098	179.59	112	1137	198.10	114	1175	217.05	114	1211	236.42	114	1247	256.17	116	1283	276.31	116
97000	3903	1068	168.41		1089	177.68		1109	187.05		1129	196.51		1167	215.76		1204	235.42		1239	255.50		1274	275.97		1309	296.83	
103000	4145	1101	185.48		1122	195.19		1141	204.97		1161	214.86		1198	234.87		1234	255.29		1269	276.07		1303	297.27		1336	318.83	
109000	4386	1134	203.93		1155	214.11		1174	224.34		1193	234.64		1230	255.49		1265	276.67		1299	298.21		1333	320.11		1365	342.40	
115000	4628	1167	223.78	111	1188	234.45	111	1206	245.17	113	1226	255.93	113	1262	277.65	115	1297	299.64	115	1331	321.96	115	1363	344.62	117	1395	367.64	117
121000	4869	1201	245.10		1221	256.27		1240	267.50		1259	278.74		1295	301.38		1329	324.23		1362	347.38		1394	370.82		1426	394.60	
127000	5111	1235	267.88		1255	279.62		1273	291.36		1292	303.11		1328	326.73		1362	350.50		1395	374.52		1426	398.77				
133000	5352	1269	292.21		1289	304.50		1307	316.81		1326	329.09		1361	353.71		1395	378.47		1427	403.38							
139000	5594	1303	318.14		1323	331.01		1341	343.87		1359	356.70		1394	382.40		1428	408.16										
145000	5835	1338	345.76		1357	359.18		1375	372.60		1393	386.01		1428	412.81													
151000	6076	1374	375.13		1392	389.10		1410	403.09		1428	417.07																
157000	6318	1410	406.37		1428	420.87																						

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™

DWDI 542

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
54 1/4"	35.22 SQ. FT.	30.46 SQ. FT.	F.P.M.= 14.29 x RPM	256.7 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
24000	788	192	1.63	74	214	2.21	78	234	2.83	80	252	3.50	82	271	4.19	84	288	4.89	84	305	5.64	86	337	7.16	86			
26000	854	200	1.86		221	2.48		241	3.13		259	3.81		276	4.54		293	5.29		309	6.07		339	7.66		369	9.34	90
28000	919	208	2.10		230	2.76		248	3.45		266	4.17		282	4.93		298	5.71		313	6.52		343	8.18		371	9.93	
30000	985	216	2.40	75	238	3.09	79	256	3.81	81	273	4.55	83	288	5.35	85	304	6.16	85	318	6.99	87	347	8.73	87	374	10.56	91
32000	1051	225	2.70		245	3.44		264	4.20		280	4.97		296	5.79		310	6.63		324	7.50		352	9.30		378	11.19	
34000	1116	234	3.04		253	3.83		272	4.62		288	5.43		303	6.27		317	7.15		332	8.03		357	9.90		383	11.86	
36000	1182	242	3.40	76	262	4.24	80	280	5.07	82	296	5.92	84	311	6.80	86	324	7.70	86	338	8.63	88	364	10.56	88	388	12.58	92
38000	1248	251	3.81		271	4.70		288	5.57		304	6.45		318	7.36		332	8.29		345	9.25		370	11.24		394	13.31	
40000	1313	260	4.24		279	5.16		297	6.09		312	7.01		327	7.97		340	8.92		352	9.92		377	11.96		401	14.09	
42000	1379	269	4.72		287	5.68		305	6.64		320	7.63		335	8.60		348	9.61		361	10.63		384	12.73		407	14.94	
44000	1445	279	5.23		296	6.23		313	7.26		329	8.27		342	9.30		355	10.33		368	11.38		391	13.55		414	15.81	
46000	1510	288	5.79	77	305	6.83	81	321	7.89	83	337	8.95	85	350	10.02	87	364	11.10	87	376	12.18	89	400	14.43	89	421	16.74	93
48000	1576	298	6.39		314	7.47		330	8.58		345	9.69		358	10.79		372	11.92		384	13.04		407	15.34		428	17.73	
50000	1641	308	7.03		323	8.15		338	9.30		353	10.44		367	11.62		380	12.76		392	13.94		415	16.30		436	18.76	
52000	1707	318	7.74		333	8.87		347	10.07		362	11.27		375	12.46		388	13.68		400	14.87		422	17.32		444	19.84	
60000	1970	359	11.07	78	371	12.32	82	383	13.65	84	397	15.02	86	409	16.40	88	421	17.80	88	433	19.17	90	455	21.96	90	475	24.75	95
68000	2232	403	15.37		412	16.72		422	18.14		433	19.64		444	21.20		455	22.76		467	24.35		488	27.48	91	508	30.62	
76000	2495	446	20.74	79	454	22.21	83	462	23.73	85	472	25.34	87	482	27.02	90	491	28.75	89	502	30.49	91	522	34.00	92	541	37.51	96
84000	2758	490	27.34	80	497	28.90	84	505	30.53	86	512	32.25	88	520	34.02		529	35.86	90	539	37.75	92	556	41.60		575	45.47	
92000	3020	535	35.28	81	541	36.93	85	547	38.67	87	554	40.49	89	561	42.37	91	569	44.32	91	577	46.31	93	593	50.44	93	610	54.66	97

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
34000	1116	431	15.98	93	476	20.30	96																					
36000	1182	435	16.82	94	479	21.30	97	520	25.97	99																		
38000	1248	439	17.70		482	22.32		522	27.14																			
40000	1313	444	18.61		485	23.38		525	28.35		563	33.50	99															
42000	1379	449	19.57		490	24.47		528	29.58		565	34.89		602	40.32	101												
44000	1445	455	20.56		494	25.60		533	30.86		569	36.29		604	41.89		638	47.64	101									
46000	1510	461	21.61	95	500	26.76	98	537	32.16	100	572	37.75	100	606	43.50	102	640	49.40	102									
48000	1576	469	22.70		506	27.99		542	33.51		576	39.23		610	45.13		642	51.19		674	57.37	104						
50000	1641	475	23.87	96	512	29.26		547	34.91		580	40.76		613	46.81		645	53.01		676	59.35		706	65.82	104			
52000	1707	482	25.06		518	30.59		552	36.35		585	42.35		617	48.53		648	54.89		679	61.38		708	68.00		736	74.74	106
60000	1970	512	30.51	97	546	36.51	99	578	42.76	101	608	49.24	101	638	55.92	103	666	62.82	103	694	69.88	105	721	77.09	105	749	84.43	107
68000	2232	544	36.98		576	43.50		606	50.24		634	57.20		662	64.36		689	71.74		715	79.31		741	87.04		766	94.95	
76000	2495	576	44.55	98	608	51.65	100	637	58.92	102	664	66.37	102	690	74.03	104	716	81.89	104	741	89.92	106	764	98.15	106	788	106.53	108
84000	2758	609	53.25		640	61.03		668	68.90		695	76.89		721	85.05		745	93.39		768	101.90		791	110.60		814	119.47	
92000	3020	643	63.18	99	673	71.68	101	700	80.21	103	727	88.80	103	752	97.52	105	776	106.39	105	798	115.40	107	821	124.58	107	842	133.93	109
100000	3283	677	74.42		707	83.68		733	92.91		759	102.17		784	111.50		808	120.93		829	130.49		851	140.19		871	150.03	
108000	3546	712	87.10		740	97.08		767	107.07		792	117.06		817	127.05		839	137.11		861	147.27		883	157.52		902	167.89	
116000	3808	748	101.38	100	775	112.05	102	800	122.78	104	826	133.51	104	850	144.24	106	872	154.97	106	894	165.76	108	915	176.60	108	934	187.56	110
124000	4071	786	117.45		811	128.71		835	140.16		859	151.63		883	163.11		905	174.56		926	186.04		947	197.54	109	966	209.12	111
132000	4334	825	135.45		848	147.23		870	159.32		894	171.53		917	183.74		938	195.96	107	959	208.16	109	980	220.36		999	232.58	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
60000	1970	775	91.92	107	800	99.50	107	826	107.20	109	851	115.00	109															
68000	2232	790	102.99		815	111.15		838	119.46		862	127.87		907	145.01	111	952	162.51	112									
76000	2495	811	115.09	108	834	123.79	108	856	132.64	110	879	141.61	110	922	159.92	112	963	178.64		1004	197.76	113	1044	217.21	115	1084	236.98	115
84000	2758	835	128.50		857	137.69		879	147.03		899	156.54		939	175.90	113	980	195.76		1019	216.04		1057	236.70		1094	257.72	
92000	3020	863	143.43	109	884	153.10	109	903	162.93	111	923	172.90	111	962	193.25	114	1000	214.13	114	1037	235.49	114	1073	257.27	116	1108	279.47	116
100000	3283	892	160.03		912	170.17		931	180.47		950	190.91	112	987	212.23		1023	234.08		1059	256.43		1093	279.25		1127	302.52	
108000	3546	922	178.39		941	189.05	110	960	199.82	112	979	210.75		1015	233.00		1049	255.81		1083	279.12		1117	302.92		1148	327.19	
116000	3808	954	198.61	111	972	209.79	111	991	221.07	113	1008	232.50	113	1043	255.73	115	1076	279.49	115	1109	303.74	115	1141	328.50	117	1173	353.71	117
124000	4071	986	220.76		1004	232.50		1022	244.33		1039	256.27		1073	280.53		1106	305.26		1138	330.49		1169	356.18		1199	382.35	
132000	4334	1018	244.88		1036	257.22		1054	269.63		1071	282.15		1104	307.48		1136	333.23		1167	359.44		1198	386.11		1227	413.22	
140000	4596	1051	271.01		1068	284.02		1086	297.06		1103	310.19		1136	336.66		1167	363.50		1198	390.73		1228	418.39		1256	446.47	
148000	4859	1084	299.26		1101	312.94		1119	326.67		1135	340.43		1168	368.11		1199	396.10		1229	424.42		1258	453.12		1286	482.22	
156000	5121	1117	329.64		1134	344.06		1152	358.48		1168	372.92		1200	401.93		1231	431.13		1261	460.59		1290	490.39				
164000	5384	1151	362.28		1168	377.44		1185	392.59		1201	407.75		1233	438.12		1264	468.61		1293	499.29							
172000	5647	1185	397.23		1201	413.15		1217	429.07		1234	444.96		1266	476.76		1296	508.62										

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

DWDI 600

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
60"	43.10 SQ. FT.	37.26 SQ. FT.	F.P.M.= 15.71 x RPM	424.8 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
30000	805	175	2.06	80	196	2.78	84	213	3.55	86	230	4.38	88	246	5.23	90	262	6.12	90	276	7.03	92	305	8.92	94			
32000	859	181	2.29		201	3.06		218	3.86		235	4.71		250	5.58		265	6.52		279	7.47		307	9.43		334	11.47	96
34000	913	187	2.54		207	3.35		224	4.19		240	5.06		254	5.97		269	6.93		283	7.91		310	9.95		335	12.08	
36000	966	194	2.83	81	213	3.66	85	230	4.54	87	245	5.45	89	260	6.38	91	273	7.36	91	286	8.38	93	312	10.50	95	338	12.69	97
38000	1020	200	3.13		218	4.01		235	4.90		250	5.84		265	6.83		278	7.83		291	8.87		316	11.05		340	13.32	
40000	1074	206	3.44		225	4.38		241	5.31		255	6.27		270	7.29		283	8.32		296	9.40		320	11.64		343	13.98	
42000	1127	212	3.78		231	4.76		247	5.75		262	6.75		275	7.78		288	8.86		301	9.95		324	12.25		347	14.66	
44000	1181	218	4.16		237	5.17		253	6.19		268	7.24		281	8.31		294	9.41		306	10.55		329	12.91		351	15.36	
46000	1235	226	4.55	82	243	5.61	86	259	6.70	88	273	7.77	90	286	8.86	92	299	10.00	92	311	11.15	94	334	13.57	96	355	16.10	98
48000	1288	232	4.97		249	6.09		265	7.21		279	8.32		293	9.47		305	10.63		316	11.82		339	14.30		359	16.88	
50000	1342	239	5.43		255	6.59		271	7.76		285	8.90		298	10.07		310	11.29		322	12.50		344	15.05		365	17.69	
52000	1396	245	5.92		262	7.12		277	8.32		291	*9.53*		304	10.73		316	11.98		328	13.24		349	15.82		370	18.54	
54000	1449	252	6.44		268	7.67		283	8.92		298	10.18		310	11.43		322	12.70		334	13.99		354	16.66		375	19.42	
63000	1691	285	9.25	83	299	10.63	87	312	12.08	89	324	13.52	91	338	15.00	93	349	16.44	93	359	17.91	95	380	20.89	97	400	23.93	99
72000	1932	320	12.91	84	331	14.40	88	342	16.00	90	353	17.65	92	366	19.32	94	377	20.99	94	387	22.64	96	407	25.99	98	425	29.37	100
81000	2174	355	17.52		365	19.14		374	20.87		384	22.67		394	24.53		405	26.39		415	28.27		435	32.01		452	35.76	
90000	2415	391	23.25	85	399	24.98	89	407	26.81	91	416	28.75	93	425	30.75	95	435	32.81	95	444	34.87	97	462	39.04	99	480	43.21	102
99000	2657	428	30.17		435	32.01		442	33.97		449	36.02		457	38.15		466	40.35		474	42.59	98	491	47.15		508	51.73	
108000	2899	465	38.44		471	40.41	90	477	42.47		483	44.64	94	490	46.89	96	497	49.21	96	505	51.59		521	56.49	100	537	61.46	
117000	3140	502	48.16	87	507	50.24	91	513	52.43	92	518	54.71	95	524	57.06	97	530	59.50	97	538	62.01	99	551	67.20	101	567	72.53	103

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
40000	1074	387	18.90	99	430	24.06	101																					
42000	1127	390	19.71		431	25.05																						
44000	1181	393	20.56		433	26.04		471	31.74	104																		
46000	1235	397	21.43	100	435	27.06	102	472	32.93	105																		
48000	1288	400	22.33		438	28.10		474	34.11		509	40.32	105															
50000	1342	404	23.26		441	29.17		476	35.34		510	41.69																
52000	1396	408	24.24		444	30.27		479	36.59		512	43.10		544	49.80	107												
54000	1449	412	25.25		447	31.42		481	37.85		514	44.52		546	51.40		576	58.41	109									
63000	1691	435	30.30	101	467	37.00	103	497	44.03	106	528	51.31	106	557	58.83	108	585	66.56	110	613	74.46	110	640	82.50	110	665	90.70	112
72000	1932	459	36.31	102	489	43.55	104	519	51.11	107	547	58.96	107	574	67.05	109	599	75.39	111	625	83.93	111	650	92.65	111	675	101.55	113
81000	2174	485	43.36	103	515	51.20	105	542	59.30		569	67.66		593	76.31		618	85.20		642	94.32		665	103.66		688	113.18	
90000	2415	512	51.54	104	541	60.02	106	568	68.69	108	592	77.63	108	617	86.81	110	640	96.23	112	662	105.89	112	684	115.77	112	706	125.85	114
99000	2657	539	60.89		568	70.09		593	79.40		618	88.93		641	98.67		663	108.62		685	118.82		706	129.24		726	139.86	
108000	2899	567	71.45		594	81.44		620	91.48		644	101.65		666	112.00		688	122.53		710	133.27		729	144.23		749	155.39	
117000	3140	594	83.35	105	622	94.16	107	647	104.99	109	671	115.86	109	693	126.85	111	714	138.02	113	734	149.34	113	754	160.84	113	774	172.56	115
126000	3382	623	96.64		650	108.30		675	119.94		698	131.61		720	143.31		741	155.14		761	167.10		780	179.21		798	191.48	
135000	3623	653	111.50		679	123.95		702	136.46		725	148.94		747	161.43		767	173.96		787	186.59		806	199.36		824	212.24	
144000	3865	684	128.06		708	141.26		730	154.59		753	167.92		775	181.22		795	194.54		815	207.92		833	221.36		851	234.90	
153000	4106	715	146.50		737	160.36		759	174.46		781	188.63		802	202.79		822	216.94		842	231.09		860	245.26		878	259.52	
162000	4348	748	166.96		768	181.40		789	196.23		810	*211.21*		830	226.21		850	241.18		869	256.17		887	271.15		904	286.14	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
72000	1932	698	110.58	113	722	119.77	113	746	129.07	115	768	138.48	115															
81000	2174	711	122.86		733	132.72		755	142.71		777	152.82		819	173.44	117	859	194.53	117									
90000	2415	727	136.15	114	748	146.60	114	768	157.21	116	789	168.00	116	829	189.96	118	867	212.45	118	905	235.37	118	942	258.67	121			
99000	2657	747	150.70		766	161.71		786	172.91		805	184.28		843	207.49		880	231.27		916	255.55		951	280.27		986	305.40	121
108000	2899	768	166.74		787	178.30		805	190.05		824	201.97		860	226.32		895	251.30		929	276.82		963	302.85		996	329.34	
117000	3140	792	184.45	115	811	196.53	115	828	208.82	117	846	221.27	117	880	246.72	119	914	272.82	119	946	299.49	119	979	326.75	122	1009	354.48	122
126000	3382	817	203.94		834	216.57		852	229.39		868	242.37		901	268.87		933	296.05		965	323.84		996	352.22		1026	381.13	
135000	3623	843	225.29		859	238.50		877	251.87		893	265.39		925	292.98		956	321.22		986	350.07		1016	379.53		1044	409.56	
144000	3865	868	248.57		885	262.39		901	276.34		918	290.45		949	319.12		980	348.43		1008	378.37		1037	408.90		1065	439.99	
153000	4106	895	273.87		912	288.33		928	302.90		943	317.61		974	347.42		1004	377.87		1032	408.87		1060	440.45		1088	472.63	
162000	4348	922	301.22		938	316.35		955	331.61		970	346.96		1000	378.00		1029	409.56		1057	441.68		1085	474.38		1110	507.60	
171000	4589	949	330.67	116	965	346.55	116	982	362.49	118	997	378.53	118	1026	410.85	120	1055	443.64	120	1083	476.92	120	1109	510.74	123	1135	545.05	123
180000	4831	976	362.28		993	378.93		1008	395.63		1024	412.37		1053	446.07		1082	480.16		1108	514.66		1134	549.63		1160	585.07	
189000	5072	1004	396.12	117	1020	413.57	117	1035	431.06	119	1051	448.57	119	1079	483.71	121	1107	519.14	121	1134	554.93		1161	591.14				
198000	5314	1032	432.23		1048	450.54		1063	468.84		1078	487.15		1107	523.83		1135	560.69		1161	597.83	121						
207000	5556	1060	470.74		1075	489.90		1091	509.05		1105	528.16		1134	566.45		1162	604.83										

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™
DWDI 660

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
66"	52.30 SQ. FT.	45.08 SQ. FT.	F.P.M. =17.30 x RPM	684.1 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
36000	799	159	2.45	81	177	3.34	85	194	4.27	87	208	5.24	89	224	6.27	91	237	7.35	91	251	8.44	93	277	10.72	95			
39000	865	166	2.82		183	3.73		199	4.72		214	5.75		228	6.81		241	7.93		254	9.09		279	11.47		303	13.98	97
42000	932	172	3.20		190	4.19		205	5.20		219	6.27		233	7.41		246	8.57		259	9.77		282	12.27		305	14.87	
45000	998	179	3.63	82	197	4.69	86	212	5.75	88	226	6.88	90	239	8.03	92	251	9.25	92	263	10.50	94	286	13.09	96	308	15.81	98
48000	1065	186	4.11		203	5.22		218	6.34		232	7.52		244	8.71		256	9.98		268	11.27		290	13.97		312	16.77	
51000	1131	194	4.62		210	5.79		225	6.99		238	8.20		250	9.47		263	10.75		274	12.10		295	14.87		316	17.80	
54000	1198	201	5.19		217	6.44		232	7.67		245	8.95		256	10.26		269	11.60		279	12.98		301	15.85		320	18.87	
57000	1264	208	5.79	83	224	7.12	87	238	8.44	89	251	9.76	91	264	11.12	93	275	12.50	93	285	13.94	95	306	16.90	97	325	20.00	99
60000	1331	215	6.46		231	7.84		245	9.23		259	10.63		270	12.04		281	13.47		291	14.97		311	18.00		331	21.19	
63000	1398	224	7.19		238	8.64		252	10.09		265	11.55		277	13.02		287	14.52		298	16.05		317	19.19		336	22.46	
66000	1464	232	7.98		245	9.49		260	11.01		272	12.54		283	14.07		295	15.61		305	17.20		323	20.42		342	23.79	
76000	1686	259	11.10	84	271	12.78	88	283	14.52	90	295	16.28	92	306	18.04	94	316	19.79	94	327	21.56	96	345	25.15	98	363	28.84	100
86000	1908	287	15.10		298	16.91		308	18.83		319	20.81		330	22.79		340	24.78		349	26.76		368	30.77		384	34.79	
96000	2130	317	20.09	85	325	22.00	89	335	24.06	91	344	26.22	93	353	28.43	95	364	30.65	95	373	32.88	97	390	37.30	99	407	41.75	101
106000	2351	347	26.15		354	28.19		362	30.40		370	32.68		379	35.08		387	37.49		397	39.94		413	44.85		430	49.76	
116000	2573	378	33.42	86	384	35.61	90	390	37.92	92	398	40.35	94	405	42.87	96	413	45.47	96	421	48.12	98	437	53.48	100	453	58.85	102
126000	2795	408	42.00		414	44.32		419	46.76		425	49.33		433	51.97		440	54.73		447	57.55		461	63.29		477	69.13	103
136000	3017	439	52.04		444	54.49		449	57.06		455	59.74		460	62.52		467	65.41		474	68.36		487	74.47	101	501	80.69	
146000	3239	470	63.59	87	475	66.18	91	479	68.90	93	484	71.69	95	489	74.60	97	495	77.60	97	501	80.69	99	513	87.10		525	93.70	
156000	3461	501	76.80		505	79.54		510	82.39		514	85.33		519	88.36		524	91.47		529	94.70		540	101.37		552	108.29	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
51000	1131	355	23.93	100	391	30.41	102																					
54000	1198	358	25.21		394	31.90		428	38.85	104																		
57000	1264	362	26.54	101	397	33.43	103	430	40.64	105																		
60000	1331	366	27.91		400	35.04		433	42.45		464	50.11	105															
63000	1398	371	29.38		404	36.67		435	44.32		466	52.22		494	60.33	108												
66000	1464	376	30.88		408	38.39		439	46.24		468	54.35		496	62.72		524	71.27	110									
76000	1686	394	36.52	102	424	44.62	104	452	53.10	106	480	61.90	107	506	71.00	109	531	80.33	111	557	89.87	111	581	99.58	111	605	109.49	113
86000	1908	415	43.13		443	51.83		470	60.89		494	70.33		519	80.07		544	90.07		567	100.34		590	110.82		613	121.48	
96000	2130	437	50.80	103	464	60.12	105	488	69.81	107	503	79.83	108	536	90.17	110	558	100.81	112	581	111.70	112	603	122.88	112	623	134.26	114
106000	2351	458	59.61		485	69.63		510	79.95		533	90.57		555	101.51		576	112.72		597	124.25		617	136.02		638	148.06	
116000	2573	481	69.58	105	507	80.39	107	531	91.40	109	553	102.66	109	575	114.19	111	595	126.02	113	615	138.13	113	634	150.50	113	654	163.13	115
126000	2795	505	80.78		529	92.44		553	104.22		575	116.17		596	128.37		616	140.80		636	153.52		654	166.48		672	179.71	
136000	3017	527	93.28		552	105.86		576	118.45		597	131.17		618	144.07		638	157.18		656	170.51		674	184.09		692	197.90	
146000	3239	551	107.17		576	120.67		598	134.17		620	147.71		640	161.36		659	175.18		678	189.19		695	203.40		712	217.85	
156000	3461	576	122.56		599	136.99		621	151.42		643	165.84		662	180.31		681	194.89		699	209.62		717	224.52		733	239.61	
166000	3682	600	139.58		623	154.89		645	170.27		665	185.61		685	200.96		703	216.36		722	231.86		739	247.49		755	263.28	
176000	3904	626	158.40		648	174.51		668	190.80		689	207.09		708	223.36		726	239.62		745	255.96		761	272.36		778	288.89	
186000	4126	653	179.15		673	195.99		692	213.14		713	230.35		731	247.56		750	264.74		767	281.95		784	299.19		800	316.51	
196000	4348	680	201.98	106	698	219.47	108	717	237.39	110	736	255.50	110	755	273.65	112	773	291.78	114	790	309.90	114	806	328.03	114	823	346.19	116
206000	4570	707	227.02		724	245.10		743	263.74		760	282.69		779	301.76		796	320.82		813	339.88		829	358.91		846	377.97	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
86000	1908	634	132.34	113	656	143.36	113	677	154.51	115																		
96000	2130	644	145.85	114	664	157.60	114	685	169.56	116	705	181.66	116	743	206.30	118												
106000	2351	657	160.30		677	172.78		695	185.44		714	198.28		751	224.45		786	251.19	118	821	278.47	118	855	306.21	120			
116000	2573	673	176.01	115	691	189.13	115	709	202.44	117	726	215.95	117	761	243.52	119	795	271.77	119	829	300.58	119	861	329.92	121	893	359.73	121
126000	2795	690	193.19		708	206.89		724	220.81		742	234.96		775	263.84		808	293.46		839	323.70		870	354.55		901	385.90	
136000	3017	709	211.97		726	226.27		743	240.79		758	255.54		790	285.65		822	316.55		852	348.14		882	380.35		912	413.15	
146000	3239	729	232.50		746	247.40		761	262.52		777	277.85		808	309.16		837	341.27		867	374.13		895	407.64		924	441.80	
156000	3461	750	254.90		765	270.41		782	286.14		796	302.07		826	334.55		855	367.84		884	401.91		911	436.68		938	472.11	122
166000	3682	771	279.24		787	295.38		802	311.74		817	328.28		846	361.97		874	396.44		901	431.68		928	467.64		954	504.30	
176000	3904	793	305.56		809	322.39		824	339.40		838	253.59		866	391.51		894	427.18		921	463.60		947	500.76		971	538.60	
186000	4126	816	333.95		830	351.49		846	369.18		860	387.04		888	423.26		915	460.17		940	497.79		965	536.13	122	990	575.15	
196000	4348	838	364.42	116	853	382.73	116	867	401.17	118	882	419.74	118	909	457.31	120	935	495.50	120	961	534.36	121	986	573.92	123			
206000	4570	861	397.04		876	416.18		890	435.39		904	454.71		931	493.70		957	533.26	121	982	573.41		1006	614.18				
216000	4791	884	431.85		898	451.84		913	471.88		926	492.00		953	532.51	121	979	573.47		1003	614.98							
226000	5013	906	468.93		921	489.81		935	510.73		949	531.69	119	975	573.78		1001	616.23										
236000	5235	930	508.33		945	530.14	117	958	551.95	119	971	573.76		998	617.54													
246000	5457	953	550.11	117	967	572.88		982	595.61		995	618.34																
256000	5679	976	594.42		991	618.11		1004	641.80																			

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

DWDI 730

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
73"	63.90 SQ. FT.	55.15 SQ. FT.	F.P.M.= 19.15 x RPM	1132 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
44000	798	143	3.00	81	160	4.07	85	175	5.22	87	188	6.42	89	202	7.66	91	214	8.97	91	227	10.33	93	250	13.12	95			
48000	870	150	3.47	82	166	4.62	86	180	5.82	88	194	7.09	90	206	8.40	92	218	9.77	92	230	11.18	94	252	14.12	96	274	17.18	98
52000	943	157	4.01		173	5.22		186	6.49		200	7.81		211	9.18		222	10.61		234	12.10		255	15.17		276	18.39	
56000	1015	164	4.58		179	5.89		193	7.21		205	8.60		217	10.04		228	11.53		239	13.07		260	16.29		279	19.64	
60000	1088	171	5.23	83	186	6.62	87	200	8.03	89	211	9.49	91	222	10.98	93	234	12.52	93	244	14.12	95	264	17.47	97	283	20.96	99
70000	1269	188	7.15		203	8.77		216	10.38		228	12.01		239	13.68		248	15.39		259	17.14		277	20.78		295	24.57	
80000	1451	208	9.56	84	220	11.38	88	233	13.25	90	244	15.08	92	0	16.95	94	265	18.83	94	274	20.74	96	291	24.68	98	308	28.77	100
90000	1632	228	12.58	85	239	14.56	89	250	16.64	91	262	18.72	93	272	20.81	95	281	22.90	95	290	24.99	97	307	29.27	99	323	33.68	101
100000	1813	249	16.25		259	18.40		269	20.66		279	22.98		288	25.28		299	27.59		307	29.90		323	34.58		339	39.32	
110000	1995	271	20.70		278	22.98		287	25.40		297	27.91		306	30.46		315	32.99		324	35.55		340	40.63		355	45.75	
120000	2176	293	26.01	86	300	28.40	90	307	30.94	92	316	33.63	94	324	36.37	96	333	39.15	96	341	41.92	98	357	47.47	100	372	53.01	102
130000	2357	31	32.21		321	34.72		328	37.41		336	40.23		343	43.15		351	46.12		359	49.11		375	55.14		389	61.15	
140000	2539	337	39.40		343	42.04		349	44.84		355	47.79		363	50.87		370	54.02		377	57.22		392	63.70		406	70.16	
150000	2720	359	47.65		365	50.43		371	53.35		376	56.43		382	59.64		389	62.93		396	66.32		410	73.19		423	80.14	
160000	2901	382	57.03		387	59.95		392	63.01		398	66.21		403	69.55		409	72.98		415	76.51		428	83.76		441	91.14	
170000	3083	405	67.64		410	70.68		414	73.87		419	77.20		424	80.66		430	84.23		436	87.90		447	95.47		459	103.25	
180000	3264	428	79.52		432	82.72		437	86.05		441	89.50		446	93.08		450	96.76		455	100.57		467	108.44		478	116.55	103
190000	3445	451	92.76	87	455	96.11	91	458	99.58	93	462	103.15	95	468	106.86	97	472	110.67	97	477	114.60	99	486	122.73	101	497	131.18	104
200000	3626	474	107.47	88	478	110.94	92	481	114.55	94	485	118.27	96	489	122.10	98	493	126.03	98	497	130.09	100	507	138.47	102	517	147.22	
210000	3808	497	123.66		501	127.30		504	131.05		508	134.89		511	138.85		515	142.91		519	147.09		527	155.74		537	164.73	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
70000	1269	328	32.59	101	358	41.05	103	389	49.87	105	417	58.99	105															
80000	1451	339	37.41	102	368	46.53	104	396	56.08	106	422	65.96	106	448	76.12	107	474	86.54	111									
90000	1632	352	42.90	103	379	52.62	105	406	62.83	107	431	73.41	107	455	84.31	108	479	95.50	112	502	106.94	112	524	118.60	112			
100000	1813	367	49.15		392	59.48		417	70.29		441	81.49		465	93.08	109	486	104.99		508	117.17		529	129.62		550	142.27	114
110000	1995	382	56.28		408	67.21		431	78.60		453	90.42		475	102.63	110	496	115.18		517	128.04		538	141.21		557	154.61	
120000	2176	399	64.27	104	423	75.86	106	446	87.87	108	468	100.27	108	488	113.07	111	508	126.24	113	527	139.75	113	547	153.56	113	565	167.66	115
130000	2357	415	73.22		439	85.52		461	98.16		482	111.17	109	502	124.56		521	138.32		540	152.43		558	166.86		577	181.60	
140000	2539	432	83.11		455	96.19		477	109.52	109	497	123.17		517	137.15		536	151.52		554	166.22		572	181.24		588	196.59	
150000	2720	449	94.02		472	107.92		493	121.98		513	136.32		533	150.96		550	165.92		569	181.21		585	196.84		602	212.78	
160000	2901	466	105.95		489	120.75		510	135.61		529	150.68		548	165.98		565	181.60		583	197.50		599	213.73		616	230.26	
170000	3083	483	118.97	105	506	134.68	107	526	150.43		546	166.27		564	182.31		582	198.59		598	215.14		615	231.99		630	249.12	
180000	3264	501	133.16		523	149.80		544	166.46		562	183.13		581	199.94		598	216.94		615	234.18		630	251.66		646	269.41	
190000	3445	519	148.58	106	540	166.15	108	560	183.66	110	580	201.29	110	597	218.94	112	615	236.69	114	631	254.65	114	647	272.82	114	662	291.22	116
200000	3626	538	165.32		558	183.79		578	202.30		596	220.80		614	239.30		631	257.88		648	276.59		663	295.48		678	314.57	
210000	3808	556	183.49		576	202.80		595	222.25		614	241.67		631	261.08		648	280.52		664	300.05		680	319.69		694	339.51	
220000	3989	575	203.22		594	223.28		613	243.61		630	263.98		648	284.32		664	304.65		681	325.03		696	345.49		711	366.07	
230000	4170	594	224.55		613	245.33		630	266.50		648	287.79		665	309.06		682	330.33		697	351.60		713	372.89		727	394.29	
240000	4352	615	247.62		631	269.02		649	290.98		666	313.15		683	335.39		699	357.57		715	379.77		729	401.96		744	424.18	
250000	4533	636	272.50		651	294.49		667	317.17		684	340.18		700	363.32		716	386.47		731	409.59		747	432.68		761	455.80	
260000	4714	656	299.25		671	321.82		686	345.16		702	368.97		718	392.97		733	417.04		749	441.12		763	465.15		778	489.17	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
120000	2176	584	182.00	115	603	196.60	115	621	211.39	117	639	226.39	117	673	256.92	119	707	288.14	119									
130000	2357	594	196.60		612	211.88		629	227.38		646	243.11		679	275.17		711	307.95		743	341.37	119	774	375.36	121			
140000	2539	606	212.21		622	228.12		639	244.30		655	260.71		687	294.19		718	328.45		748	363.41		778	399.01		806	435.18	121
150000	2720	618	229.00		634	245.52		650	262.32		665	279.37		696	314.17		726	349.83		755	386.26		784	423.37		812	461.11	
160000	2901	631	247.07		647	264.20		662	281.58		678	299.24		707	335.31		735	372.29		764	410.10		792	448.64		819	487.87	
170000	3083	646	266.52		661	284.24		676	302.21		690	320.46		719	357.75		747	395.99		774	435.09		800	475.01		827	515.64	
180000	3264	661	287.43		676	305.73		690	324.32		705	343.18		732	381.63		759	421.07		785	461.43		811	502.63		836	544.59	
190000	3445	677	309.89	116	691	328.81	116	706	347.99	118	719	367.42	118	746	407.07	120	773	447.70	120	797	489.25	120	823	531.69	122	847	574.92	122
200000	3626	692	333.88		707	353.45		720	373.24		734	393.31		760	434.15		786	475.94		811	518.69		835	562.33		859	606.79	
210000	3808	709	359.53		722	379.74		736	400.20		750	420.88		776	462.94		800	505.95		824	549.86		849	594.68		871	640.35	
220000	3989	725	386.83		739	407.75		752	428.86		765	450.19		791	493.50		815	537.73		838	582.85		862	628.84		885	675.69	
230000	4170	742	415.81		755	437.46		768	459.30		781	481.30		806	525.94		830	571.39		854	617.73		877	664.91		899	712.94	
240000	4352	758	446.51		771	468.94		785	491.52		797	514.25		822	560.24		846	606.98		869	654.57		891	702.96		914	752.18	
250000	4533	775	478.97		788	502.21		801	525.56		814	549.03		838	596.45		862	644.55		885	693.42		906	743.05		928	793.48	
260000	4714	791	513.22		804	537.31		818	561.47		830	585.73		855	634.64		879	684.15		900	734.33		922	785.24		943	836.91	123
270000	4896	809	549.29		822	574.26		834	599.27		847	624.36		871	674.83		894	725.79		917	777.35		938	829.58		959	882.52	
280000	5077	825	587.23		838	613.11		852	639.01		864	664.94		888	717.01		911	769.50		933	822.51		954	876.12	123			
290000	5258	843	627.09		856	653.91		868	680.70		881	707.53		904	761.28		927	815.36		950	869.86	121						
300000	5440	860	668.93		872	696.66		886	724.40		898	758.31		922	807.64		945	863.37	121	966	919.43							
310000	5621	878	712.78		890	741.48		902	770.15		915	778.20		938	856.11	121	961	913.55										

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™
DWDI 807

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
80 3/4"	78.04 SQ. FT.	67.48 SQ. FT.	F.P.M.= 21.14 x RPM	1876 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
55000	815	131	3.81	82	146	5.14	86	160	6.54	88	171	8.03	90	183	9.60	92	195	11.22	92	206	12.88	94	227	16.34	96			
60000	889	137	4.42	83	151	5.83	87	165	7.31	89	176	8.89	91	187	10.52	93	199	12.21	93	209	13.97	95	229	17.61	97	248	21.40	99
65000	963	143	5.09		158	6.60		170	8.18		181	9.82		193	11.53		203	13.30		213	15.12		232	18.94		250	22.93	
70000	1037	150	5.84		164	7.47		176	9.12		187	10.85		198	12.62		208	14.48		217	16.39		236	20.35		253	24.50	
75000	1111	157	6.68	84	170	8.40	88	182	10.18	90	193	11.96	92	203	13.82	94	213	15.74	94	222	17.73	96	240	21.85	98	258	26.18	100
80000	1186	163	7.60		176	9.45		188	11.31		199	13.19		209	15.13		218	17.14		228	19.19		244	23.46		261	27.93	
85000	1260	170	8.60		182	10.57		195	12.54		205	14.53		215	16.55		225	18.62		233	20.76		249	25.19		266	29.82	
90000	1334	176	9.72	85	190	11.80	89	201	13.88	91	211	15.98	93	220	18.09	95	230	20.25	95	239	22.46	97	254	27.04	99	270	31.80	101
95000	1408	183	10.95		196	13.12		207	15.33		217	17.52		227	19.73		236	21.99		244	24.28		261	29.00		275	33.92	
100000	1482	191	12.27		202	14.55		213	16.87		224	19.19		233	21.51		242	23.83		250	26.22		266	31.12		281	36.17	
105000	1556	198	13.75		209	16.10		219	18.54		230	20.96		239	23.39		248	25.82		256	28.29		272	33.36		286	38.58	
110000	1630	206	15.33		216	17.78		227	20.32		236	22.87		245	25.41		254	27.95		263	30.53		278	35.75		291	41.13	
115000	1704	213	17.07	86	222	19.58	90	233	22.22	92	243	24.90	94	251	27.55	96	261	30.20	96	269	32.88	98	283	38.29	100	298	43.85	102
120000	1778	221	18.94		230	21.55		240	24.28		249	27.05		259	29.82		267	32.59		275	35.37		289	40.97		304	46.70	
125000	1852	229	20.99		238	23.65		246	26.45		255	29.33		265	32.22		273	35.11		281	38.01		296	43.82		310	49.73	
130000	1926	237	23.19		245	25.89		253	28.80		263	31.78		271	34.78		279	37.78		287	40.79		302	46.82		315	52.91	
135000	2001	245	25.53		252	28.33		261	31.28		269	34.37		277	37.48		285	40.60		294	43.73		308	49.98		321	56.26	
140000	2075	253	28.07		261	30.91		268	33.95		276	37.11		284	40.35		293	43.58		300	46.82		314	53.29		328	59.78	
160000	2371	286	40.04		291	43.13		298	46.42		305	49.87		311	53.46		318	57.11		325	60.81		340	68.23		352	75.62	
180000	2667	319	55.23		324	58.60		330	62.13		335	65.86		341	69.72		347	73.71		353	77.80		366	86.07		378	94.40	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
80000	1186	293	37.38	102	321	47.34	104	349	57.68	106																		
85000	1260	296	39.57		324	49.88		351	60.64																			
90000	1334	300	41.89	103	328	52.55	105	353	63.65	107	379	75.15	107															
95000	1408	304	44.31		331	55.30		356	66.76		381	78.64		405	90.86	109												
100000	1482	308	46.87		335	58.16		359	69.98		383	82.24		407	94.83		428	107.74	111									
105000	1556	313	49.56		339	61.17		363	73.32		386	85.92		409	98.90		431	112.20		452	125.80	111						
110000	1630	318	52.42		343	64.32		367	76.79		389	89.71		411	103.06		433	116.74		453	130.74		474	145.00	112			
115000	1704	323	55.41	104	348	67.62	106	371	80.40	108	392	93.66	108	414	107.34	110	436	121.40	112	455	135.76	112	476	150.43	113	495	165.35	115
120000	1778	330	58.60		352	71.10		375	84.16		397	97.75		418	111.76		439	126.18		458	140.91		478	155.94		496	171.27	
125000	1852	335	61.94		358	74.74		380	88.11		401	101.99		421	116.33		442	131.07		461	146.17		480	161.59		499	177.28	
130000	1926	341	65.46		364	78.57		385	92.23		406	106.41		425	121.07		445	136.12		465	151.57		483	167.35		502	183.43	
135000	2001	346	69.16		369	82.58		390	96.53		410	111.01		431	125.98		449	141.37		468	157.14		486	173.26		504	189.68	
140000	2075	352	73.05		375	86.78		396	101.03		415	115.80		435	131.07		453	146.78		472	162.86	113	489	179.33		507	196.10	
160000	2371	377	90.45		398	105.58		418	121.12		437	137.09		455	153.53		472	170.42	113	489	187.75		506	205.46		522	223.54	
180000	2667	402	111.04		422	127.76		442	144.72		459	162.00		477	179.67	111	493	197.76		510	216.26		525	235.16		541	254.46	
200000	2964	426	134.99	105	447	153.47	107	467	172.02		484	190.79	110	501	209.81		517	229.19	114	531	248.25	114	547	269.04	114	561	289.51	116
220000	3260	452	162.56		473	182.93	108	491	203.26	110	509	223.64		525	244.19		541	264.98		555	286.05		570	307.42		584	329.13	
240000	3557	479	194.19	106	499	216.38		516	238.58		534	260.75		549	282.99		564	305.32		580	327.86		593	350.62		608	373.65	
260000	3853	507	230.35		524	254.21		542	278.29		558	302.34		575	326.38		589	350.43		604	374.57		618	398.86		631	423.33	
280000	4149	536	271.62		552	296.92		569	322.71		584	348.64		599	374.54	112	615	400.42		629	426.31		643	452.27		656	478.31	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
120000	1778	515	186.81	115																								
125000	1852	517	193.25		535	209.43	115																					
130000	1926	519	199.76		537	216.36		554	233.16	117	571	250.20	117															
135000	2001	521	206.40		539	223.38		555	240.59		573	258.03																
140000	2075	524	213.19		541	230.54		557	248.14		574	265.98		606	302.26	119												
160000	2371	538	241.98		554	260.71		570	279.77		584	299.08		614	338.44		644	378.69	119	672	419.73	119	699	461.47	121			
180000	2667	555	274.10		571	294.11		585	314.44		598	335.09		627	377.22		654	420.36		681	464.45		707	509.32		732	554.94	121
200000	2964	576	310.35	116	589	331.53	116	604	353.06	118	617	374.92	118	643	419.58	120	668	465.36	120	693	512.19	120	718	559.93	122	743	608.52	122
220000	3260	597	351.18		611	373.56		624	396.28		637	419.32		661	466.35		686	514.59		710	563.93		733	614.31		756	665.63	
240000	3557	620	396.99		633	420.61		646	444.55		658	468.78		682	518.19		706	568.80		728	620.54		751	673.36		773	727.19	
260000	3853	644	448.04		657	473.00		670	498.21		681	523.71		705	575.54		727	628.54		749	682.64		769	737.83		791	794.08	
280000	4149	668	504.52		681	530.92		693	557.53		705	584.36		727	638.78		749	694.23		770	750.75		791	808.31		811	866.92	
300000	4446	693	566.65		706	594.60		717	622.71		728	650.98		751	708.15		773	766.22		793	825.24		813	885.23		832	946.21	
320000	4742	718	634.55		730	664.19		742	693.92		753	723.75		775	783.87		796	844.72		817	906.38		836	968.92		855	1032.37	
340000	5039	743	708.45		755	739.87		766	771.34		778	802.84		799	866.13		820	929.96		840	994.43		859	1059.66				
360000	5335	768	788.59		780	821.86		791	855.14		802	888.42		824	955.09		845	1022.09		864	1089.58							
380000	5631	794	875.24		805	910.42		817	945.56		828	980.68		849	1050.93		869	1121.33										
400000	5927	820	968.83		831	1005.87		843	1042.91		853	1079.91		874	1153.87													
420000	6223	847	1069.78		858	1108.62		868	1147.50																			

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

DWDI 890

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
89"	94.60 SQ. FT.	81.98 SQ. FT.	F.P.M. = 23.30 x RPM	3050 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
66000	805	118	4.54	83	132	6.13	87	144	7.83	89	156	9.63	91	166	11.51	93	176	13.47	93	186	15.48	95	206	19.64	97			
72000	878	124	5.25	84	137	6.95	88	148	8.76	90	160	10.64	92	170	12.61	94	179	14.66	94	190	16.77	96	207	21.16	98	226	25.73	100
78000	951	130	6.05		142	7.88		153	9.76		164	11.73		174	13.79		183	1594.44		193	18.14		210	22.74		227	27.55	
84000	1025	135	6.94		147	8.89		159	10.89		169	12.96		178	15.10		187	17.32		197	19.63		213	24.42		230	29.44	
90000	1098	141	7.92	85	153	10.00	89	164	12.10	91	174	14.28	93	183	16.52	95	193	18.84	95	201	21.23	97	217	26.21	99	233	31.43	101
96000	1171	146	9.01		159	11.22		170	13.46		179	15.74		188	18.07		197	20.48		205	22.95		221	28.11		236	33.51	
102000	1244	152	10.19		165	12.56		175	14.91		185	17.29		194	19.75		202	22.25		210	24.82		226	30.15		240	35.74	
108000	1317	159	11.49		170	13.99		181	16.49		191	19.00		199	21.55		207	24.15		215	26.81		230	32.33		244	38.09	
114000	1391	165	12.93	86	176	15.56	90	186	18.20	92	196	20.84	94	205	23.50	96	213	26.19	96	220	28.96	98	235	34.66	100	249	40.60	102
120000	1464	172	14.50		182	17.25		193	20.01		202	22.80		210	25.57		218	28.40		226	31.26		240	37.15		253	43.28	
126000	1537	178	16.23		188	19.07		198	21.99		207	24.90		215	27.82		224	30.75		231	33.73		245	39.81		259	46.11	
132000	1610	184	18.10		195	21.03		204	24.09		213	27.14		221	30.20		229	33.25		237	36.34		250	42.64		264	49.13	
138000	1683	192	20.13		201	23.18		209	26.34		218	29.53		227	32.72		235	35.92		242	39.11		255	45.64		269	52.31	
144000	1757	199	22.33		207	25.45		215	28.75		225	32.07		233	35.40		240	38.72		247	42.07		262	48.81		274	55.69	
164000	2000	222	31.02		229	34.40		237	38.01		244	41.75		251	45.54		260	49.34		267	53.12		279	60.71		291	68.36	
184000	2244	247	41.98		252	45.61		259	49.47		265	53.53		272	57.72		279	61.95		285	66.22		299	74.73		310	83.23	
204000	2488	271	55.46	87	276	59.33	91	281	63.47	93	287	67.78	95	293	72.29	97	299	76.91	97	305	81.59	99	317	91.02	101	330	100.47	103
224000	2732	297	71.74		301	75.89		305	80.27		310	84.84		315	89.61		320	94.54		325	99.58		337	109.85		348	120.21	
244000	2976	321	91.09		325	95.52		329	100.16		334	104.99		338	110.00		343	115.20		347	120.54		357	131.52		368	142.75	
264000	3220	347	113.80		350	118.51		353	123.40		357	128.49		362	133.76		366	139.19		370	144.81		379	156.41		388	168.35	

CFM	OV	2" SP			2-1/2" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
96000	1171	265	44.90	103	291	56.91	105																					
102000	1244	268	47.52		294	59.96		318	72.91	107																		
108000	1317	271	50.24		296	63.12		320	76.53		343	90.38	107															
114000	1391	275	53.14	104	299	66.38	106	322	80.24	108	345	94.55	108	367	109.27	110												
120000	1464	279	56.17		303	69.80		325	84.05		347	98.82		369	114.02		388	129.58	112									
126000	1537	283	59.35		306	73.36		329	88.01		349	103.22		370	118.86		390	134.91		410	151.30	112						
132000	1610	287	62.73		310	77.09		332	92.12		352	107.74		373	123.84		392	140.34		411	157.20		430	174.39	112			
138000	1683	293	66.28		314	81.01		336	96.41		355	112.42		375	128.94		394	145.87		413	163.20		431	180.88		449	198.85	114
144000	1757	297	70.04		318	85.12		339	100.88		359	117.27		378	134.19		397	151.55		415	169.33		433	187.47		450	205.93	
164000	2000	314	84.02		335	100.32		354	117.27		373	134.86		390	153.04		408	171.73		424	190.90		441	210.48		457	230.44	
184000	2244	332	100.41		352	118.03		371	136.22		387	154.99		405	174.36		421	194.27		437	214.68		452	235.57		468	256.87	
204000	2488	350	119.35	105	370	138.45	107	387	157.97	109	405	177.99	109	420	198.55	111	436	219.64	113	451	241.25	113	466	263.34	113	480	285.90	116
224000	2732	369	140.93		388	161.69		406	182.69		422	204.06		438	225.89		452	248.19		467	270.99		481	294.27	114	494	318.01	
244000	2976	388	165.32		407	187.87		424	210.50		440	233.38		455	256.58		470	280.17	114	483	305.25	114	497	328.69		510	353.63	
264000	3220	408	192.72		425	217.15		443	241.55		458	266.04		473	290.75	112	487	315.76		501	341.12		514	366.89		527	393.05	
284000	3464	427	223.39		445	249.68		461	275.95		477	302.19	110	491	328.55		506	355.08		519	381.87		531	408.99		544	436.46	
304000	3708	448	257.69		465	285.70		480	313.86	110	495	341.96		510	370.06		524	398.26		537	426.61		550	455.19		562	484.06	
324000	3952	469	295.95		484	325.54	108	500	355.51		515	385.50		528	415.46		543	445.40		555	475.42		569	505.60		580	535.95	
344000	4196	490	338.53		505	369.54		519	401.19		534	433.02		548	464.86		561	496.67		574	528.46		586	560.32		598	592.29	
364000	4440	512	385.79	106	525	418.05		540	451.21		553	484.80		568	518.50		580	552.19		593	585.83		606	619.48		617	653.16	

CFM	OV	6-1/2" SP			7" SP			7-1/2" SP			8" SP			9" SP			10" SP			11" SP			12" SP			13" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
144000	1757	467	224.68	114																								
164000	2000	473	250.74	115	489	271.37	115	504	292.27	117	519	313.46	117															
184000	2244	482	278.60		497	300.67		512	323.07		525	345.80		553	392.06	119	581	439.34	119									
204000	2488	494	308.88	116	508	332.29	116	521	356.05	118	535	380.17	118	561	429.37	120	587	479.69	120	612	531.05	120	637	583.31	122	660	636.42	122
224000	2732	508	342.22		521	366.82		534	391.84		547	417.26		572	469.13		596	522.28		620	576.57		644	631.91		666	688.13	
244000	2976	523	379.02		536	404.81		548	431.02		560	457.65		584	512.02		607	567.78		630	624.78		652	682.93		675	742.12	
264000	3220	540	419.63		551	446.62		563	474.03		575	501.83		597	558.57		620	616.78		642	676.32		663	737.10		684	799.02	
284000	3464	556	464.29		569	492.52		580	521.13		591	550.11		613	609.23		634	669.81		655	731.78		676	795.03		696	859.51	
304000	3708	574	513.22		585	542.73		596	572.60		608	602.81		629	664.34		650	727.27		670	791.61		690	857.26		709	924.17	
324000	3952	592	566.55		604	597.44		614	628.63		625	66014.76		646	724.14		666	789.50		686	856.20		705	924.21		723	993.51	
344000	4196	610	624.43		621	656.79		632	689.38		643	722.26		663	788.88		683	856.72		702	925.86		721	996.25		739	1067.88	
364000	4440	628	686.95		640	720.87		650	754.98		660	789.29		681	858.68		700	929.15		719	1000.79		737	1073.62		755	1147.67	
384000	4684	647	754.23		658	789.82		668	825.55		679	861.41		699	933.77		718	1006.95		736	1081.22		754	1156.58		771	1233.06	
404000	4928	665	826.40		677	863.76		687	901.17		697	938.68		717	1014.11		736	1090.26		754	1167.28		771	1245.29				
424000	5172	685	903.64		695	942.81		706	982.02		716	1021.25		735	1099.96		754	1179.20		773	1259.15							
444000	5416	703	986.09		714	1027.16		724	1068.20		734	1109.23		754	1191.39		773	1273.90										
464000	5660	723	1074.02		733	1116.97		744	1159.87		753	1202.78		773	1288.54													

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

GT-GNN™

SWSI 105

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
10 1/2"	.677 SQ. FT.	.63 SQ. FT.	F.P.M. = 2.75 x RPM	.036 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			1-3/4" SP			2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
300	476	877	0.07	54	1058	0.03	59																											
400	635	939	0.03	55	1089	0.04		1232	0.06	61	1368	0.08	63	1494	0.10	65																		
500	794	1037	0.04	56	1159	0.06	60	1279	0.07	62	1398	0.09	64	1512	0.11	66	1623	0.13	66	1729	0.15	68	1926	0.21	70									
600	952	1153	0.05	57	1258	0.07	61	1359	0.09	63	1460	0.11	65	1559	0.13	67	1657	0.15	67	1754	0.18	69	1941	0.23		2116	0.29	75	2280	0.35	75			
700	1111	1278	0.07		1370	0.09		1460	0.11		1547	0.13		1634	0.15		1719	0.19		1805	0.21		1972	0.26	73	2136	0.32		2294	0.38		2444	0.43	77
800	1270	1410	0.10	58	1492	0.12	62	1573	0.14	64	1650	0.16	66	1727	0.19	68	1804	0.22	68	1879	0.24	72	999	0.30		2177	0.35	76	2323	0.42	76	2465	0.48	78
900	1429	1545	0.12	59	1621	0.15	63	1694	0.19	65	1764	0.21	67	1834	0.23	69	1902	0.26	71	1970	0.28	73	2105	0.34	75	2239	0.40	77	2371	0.46	77	2502	0.54	79
1000	1587	1684	0.16		1754	0.19		1821	0.22		1886	0.25	69	1950	0.27	71	2013	0.30		2074	0.33		2197	0.39		2319	0.45		2439	0.53		2559	0.59	
1100	1746	1824	0.21		1889	0.24	65	1952	0.26	67	2013	0.29		2071	0.32		2130	0.35		2188	0.38		2300	0.45		2411	0.52		2521	0.59		2632	0.67	
1200	1905	1967	0.26	62	2028	0.29	66	2086	0.32	68	2142	0.35	70	2198	0.38	72	2253	0.41	72	2306	0.44	74	2411	0.52	76	2514	0.59	78	2616	0.66	78	2718	0.73	80
1300	2063	2112	0.31		2168	0.34		2223	0.38		2276	0.41		2328	0.44		2379	0.48		2430	0.52		2528	0.59		2624	0.67		2720	0.74		2814	0.82	
1400	2222	2257	0.38		2309	0.41		2362	0.44		2411	0.48		2461	0.53		2509	0.56		2556	0.60		2650	0.67		2741	0.75		2830	0.83		2919	0.92	
1500	2381	2403	0.45	63	2442	0.49	67	2502	0.53	69	2549	0.57	71	2596	0.61	73	2642	0.65	73	2687	0.69	75	2775	0.77	77	2861	0.85	79	2946	0.94	79	3029	1.02	81
1600	2540	2550	0.55		2598	0.58		2643	0.62		2688	0.66		2733	0.70		2777	0.74		2819	0.78		2904	0.88		2985	0.96		3066	1.05		3042	1.21	
1700	2698	2698	0.64		2743	0.68		2786	0.72		2829	0.76		2872	0.80		2913	0.85		2954	0.90		3034	0.99		3113	1.08		3189	1.17		3265	1.33	
1800	2857	2846	0.75	64	2888	0.79	68	2930	0.83	70	2972	0.88	72	3012	0.93	74	3052	0.97	74	3090	1.02		3167	1.11	78	3242	1.21	80	3316	1.31	80	3388	1.41	82
1900	3016	2995	0.88		3035	0.92		3076	0.96		3115	1.01		3153	1.05		3191	1.10		3228	1.15	76	3302	1.25		3374	1.35		3444	1.45		3513	1.56	
2000	3175	3145	1.01		3183	1.05		3221	1.10		3258	1.14		3295	1.19		3332	1.25		3367	1.30		3438	1.40		3507	1.50		3575	1.62		3642	1.71	
2100	3333	3294	1.15		3331	1.21		3367	1.25		3403	1.30		3438	1.35		3473	1.40		3508	1.45		3576	1.57		3642	1.68		3708	1.78		3772	1.90	83
2200	3492	3443	1.32		3479	1.37		3513	1.42		3548	1.47		3582	1.52		3616	1.58		3649	1.63		3714	1.74		3779	1.85	81	3842	1.98	81	3904	2.10	

CFM	OV	2 1/4" SP			2 1/2" SP			2 3/4" SP			3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
800	1270	2602	0.56	80	2735	0.63	80																											
900	1429	2631	0.61	81	2757	0.68	81	2880	0.76	81	3000	0.84	83	3230	1.01	83																		
1000	1587	2677	0.67		2794	0.74		2911	0.82		3024	0.91		3246	1.08		3458	1.27	85	3661	1.46	87	3853	1.66	88									
1100	1746	2741	0.73		2849	0.81		2957	0.90		3063	0.98		3273	1.15		3477	1.35		3674	1.55		3864	1.75		4046	1.97	88	4221	2.18	90			
1200	1905	2818	0.81	82	2919	0.90	82	3019	0.98	82	3118	1.06	84	3315	1.25	84	3508	1.44	86	3697	1.64	88	3881	1.85	89	4059	2.07	89	4231	2.30	91	4399	2.63	91
1300	2063	2908	0.91		3001	0.99		3094	1.07		3187	1.16		3370	1.34		3552	1.53		3732	1.74		3908	1.96		4080	2.18		4248	2.42		4411	2.71	
1400	2222	3007	1.00		3093	1.09		3181	1.17		3266	1.27		3438	1.45		3609	1.66		3778	1.11	89	3946	2.08		4111	2.31		4272	2.54		4432	2.79	
1500	2381	3112	1.11	83	3196	1.21	83	3275	1.30	83	3357	1.39	85	3518	1.58	85	3678	1.78	87	3838	2.00	90	3996	2.21	90	4153	2.44	90	4272	2.69	92	4461	2.94	92
1600	2540	3223	1.24		3301	1.33		3378	1.42		3455	1.51		3607	1.72		3757	1.93	88	3909	2.14		4058	2.37		4207	2.60		4308	2.84		4500	3.13	
1700	2698	3339	1.36		3413	1.46		3487	1.57		3559	1.66		3703	1.86		3846	2.08		3988	2.31		4130	2.53		4271	2.77		4354	3.01				
1800	2857	3459	1.50	84	3530	1.61	84	3599	1.71	84	3669	1.82	86	3806	2.03	87	3942	2.26	89	4077	2.48	91	4211	2.71	91	4345	2.96	91	4411	3.20	93			
1900	3016	3582	1.67		3649	1.77		3716	1.87		3782	1.99	87	3913	2.20		4043	2.44		4172	2.67		4299	2.90		4427	3.15								
2000	3175	3707	1.83		3772	1.95	85	3837	2.06	85	3900	2.17		4025	2.40		4149	2.64		4272	2.87		4394	3.12		4516	3.37								
2100	3333	3835	2.02	85	3898	2.13		3959	2.25		4020	2.37		4141	2.61		4260	2.84		4378	3.09		4495	3.35										
2200	3492	3964	2.21		4025	2.33		4085	2.45		4144	2.58		4260	2.82		4374	3.07		4488	3.33													
2300	3651	4096	2.42	86	4154	2.54	86	4212	2.67	86	4269	2.80	88	4382	3.06	88	4492	3.32	90															
2400	3810	4228	2.65		4286	2.78		4341	2.90		4396	3.04		4505	3.31																			
2500	3968	4363	2.89		4418	3.03		4472	3.16		4526	3.30																						
2600	4127	4499	3.15																															

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

SWSI 122

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
12 1/4"	.920 SQ. FT.	.86 SQ. FT.	F.P.M. = 3.21 x RPM	.079 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
660	767	865	0.05	57	965	0.06	62	1057	0.08	0.08	64	1143	0.10	66	1225	0.12	66	1303	0.14	68	1378	0.16	70	1522	0.21	72								
720	837	906	0.05	58	1002	0.07	63	1090	0.08	0.08	65	1172	0.11	67	1250	0.13	67	1326	0.15	69	1398	0.18	71	1537	0.23	73	1668	0.28	75						
780	907	950	0.06	59	1041	0.08		1126	0.10	0.10		1205	0.12		1280	0.14		1352	0.16		1421	0.18		1554	0.23		1681	0.30							
840	977	995	0.07		1082	0.08		1163	0.11	0.11		1239	0.13		1312	0.15		1381	0.18		1448	0.21		1576	0.26		1698	0.31		1927	0.42	78			
900	1047	1041	0.08	60	1124	0.10	64	1202	0.12	0.12	66	1275	0.14	68	1345	0.18	68	1413	0.20	70	1478	0.21	72	1602	0.28	74	1719	0.33	76	1941	0.45	79	2148	0.60	81
960	1116	1089	0.08		1167	0.11		1242	0.14	0.14		1313	0.16		1381	0.18		1446	0.21		1509	0.23		1629	0.29		1743	0.35		1958	0.46		2159	0.62	
1020	1186	1137	0.11		1211	0.13		1283	0.15	0.15		1352	0.18		1418	0.21		1482	0.23		1543	0.26		1659	0.31		1770	0.36		1978	0.49		2173	0.65	
1080	1256	1187	0.12		1258	0.14		1327	0.18	0.18		1394	0.20		1457	0.23		1518	0.25		1578	0.28		1691	0.33		1798	0.39		2000	0.53		2191	0.66	
1140	1326	1236	0.14	61	1305	0.16	65	1371	0.18	0.18	67	1435	0.21	69	1497	0.25	69	16	0.27		1614	0.30	73	1724	0.35	75	1829	0.41	77	2026	0.56	80	2211	0.70	82
1200	1395	1286	0.15		1352	0.18		1416	0.21	0.21		1478	0.23		1538	0.27		1595	28.84	71	1652	0.31		1759	0.37		1862	0.44		2054	0.58		2234	0.72	
1260	1465	1338	0.18		1401	0.21		1463	0.23	0.23		1521	0.26		1580	0.29		1636	0.31		1691	0.35		1796	0.41		1895	0.46	78	2084	0.62		2259	0.75	
1320	1535	1391	0.20		1450	0.23		1509	0.26	0.26		1567	0.29		1623	0.31		1678	0.33		1730	0.36		1833	0.44		1931	0.49		2115	0.65		2286	0.80	
1380	1605	1442	0.21		1501	0.25		1557	0.28	0.28		1613	0.31		1667	0.33		1720	0.36		1772	0.40		1872	0.46		1967	0.54		2147	0.67		2314	0.83	
1580	1837	1619	0.31	62	1671	0.33	66	1721	0.37	0.37	68	1771	0.41	70	1819	0.44	70	1867	0.47	72	1915	0.52	75	2006	0.58	77	2095	0.66	79	2263	0.81	81	2421	0.97	83
1780	2070	1798	0.41		1846	0.45		1891	0.49	0.49	69	1935	0.54	71	1980	0.58	71	2023	0.62	73	2066	0.65		2151	0.72		2233	0.81		2390	0.97		2539	1.15	
1980	2302	1981	0.56	64	2023	0.60	68	2065	0.65	0.65	70	2105	0.68	72	2145	0.72	72	2186	0.77	74	2225	0.81	76	2302	0.91	78	2378	0.99	80	2526	1.16	82	2666	1.35	84
2180	2535	2163	0.71		2203	0.77		2241	0.82	0.82		2278	0.85		2315	0.91		2353	0.96		2389	1.00		2461	1.09		2531	1.19		2668	1.40		2800	1.59	
2380	2767	2347	0.92	65	2384	0.97	69	2421	1.03	1.03	71	2454	1.07	73	2490	1.13	73	2524	1.17	75	2556	1.24	77	2623	1.33	79	2688	1.43	81	2817	1.65	83	2941	1.86	85
2580	3000	2533	1.15		2567	1.22		2601	1.26	1.26		2633	1.33		2666	1.37		2697	1.43		2728	1.49		2790	1.61		2851	1.72		2972	1.94		3088	2.17	
2780	3233	2718	1.42		2751	1.49		2782	1.55	1.55		2813	1.61		2843	1.67		2873	1.72		2903	1.78		2960	1.92		3018	2.03		3130	2.27		3240	2.52	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1020	1186	2359	0.80	83																														
1080	1256	2371	0.82		2544	0.99	83																											
1140	1326	2387	0.85	84	2555	1.03	84	2717	1.19	1.19	86																							
1200	1395	2405	0.89		2570	1.06		2727	1.24	1.24		2881	1.42	88																				
1260	1465	2427	0.92		2586	1.09		2741	1.29	1.29		2891	1.47		3035	1.67	88																	
1320	1535	2449	0.96		2606	1.14		2757	1.33	1.33		2904	1.51		3046	1.72		3184	1.93	88														
1380	1605	2474	1.00		2628	1.17		2776	1.37	1.37		2919	1.57		3058	1.77		3193	1.98		3325	2.19	90												
1580	1837	2570	1.15	85	2713	1.33	85	2851	1.52	1.52	87	2985	1.73	89	3116	1.94	89	3242	2.17	89	3367	2.40	91	3489	2.64	91	3607	2.87	91	3723	3.11	93	3838	3.37	94
1780	2070	2680	1.33		2815	1.52		2945	1.72	1.72		3071	1.94		3194	2.15		3314	2.39		3431	2.62		3545	2.85		3658	3.11		3768	3.37	94	3876	3.63	
1980	2302	2800	1.56	86	2928	1.75	86	3052	1.97	1.97	88	3171	2.18	90	3288	2.40	90	3401	2.64	90	3512	2.87	92	3620	3.13	92	3727	3.39	92	3832	3.65	95	3935	3.90	95
2180	2535	2927	1.80		3050	2.01		3167	2.22	2.22		3282	2.45		3393	2.70		3501	2.93		3607	3.17		3710	3.44		3812	3.70	93	3912	3.96		4010	4.24	
2380	2767	3061	2.08	87	3179	2.32	87	3291	2.54	2.54	89	3401	2.78	91	3507	3.02	91	3611	3.27	91	3712	3.52	93	3812	3.78	94	3909	4.06	94	4005	4.33	96	4098	4.61	96
2580	3000	3202	2.40		3314	2.65		3422	2.89	2.89		3527	3.13		3629	3.39		3729	3.65		3826	3.90	94	3921	4.19		4015	4.46		4107	4.74		4197	5.04	
2780	3233	3349	2.76		3454	3.01		3558	3.27	3.27		3658	3.54		3756	3.80	92	3852	4.07	92	3947	4.36		4039	4.64		4129	4.91		4218	5.20		4304	5.50	
2980	3465	3500	3.17	88	3600	3.44	88	3699	3.70	3.70	90	3795	3.99	93	3889	4.26	93	3982	4.54	93	4073	4.83	95	4161	5.13	95	4249	5.42	95	4334	5.72	97	4419	6.03	97
3180	3698	3654	3.63		3750	3.90	89	3844	4.19	4.19	91	3937	4.47		4027	4.76		4116	5.06		4203	5.36		4290	5.67		4374	5.97		4457	6.28		4538	6.60	
3380	3930	3814	4.12	89	3905	4.42		3994	4.72	4.72		4083	5.02		4169	5.31		4255	5.63		4339	5.93		4423	6.26		4504	6.49		4585	6.90		4664	7.24	
3580	4163	3976	4.66		4062	4.97		4148	5.29	5.29		4232	5.60		4316	5.92		4398	6.25		4479	6.58		4560	6.90		4639	7.25		4716	7.57		4793	7.92	
3780	4395	4141	5.25	90	4224	5.58	90	4305	5.92	5.92	92	4387	6.25	94	4466	6.59	94	4545	6.93	94	4624	7.26	96	4701	7.62	96	4777	7.96	96	4852	8.31	98	4926	8.66	98

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP		dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1780	2070	3983	3.90	94	4088	4.17	96	4293	4.73	4.73	96																							
1980	2302	4036	4.19	95	4135	4.46	97	4331	5.06	5.06	97	4522	5.67	97	4707	6.27	99																	
2180	2535	4107	4.52		4201	4.80		4388	5.41	5.41		4570	6.02		4747	6.65		4921	7.32	99	5091	8.01	99	5257	8.71	101									
2380	2767	4190	4.89	96	4282	5.20	98	4460	5.81	5.81	98	4634	6.44	98	4804	7.10	100	4971	7.77	100	5135	8.46	100	5294	9.18	102	5452	9.90	102	5606	10.66	102	5758	11.43	102
2580	3000	4286	5.33		4373	5.63		4544	6.26	6.26		4711	6.89		4875	7.56		5035	8.24		5192	8.95		5347	9.69		5498	10.43		5647	11.21		5794	11.99	
2780	3233	4390	5.82		4474	6.12		4639	6.75	6.75		4801	7.41		4957	8.09		5112	8.79		5263	9.52		5412	10.26		5558	11.01		5701	11.78		5843	12.58	
2980	3465	4501	6.34	97	4582	6.65	99	4743	7.30	7.30	99	4899	7.98	99	5050	8.67	101	5199	9.38	101	5345	10.12	101	5489	10.87	103	5630	11.64	103	5768	12.44	103	5905	13.25	103
3180	3698	4619	6.93		4698	7.26		4852	7.92	7.92		5004	8.61		5151	9.32		5295	10.04		5436	10.80		5575	11.57		5711	12.35		5846	13.14				
3380	3930	4741	7.56		4818	7.91		4969	8.60	8.60		5115	9.30		5258	10.03		5398	10.77		5535	11.53		5670	12.32		5802	13.12		5933	13.94				
3580	4163	4869	8.27		4943	8.61		5089	9.32	9.32		5231	10.05		5371	10.80		5507	11.57		5640	12.34		5772	13.13		5901	13.96							
3780	4395	5000	9.01	98	5073	9.38	100	5215	10.12	10.12	100	5353	10.87	100	5489	11.64	102	5622	12.41	102	5752	13.21	102	5879	14.02	104									
3980	4628	5136	9.84		5206	10.21		5344	10.98	10.98		5479	11.75		5611	12.52		5740	13.33		5868	14.14													
4180	4860	5275	10.72		5343	11.10		5478	11.90	11.90		5608	12.69		5737	13.50		5864	14.33																
4380	5093	5417	11.67		5483	12.06		5614	12.88	12.88		5741	13.70		5867	14.53																			
4580	5326	5563	12.67	99	5627	13.09	101	5754	13.94	13.94	101	5878	14.78	101																					
4780	5558	5711	13.76		5773	14.19		5897	15.05	15.05																									
4980	5791	5863	14.91		5924	15.36																													

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

GT-GNN™

SWSI 135

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
13 1/2"	1.120 SQ. FT.	1.05 SQ. FT.	F.P.M. = 3.53 x RPM	.128 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
800	762	785	0.06	58	876	0.07	62	959	0.10	66	1036	0.12	68	1110	0.14	70	1182	0.18	70	1250	0.21	72	1381	0.26	74										
880	838	826	0.07		912	0.08		992	0.11	67	1066	0.13		1137	0.16		1205	0.18		1270	0.21		1396	0.28		1514	0.33	76						
960	914	869	0.08	59	951	0.10	65	1027	0.12		1099	0.15	69	1166	0.18	71	1231	0.21	71	1294	0.23	73	1414	0.30	75	1527	0.35	77	1742	0.52	79			
1040	990	914	0.08		992	0.11		1064	0.14		1133	0.16		1199	0.20		1261	0.23		1321	0.26		1436	0.31		1546	0.37		1752	0.54				
1120	1067	960	0.10	61	1034	0.13		1104	0.15		1170	0.18		1233	0.21		1293	0.25		1351	0.28		1463	0.33		1568	0.41		1766	0.57		1952	0.72	81
1200	1143	1008	0.12	62	1077	0.15	66	1144	0.18	68	1208	0.21	70	1269	0.23	72	1328	0.27	72	1383	0.30	74	1490	0.35	76	1592	0.42	78	1785	0.60	80	1964	0.75	82
1400	1333	1131	0.18		1193	0.21		1252	0.23		1310	0.27		1366	0.30		1420	0.33		1472	0.36		1572	0.44		1667	0.52		1844	0.67		2011	0.85	
1600	1524	1260	0.23	63	1314	0.28	67	1368	0.31	69	1419	0.33	71	1471	0.37	73	1520	0.41	73	1569	0.45	75	1662	0.54	77	1751	0.61	79	1917	0.78	81	2073	0.96	83
1800	1714	1391	0.31	64	1440	0.35	68	1488	0.40	70	1536	0.42	72	1582	0.46	74	1628	0.52	74	1673	0.56	76	1759	0.63	78	1843	0.72	80	2000	0.91	82	2148	1.09	84
2000	1905	1523	0.41		1569	0.45		1613	0.49		1656	0.55		1698	0.58		1741	0.63		1783	0.67		1863	0.77		1942	0.85		2091	1.06		2231	1.25	
2200	2095	1658	0.54		1700	0.58		1741	0.62		1781	0.67		1820	0.72		1859	0.77		1897	0.82		1972	0.91		2047	1.01		2188	1.22		2321	1.43	
2400	2286	1793	0.67	65	1832	0.72	69	1870	0.78	71	1908	0.83	73	1944	0.89	75	1981	0.94	75	2016	0.99	77	2087	1.09	79	2156	1.19	81	2289	1.41	83	2416	1.65	85
2600	2476	1930	0.83		1966	0.89		2002	0.94		2036	1.00		2071	1.06		2104	1.11		2138	1.16		2204	1.29		2269	1.41		2395	1.63		2516	1.87	
2800	2667	2068	1.03		2102	1.09		2135	1.15		2168	1.22		2200	1.26		2232	1.33		2263	1.39		2325	1.50		2385	1.63		2505	1.87		2620	2.14	
3000	2857	2206	1.24	66	2238	1.31	70	2269	1.37	72	2300	1.43	74	2331	1.49	76	2361	1.58	76	2390	1.63	78	2448	1.77	80	2506	1.88	82	2618	2.15	84	2728	2.43	86
3200	3048	2344	1.49		2375	1.57		2405	1.63		2434	1.69		2463	1.77		2491	1.84		2518	1.91		2574	2.04		2629	2.18		2736	2.47		2840	2.74	
3400	3238	2483	1.77		2512	1.84		2541	1.92		2569	1.98		2596	2.06		2622	2.14		2649	2.21		2702	2.36		2753	2.50		2854	2.80		2954	3.11	
3600	3429	2622	2.08	67	2650	2.15	71	2677	2.22	73	2704	2.32	75	2730	2.40	77	2755	2.47	77	2781	2.54	79	2830	2.70	81	2880	2.85	83	2977	3.17	85	3071	3.49	87
3800	3619	2762	2.41		2788	2.50		2814	2.60		2840	2.67		2864	2.75		2889	2.83		2913	2.91		2961	3.09		3008	3.25		3100	3.57		3191	3.90	
4000	3810	2902	2.80		2927	2.89		2952	2.99		2977	3.08		3000	3.16		3023	3.25		3047	3.34		3092	3.50		3137	3.69		3226	4.03		3312	4.38	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1200	1143	2135	0.96	84																														
1400	1333	2169	1.05		2322	1.25	84	2468	1.47	86																								
1600	1524	2222	1.16	85	2364	1.37	85	2501	1.61	87	2634	1.84	89	2763	2.08	89	2888	2.34	89																
1800	1714	2288	1.31	86	2422	1.52	86	2551	1.75	88	2677	2.01	90	2799	2.25	90	2918	2.52	90	3034	278.10	92	3148	3.06	92	3258	3.37	92						
2000	1905	2364	1.47		2492	1.69		2614	1.93		2734	2.18		2849	2.44		2962	2.71		3072	3.00		3181	3.28		3286	3.57		3390	3.88	94	3492	4.20	94
2200	2095	2448	1.67		2570	1.91		2687	2.14		2801	2.40		2911	2.66		3018	2.95		3124	3.22		3227	3.51		3328	3.83		3427	4.13		3525	4.46	
2400	2286	2538	1.87	87	2654	2.13	87	2767	2.38	89	2876	2.65	91	2982	2.91	91	3085	3.20	91	3185	3.49	93	3284	3.78	93	3380	4.09	93	3475	4.42	95	3569	4.74	95
2600	2476	2633	2.13		2745	2.38		2853	2.65		2958	2.91		3059	3.20		3159	3.49		3256	3.78		3350	4.09		3443	4.42		3534	4.73		3624	5.06	
2800	2667	2732	2.40		2840	2.66		2944	2.95		3045	3.21		3144	3.51		3238	3.81		3332	4.12		3424	4.43		3513	4.76		3601	5.09		3687	5.43	
3000	2857	2835	2.70	88	2939	2.99	88	3040	3.27	90	3136	3.55	92	3231	3.86	92	3324	4.17	92	3414	4.48	94	3503	4.81	94	3590	5.15	94	3674	5.49	96	3758	5.83	97
3200	3048	2942	3.04		3041	3.34		3137	3.63		3232	3.94		3324	4.24		3413	4.57		3501	4.89		3586	5.23		3671	5.57		3753	5.92	97	3835	6.26	
3400	3238	3052	3.40		3147	3.71		3240	4.02		3331	4.35		3420	4.68		3507	5.00		3592	5.35		3675	5.68		3756	6.03	95	3837	6.38		3916	6.75	
3600	3429	3164	3.81	89	3256	4.13	89	3345	4.46	91	3433	4.80	93	3520	5.13	93	3604	5.48	93	3686	5.82	95	3767	6.18	96	3846	6.53	96	3924	6.89	98	4002	7.26	98
3800	3619	3280	4.24		3368	4.58		3454	4.93		3539	5.27		3621	5.63		3704	5.97		3783	6.34	96	3863	6.71		3940	7.09		4015	7.46		4090	7.83	
4000	3810	3398	4.72		3482	5.09		3565	5.43		3647	5.79		3728	6.17		3806	6.53		3884	6.90		3960	7.29		4036	7.66		4110	8.06		4182	8.46	
4200	4000	3517	5.24		3599	5.61		3678	5.99		3757	6.36	94	3835	6.75	94	3912	7.12	94	3987	7.52		4061	7.91		4134	8.29		4207	8.69		4278	9.12	
4400	4190	3640	5.81		3717	6.19		3795	6.58	92	3871	6.96		3946	7.36		4019	7.77		4092	8.17		4164	8.57		4235	8.97		4305	9.38		4375	9.82	
4600	4781	3764	8.48	91	3838	8.87	91	3912	7.21	93	3986	7.63	95	4058	8.03	95	4130	8.44	95	4200	8.86	97	4270	9.27	97	4339	9.28	97	4408	10.12	99	4475	10.56	99
4800	4571	3888	7.06		3960	7.48		4032	7.91		4102	8.32		4173	8.76		4243	9.18		4311	9.61		4379	10.04		4445	10.48		4512	10.92		4578	11.36	
5000	4762	3898	7.54		3965	7.95		4032	8.39		4099	8.80		4165	9.24		4230	9.66		4294	10.10		4358	10.53		4422	10.98		4484	11.41		4546	11.85	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2200	2095	3620	4.79	94	3715	5.12	96	3900	5.82	97																								
2400	2286	3662	5.09	95	3752	5.42	98	3929	6.12	98	4102	6.86	98	4270	7.63	100																		
2600	2476	3712	5.41		3800	5.75		3971	6.48		4136	7.22		4299	7.99		4458	8.81	100	4613	9.63	100												
2800	2667	3773	5.77	96	3856	6.13		4021	6.86		4182	7.63		4338	8.40		4492	9.23		4642	10.05		4791	10.92	102	4935	11.80	102	5077	12.72	102			
3000	2857	3841	6.18	97	3921	6.54	99	4080	7.29	99	4235	8.06	99	4387	8.86	101	4535	9.69	101	4680	10.55	101	4823	11.41	103	4965	12.32	103	5103	13.24	103	5238	14.17	103
3200	3048	3914	6.63		3992	7.00		4147	7.76		4296	8.55		4443	9.35		4587	10.19		4728	11.06		4867	11.95		5003	12.86		5137	13.78		5268	14.75	
3400	3238	3993	7.12		4070	7.50		4219	8.27		4364	9.06		4506	9.89		4646	10.75		4782	11.62		4917	12.52		5049	13.45		5179	14.40		5308	15.36	
3600	3429	4077	7.65	98	4151	8.03	100	4296	8.83	100	4437	9.63	100	4575	10.48	102	4711	11.34	102	4844	12.24	102	4974	13.14	104	5103	14.08	104	5229	15.05	104	5354	16.03	104
3800	3619	4163	8.23		4235	8.63		4378	9.43		4516	10.26		4649	11.12		4781	11.99		4911	12.91		5038	13.82		5163	14.78		5286	15.74				
4000	3810	4254	8.86		4324	9.26		4462	10.07		4597	10.93		4729	11.80		4857	12.70		4983	13.61		5107	14.55		5228	15.52		5349	16.51				
4200	4000	4347	9.52		4416	9.93		4551	10.77		4682	11.64		4811	12.54		4937	0.56		5059	14.38		5180	15.34		5299	16.30							
4400	4190	4443	10.24		4510	10.66		4642	11.53		4771	12.41		4897	13.32		5019	14.27		5140	15.20		5258	16.18		5374	17.17							
4600	4381	4541	10.99	99	4607	11.43	101	4736	12.32	101	4862	13.25	101	4985	14.17	103	5105	15.11	103	5223	16.08	103	5338	17.07	105									
4800	4571	4643	11.80		4707	12.27		4833	13.18		4955	14.10		5076	15.07		5194	16.04		5310	17.03													
5000	4762	4746	12.67		4808	13.13		4932	14.08		5052	15.05		5170	16.02		5285	17.01																
5200	4952	4851	13.59		4912	14.07		5033	15.05		5150	16.03		5265	17.03		5379	18.04																
5400	5143	4959	14.55		5018	15.05		5136	16.05		5251	17.07		5364	18.09																			
5600	5333	5069	15.58		5126	16.10		5241	17.13		5353	18.16																						
5800	5524	5180	16.69	100	5237	17.20	102	5348	18.26	102																								
6000	5714	5292	17.83		5348	18.35																												

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

SWSI 150

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
15"	1.390 SQ. FT.	1.29 SQ. FT.	F.P.M. = 3.93 x RPM	.217 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1000	775	711	0.07	59	792	0.08	63	866	0.12	65	936	0.15	67	1002	0.18	71	1066	0.21	71	1128	0.25	73	1244	0.33	75										
1100	853	749	0.08		825	0.11		897	0.13		963	0.16		1027	0.20		1088	0.23		1145	0.27		1258	0.35		1364	0.42	77						
1200	930	788	0.10	60	861	0.12	64	929	0.15	66	993	0.18	70	1054	0.21	72	1112	0.26	72	1168	0.29	74	1275	0.36	76	1377	0.45	78	1569	0.63	80			
1300	1008	829	0.11		898	0.14		964	0.18	68	1025	0.21		1084	0.25		1139	0.28		1194	0.31		1296	0.39		1394	0.47		1578	0.66				
1400	1085	871	0.13		937	0.16		1000	0.20		1059	0.23		1115	0.27		1169	0.31		1221	0.33		1320	0.41		1414	0.52		1592	0.70		1759	0.91	82
1500	1163	916	0.15	61	977	0.18	67	1037	0.23	69	1094	0.26	71	1148	0.30	73	1201	0.33	73	1250	0.36	75	1347	0.45	77	1438	0.55	79	1610	0.73	81	1771	0.96	83
1600	1240	960	0.18	63	1019	0.21		1075	0.25		1131	0.29		1183	0.33		1234	0.36		1282	0.41		1375	0.49		1464	0.58		1629	0.78		1786	0.99	
1700	1318	1005	0.21		1061	0.25		1115	0.28		1168	0.31		1218	0.35		1268	0.40		1315	0.44		1406	0.54		1491	0.62		1652	0.82		1804	1.05	
1800	1395	1052	0.23	64	1105	0.28	68	1157	0.31	70	1207	0.35	72	1256	0.40	74	1303	0.44	74	1349	0.47	76	1437	0.58	78	1520	0.66	80	1678	0.88	82	1824	1.09	84
1900	1473	1098	0.27		1148	0.31		1199	0.35		1247	0.39		1295	0.42		1340	0.47		1384	0.53		1470	0.62		1551	0.71		1705	0.92		1848	1.15	
2000	1550	1145	0.30		1194	0.35		1241	0.39		1289	0.42		1334	0.47		1378	0.53		1421	0.58		1505	0.66		1583	0.77		1732	0.97		1873	1.22	
2100	1628	1193	0.33		1239	0.39		1285	0.42		1330	0.47		1374	0.53		1416	0.58		1458	0.62		1540	0.71		1617	0.82		1762	1.04		1898	1.27	
2200	1705	1240	0.37		1285	0.42		1330	0.47		1373	0.53		1415	0.58		1456	0.62		1497	0.67		1576	0.78		1651	0.89		1793	1.11		1927	1.35	
2500	1938	1386	0.54	65	1427	0.58	69	1466	0.63	71	1505	0.68	73	1543	0.74	75	1580	0.80	75	1617	0.85	77	1689	0.97	79	1759	1.09	81	1892	1.33	83	2018	1.59	85
2800	2171	1534	0.71		1571	0.77		1606	0.83		1641	0.89		1676	0.96		1710	1.01		1744	1.07		1810	1.19		1875	1.33		1999	1.59		2118	1.86	
3100	2403	1682	0.94	66	1716	1.00	70	1749	1.07	72	1781	1.14	74	1813	1.22	76	1844	1.27	76	1875	1.35	78	1936	1.47	80	1996	1.61	82	2113	1.88	84	2224	2.18	86
3400	2636	1832	1.22		1863	1.29		1894	1.35		1924	1.42		1953	1.49		1982	1.59		2011	1.66		2067	1.80		2123	1.95		2231	2.25		2336	2.56	
3700	2868	1984	1.52	67	2013	1.61	71	2040	1.68	73	2068	1.77	75	2096	1.84	77	2123	1.93	77	2150	2.01	79	2202	2.17	81	2254	2.34	83	2356	2.66	85	2454	3.00	87
4000	3101	2135	1.91		2162	1.99		2189	2.08		2215	2.17		2240	2.25		2265	2.34		2291	2.43		2339	2.60		2388	2.78		2483	3.13		2576	3.47	
4300	3333	2287	2.34		2312	2.43		2337	2.52		2362	2.62		2387	2.71		2410	2.80		2433	2.90		2479	3.09		2525	3.27		2614	3.65		2702	4.02	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1500	1163	1923	1.17	85																														
1600	1240	1934	1.24		2075	1.47	85																											
1700	1318	1948	1.29		2086	1.52		2219	1.80	87																								
1800	1395	1964	1.33	86	2099	1.59	86	2228	1.86	88	2353	2.14	90																					
1900	1473	1984	1.40		2115	1.66		2240	1.93		2362	2.22		2480	2.52	90																		
2000	1550	2005	1.45		2132	1.72		2255	1.99		2374	2.29		2490	2.60		2602	2.91	90															
2100	1628	2028	1.51		2153	1.78		2272	2.08		2389	2.36		2501	2.67		2611	3.00		2718	3.34	92												
2200	1705	2053	1.59		2174	1.87		2292	2.14		2405	2.44		2515	2.76		2623	3.09		2728	3.43		2830	3.76	92									
2500	1938	2137	1.84	87	2251	2.13	87	2361	2.41	89	2467	2.73	91	2571	3.06	91	2672	3.39	91	2771	3.73	93	2866	4.09	93	2961	4.46	93	3055	4.83	95	3146	5.22	95
2800	2171	2230			2338	2.44		2442	2.74		2543	3.06		2641	3.39		2736	3.73		2829	4.09		2920	4.46		3010	4.83		3098	5.22		3185	5.61	
3100	2403	2331	2.48	88	2434	2.80	88	2533	3.11	90	2629	3.44	92	2721	3.78	92	2812	4.14	92	2900	4.50	94	2988	4.89	94	3072	5.27	94	3156	5.67	96	3238	6.08	96
3400	2636	2438	2.87		2536	3.21		2631	3.54		2722	3.88		2811	4.24		2897	4.61		2983	4.99		3065	5.38		3147	5.77		3227	6.18		3305	6.60	
3700	2868	2550	3.34	89	2643	3.68	89	2734	4.03	91	2821	4.39	93	2907	4.76	93	2990	5.15	93	3071	5.53	95	3152	5.93	95	3229	6.34	95	3306	6.76	97	3381	7.19	97
4000	3101	2667	3.83		2756	4.20		2842	4.57		2926	4.96		3009	5.35		3089	5.75		3167	6.15		3243	6.56		3319	6.98		3393	7.41		3465	7.86	
4300	3333	2788	4.40		2873	4.80		2955	5.19		3035	5.58		3115	5.99		3192	6.42		3267	6.84		3341	7.26		3414	7.70		3486	8.15		3556	8.60	
4600	3566	2913	5.05	90	2993	5.46	90	3072	5.86	92	3150	6.28	94	3225	6.71	94	3300	7.15	94	3372	7.58	96	3444	8.03	96	3514	8.49	96	3583	8.95	98	3651	9.41	98
4900	3798	3042	5.75		3118	6.18		3193	6.60		3267	7.05		3339	7.51		3411	7.96		3481	8.40		3550	8.89		3618	9.35		3685	9.84		3751	10.31	
5200	4031	3172	6.52		3246	6.98		3317	7.43		3388	7.89		3458	8.37		3527	8.84		3594	9.32		3661	9.82		3727	10.30		3791	10.79		3854	11.29	
5500	4264	3306	7.37		3375	7.86		3444	8.34		3511	8.83		3578	9.32		3645	9.82		3710	10.30		3774	10.82	97	3838	11.33	97	3901	11.85	99	3962	12.36	99
5800	4496	3442	8.31	91	3508	8.81	91	3574	9.32	93	3639	9.84	95	3703	10.35	95	3767	10.87	96	3829	11.38	98	3891	11.92	98	3952	12.44	98	4013	12.98	100	4073	13.52	100

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2500	1938	3235	5.61	95																														
2800	2171	3270	6.03	95	3354	6.44	97	3517	7.30	97	3677	8.20	97																					
3100	2403	3320	6.49	96	3399	6.91	98	3556	7.81	98	3708	8.71	98	3856	9.67	101	4002	10.64	101															
3400	2636	3383	7.01	96	3459	7.47	98	3608	835.33	98	3753	9.30	99	3895	10.26	101	4036	11.27	101	4172	12.30	101	4305	13.35	103	4436	14.45	103						
3700	2868	3456	7.63	97	3529	8.06	99	3671	8.99	99	3811	9.95	100	3947	10.93	102	4081	11.95	102	4212	13.01	102	4340	14.08	104	4467	15.19	104	4592	16.34	104	4714	17.49	104
4000	3101	3537	8.29	97	3607	8.76	99	3744	9.69	99	3879	10.67	100	4010	11.67	102	4139	12.72	102	4264	13.78	102	4388	14.89	104	4510	16.02	104	4630	17.17	104	4748	18.35	104
4300	3333	3625	9.06	97	3693	9.53	99	3825	10.50	99	3954	11.47	100	4081	12.50	102	4205	13.57	102	4327	14.66	102	4445	15.78	104	4563	16.91	104	4679	18.10	104	4793	19.29	104
4600	3566	3717	9.89	98	3783	10.37	101	3912	11.36	101	4038	12.37	101	4160	13.42	103	4280	14.50	103	4397	15.61	103	4512	16.75	105	4626	17.91	104	4738	19.12	105	4848	20.32	105
4900	3798	3815	10.80	99	3879	11.31	101	4005	12.32	101	4126	13.37	101	4245	14.43	103	4361	15.53	103	4474	16.67	103	4587	17.83	105	4696	19.01	104	4805	20.23	105			
5200	4031	3917	11.80	99	3979	12.32	101	4100	13.37	101	4219	14.43	101	4334	15.53	103	4448	16.66	103	4558	17.81	103	4666	19.00	105	4773	20.20	105						
5500	4264	4023	12.89	99	4083	13.42	101	4201	14.50	101	4316	15.59	101	4428	16.74	103	4538	17.88	103	4646	19.07	103	4751	20.27	105									
5800	4496	4131	14.07	100	4190	14.61	102	4304	15.72	102	4417	16.87	102	4526	18.03	104	4633	19.20	104	4738	20.41	104	4842	21.64	106									
6100	4729	4244	15.33	100	4300	15.89	102	4411	17.06	102	4521	18.23	102	4628	19.42	104	4732	20.63	104	4835	21.87	104												
6400	4961	4359	16.70	100	4414	17.28	102	4522	18.47	102	4628	19.67	102	4732	20.92	104	4834	22.16	104															
6700	5194	4476	18.16	100	4530	18.76	102	4635	20.00	102	4738	21.25	102	4839	22.51	104																		
7000	5426	4596	19.71	100	4648	20.35	102	4750	21.63	102																								
7300	5659	4718	21.38	101	4769	22.03	103																											

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™

SWSI 165

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
16 1/2"	1.670 SQ. FT.	1.57 SQ. FT.	F.P.M. = 4.32 x RPM	.349 (RPM/1000)³

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1200	764	643	0.08	60	717	0.11	64	786	0.14	66	849	0.18	68	909	0.21	70	968	0.26	72	1024	0.30	74	1131	0.39	76										
1400	892	700	0.11		768	0.14		832	0.18		891	0.21		948	0.26	72	1001	0.30		1053	0.33		1152	0.42		1246	0.54	78						
1600	1019	762	0.14	61	825	0.18	65	884	0.21	67	938	0.26	71	991	0.30	73	1041	0.33	73	1091	0.39	75	1183	0.47	77	1271	0.58	79	1438	0.81	81	1592	1.07	83
1800	1146	827	0.18	62	884	0.23	66	938	0.27	70	991	0.31	72	1040	0.35	74	1088	0.40	74	1134	0.44	76	1222	0.55	78	1304	0.66	80	1462	0.89	82	1608	1.14	84
2000	1274	894	0.23		947	0.28	68	997	0.31		1045	0.36		1093	0.41		1138	0.45		1181	0.52		1265	0.62		1343	0.72		1492	0.96		1632	1.24	
2200	1401	963	0.29	64	1011	0.33		1059	0.39		1104	0.44		1148	0.47		1191	0.55		1233	0.60		1312	0.70		1387	0.82		1530	1.07		1662	1.33	
2400	1529	1034	0.35	65	1078	0.41	69	1122	0.45	71	1165	0.52	73	1206	0.58	75	1247	0.62	75	1286	0.67	77	1363	0.80	79	1435	0.91	81	1571	1.16	83	1698	1.45	85
2600	1656	1105	0.44		1147	0.49		1188	0.56		1228	0.61		1267	0.66		1305	0.71		1343	0.78		1415	0.91		1485	1.03		1616	1.30		1739	1.59	
2800	1783	1178	0.53		1217	0.58		1256	0.65		1293	0.70		1330	0.77		1366	0.83		1402	0.89		1471	1.03		1538	1.15		1663	1.42		1782	1.72	
3000	1911	1250	0.62	66	1288	0.68	70	1324	0.75	72	1360	0.82	74	1394	0.89	76	1429	0.96	76	1463	1.01	78	1529	1.15	80	1592	1.30	82	1714	1.59	84	1828	1.88	86
3200	2038	1325	0.73		1360	0.81		1394	0.89		1427	0.96		1461	1.01		1492	1.09		1524	1.15		1588	1.31		1649	1.45		1766	1.75		1878	2.06	
3400	2166	1399	0.88		1432	0.94		1465	1.01		1496	1.09		1527	1.16		1558	1.24		1589	1.32		1649	1.47		1708	1.63		1821	1.93		1928	2.27	
3600	2293	1473	1.01	67	1505	1.09	71	1536	1.16	73	1566	1.25	75	1595	1.33	77	1625	1.41	77	1654	1.49	79	1712	1.65	81	1769	1.81		1877	2.14	85	1981	2.48	87
3800	2420	1548	1.17		1578	1.26		1608	1.35		1637	1.42		1666	1.50		1693	1.59		1721	1.67		1776	1.84		1830	2.01		1934	2.36		2035	2.70	
4000	2548	1623	1.35		1652	1.43		1680	1.52		1708	1.61		1736	1.71		1762	1.78		1789	1.87		1842	2.04		1893	2.22		1994	2.58		2092	2.96	
4200	2675	1698	1.56		1726	1.65		1753	1.73		1780	1.82		1806	1.92		1832	2.01		1857	2.10		1908	2.29		1958	2.47	83	2055	2.83		2149	3.21	
4400	2803	1774	1.75		1800	1.86		1827	1.95		1852	2.04		1878	2.14		1902	2.24		1927	2.34		1976	2.52		2023	2.71		2117	3.11		2208	3.50	
4800	3057	1925	2.25	68	1951	2.36	72	1975	2.45	74	1998	2.56	76	2022	2.66	78	2045	2.78	78	2068	2.87	80	2113	3.09	82	2157	3.30	84	2244	3.71	86	2330	4.13	88
5200	3312	2078	2.82		2101	2.93		2124	3.04		2147	3.16		2168	3.27		2190	3.39		2210	3.50		2253	3.73		2294	3.96		2376	4.40		2456	4.87	
5600	3567	2231	3.47		2253	3.61		2274	3.73		2295	3.86		2315	3.97		2336	4.09		2356	4.21		2395	4.46		2434	4.71		2510	5.19		2585	5.68	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2000	1274	1764	1.51	86	1891	1.82	86																											
2200	1401	1789	1.63		1911	1.94		2027	2.27	88	2140	2.62	90																					
2400	1529	1819	1.75	87	1935	2.06	87	2048	2.40	89	2156	2.75	91	2262	3.13	91	2364	3.50	91															
2600	1656	1855	1.88		1966	2.21		2074	2.54		2178	2.91		2280	3.30		2379	3.69		2475	4.09	93	2569	4.50	93									
2800	1783	1894	2.04		2002	2.38		2105	2.73		2206	3.09		2304	3.47		2400	3.86		2493	4.28		2583	4.71		2673	5.14	93	2760	5.58	95			
3000	1911	1937	2.21	88	2041	2.54	88	2141	2.91	90	2238	3.28	92	2333	3.66	92	2425	4.07	92	2515	4.48	94	2604	4.91	94	2690	5.36	94	2775	5.82	96	2858	6.28	96
3200	2038	1983	2.40		2084	2.74		2181	3.11		2274	3.49		2366	3.88		2456	4.28		2542	4.72		2628	5.15		2712	5.60		2794	6.07		2875	6.54	
3400	2166	2030	2.60		2128	2.96		2223	3.34		2314	3.71		2403	4.12		2490	4.54		2574	4.96		2656	5.41		2738	5.86		2818	6.33		2896	6.81	
3600	2293	2081	2.83	89	2175	3.18	89	2267	3.57	91	2357	3.97	93	2442	4.38	93	2527	4.80	93	2609	5.23	95	2689	5.68	95	2769	6.15	95	2846	6.63	97	2922	7.12	97
3800	2420	2132	3.06		2225	3.44		2314	3.83		2401	4.24		2484	4.65		2567	5.09		2647	5.53		2725	5.99		2802	6.45		2878	6.94		2952	7.43	
4000	2548	2186	3.34		2275	3.71		2363	4.12		2447	4.53		2530	4.96		2609	5.40		2687	5.84		2763	6.30		2839	6.78		2912	7.27		2985	7.78	
4200	2675	2240	3.61		2328	4.02		2413	4.43		2496	4.84		2576	5.27		2654	5.72		2731	6.18		2805	6.65		2878	7.15		2950	7.63		3020	8.15	
4400	2803	2296	3.90		2382	4.32		2465	4.74		2545	5.17		2623	5.63		2701	6.09		2775	6.54		2848	7.03		2919	7.52		2989	8.03		3058	8.55	
4800	3057	2412	4.57	90	2494	5.02	90	2573	5.46	92	2650	5.92	94	2724	6.39	94	2797	6.86	94	2870	7.35	96	2940	7.86	96	3008	8.35	96	3076	8.89	98	3142	9.41	98
5200	3312	2534	5.33		2611	5.79		2685	6.26		2759	6.75		2830	7.25		2902	7.76		2969	8.25		3037	8.79		3103	9.30		3168	9.84		3232	10.38	
5600	3567	2659	6.18		2732	6.67		2803	7.17		2873	7.68		2942	8.20		3009	8.73		3075	9.27		3139	9.82		3203	10.35		3266	10.92		3328	11.49	
6000	3822	2788	7.12	91	2857	7.66	91	2924	8.19	93	2991	8.73	95	3057	9.27	95	3121	9.84	95	3185	10.38	97	3247	10.96	97	3308	11.53	97	3369	12.10	99	3428	12.70	99
6400	4076	2920	8.18		2985	8.76		3050	9.30		3113	9.89		3175	10.46		3237	11.03		3298	11.62		3358	12.22		3418	12.81		3475	13.42		3533	14.04	
6800	4331	3055	9.35		3117	9.95		3178	10.56		3238	11.15		3298	11.75		3357	12.36		3415	12.98		3473	13.61		3530	14.23		3586	14.85		3642	15.50	
7200	4586	3191	10.66	92	3251	11.29	92	3308	11.92	94	3366	12.54	96	3424	13.18	96	3480	13.81	96	3536	14.47	98	3592	15.11	98	3646	15.78	98	3701	16.44	100	3754	17.10	101

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
3200	2038	2954	7.03	96	3032	7.52	98	3186	8.55	98																					96			96
3400	2166	2974	7.30		3050	7.81		3199	8.86		3343	9.95	98																					
3600	2293	2997	7.62	97	3071	8.13	99	3217	9.18	99	3358	10.28	99	3495	11.41	101																		
3800	2420	3025	7.93		3097	8.46		3238	9.53		3376	10.64		3510	11.78		3641	12.98	101	3770	14.19	102												
4000	2548	3056	8.29		3126	8.81		3264	9.89		3398	11.01		3529	12.18		3658	13.39		3783	14.63		3906	15.89	104									
4200	2675	3090	8.66		3158	9.19		3293	10.29		3424	11.43		3551	12.61		3677	13.81		3800	15.07		3920	16.36		4039	17.69	104	4155	19.03	104			
4400	2803	3126	9.06		3193	9.61		3325	10.70		3453	11.86		3578	13.04		3701	14.28		3820	15.55		3939	16.84		4054	18.19		4168	19.55		4280	20.96	104
4800	3057	3206	9.95	98	3271	10.50	100	3396	11.64	100	3518	12.81	100	3639	14.02	102	3756	15.27	103	3871	16.58	103	3984	17.90	105	4095	19.27	105	4204	20.66	105	4313	22.09	105
5200	3312	3294	10.96		3356	11.53		3477	12.69		3595	13.88		3709	15.12		3822	16.40		3933	17.73		4042	19.09		4148	20.46		4253	21.89		4357	23.35	
5600	3567	3388	12.06		3447	12.65		3564	13.84		3678	15.08		3788	16.36	103	3898	17.67		4004	19.01		4109	20.38		4211	21.81		4313	23.25				
6000	3822	3487	13.30	99	3544	13.92	101	3657	15.15	101	3767	16.41	102	3874	17.73	104	3979	19.07	104	4082	20.42	104	4183	21.85	106	4283	23.28	106	4381	24.75	106			
6400	4076	3590	14.66		3645	15.30		3754	16.56		3861	17.87		3966	19.22		4067	20.60		4166	21.99		4265	23.44		4361	24.90							
6800	4331	3697	16.14		3750	16.80	102	3856	18.13	102	3960	19.48		4061	20.86		4160	22.26		4257	23.70		4352	25.18										
7200	4586	3807	17.77	101	3859	18.45	103	3962	19.81	103	4062	21.22	103	4160	22.64	105	4257	24.09	105	4351	25.56	105												
7600	4841	3920	19.53		3972	20.23		4071	21.66		4168	23.09		4264	24.57		4358	26.07																
8000	5096	4038	21.43		4086	22.16		4183	23.64		4278	25.14		4370	26.65																			
8400	5350	4157	23.47		4204	24.24		4298	25.78		4390	27.32																						
8800	5605	4280	25.68		4325	26.48																												
9200	5860	4404	28.05	102																														

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

SWSI 182

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
18 1/4"	2.025 SQ. FT.	1.92 SQ. FT.	F.P.M. = 4.78 x RPM	.570 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1400	733	551	0.08	60	618	0.12	64	681	0.15	66	741	0.20	68	797	0.23	70	853	0.28	70	906	0.33	72	1007	0.41	76										
1600	838	591	0.11	61	653	0.14	65	711	0.18	67	765	0.23	69	819	0.27	71	869	0.31	71	920	0.35	73	1015	0.45	77	1105	0.58	79						
1800	942	634	0.13	62	691	0.18	66	746	0.21	68	796	0.26	70	846	0.30	72	893	0.35	72	939	0.39	76	1029	0.49	78	1114	0.62	80	1275	0.88	82			
2000	1047	680	0.16		732	0.21		783	0.26		831	0.30		878	0.35		922	0.39		965	0.44		1050	0.55		1130	0.66		1282	0.92		1426	1.22	84
2200	1152	726	0.21	62	776	0.26		823	0.30		868	0.35		912	0.40		954	0.45	74	995	0.49		1074	0.61		1151	0.72		1296	0.99		1432	1.27	
2400	1257	774	0.25	63	821	0.30	67	865	0.35	69	908	0.40	71	950	0.45	75	990	0.49	75	1028	0.57	77	1103	0.67	79	1175	0.79	81	1313	1.06	83	1444	1.35	85
2600	1361	823	0.29		867	0.35		909	0.40		950	0.45	73	989	0.53		1027	0.58		1064	0.63		1135	0.74		1204	0.88		1335	1.14		1461	1.43	
2800	1466	873	0.33		915	0.40		955	0.45	71	993	0.53		1030	0.58		1067	0.65		1102	0.70		1170	0.83		1236	0.96		1361	1.24		1480	1.55	
3000	1571	924	0.40	64	963	0.45	70	1001	0.54	72	1037	0.60	74	1073	0.66	76	1108	0.72	76	1141	0.80	78	1207	0.94	80	1270	1.07	82	1389	1.35	84	1505	1.66	86
3200	1675	975	0.45	66	1011	0.54		1048	0.61		1083	0.67		1118	0.74		1151	0.82		1182	0.89		1245	1.03		1306	1.16		1421	1.47		1532	1.77	
3400	1780	1027	0.54		1062	0.62		1096	0.68		1130	0.77		1162	0.83		119	0.91		1226	0.99		1285	1.14		1344	1.30		1455	1.59		1560	1.92	
3600	1885	1079	0.62	67	1112	0.70	71	1145	0.78	73	1177	0.85	75	1208	0.94	77	1239	1.01	77	1269	1.09	79	1327	1.26	81	1383	1.41	83	1490	1.73	85	1592	2.06	87
3800	1990	1132	0.70		1164	0.79		1195	0.89		1225	0.96		1256	1.05		1284	1.13		1313	1.22		1370	1.39		1423	1.56		1527	1.88		1626	2.22	
4000	2094	1185	0.81		1215	0.89		1244	0.99		1274	1.07		1303	1.16		1331	1.25		1359	1.35		1413	1.51		1466	1.69		1567	2.04		1662	2.40	
4500	2356	1318	1.09	68	1345	1.19	72	1372	1.30	74	1399	1.40	76	1424	1.49	78	1450	1.61	78	1476	1.71	80	1525	1.91	82	1574	2.10	84	1668	2.49	86	1756	2.89	88
5000	2618	1454	1.47		1478	1.58		1502	1.67		1526	1.78		1550	1.91		1574	2.01		1597	2.13		1643	2.36		1687	2.58		1775	3.01		1858	3.45	
5500	2880	1590	1.91		1612	2.01		1635	2.14		1656	2.25		1678	2.38		1700	2.49		1721	2.62		1763	2.87		1805	3.11		1886	3.61		1964	4.09	
6000	3141	1727	2.43	69	1747	2.54	73	1767	2.67	75	1787	2.80	77	1808	2.95	79	1827	3.06	79	1847	3.20	81	1887	3.47	83	1925	3.75	85	2001	4.28	87	2074	4.81	89
6500	3403	1864	3.04		1883	3.17		1901	3.32		1920	3.44		1938	3.59		1957	3.73		1976	3.86		2013	4.16		2049	4.46		2120	5.04		2189	5.61	
7000	3665	2002	3.76		2020	3.90		2037	4.04		2054	4.19		2071	4.33		2089	4.48		2106	4.64		2140	4.94		2174	5.25		2	5.89		2306	6.52	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2400	1257	1569	1.67	87	1687	2.03	87																											
2600	1361	1580	1.75		1694	2.10		1805	2.48	89																								
2800	1466	1595	1.86		1706	2.22		1812	12.90		1915	3.00	91	2015	3.42	91																		
3000	1571	1614	1.98	88	1721	2.34	88	1824	2.71	90	1924	3.11	92	2021	3.54	92	2115	3.99	92																
3200	1675	1637	2.10		1740	2.47		1839	2.85		1935	3.25		2030	3.68		2121	4.12		2210	4.57	94	2297	5.06	94										
3400	1780	1662	2.25		1761	2.62		1857	3.00		1951	3.40		2042	3.83		2131	4.28		2219	4.74		2303	5.23		2385	5.72	94							
3600	1885	1691	2.41	89	1786	2.78	89	1879	3.17	91	1969	3.57	93	2058	4.01	93	2144	4.45	93	2229	4.91	95	2311	5.41	95	2393	5.91	95	2472	6.43	97	2550	6.95	97
3800	1990	1722	2.60		1814	2.96		1903	3.35		1991	3.76		2076	4.19		2161	4.64		2242	5.12		2324	5.60		2402	6.10		2480	6.63		2556	7.16	
4000	2094	1754	2.78		1844	3.16		1930	3.55		2015	3.96		2098	4.40		2179	4.86		2260	5.31		2338	5.82		2414	6.32		2491	6.85		2565	7.40	
4500	2356	1843	3.30	90	1925	3.70	90	2006	4.12	92	2085	4.54	94	2162	5.00	94	2238	5.46	94	2312	5.93	96	2385	6.44	96	2458	6.95	96	2529	7.48	98	2599	8.03	98
5000	2618	1938	3.90		2016	4.35		2092	4.79		2165	5.24		2238	5.72		2308	6.19		2378	6.70		2447	7.20		2514	7.73		2581	8.25		2647	8.81	
5500	2880	2039	4.57		2114	5.06		2185	5.55		2254	6.03		2323	6.53		2390	7.03		2454	7.55		2519	8.08		2583	8.61		2646	9.16		2709	9.72	
6000	3141	2147	5.35	91	2216	5.86	91	2284	6.41	93	2349	6.93	95	2414	7.46	95	2477	7.98	95	2540	8.53	97	2601	9.09	97	2662	9.64	97	2721	10.21	99	2780	10.80	99
6500	3403	2257	6.19		2323	6.78		2387	7.34		2449	7.92		2511	8.49		2571	9.06		2631	9.63		2689	10.21		2746	10.80		2804	11.40		2859	12.01	
7000	3665	2370	7.15		2433	7.78		2494	8.38		2553	9.00		2612	9.61		2670	10.24		2726	10.85		2782	11.46		2838	12.09		2891	12.72		2945	13.35	
7500	3927	2486	8.19	92	2546	8.86	92	2605	9.53	94	2662	10.19	96	2718	10.85	96	2773	11.51	96	2827	12.17	98	2881	12.83	98	2933	13.49	98	2985	14.14	100	3036	14.81	100
8000	4188	2606	9.35		2663	10.07		2718	10.77		2773	11.49		2826	12.21		2879	12.91		2931	13.61		2983	14.31		3033	15.02		3083	15.72		3132	16.42	
8500	4450	2726	10.63		2781	11.38		2834	12.15		2886	12.91		2938	13.66		2988	14.43		3039	15.17		3088	15.92		3136	16.66		3185	17.42		3232	18.16	
9000	4712	2849	12.02	93	2900	12.83	93	2952	13.65	95	3002	14.45	97	3052	15.26	97	3100	16.05	97	3149	16.85	99	3196	17.65	99	3242	18.45	99	3289	19.23	101	3335	20.01	101
9500	4974	2974	13.55		3023	14.42		3071	15.27		3120	16.13		3167	16.97		3215	17.83		3261	18.67		3306	19.52		3352	20.35		3396	21.19		3440	22.03	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
3800	1990	2631	7.73	97	2704	8.29	99																											
4000	2094	2638	7.94		2710	8.51		2850	9.69	99																								
4500	2356	2668	8.58	98	2736	9.16	100	2870	10.37	100	2999	11.62	100	3125	12.93	102																		
5000	2618	2712	9.37		2777	9.95		2903	11.15		3026	12.43		3147	13.76		3265	15.12	102	3380	16.55	102	3494	18.00	104										
5500	2880	2770	10.30		2830	10.90		2950	12.11		3067	13.40		3182	14.73		3294	16.10		3405	17.54		3513	19.01		3619	20.55	104	3724	22.12	104	3827	23.73	105
6000	3141	2838	11.38	99	2895	11.99	101	3009	13.25	101	3120	14.53	101	3229	15.87	103	3336	17.26	103	3441	18.72	103	3545	20.19	105	3647	21.73	105	3748	23.32	105	3847	24.94	106
6500	3403	2915	12.62		2969	13.25		3077	14.52		3183	15.84		3287	17.20		3389	18.61		3490	20.06		3589	21.55		3686	23.10		3783	24.70	106			
7000	3665	2998	13.99		3050	14.64		3153	15.94		3254	17.29		3354	18.68		3452	20.12		3547	21.61		3642	23.12		3736	24.68		3829	26.28				
7500	3927	3087	15.48	100	3137	16.16	102	3236	17.54	102	3333	18.94	102	3428	20.37	104	3522	21.84	104	3613	23.34	104	3705	24.88	106	3795	26.45	107						
8000	4188	3181	17.13		3229	17.84		3324	19.27		3417	20.73		3508	22.22		3598	23.72		3686	25.25		3774	26.82	107	3860	28.43							
8500	4450	3278	18.90		3325	19.64		3417	21.15		3506	22.67		3594	24.22		3680	25.78		3766	27.37	105	3850	28.96										
9000	4712	3380	20.82	101	3425	21.61	103	3513	23.19	103	3600	24.78	103	3684	26.39	105	3768	28.00	106	3850	29.64	106												
9500	4974	3484	22.87		3528	23.70		3613	25.37		3697	27.04		3779	28.71	106	3859	30.41																
10000	5236	3592	25.05		3633	25.93		3715	27.68		3797	29.44		3876	31.19																			
10500	5497	3701	27.38		3741	28.30		3820	30.16	104																								
11000	5759	3812	29.88	102	3851	30.85	104																											

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™

SWSI 200

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
20"	2.440 SQ. FT.	2.30 SQ. FT.	F.P.M. = 5.23 x RPM	.900 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
1800	783	520	0.12	62	579	0.16	66	633	0.21	68	686	0.25	70	736	0.30	72	785	0.35	72	832	0.41	74	922	0.54	76										
2000	870	552	0.14		607	0.18		658	0.23		708	0.28		754	0.33		800	0.37		845	0.44		930	0.57		1010	0.70	80						
2200	957	585	0.18		637	0.21		685	0.27		731	0.31		776	0.36		819	0.41		861	0.47		941	0.61	78	1019	0.74		1164	1.05	82			
2400	1043	620	0.21	63	668	0.26	67	714	0.31	69	758	0.35	71	800	0.41	73	840	0.46	73	881	0.54	75	957	0.66	79	1031	0.80	81	1170	1.11	83	1300	1.45	85
2600	1130	655	0.23		701	0.30		745	0.35		786	0.41		826	0.45		865	0.53		903	0.58		975	0.71		1046	0.85		1179	1.16		1305	1.51	
2800	1217	691	0.28		734	0.33		777	0.40		816	0.45		855	0.53		891	0.58		927	0.65		997	0.78		1064	0.92		1192	1.24		1313	1.59	
3200	1391	765	0.36	64	805	0.44	68	843	0.52	70	880	0.58	72	915	0.65	74	949	0.71	76	982	0.79	78	1045	0.94	80	1107	1.09	82	1226	1.41	84	1338	1.77	86
3600	1565	843	0.47	65	878	0.56	69	913	0.63	71	947	0.71	75	979	0.80	77	1010	0.89	77	1041	0.96	79	1101	1.11	81	1159	1.27	83	1268	1.61	85	1372	1.98	87
4000	1739	921	0.62		953	0.70	71	985	0.79	73	1016	0.89		1046	0.97		1075	1.06		1104	1.15		1161	1.33		1214	1.49		1316	1.86		1415	2.24	
4400	1913	1000	0.78	67	1030	0.88		1059	0.97		1088	1.07		1117	1.16		1143	1.27		1171	1.37		1224	1.57		1274	1.75		1371	2.14		1463	2.54	
4800	2087	1080	0.97	68	1108	1.07	72	1135	1.17	74	1162	1.30	76	1188	1.40	78	1214	1.50	78	1239	1.61	80	1289	1.82	82	1337	2.03	84	1429	2.45	86	1516	2.89	88
5200	2261	1162	1.19		1187	1.31		1212	1.42		1237	1.55		1262	1.66		1286	1.77		1310	1.88		1357	2.12		1402	2.36		1489	2.80		1573	3.27	
5600	2435	1243	1.45		1267	1.59		1291	1.69		1314	1.82		1337	1.95		1360	2.08		1382	2.19		1427	2.45		1470	2.70		1553	3.20		1633	3.69	
6000	2609	1326	1.75	69	1348	1.87	73	1370	2.01	75	1392	2.14	77	1413	2.29	79	1435	2.41	79	1456	2.54	81	1498	2.82	83	1539	3.09	85	1618	3.63	87	1694	4.14	89
6400	2783	1408	2.10		1430	2.22		1450	2.36		1471	2.50		1490	2.66		1511	2.80		1532	2.93		1571	3.21		1610	3.50		1686	4.09		1758	4.65	
6800	2957	1491	2.48		1511	2.62		1531	2.76		1550	2.91		1569	3.06		1588	3.21		1608	3.37	82	1645	3.68		1682	3.97		1755	4.58		1825	5.19	
7200	31.3	1575	2.91	70	1593	3.06	74	1612	3.21	76	1629	3.37	78	1648	3.51	80	1667	3.69	80	1684	3.83		1720	4.16	84	1756	4.48	86	1825	5.14	88	1892	5.77	90
7600	3304	1658	3.39		1676	3.54		1693	3.70		1711	3.86		1728	4.02		1745	4.20		1762	4.37		1796	4.71		1830	5.05		1897	5.72		1961	6.41	
8000	3478	1742	3.90		1758	4.07		1775	4.24		1791	4.42		1808	4.58		1824	4.76		1841	4.94		1874	5.29		1906	5.65		1969	6.38		2032	7.09	
8400	3652	1826	4.50		1842	4.68		1857	4.83		1874	5.02		1889	5.20		1904	5.39		1920	5.56		1952	5.92		1983	6.30		2044	7.06		2103	7.81	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2800	1217	1429	1.98	87																														
3200	1391	1445	2.15	88	1549	2.58	88	1648	3.02	90	1744	3.50	92																					
3600	1565	1473	2.38	89	1570	2.80	89	1664	3.25	91	1755	3.73	93	1844	4.24	93	1929	4.78	93															
4000	1739	1509	2.65		1601	3.08		1689	3.54		1775	4.02		1859	4.54		1942	5.07		2021	5.63	95	2099	6.20	95	2175	6.80	95						
4400	1913	1552	2.96		1638	3.40		1721	3.86		1804	4.37		1883	4.88		1961	5.41		2037	5.97		2113	6.56		2186	7.16		2258	7.79	97	2328	8.44	97
4800	2087	1601	3.32	90	1682	3.78	90	1761	4.26	92	1839	4.76	94	1914	5.27	94	1989	5.83	94	2061	6.39	96	2133	6.98	96	2203	7.58	96	2272	8.22	98	2340	8.86	98
5200	2261	1653	3.73		1730	4.18		1806	4.71		1880	5.22		1952	5.75		2023	6.30		2092	6.86		2160	7.47		2228	8.06		2294	8.71		2359	9.35	
5600	2435	1709	4.17		1783	4.69		1855	5.20		1925	5.72		1994	6.26		2062	6.84		2128	7.41		2194	8.01		2258	8.63		2322	9.27		2384	9.93	
6000	2609	1767	4.68	91	1839	5.20	91	1908	5.75	93	1976	6.28	95	2041	6.86	95	2106	7.43	95	2170	8.02	97	2232	8.64	97	2294	9.27	97	2356	9.90	99	2415	10.57	99
6400	2783	1829	5.20		1897	5.77		1963	6.34		2028	6.90		2092	7.50		2154	8.09		2216	8.69		2275	9.32		2335	9.96		2394	10.61		2451	11.29	
6800	2957	1892	5.79		1958	6.38		2022	6.98		2085	7.58		2145	7.57		2205	8.81		2264	9.43		2323	10.07		2379	10.73		2436	11.40		2492	12.09	
7200	3130	1957	6.42	92	2021	7.03	92	2083	7.66	94	2142	8.31	96	2202	8.95	96	2260	9.58	96	2316	10.24	98	2372	10.90	98	2428	11.58	98	2482	12.27	100	2536	12.96	100
7600	3304	2024	7.09		2086	7.76		2144	8.42		2203	9.08		2260	9.74		2316	10.43		2371	11.10		2426	11.78		2479	12.47		2532	13.19		2583	13.91	
8000	3478	2092	7.81		2152	8.50		2209	9.21		2265	9.92		2321	10.61		2375	11.32		2429	12.02		2480	12.73		2533	13.46		2583	14.19		2634	14.91	
8400	3652	2162	8.57		2219	9.32		2274	9.96		2329	10.80		2382	11.53		2436	12.27		2487	13.01		2538	13.75		2588	14.50		2638	15.25		2686	16.02	
8800	3826	2232	9.38		2288	10.19		2341	10.96		2395	11.73		2446	12.50		2498	13.28		2548	14.01		2596	14.82		2646	15.59		2694	16.39		2742	17.17	
9200	4000	2304	10.28	93	2357	11.10	93	2409	11.92	95	2461	12.72	97	2511	13.53	97	2562	14.35	97	2610	15.15	99	2658	15.97	99	2706	16.77	99	2752	17.58	101	2799	18.40	101
9600	4174	2376	11.22		2428	12.08		2478	12.93		2529	13.78		2578	14.64		2627	15.48		2674	16.33		2720	17.17		2767	18.00		2812	18.86		2857	19.70	
10000	4348	2449	12.21		2500	13.12		2549	14.02		2598	14.89		2645	15.79		2692	16.67		2739	17.55		2784	18.43		2829	19.31		2874	20.19		2917	21.07	
10400	4522	2524	13.28		2572	14.22		2620	15.15		2667	16.08		2713	17.01		2759	17.93		2805	18.84		2849	19.76		2892	20.67		2937	21.59		2979	22.51	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
4600	2087	2407	9.53	98	2473	10.22	100	2601	11.64	100																								
5200	2261	2424	10.04		2486	10.72		2611	12.15		2731	13.66	100																					
5600	2435	2446	10.61		2507	11.29		2627	12.75		2743	14.24		2857	15.84	102	2967	17.47	102															
6000	2609	2475	11.25	99	2533	11.95	101	2648	13.40	101	2761	14.91	101	2872	16.51	103	2979	18.16	103	3085	19.86	103	3188	21.63	105										
6400	2783	2508	11.98		2565	12.69		2676	14.14		2784	15.67		2891	17.26		2995	18.91		3098	20.63		3198	22.41		3297	24.24	105	3394	26.11	105	3489	28.05	105
6800	2957	2546	12.78		2601	13.50		2708	14.97		2813	16.51		2916	18.11		3017	19.78		3117	21.51		3215	23.28		3310	25.12		3404	27.01		3497	28.94	
7200	3130	2589	13.66	100	2642	14.40	102	2745	15.88	102	2846	17.43	102	2946	19.06	104	3044	20.71	104	3140	22.44	104	3235	24.24	106	3328	26.08	106	3420	27.99	106	3510	29.94	106
7600	3304	2635	14.64		2685	15.36		2785	16.88		2884	18.46		2980	20.09		3075	21.77		3168	23.50		3260	25.31		3351	27.16		3440	29.07		3528	31.02	
8000	3478	2683	15.67		2733	16.42		2829	17.97		2924	19.57		3018	21.22		3110	22.92		3200	24.67		3290	26.47		3377	28.34		3465	30.25				
8400	3652	2735	16.77		2782	17.55		2877	19.13		2968	20.76		3059	22.43		3149	24.15		3236	25.93		3323	27.74		3408	29.62		3493	31.54				
8800	3826	2788	17.95		2835	18.76		2926	20.37		3016	22.05		3103	23.75		3190	25.49		3275	27.27		3360	29.12		3443	31.00		3526	32.94				
9200	4000	2844	19.22	101	2889	20.04	103	2978	21.70	103	3065	23.41	103	3151	25.15	105	3235	26.92	105	3318	28.75	105	3400	30.61	107	3481	32.52	107						
9600	4174	2902	20.55		2946	21.40		3032	23.12		3117	24.86		3200	26.65		3283	28.45		3363	30.30		3443	32.20		3522	34.11							
10000	4348	2960	21.95		3003	22.84		3088	24.61		3170	26.41		3252	28.23		3332	30.08		3411	31.95		3489	33.89										
10400	4522	3021	23.41		3063	24.34		3146	26.17		3226	28.03		3305	29.89		3384	31.80		3461	33.71		3537	35.66										
10800	4696	3083	24.96		3124	25.91		3204	27.81		3284	29.72		3361	31.64		3437	33.60		3512	35.57													
11200	4870	3146	26.58		3186	27.56		3265	29.53		3341	31.50		3418	33.49		3493	35.48																
11600	5043	3211	28.27	102	3250	29.28	104	3326	31.33	104	3402	33.37	104	3476	35.40	106																		
12000	5217	3275	30.05		3314	31.09		3389	33.20		3463	35.31		3536	37.41																			
12400	5391	3341	31.89		3378	32.98		3453	35.16		3525	37.34																						

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

SWSI 222

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
22 1/4"	3.020 SQ. FT.	2.85 SQ. FT.	F.P.M. = 5.83 x RPM	1.535 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2200	772	465	0.14	62	518	0.20	67	568	0.25	69	615	0.30	71	660	0.35	73	705	0.42	73	747	0.49	75	828	0.65	77										
2400	842	487	0.16	64	538	0.23	68	585	0.28	70	629	0.33	72	673	0.40	74	715	0.45	74	755	0.54	76	833	0.68	78	906	0.85	80						
2600	912	511	0.20		559	0.25		604	0.31		647	0.36		688	0.42		727	0.49		766	0.58		840	0.72		912	0.89								
2800	982	536	0.23		581	0.29		624	0.35		664	0.41		703	0.46		742	0.55		779	0.62		851	0.77		919	0.94		1048	1.33	83			
3000	1053	560	0.26	65	605	0.31	69	645	0.39	71	684	0.45	73	722	0.53	75	758	0.60	75	794	0.66	77	862	0.82	79	928	0.99	81	1053	1.37	84	1169	1.81	86
3500	1228	626	0.35		664	0.41		702	0.49		737	0.58		771	0.66		804	0.72		837	0.81		899	0.97		959	1.15	82	1073	1.55		1181	1.98	
4000	1404	693	0.45	66	729	0.56	70	762	0.65	72	795	0.72	74	826	0.82	76	857	0.91	76	887	0.99	78	943	1.16	81	999	1.35	83	1104	1.75	85	1205	2.19	87
4500	1579	763	0.61	67	795	0.70	71	826	0.81	73	856	0.91	75	885	1.00	77	914	1.11	77	941	1.19	80	994	1.41	82	1045	1.61	84	1143	2.03	86	1237	2.48	88
5000	1754	834	0.78		863	0.89		892	1.00		920	1.11		947	1.22	78	973	1.33	78	999	1.45		1049	1.67		1097	1.88		1189	2.34		1276	2.80	
5500	1930	906	0.99		933	1.11		959	1.24	74	985	1.35	76	1010	1.47		1035	1.61		1059	1.72		1106	1.97		1152	2.21		1238	2.70		1320	3.20	
6000	2105	980	1.24	69	1004	1.37	73	1029	1.49	75	1053	1.63	77	1075	1.77	79	1099	1.91	79	1122	2.03	81	1166	2.31	83	1208	2.58	85	1291	3.09	87	1369	3.63	89
6500	2281	1054	1.51		1076	1.67		1099	1.81		1121	1.95		1143	2.10		1165	2.24		1186	2.39		1228	2.67		1268	2.96		1346	3.54		1420	4.11	
7000	2456	1128	1.84		1149	2.01		1170	2.15		1191	2.32		1211	2.47		1232	2.62		1251	2.78		1292	3.09		1330	3.40		1404	4.02		1475	4.64	
7500	2632	1203	2.22	70	1223	2.40	74	1242	2.56	76	1262	2.73	78	1280	2.89	80	1300	3.06	80	1319	3.21	82	1357	3.55	84	1393	3.90	86	1464	4.55	88	1532	5.22	90
8000	2807	1278	2.66		1297	2.83		1314	3.00		1333	3.17		1351	3.35		1369	3.54		1387	3.71		1422	4.07		1457	4.43		1525	5.15		1590	5.86	
8500	2982	1353	3.16		1371	3.34		1388	3.50		1405	3.70		1422	3.88		1440	4.07		1456	4.26		1490	4.64		1523	5.02		1588	5.79		1650	6.53	
9000	3158	1429	3.70	71	1445	3.88	75	1462	4.07	77	1478	4.27	79	1495	4.46	81	1511	4.66	81	1526	4.87	83	1558	5.27	85	1590	5.67	87	1652	6.49	89	1712	7.27	91
9500	3333	1505	4.32		1520	4.50		1536	4.71		1551	4.90		1567	5.12		1582	5.31		1598	5.53		1628	5.94		1658	6.38		1717	7.24		1775	8.08	
10000	3509	1581	4.97		1595	5.19		1610	5.40		1625	5.60		1640	5.83		1654	6.05		1669	626.24		1698	6.70		1727	7.15		1784	8.04		1839	8.95	
10500	3684	1657	5.72		1671	5.93		1685	6.16		1700	6.38		1713	6.60		1727	6.83		1741	7.06		1769	7.52		1796	7.98		1851	8.92		1904	9.87	92

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
3500	1228	1284	2.45	88	1383	2.97	88																											
4000	1404	1301	2.69	89	1394	3.21	89	1482	3.76	91	1569	4.36	93																					
4500	1579	1327	2.97	90	1413	3.50	90	1498	4.07	92	1579	4.66	94	1658	5.29	94	1735	5.93	94															
5000	1754	1360	3.32		1441	3.85		1520	4.42		1598	5.02		1673	5.65		1747	6.30		1818	7.00	96	1888	7.73	97	1956	8.46	97						
5500	1930	1400	3.71		1476	4.27		1551	4.84		1624	5.46		1695	6.09		1765	6.75		1833	7.46		1900	8.18		1966	8.92		2030	9.69	99	2094	10.50	99
6000	2105	1444	4.17	91	1516	4.74	91	1587	5.35	93	1656	5.96	95	1724	6.60	95	1791	7.27	95	1856	7.98	97	1920	8.71	98	1983	9.47	98	2045	10.24	100	2105	11.05	100
6500	2281	1492	4.69		1561	5.27		1628	5.90		1694	6.53		1759	7.20		1822	7.88		1885	8.58	98	1946	9.32		2005	10.07		2065	10.87		2123	11.67	
7000	2456	1543	5.25		1610	5.89		1674	6.52		1737	7.19		1798	7.86		1859	8.55		1918	9.27		1977	10.02		2034	10.79		2091	11.59		2147	12.39	
7500	2632	1598	5.87	92	1660	6.54	92	1722	7.21	94	1783	7.89	96	1842	8.60	96	1899	9.32	97	1956	10.04	99	2013	10.82	99	2067	11.59	99	2122	12.39	101	2175	13.21	101
8000	2807	1653	6.56		1714	7.26		1774	7.97		1831	8.67		1888	9.41	97	1944	10.15		1998	10.92		2052	11.69		2105	12.47		2157	13.30		2209	14.12	
8500	2982	1711	7.29		1770	8.03		1826	8.79		1883	9.53	97	1937	10.30		1991	11.07		2044	11.85		2095	12.65		2147	13.46		2196	14.28		2246	15.13	
9000	3158	1771	8.08	93	1827	8.87	93	1882	9.66	96	1935	10.44	98	1989	11.24	98	2040	12.04	98	2091	12.86	100	2141	13.68	100	2190	14.52	100	2239	15.37	102	2287	16.23	102
9500	3333	1831	8.92		1886	9.76	94	1938	10.59		1991	11.43		2041	12.27		2092	13.11		2141	13.96		2190	14.81		2237	15.67		2285	16.55		2331	17.44	
10000	3509	1893	9.84	94	1946	10.72		1997	11.60		2048	12.47		2097	13.35		2145	14.24		2193	15.12		2240	16.02		2287	16.91		2332	17.81		2376	18.73	
10500	3684	1956	10.82		2007	11.75		2057	12.67		2106	13.61		2154	14.52		2201	15.45		2247	16.36		2293	17.28		2337	18.23		2381	19.16		2425	20.12	
11000	3860	2021	11.86		2069	12.83		2118	13.81		2165	14.79		2211	15.76		2258	16.72		2302	17.69		2346	18.64		2390	19.63		2433	20.60		2475	21.58	
11500	4035	2086	12.98	95	2133	14.01	95	2181	15.04	97	2226	16.05	99	2271	17.07	99	2315	18.07	99	2359	19.09	101	2402	20.10	101	2444	21.09	101	2486	22.12	103	2528	23.13	103
12000	4211	2152	14.17		2198	15.25		2243	16.33		2288	17.39		2332	18.46		2374	19.50		2417	20.56		2459	21.61		2500	22.67		2541	23.72		2581	24.78	
12500	4386	2219	15.45		2263	16.56		2307	17.69		2350	18.81		2393	19.91		2435	21.02		2476	22.12		2517	23.22		2557	24.31		2597	25.41		2636	26.50	
13000	4561	2286	16.80		2329	17.97		2372	19.13		2413	20.30		2456	21.45		2496	22.62		2536	23.76		2576	24.90		2615	26.04		2654	27.18		2692	28.34	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
6000	2105	2165	11.88	100	2224	12.72	102	2338	14.49	102																								
6500	2281	2181	12.50		2237	13.37		2348	15.13		2456	17.01	102	2561	18.94	104																		
7000	2456	2202	13.24		2257	14.09		2364	15.87		2468	17.75		2570	19.71		2669	21.73	104	2766	23.83	104												
7500	2632	2229	14.05	101	2281	14.91	103	2384	16.72	103	2484	18.60	103	2583	20.56	105	2680	22.61	105	2774	24.73	105	2866	26.90	107	2957	29.16	107						
8000	2807	2260	14.97		2310	15.84		2409	17.65		2507	19.55		2602	21.52		2696	23.58		2787	25.71		2877	27.89		2965	30.16		3052	32.51	107	3136	34.89	107
8500	2982	2295	16.00		2344	16.88		2440	18.72		2534	20.61		2625	22.61		2716	24.67		2805	26.80		2892	29.02		2978	31.28		3062	33.63		3146	36.03	
9000	3158	2334	17.13	102	2381	18.03	104	2474	19.87	104	2565	21.81	104	2653	23.79	106	2741	25.86	106	2826	28.02	106	2912	30.23	108	2995	32.52	108	3078	34.87	108	3158	37.30	108
9500	3333	2376	18.34		2422	19.26		2511	21.15		2599	23.09		2685	25.11		2770	27.20		2853	29.36		2936	31.59		3016	33.88		3096	36.24		3174	38.66	
10000	3509	2422	19.65		2465	20.60		2551	22.52		2637	24.49		2720	26.54		2802	28.65		2883	30.82		2962	33.06		3042	35.37		3119	37.75				
10500	3684	2468	21.07		2511	22.03		2595	23.99		2677	26.02		2758	28.09		2838	30.23		2916	32.41		2994	34.68		3070	37.00		3146	39.40				
11000	3860	2517	22.57		2559	23.57		2640	25.57		2720	27.66		2799	29.76		2877	31.93		2953	34.14		3028	36.43		3102	38.78		3175	41.17				
11500	4035	2568	24.16	103	2609	25.18	105	2688	27.26	105	2766	29.38	105	2842	31.54	107	2918	33.75	107	2992	36.01	107	3065	38.32	109	3137	40.69	109						
12000	4211	2620	25.83		2660	26.90		2738	29.05		2813	31.23		2888	33.43		2961	35.69		3033	37.98		3104	40.32		3174	42.72							
12500	4386	2675	27.61		2713	28.71		2788	30.92		2862	33.18		2934	35.43		3007	37.75		3077	40.09		3147	42.47										
13000	4561	2730	29.48		2768	30.61		2841	32.91		2913	35.21		2984	37.55		3054	39.91		3123	42.30													
13500	4737	2786	31.43		2823	32.61		2894	34.98		2965	37.37		3034	39.78		3102	42.19		3170	44.64													
14000	4912	2844	33.48		2880	34.69		2950	37.15		3019	39.61		3087	42.10		3153	44.59																
14500	5088	2903	35.61	104	2938	36.89	106	3006	39.43	106	3074	41.98	106	3139	44.53	108																		
15000	5263	2962	37.86		2996	39.17		3063	41.81		3129	44.44																						
15500	5439	3022	40.20		3055	41.55		3121	44.29																									

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™

SWSI 245

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
24 1/2"	3.640 SQ. FT.	3.45 SQ. FT.	F.P.M. = 6.41 x RPM	2.485 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
2500	725	409	0.15	63	458	0.21	67	506	0.28	70	550	0.33	72	593	0.41	74	634	0.49	74	675	0.58	76												
3000	870	451	0.21	64	495	0.28	69	538	0.35	71	578	0.41	73	616	0.49	75	653	0.58	75	689	0.66	77	759	0.85	79	825	1.06	81						
3500	1014	496	0.29	65	537	0.35		575	0.44		611	0.52		646	0.60		680	0.68		713	0.77		777	0.96		837	1.16		953	1.63	84				
4000	1159	544	0.36	66	581	0.45	70	616	0.55	72	650	0.63	74	682	0.72	76	713	0.81	76	744	0.91	78	802	1.11	80	858	1.32	82	966	1.78	85	1067	2.32	87
4500	1304	594	0.46	67	628	0.58	71	660	0.67	73	691	0.78	75	721	0.88	77	751	0.97	77	779	1.07	79	833	1.29	81	886	1.49	83	986	1.98	86	1080	2.50	88
5000	1449	646	0.61		677	0.71		707	0.82		735	0.94		763	1.05		791	1.15		817	1.26		868	1.49		918	1.72		1011	2.21		1101	2.74	
5500	1594	698	0.74		726	0.88		754	0.99		782	1.11		808	1.24		833	1.35		858	1.47		906	1.72		953	1.98	84	1041	2.48		1126	3.04	
6000	1739	751	0.92	68	778	1.06	72	803	1.19	74	829	1.33	76	854	1.45	78	878	1.59	78	901	1.72	80	947	1.98	83	991	2.25	85	1074	2.80	87	1155	3.37	89
6500	1884	805	1.11		830	1.26		854	1.41		878	1.57		901	1.71		924	1.84		947	1.99	81	990	2.29		1031	2.56		1111	3.13		1188	3.73	
7000	2029	860	1.35		883	1.50		905	1.67		928	1.82		950	1.98	79	971	2.14	79	993	2.29		1034	2.60		1073	2.91		1149	3.52		1223	4.16	
7500	2174	915	1.63	69	936	1.78	73	958	1.95	76	979	2.12	78	999	2.29	80	1020	2.45	80	1040	2.62	82	1079	2.96	84	1118	3.30	86	1191	3.94	88	1260	4.61	90
8000	2319	970	1.93	70	991	2.10	74	1010	2.27		1030	2.44		1050	2.62		1069	2.80		1089	2.99		1126	3.35		1163	3.70		1233	4.40		1300	5.10	
8500	2464	1026	2.27		1045	2.44		1064	2.62		1083	2.82		1101	3.00		1120	3.20		1138	3.39		1174	3.76		1209	4.14		1276	4.89		1340	5.64	
9000	2609	1082	2.64	71	1100	2.83	75	1118	3.02	77	1136	3.21	79	1154	3.42	81	1171	3.63	81	1189	3.83	83	1223	4.22	85	1256	4.64	87	1320	5.43	89	1383	6.22	91
9500	2754	1138	3.06		1156	3.25		1172	3.45		1189	3.66		1206	3.88		1223	4.09		1239	4.30		1272	4.73		1304	5.15		1367	6.00		1427	6.85	
10000	2899	1195	3.51		1210	3.73		1227	3.94		1243	4.16		1259	4.38		1275	4.60		1291	4.83		1323	5.27		1353	5.72		1413	6.62		1471	7.51	
10500	3043	1251	4.03		1267	4.24		1282	4.46		1298	4.69		1312	4.93		1328	5.15		1343	5.40		1373	5.86		1403	6.34		1461	7.27		1516	8.22	
11000	3188	1308	4.58		1323	4.81		1337	5.06		1352	5.29		1367	5.53		1381	5.76		1396	6.00		1424	6.51		1453	7.00		1509	7.98		1563	8.97	
11500	3333	1365	5.20	72	1379	5.43	76	1393	5.68	78	1407	5.92	80	1421	6.18	82	1435	6.43	82	1449	6.68	84	1477	7.20	86	1504	7.71	88	1557	8.74	90	1610	9.77	92
12000	3478	1421	5.86		1435	6.12		1448	6.36		1462	6.62		1476	6.88		1489	7.14		1503	7.41		1529	7.93		1555	8.48		1608	9.56		1658	10.63	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
4500	1304	1172	3.09	90	1259	3.73	90																											
5000	1449	1187	3.34		1269	3.97		1349	4.65	92	1426	5.38	94																					
5500	1594	1207	3.63		1285	4.27		1362	4.94		1435	5.68		1507	6.44	94	1576	7.24	94															
6000	1739	1232	3.97	91	1306	4.62	91	1378	5.31	93	1449	6.05	95	1517	6.80	95	1585	7.61	95	1650	8.44	97	1714	9.32	97	1776	0.45	97						
6500	1884	1261	4.37		1332	5.02		1401	5.72		1468	6.45		1534	7.22		1598	8.03		1660	8.87		1722	9.74		1783	10.66		1842	11.59	99	1899	12.56	100
7000	2029	1293	4.80		1361	5.49		1427	6.18		1490	6.94		1553	7.71		1615	8.53		1676	9.37		1735	10.26		1793	11.15		1850	12.10		1907	13.07	
7500	2174	1327	5.29	92	1392	5.99	92	1455	6.71	94	1517	7.47	96	1577	8.25	96	1637	9.08	96	1694	9.93	98	1752	10.82	98	1808	11.73	98	1863	12.69	100	1918	13.66	101
8000	2319	1364	5.82		1427	6.54		1487	7.29		1546	8.06		1604	8.87		1661	9.70		1717	10.56		1772	11.46		1826	12.37		1880	13.33	101	1932	14.31	
8500	2464	1403	6.39		1463	7.15		1521	7.92		1578	8.73		1634	9.54		1689	10.38		1743	11.27		1795	12.17		1848	13.09		1899	14.05		1950	15.05	
9000	2609	1443	7.00	93	1501	7.81	93	1557	8.61	95	1612	9.43	97	1667	10.29	97	1719	11.15	97	1771	12.04	99	1822	12.96	99	1873	13.88	99	1922	14.85	102	1971	15.85	102
9500	2754	1484	7.66		1541	8.51		1594	9.35		1648	10.21		1701	11.07		1751	11.96		1801	12.88		1851	13.81		1900	14.76	100	1948	15.74		1996	16.75	
10000	2899	1527	8.38		1581	9.26		1635	10.15		1686	11.03		1737	11.93		1786	12.85		1834	13.78		1883	14.74	100	1930	15.71		1977	16.70		2022	17.73	
10500	3043	1571	9.15		1623	10.05		1675	10.98		1725	11.90		1774	12.83		1822	13.78		1869	14.75		1916	15.72		1961	16.72		2006	17.73		2052	18.78	
11000	3188	1615	9.93		1667	10.90		1716	11.88		1765	12.83		1813	13.81		1859	14.79		1906	15.79	100	1951	16.78		1995	17.80		2039	18.84		2083	19.90	
11500	3333	1661	10.79	94	1711	11.80	94	1759	12.81	96	1807	13.82	98	1853	14.84	98	1898	15.85	99	1943	16.88	101	1987	17.91	101	2030	18.96	101	2073	20.01	103	2116	21.09	103
12000	3478	1708	11.69		1756	12.76		1803	13.81		1849	14.86		1894	15.92		1938	16.97		1982	18.04		2025	19.10		2067	20.19		2108	21.28		2150	22.38	
13000	3768	1803	13.66		1848	14.81		1892	15.98	97	1936	17.13	99	1980	18.26	99	2021	19.39		2063	20.55		2103	21.69		2143	22.84		2184	23.99		2223	25.15	
14000	4058	1899	15.87	95	1943	17.11	95	1985	18.36		2027	19.60		2067	20.84		2107	22.07		2148	23.31		2187	24.53		2225	25.76		2263	27.00		2300	28.23	
15000	4348	1999	18.31	96	2039	19.67	96	2080	21.00	98	2120	22.35	100	2159	23.67	100	2197	25.01	100	2235	26.33	102	2272	27.63	102	2309	28.96	102	2345	30.27	104	2381	31.59	104
16000	4638	2100	21.03		2139	22.47		2177	23.93		2215	25.35		2253	26.78		2289	28.19		2325	29.62		2361	31.02		2396	32.45		2431	33.84	105	2465	35.24	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
7500	2174	1970	14.68	101	2024	15.71	103	2126	17.85	103	2226	20.10	103																					
8000	2319	1984	15.33		2035	16.36		2135	18.52		2232	20.79		2327	23.13	105																		
8500	2464	2000	16.07		2050	17.10		2147	19.27		2241	21.55		2334	23.91		2424	26.37	105	2512	28.92	105												
9000	2609	2020	16.88	102	2068	17.93	104	2162	20.10	104	2254	22.38	104	2344	24.76	106	2432	27.24	106	2517	29.80	106	2602	32.46	108									
9500	2754	2042	17.78		2089	18.83		2181	21.03		2269	23.32		2357	25.71		2443	28.19		2527	30.77		2609	33.42		2690	36.15	108	2770	38.98	108			
10000	2899	2068	18.76		2113	19.83		2201	22.03		2288	24.34		2373	26.74		2457	29.22		2539	31.80		2619	34.47		2698	37.23		2776	40.07		2852	42.97	108
10500	3043	2095	19.83		2139	20.90		2225	23.13		2309	25.45		2392	27.85		2473	30.35		2553	32.94		2632	35.63		2709	38.40		2785	41.23		2859	44.16	
11000	3188	2125	20.96		2168	22.06		2252	24.31		2333	26.65		2413	29.07		2493	31.59		2571	34.20		2647	36.88		2722	39.66		2796	42.52		2870	45.44	
11500	3333	2157	22.19	103	2198	23.31	105	2279	25.60	105	2359	27.95	105	2437	30.41	107	2514	32.93	107	2590	35.55	107	2665	38.23	109	2739	41.01	109	2811	43.88	109	2883	46.82	109
12000	3478	2190	23.50		2230	24.64		2309	26.96		2388	29.33		2464	31.82		2538	34.37		2612	37.00		2685	39.72		2757	42.51		2828	45.38				
13000	3768	2261	26.34		2299	27.52		2374	29.94		2448	32.41		2521	34.94		2593	37.55		2663	40.23		2733	42.97		2801	45.79		2869	48.70				
14000	4058	2337	29.48		2373	30.71		2445	33.25		2515	35.82		2585	38.46		2653	41.13		2720	43.87		2787	46.68		2852	49.54							
15000	4348	2416	32.92	104	2451	34.23	106	2520	36.89	106	2587	39.60	106	2654	42.32	108	2719	45.10	108	2784	47.93	108	2848	50.82	110									
16000	4638	2499	36.66		2533	38.06		2599	40.87		2664	43.70		2727	46.57		2790	49.47		2852	52.40													
17000	4928	2585	40.70		2617	42.19		2681	45.17		2744	48.16		2805	51.16		2865	54.20																
18000	5217	2673	45.04	105	2704	46.64	107	2766	49.73	107	2826	52.94	107	2885	56.10	109																		
19000	5507	2763	49.73		2793	51.40		2853	54.74																									
20000	5797	2855	54.74		2885	56.52																												

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

SWSI 270

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
27"	4.350 SQ. FT.	4.19 SQ. FT.	F.P.M. = 7.075 x RPM	4.200 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
3300	788	375	0.21	64	419	0.28	68	460	0.35	70	501	0.45	73	539	0.55	75	575	0.63	75	610	0.73	77	676	0.94	79										
3600	859	392	0.23	65	435	0.31	69	474	0.40	72	512	0.49	74	548	0.58	76	582	0.68	76	616	0.79	78	680	1.01	80	741	1.24	82						
3900	931	412	0.28		451	0.35		488	0.45		524	0.55		558	0.63		592	0.74		624	0.85		686	1.07		744	1.33								
4200	1002	432	0.31		469	0.40		504	0.49		538	0.60		571	0.70		603	0.80		633	0.91		693	1.15		750	1.40		856	1.93	84			
4500	1074	452	0.35	66	486	0.45	71	520	0.56	73	553	0.66	75	584	0.75	77	615	0.88	77	645	0.99	79	702	1.24	81	757	1.49	83	859	2.03	85	955	2.62	88
4800	1146	474	0.41	67	506	0.52		538	0.62		569	0.71		599	0.83		628	0.94		657	1.06		713	1.32		765	1.58		864	2.14		958	2.74	
5100	1217	495	0.46		526	0.58		556	0.67		585	0.79		615	0.91		643	1.01		671	1.14		724	1.40		775	1.67		871	2.25		962	2.87	
5400	1289	518	0.54		547	0.65		575	0.74		604	0.85		630	0.99		658	1.09		685	1.24		736	1.49		786	1.77		880	2.36		967	3.00	
5700	1360	541	0.61	68	568	0.71	72	594	0.83	74	621	0.94	76	648	1.07	78	674	1.19	78	699	1.33	80	750	1.59	82	797	1.87	84	888	2.49	86	974	3.15	89
6000	1432	563	0.68		589	0.80		615	0.91		641	1.04		665	1.15		691	1.30		716	1.42		763	1.71		810	1.99		898	2.62		982	3.30	
6300	1504	586	0.77		611	0.89		636	1.00		660	1.13		684	1.26		709	1.40		732	1.52		779	1.82		824	2.13		909	2.76		991	3.44	
6600	1575	610	0.85		633	0.99		657	1.11		680	1.24		703	1.37		726	1.50		749	1.66		794	1.94		837	2.25		922	2.91		1001	3.61	
6900	1647	633	0.96		656	1.09		678	1.22		700	1.35		723	1.49		745	1.63		767	1.77		811	2.08		853	2.40		934	3.06		1011	3.77	
7900	1885	713	1.35	69	732	1.49	73	752	1.65	75	771	1.80	77	791	1.94	79	811	2.10	79	830	2.27	81	869	2.60	83	907	2.93	85	982	3.65	88	1053	4.42	90
8900	2124	793	1.84		811	2.01		828	2.18		846	2.34		863	2.50		881	2.67		898	2.85		933	3.21		967	3.57	86	1035	4.35		1100	5.15	
9900	2363	874	2.47	70	891	2.65	74	906	2.82	76	923	3.00	78	938	3.18	81	954	3.37	81	969	3.55	83	1000	3.96	85	1032	4.35	87	1094	5.16	89	1154	6.02	91
10900	2601	957	3.21	71	971	3.40	75	986	3.61	77	1000	3.80	79	1015	4.01		1029	4.20		1043	4.40		1071	4.81		1100	5.23		1157	6.12		1212	7.03	
11900	2840	1039	4.09	72	1053	4.32	76	1066	4.53	78	1079	4.73	80	1093	4.94	82	1106	5.16	82	1119	5.40	84	1145	5.83	86	1171	6.28	88	1223	7.22	90	1274	8.19	92
12900	3079	1122	5.15		1135	5.38		1147	5.60		1160	5.83		1172	6.07		1183	6.30		1196	6.53		1221	7.00		1244	7.50		1292	8.50		1340	9.52	
13900	3317	1205	6.36		1216	6.60		1229	6.85		1240	7.10		1251	7.35		1263	7.60		1274	7.84		1297	8.35		1319	8.87		1364	9.93		1408	11.01	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
4800	1146	1045	3.39	90																														
5100	1217	1048	3.52																															
5400	1289	1051	3.69		1130	4.38	91																											
5700	1360	1056	3.83	91	1133	4.55		1208	5.31	93																								
6000	1432	1061	4.01		1137	4.74		1210	5.50		1281	6.30	95																					
6300	1504	1068	4.17		1142	4.93		1214	5.72		1283	6.52		1350	7.36	95																		
6600	1575	1076	4.36		1149	5.13		1220	5.92		1286	6.75		1352	7.61		1416	8.49	95															
6900	1647	1086	4.54		1157	5.31		1225	6.15		1292	6.99		1355	7.87		1418	8.76		1479	9.67	97												
7900	1885	1122	5.22	92	1188	6.05	92	1251	6.93	94	1313	7.83	96	1374	8.76	96	1433	9.72	96	1489	10.70	98	1546	11.69	98	1601	12.72	98	1654	13.76	100	1707	14.81	100
8900	2124	1164	6.00		1226	6.89		1285	7.81		1344	8.77		1401	9.74		1456	10.75		1511	11.80		1564	12.86		1616	13.94		1667	15.04		1717	16.15	
9900	2363	1213	6.91	93	1271	7.86	93	1328	8.84	95	1382	9.84	97	1436	10.87	97	1488	11.93	97	1540	13.02	99	1589	14.12	99	1639	15.26	99	1688	16.41	101	1736	17.59	101
10900	2601	1267	7.98		1321	8.97		1374	9.98		1426	11.03		1477	12.11		1526	13.21		1575	14.36		1622	15.52		1670	16.72		1716	17.91		1761	19.16	
11900	2840	1326	9.19	94	1376	10.22	94	1426	11.29	96	1475	12.39	98	1522	13.52	98	1570	14.68	98	1616	15.85	100	1661	17.07	100	1706	18.31	100	1750	19.57	102	1793	20.86	102
12900	3079	1387	10.56		1435	11.66		1481	12.76		1527	13.92		1573	15.10		1617	16.30		1661	17.54		1705	18.80		1747	20.09		1789	21.38		1831	22.72	
13900	3317	1452	12.11		1497	13.27		1540	14.43		1583	15.63		1626	16.85		1669	18.11		1711	19.38		1752	20.70		1793	22.03		1833	23.39		1873	24.76	
14900	3556	1520	13.86	95	1561	15.05	95	1603	16.28	97	1643	17.52	99	1684	18.81	99	1724	20.12	99	1763	21.44	101	1803	22.80	101	1842	24.18	101	1881	25.57	104	1919	27.01	104
15900	3795	1589	15.81		1628	17.06		1668	18.34		1706	19.64		1744	20.96		1782	22.32		1820	23.70		1857	25.11		1894	26.54		1931	27.99		1967	29.46	
16900	4033	1661	17.95		1697	19.27		1735	20.61		1771	21.96		1807	23.35		1843	24.75		1879	26.18		1915	27.63	102	1950	29.12	102	1985	30.62		2020	32.16	
17900	4272	1735	20.34		1769	21.70		1804	23.10		1838	24.52		1872	25.97		1907	27.42	100	1941	28.91	102	1975	30.41		2009	31.95		2041	33.51		2075	35.06	
18900	4511	1756	22.28	96	1788	23.68	96	1819	25.10	98	1851	26.52	100	1883	27.97	101	1914	29.45	101	1946	30.95	103	1977	32.46	103	2009	34.00	103	2040	35.56	105	2071	37.12	105

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
8900	2124	1766	17.29	100	1815	18.46	102	1909	20.82	103																								
9900	2363	1782	18.80	101	1828	20.00	103	1919	22.48	104	2006	25.05	104	2092	27.66	106																		
10900	2601	1806	20.40		1850	21.67		1936	24.28		2021	26.96		2103	29.68		2183	32.48	106	2262	35.34	106	2338	38.23	108										
11900	2840	1836	22.16	102	1879	23.47	105	1961	26.18	105	2041	28.96	105	2121	31.82	107	2198	34.73	107	2273	37.72	107	2347	40.76	109	2419	43.84	109	2492	46.96	109	2561	50.14	109
12900	3079	1872	24.06		1912	25.45		1991	28.25		2069	31.14		2144	34.11		2219	37.14		2292	40.23		2363	43.38		2433	46.58		2502	49.84		2570	53.15	
13900	3317	1912	26.17	103	1951	27.58		2027	30.49		2101	33.50		2174	36.54		2245	39.69		2315	42.89		2384	46.15		2452	49.47		2518	52.84		2584	56.28	
14900	3556	1956	28.45	104	1993	29.93	106	2066	32.93	106	2138	36.02	106	2208	39.18	108	2277	42.42	108	2344	45.73	108	2411	49.10	110	2476	52.53	110	2541	56.02	110	2604	59.55	110
15900	3795	2003	30.96		2039	32.48		2109	35.58		2178	38.77		2246	42.03		2312	45.36		2378	48.76		2442	52.23		2506	55.77		2568	59.37				
16900	4033	2055	33.69		2089	35.26		2157	38.46		2223	41.75		2289	45.09		2353	48.53		2415	52.04		2477	55.61		2539	59.23		2599	62.92				
17900	4272	2108	36.66		2141	38.29		2206	41.58		2270	44.96		2333	48.41		2395	51.93		2457	55.54		2516	59.19		2576	62.92							
18900	4511	2165	39.88	105	2196	41.55	107	2259	44.95	107	2321	48.42	107	2381	51.97	109	2441	55.59	109	2500	59.28	109	2559	63.05	111	2616	66.88	111						
19900	4749	2224	43.38		2254	45.09		2313	48.59		2373	52.16		2432	55.80		2490	59.52		2547	63.30		2604	67.17										
20900	4988	2285	47.14		2313	48.90		2371	52.50		2428	56.18		2484	59.92		2541	63.73		2597	67.62													
21900	5227	2347	51.19		2375	53.00		2431	56.70		2485	60.48		2540	64.32		2595	68.24																
22900	5465	2412	55.54	106	2439	57.42	108	2492	61.22	108	2545	65.10	108	2598	69.05	110																		
23900	5704	2478	60.20		2504	62.13		2555	66.04		2606	70.04																						

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

GT-GNN™

SWSI 300

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
30"	5.355 SQ. FT.	5.17 SQ. FT.	F.P.M. = 7.86 x RPM	7.111 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
4000	774	334	0.25	66	375	0.33	70	412	0.44	72	448	0.55	74	483	0.66	76	516	0.78	76	548	0.91	78	608	1.15	80										
4400	851	351	0.29		389	0.39		425	0.49		459	0.61		491	0.71		523	0.83		553	0.97		612	1.24		666	1.51	82						
4800	928	370	0.33	67	405	0.44	71	439	0.56	73	471	0.66	75	503	0.79	77	533	0.91	77	561	1.05	79	617	1.33	81	670	1.63	83						
5200	1006	389	0.39		422	0.49		454	0.62		485	0.73		514	0.85		543	0.99		571	1.14		624	1.42		675	1.73		770	2.39	85			
5600	1083	410	0.45		440	0.57		470	0.68		500	0.81		527	0.94		555	1.09		582	1.24		632	1.52		682	1.84		774	2.52		860	3.25	87
6000	1161	431	0.53	68	459	0.65	72	487	0.77	74	515	0.91	76	542	1.04	78	569	1.17	78	593	1.33	80	643	1.65	82	690	1.98	84	779	2.67	86	862	3.42	88
6400	1238	452	0.61		479	0.72		505	0.85		531	0.99		557	1.14		582	1.29		607	1.43		654	1.75		700	2.10		786	2.82		867	3.59	
7400	1431	507	0.83	69	529	0.99	73	553	1.13	75	576	1.27	77	598	1.42	79	621	1.59	79	644	1.75	81	687	2.10	83	729	2.47	85	809	3.24	87	884	4.07	89
8400	1625	563	1.15		584	1.31		605	1.45		624	1.63		645	1.80		665	1.97		685	2.14		725	2.52		763	2.90		837	3.73		907	4.60	
9400	1818	621	1.51	70	640	1.69	74	657	1.87	76	676	2.04	78	694	2.22	80	713	2.41	80	730	2.62	82	766	3.00	84	801	3.42	86	870	4.28	88	936	5.20	90
10400	2012	679	1.98		696	2.17		713	2.36		729	2.54		746	2.74		762	2.96		779	3.16		812	3.57		844	4.02		907	4.94		969	5.91	
11400	2205	739	2.52	71	754	2.73	75	769	2.93	77	784	3.15	79	799	3.37	81	815	3.57	81	829	3.80	83	859	4.24	85	889	4.72	87	949	5.68	90	1006	6.70	91
12400	2398	797	3.17		812	3.39		826	3.61		840	3.83		854	4.07		868	4.30		882	4.54		909	5.02		937	5.50		992	6.53		1045	7.61	92
13400	2592	858	3.91		871	4.16		884	4.39		897	4.64		911	4.89		923	5.14		936	5.39		961	5.90	86	987	6.43	88	1038	7.50		1089	8.61	
14400	2785	918	4.79	72	930	5.05	76	942	5.30	79	955	5.56	81	967	5.83	83	979	6.09	83	991	6.34	85	1015	6.89	87	1038	7.45	89	1087	8.58	91	1133	9.76	93
15400	2979	977	5.77	73	990	6.05	77	1001	6.32		1012	6.60		1024	6.88		1035	7.16		1046	7.45		1069	8.02		1092	8.60		1136	9.79		1180	11.03	
16400	3172	1038	6.89		1050	7.20		1061	7.48		1071	7.78		1083	8.06		1093	8.37		1103	8.66		1125	9.27		1145	9.89		1188	11.14		1229	12.43	
17400	3366	1099	8.17		1109	8.48		1120	8.79		1130	9.09		1140	9.40		1151	9.72		1161	10.03		1180	10.66		1200	11.32		1240	12.62		1279	13.98	
18400	3559	1160	9.58	74	1170	9.90	78	1179	10.24	80	1190	10.56	82	1199	10.89	84	1209	11.22	84	1218	11.55	86	1237	12.22	88	1256	12.89	90	1294	14.28	92	1331	15.69	94
19400	3752	1221	11.15		1231	11.49		1240	11.85		1249	12.18		1259	12.52		1267	12.88		1276	13.21		1295	13.92		1312	14.64		1348	16.08		1383	17.54	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
6000	1161	943	4.40	91	1016.61	5.25	91																											
6400	1238	955	4.94		1024	5.84		1090	6.79	93	1153	7.78	95																					
7400	1431	974	5.53	92	1038	6.49	92	1101	7.50	94	1161	8.53	96	1218	9.61	96	1275	10.70	96	1331	11.83	98												
8400	1625	999	6.18		1060	7.21		1119	8.27		1175	9.35		1231	10.50		1284	11.64		1337	12.83		1388	14.04	98	1439	15.30	98	1487	16.55	100			
9400	1818	1029	6.93	93	1086	7.99	93	1141	9.12	95	1196	10.26	97	1248	11.43	97	1300	12.65	97	1349	13.91	99	1399	15.17	99	1447	16.48	99	1494	17.80	101	1540	19.14	101
10400	2012	1062	7.78		1117	8.90		1169	10.04		1221	11.24		1271	12.47		1319	13.75		1368	15.05		1414	16.39		1461	17.73		1506	19.13		1550	20.52	
11400	2205	1099	8.71	94	1151	9.89	94	1200	11.10	96	1249	12.35	98	1297	13.63	98	1344	14.95	98	1389	16.29	100	1435	17.67	100	1479	19.09	100	1522	20.52	102	1565	21.99	102
12400	2398	1138	9.79		1187	11.01		1235	12.25		1281	13.55		1327	14.87		1372	16.25		1416	17.65		1458	19.09		1502	20.55		1543	22.03		1584	23.55	
13400	2592	1180	10.98		1227	12.25		1272	13.53		1316	14.89		1360	16.27		1403	17.69		1445	19.13		1486	20.61		1527	22.12		1568	23.67		1607	25.24	
14400	2785	1225	12.30	95	1268	13.61	95	1311	14.97	97	1353	16.36	99	1396	17.78	99	1437	19.24	99	1477	20.74	101	1517	22.28	101	1556	23.83	101	1594	25.41	103	1633	27.04	103
15400	2979	1271	13.76		1312	15.12		1353	16.52		1394	17.97		1434	19.45		1473	20.96		1512	22.51		1550	24.08		1588	25.68		1625	27.32		1661	28.98	
16400	3172	1318	15.36		1358	16.78		1397	18.24		1436	19.73		1474	21.26		1511	22.82		1549	24.41		1585	26.04		1622	27.70		1657	29.38		1693	31.09	
17400	3366	1368	17.13		1405	18.60		1442	20.12		1479	21.66		1515	23.24		1551	24.83		1587	26.49		1623	28.15		1658	29.85		1692	31.59		1726	33.36	
18400	3559	1419	19.06	96	1454	20.58	96	1489	22.15	98	1524	23.75	100	1559	25.38	100	1593	27.04	100	1628	28.73	102	1662	30.46	102	1696	32.21	102	1729	33.99	104	1762	35.79	104
19400	3752	1471	21.15		1504	22.73		1538	24.35		1572	26.01		1605	27.70		1638	29.40		1671	31.14		1704	32.92		1736	34.72		1769	36.54		1800	38.41	
20400	3946	1523	23.41		1555	25.06		1587	26.75		1619	28.45		1651	30.20		1683	31.95		1715	33.75		1746	35.58		1778	37.43		1809	39.32		1840	41.22	
21400	4139	1577	25.86		1608	27.58		1639	29.32		1669	31.09		1700	32.88		1729	34.71		1760	36.54		1790	38.44		1820	40.32		1850	42.26	105	1880	44.22	105
22400	4333	1632	28.53		1660	30.30		1690	32.11		1719	33.92		1749	35.77		1778	37.66		1807	39.55		1836	41.49		1865	43.44		1894	45.42		1922	47.44	
23400	4526	1686	31.38	97	1714	33.23	97	1743	35.08	99	1771	36.97	101	1798	38.88	101	1827	40.81	101	1855	42.78	103	1883	44.75	104	1911	46.76	104	1938	48.79		1966	50.85	106
24400	4720	1637	30.47		1664	32.26		1692	34.06		1719	35.89		1746	37.75		1774	39.62		1801	41.53		1828	43.45		1855	45.40		1882	47.37		1909	49.37	107

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
10400	2012	1585	20.52	101	1629	21.89	103																											
11400	2205	1593	21.96	102	1637	23.41	104	1720	26.37	104	1801	29.43	104																					
12400	2398	1607	23.47		1648	24.99		1729	28.09		1808	31.26		1884	34.51	107	1958	37.81	107															
13400	2592	1624	25.09		1664	26.67		1742	29.87		1818	33.17		1892	36.52		1964	39.98		2035	43.49	107	2104	47.07	107									
14400	2785	1646	27.44	103	1684	28.45	105	1759	31.75	105	1832	35.17	105	1904	38.66	108	1975	42.21	108	2042	45.87	108	2110	49.56	108	2176	53.34	110	2240	57.17	110			
15400	2979	1671	28.69		1708	30.35		1780	33.76		1851	37.29		1920	40.89		1988	44.57		2055	48.33		2120	52.16		2184	56.05		2246	60.00		2308	64.01	110
16400	3172	1698	30.67		1733	32.40		1804	35.92		1873	39.54		1939	43.24		2005	47.04		2070	50.90		2133	54.85		2196	58.86		2257	62.93		2318	67.07	
17400	3366	1728	32.83		1762	34.60		1830	38.21		1897	41.93	106	1962	45.73		2026	49.63		2089	53.60		2151	57.67		2210	61.80		2270	65.98		2329	70.25	
18400	3559	1760	35.14	104	1794	36.97	106	1860	40.66	106	1924	44.50	107	1988	48.39	109	2050	52.40	109	2110	56.46	109	2170	60.64	109	2229	64.86	111	2287	69.16	111	2344	73.54	111
19400	3752	1795	37.63		1827	39.49		1891	43.30		1954	47.22		2015	51.21		2075	55.31		2134	59.48		2193	63.76		2250	68.08		2306	72.51				
20400	3946	1831	40.29		1863	42.20		1925	46.12		1985	50.11		2045	54.22		2103	58.40		2161	62.70		2218	67.04		2273	71.48		2328	76.01				
21400	4139	1869	43.16		1900	45.12	107	1960	49.11	107	2019	53.22		2076	57.41		2133	61.70		2190	66.07		2244	70.52		2299	75.08		2353	79.69				
22400	4333	1910	46.22	105	1938	48.22		1997	52.31		2054	56.52		2110	60.81		2165	65.19		2220	69.65		2274	74.22		2327	78.86							
23400	4526	1951	49.47	106	1980	51.53	108	2035	55.72	108	2091	60.03	108	2145	64.42	110	2199	68.88	110	2253	73.45	110	2305	78.09	112	2357	82.84	112						
24400	4720	1994	52.94		2021	55.05		2075	59.35		2129	63.75		2183	68.24		2235	72.80		2287	77.46		2337	82.20										
25400	4913	2037	56.65		2064	58.80		2117	63.21		2169	67.69		2221	72.29		2271	76.94		2322	81.70													
26400	5106	2083	60.56		2108	62.78		2160	67.28		2210	71.88		2260	76.57		2309	81.33															
27400	5300	2129	64.74		2154	67.01		2203	71.62		2253	76.31		2301	81.08		2349	85.95															
28400	5493	2176	69.15		2201	71.48		2248	76.18		2296	80.98		2343	85.87																			
29400	5687	2225	73.82	107	2248	76.19	109	2295	81.01	109	2341	85.92	109																					

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

SWSI 330

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
33"	6.49 SQ. FT.	6.26 SQ. FT.	F.P.M. = 8.65 x RPM	11.45 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
5000	799	309	0.31	67	345	0.42	71	379	0.56	73	411	0.67	75	442	0.82	77	471	95.79	78	500	1.11	80	553	1.42	82										
6000	958	343	0.42	68	374	0.57	72	404	0.70	74	433	0.83	76	460	0.99	78	487	1.15		514	1.32	81	563	1.66	83	611	2.03	85	698	2.80	87				
7000	1118	381	0.60		408	0.72		435	0.89		460	1.04		485	1.19	79	510	1.37		534	1.55		580	1.92		623	2.31		706	3.13		783	4.03	89
8000	1278	421	0.79	69	445	0.94	73	468	1.11	75	491	1.27	78	514	1.45	80	537	1.63	80	558	1.82	82	600	2.21	84	642	2.64	86	718	3.51	88	791	4.46	90
9000	1438	462	1.04	70	483	1.19	75	505	1.37	77	525	1.57	79	546	1.75	81	567	1.94	81	586	2.14	83	626	2.56	85	663	3.00	87	735	3.94	89	804	4.94	91
10000	1597	505	1.33	71	524	1.51		543	1.71		561	1.91		581	2.10		599	2.32		618	2.52		654	2.97		689	3.44		757	4.43		822	5.48	
11000	1757	548	1.69		565	1.88		583	2.10		599	2.32		617	2.52		634	2.74		651	2.97		685	3.44		718	3.93		782	4.96		843	6.07	
12000	1917	591	2.12	72	608	2.34	76	623	2.54	78	640	2.78	80	655	3.01	82	671	3.25	82	686	3.49	84	718	3.99	86	749	4.50	88	809	5.57	90	866	6.74	92
13000	2077	636	2.62		651	2.83		665	3.09		680	3.32		694	3.57		709	3.81		724	4.07		753	4.60		781	5.14		837	6.26		892	7.47	
14000	2236	680	3.17		694	3.43		708	3.69		721	3.94		735	4.20		749	4.46		762	4.74		789	5.29		816	5.86		868	7.03		921	8.29	
15000	2396	725	3.83	73	739	4.09	77	751	4.38	79	763	4.64	81	777	4.91	83	789	5.20	83	801	5.49	85	827	6.08	87	852	6.67	89	901	7.91	91	951	9.19	93
16000	2556	770	4.57		782	4.86		794	5.15		806	5.43		818	5.74		830	6.03		842	6.33		865	6.94		889	7.56		936	8.86		983	10.21	
17000	2716	815	5.41		827	5.72		838	6.00		850	6.32		861	6.63		872	6.95		883	7.26		905	7.91		928	8.55		972	9.90		1016	11.31	
18000	2875	860	6.34	74	871	6.65	78	882	6.98	80	893	7.30	82	903	7.63	84	915	7.97	84	925	8.29	86	946	8.97	88	967	9.66	90	1008	11.06	92	1051	12.52	94
19000	3035	905	7.37		916	7.73		927	8.06		936	8.40		947	8.74		957	9.09		967	9.43		987	10.15		1007	10.85		1046	12.32		1087	13.83	
20000	3195	951	8.53		961	8.90		971	9.25		981	9.61		991	9.96		1000	10.33		1009	10.69		1029	11.43		1048	12.17		1086	13.70		1124	15.27	
21000	3355	997	9.82		1006	10.19		1016	10.56		1025	10.92		1034	11.31		1043	11.67		1053	12.06		1071	12.83		1089	13.61		1125	15.20		1161	16.82	
22000	3514	1042	11.21		1052	11.59		1061	11.99		1069	12.37		1078	12.76		1088	13.16		1096	13.55		1113	14.35		1131	15.17		1165	16.81		1200	18.50	
23000	3674	1088	12.72	75	1097	13.13	79	1105	13.53	81	1114	13.94	83	1123	14.35	85	1131	14.76	85	1139	15.17	87	1157	16.02	89	1173	16.85	91	1206	18.57	93	1239	20.32	95
24000	3834	1134	14.38		1142	14.81		1151	15.22		1159	15.65		1167	16.08		1175	16.51		1183	16.94		1200	17.81		1215	18.68		1247	20.46		1278	22.28	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
10000	1597	901	7.22	93	957	8.44	93	1011	9.70	95	1064	11.01	97	1114	12.36	97	1165	13.73	97	1213	15.15	99	1261	16.58	99	1306	18.07	99						
11000	1757	922	7.93		975	9.21		1027	10.52		1077	11.88		1127	13.27		1174	14.71		1221	16.18		1267	17.69		1311	19.23		1354	20.81	101	1398	0.95	101
12000	1917	946	8.71	94	996	10.04	94	1046	11.40	96	1094	12.81	98	1141	14.27	98	1188	15.76	98	1232	17.28	100	1276	18.86	100	1319	20.45	100	1362	22.07	102	1403	23.72	102
13000	2077	971	9.60		1020	10.96		1067	12.36		1113	13.82		1159	15.33		1203	16.88		1246	18.46		1289	20.09		1330	21.73		1371	23.41		1411	25.12	
14000	2236	999	10.56		1045	11.96		1091	13.42		1136	14.94		1179	16.49		1222	18.07		1264	19.71		1304	21.38		1344	23.09		1383	24.82		1422	26.59	
15000	2396	1028	11.60	95	1073	13.07	95	1117	14.56	97	1160	16.13	99	1201	17.73	99	1242	19.37	99	1282	21.06	101	1323	22.77	101	1361	24.53	101	1399	26.34	103	1437	28.15	103
16000	2556	1059	12.76		1102	14.28		1144	15.82		1186	17.43		1226	19.09		1265	20.78		1304	22.51		1342	24.28		1380	26.08		1416	27.91		1453	29.80	
17000	2716	1092	14.02		1133	15.58		1173	17.18		1212	18.83		1251	20.53		1290	22.28		1328	24.05		1365	25.86		1401	27.73		1437	29.62		1472	31.56	
18000	2875	1126	15.39	96	1165	17.01	96	1203	18.65	98	1241	20.35	100	1279	22.10	100	1316	23.90	100	1352	25.73	102	1388	27.58	102	1423	29.50	102	1457	31.44	104	1492	33.40	104
19000	3035	1161	16.88		1198	18.55		1235	20.26		1272	22.00		1308	23.79		1343	25.64		1378	27.52		1413	29.43		1447	31.38		1481	33.37		1514	35.40	
20000	3195	1197	18.50		1233	20.22		1268	21.97		1303	23.77		1338	25.63		1372	27.51		1406	29.43		1440	31.38		1473	33.39		1506	35.43		1538	37.49	
21000	3355	1234	20.23		1268	22.00		1302	23.82		1336	25.67		1369	27.57		1403	29.50		1435	31.49		1468	33.50		1500	35.55		1532	37.63		1563	39.75	
22000	3514	1272	22.10		1304	23.95		1337	25.81		1370	27.72		1402	29.65		1434	31.64		1466	33.66		1497	35.72		1529	37.82		1558	39.95		1589	42.13	
23000	3674	1310	24.12	97	1342	26.02	97	1373	27.93	99	1404	29.89	101	1435	31.90	101	1466	33.94	101	1497	36.01	103	1527	38.12	103	1557	40.26	103	1587	42.45	105	1617	44.65	105
24000	3834	1349	26.28		1379	28.21		1410	30.20		1440	32.22		1470	34.28		1500	36.37		1530	38.49		1558	40.64		1588	42.84		1617	45.08		1646	47.34	
25000	3994	1389	28.58		1418	30.59		1447	32.62		1476	34.69		1505	36.80		1534	38.95		1563	41.13		1591	43:33-		1619	45.60		1647	47.86		1675	50.18	
26000	4153	1430	31.04		1457	33.11		1485	35.20		1513	37.34		1541	39.49		1569	41.69		1597	43.93		1624	46.19		1651	48.50		1679	50.82		1706	53.20	
27000	4313	1470	33.66		1498	35.79		1524	37.95		1551	40.13		1578	42.35		1605	44.62		1632	46.90		1658	49.21		1685	56.72		1711	54.97		1738	56.36	
28000	4473	1511	36.45		1538	38.65		1564	40.86		1589	43.10		1615	45.39		1642	47.70		1668	50.03		1693	52.42		1719	54.81		1745	57.26		1770	59.71	
29000	4633	1467	35.39	98	1493	37.52	98	1518	39.67	100	1543	41.84	102	1568	44.07	102	1594	46.31	102	1619	48.57	104	1644	50.89	104	1669	53.21	104	1694	55.59	106	1718	57.97	106

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
15000	2396	1461	28.40	103	1499	30.23	105	1572	33.97	105	1643	37.81	105	1713	41.75	107	1781	45.75	107																
16000	2556	1474	30.01		1510	31.90		1581	35.75		1651	39.72		1718	43.75		1785	47.91		1849	52.12	107												
17000	2716	1489	31.70		1524	33.65		1593	37.62		1661	41.68		1726	45.87		1791	50.13		1854	54.48		1916	58.91	111	1977	63.42	111						
18000	2875	1507	33.51	104	1541	35.49	106	1608	39.57	106	1674	43.74	106	1738	48.04	108	1800	52.43	108	1862	56.90	108	1922	61.44	112	1981	66.07	112	2039	70.80	112	2096	75.57	112
19000	3035	1525	35.42		1559	37.46		1624	41.63		1688	45.93		1751	50.32		1812	54.81		1872	59.40		1930	64.07		1988	68.82		2045	73.67		2101	78.58	
20000	3195	1547	37.44		1579	39.54		1643	43.81		1705	48.19		1765	52.71		1825	57.31		1884	62.01	110	1942	66.79		1997	71.66		2053	76.62		2107	81.66	
21000	3355	1570	39.61		1602	41.75		1663	46.12		1723	50.61		1783	55.20		1841	59.92		1898	64.73		1954	69.62		2010	74.60		2063	79.67		2117	84.82	
22000	3514	1594	41.89		1624	44.07		1685	48.55		1744	53.14		1801	57.83		1858	62.64		1914	67.56		1968	72.56		2022	77.66		2075	82.84		2128	88.11	
23000	3674	1619	44.32	105	1649	46.57	107	1708	51.13	107	1765	55.82	107	1822	60.61	109	1877	65.51	111	1931	70.52	111	1985	75.63	113	2037	80.84	113	2089	86.13	113	2140	91.51	113
24000	3834	1646	46.91		1675	49.19		1732	53.86		1788	58.63		1844	63.52		1897	68.54		1951	73.65		2002	78.86		2054	84.15		2105	89.55				
25000	3994	1674	49.65		1703	51.97		1758	56.72		1813	61.59		1866	66.59		1919	71.69		1971	76.91		2022	82.20		2072	87.61		2122	93.11				
26000	4153	1703	52.54		1730	54.90		1785	59.76		1838	64.73		1890	69.82	111	1942	75.03		1993	80.33		2042	85.72		2092	91.23		2140	96.82				
27000	4313	1732	55.58		1759	58.01		1813	62.95		1864	68.03		1916	73.20		1966	78.50		2016	83.90		2065	89.41		2113	95.02							
28000	4473	1763	58.80		1790	61.29		1842	66.33		1892	71.50		1942	76.79		1991	82.17		2039	87.65		2088	93.27		2135	98.95							
29000	4633	1795	62.21	106	1821	64.74	108	1870	69.88	108	1920	75.14	108	1969	80.53	112	2018	86.01	112	2065	91.60	112	2112	97.28	114									
30000	4792	1828	65.79		1853	68.38		1901	73.61	110	1950	78.98	110	1997	84.46		2045	90.04		2091	95.72		2137	101.52										
31000	4952	1861	69.57		1885	72.19	110	1933	77.55		1980	83.01		2026	88.58		2072	94.25		2118	100.03													
32000	5112	1895	73.51	108	1919	76.21		1965	81.66		2011	87.22		2057	92.89		2101	98.67																
33000	5272	1930	77.68		1953	80.41		1998	85.96		2042	91.63		2087	97.40		2131	103.29																
34000	5431	1966	82.04		1988	84.82		2032	90.49		2075	96.25		2119	102.12																			

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™

SWSI 365

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
36 1/2"	7.98 SQ. FT.	7.66 SQ. FT.	F.P.M. = 9.56 x RPM	18.84 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
6000	783	277	0.37	68	308	0.49	72	338	0.63	74	367	0.79	76	396	0.96	78	422	1.11	78	449	1.31	80	501	1.68	83										
7000	914	304	0.49	68	332	0.63	72	357	0.78	74	383	0.94	76	408	1.11	78	433	1.29	78	457	1.47	80	505	1.87	83	549	2.32	85						
8000	1044	332	0.65	69	356	0.80	73	380	0.96	75	404	1.13	77	426	1.31	79	448	1.49	79	470	1.68	81	513	2.10	84	554	2.56	86	634	3.54	88	708	4.60	90
9000	1175	362	0.82	70	384	0.99	74	406	1.17	76	426	1.37	78	447	1.56	80	468	1.75	80	487	1.94	83	526	2.38	85	564	2.83	87	639	3.86	89	709	4.97	91
10000	1305	391	1.03		412	1.24		433	1.42		452	1.63	78	471	1.82	81	489	2.04	81	508	2.25		544	2.70		579	3.17		648	4.21		714	5.38	
11000	1436	422	1.27		442	1.49		460	1.72		479	1.94	79	496	2.15	81	514	2.39	81	530	2.62		563	3.08		596	3.57		660	4.64		722	5.82	
12000	1567	453	1.57	71	472	1.81	76	489	2.04	78	507	2.29	80	523	2.52	82	540	2.78	82	555	3.01	84	586	3.50	86	617	4.02	88	676	5.13	90	733	6.32	92
13000	1697	485	1.91	72	502	2.15		519	2.43		535	2.69		551	2.96		565	3.21		581	3.47		610	3.99		639	4.54		694	5.67		749	6.89	
14000	1828	517	2.29	72	534	2.56		549	2.85		564	3.13		579	3.42		593	3.70		608	3.97		636	4.54		662	5.10		715	6.28		766	7.55	
15000	1958	550	2.73	73	564	3.01	77	579	3.32	79	594	3.63	81	608	3.93	83	622	4.22	83	636	4.54	85	662	5.14	87	688	5.75	89	737	6.98	91	786	8.27	93
16000	2089	583	3.21		596	3.52		611	3.85		624	4.17		638	4.50		651	4.83		663	5.15		689	5.79		714	6.44		761	7.73		806	9.08	
17000	2219	616	3.77		629	4.11		642	4.45		655	4.79		667	5.14		680	5.48		692	5.83		717	6.51		741	7.20		786	8.57		830	9.96	
18000	2350	649	4.40	74	661	4.74	78	674	5.10	80	686	5.46	82	698	5.83	84	710	6.19	84	722	6.56	86	746	7.29	88	768	8.01	90	812	9.47	92	854	10.92	94
19000	2480	683	5.10		694	5.46		706	5.83		718	6.20		729	6.59		741	6.98		752	7.36		775	8.14		796	8.90		838	10.43		879	11.96	
20000	2611	716	5.86		727	6.25		739	6.63		749	7.01		760	7.42		771	7.83		782	8.24		803	9.04		825	9.86		865	11.47		904	13.07	
21000	2742	750	6.71		760	7.11		770	7.51		782	7.92		792	8.34		802	8.76		813	9.18		833	10.04		854	10.90		893	12.58		930	14.28	
22000	2872	784	7.65		793	8.04		803	8.46		814	8.90		824	9.32		833	9.77		844	10.21		863	11.10		883	12.01		921	13.78		957	15.55	
23000	3003	818	8.66	75	827	9.08	79	836	9.52	81	846	9.95	83	856	10.40	85	865	10.87	85	874	11.33	87	894	12.27	89	913	13.19	91	950	15.05	93	985	16.91	95
25000	3264	886	10.96		894	11.41		903	11.88		912	12.35		921	12.83		929	13.32		938	13.81		956	14.82		973	15.84		1007	17.87		1041	19.89	
27000	3525	954	13.66		962	14.12		969	14.62		977	15.12		986	15.64		994	16.16		1002	16.70		1019	17.78		1035	18.86		1067	21.04		1099	23.25	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
11000	1436	782	7.09	93	840	8.44	93	896	9.84	95	950	11.30	97																					
12000	1567	790	7.62	94	846	9.00	94	899	10.44	96	951	11.96	98	1001	13.52	98	1050	15.12	98															
13000	1697	802	8.22		854	9.63		905	11.12		955	12.67		1003	14.28		1051	15.94		1096	17.65	100	1141	19.38	100									
14000	1828	816	8.90		865	10.33		915	11.85		962	13.42		1008	15.08		1054	16.80		1099	18.55		1142	20.35		1185	22.19	100	1226	24.06	102			
15000	1958	833	9.64	95	880	11.10	95	926	12.65	97	971	14.27	99	1016	15.94	99	1060	17.69	99	1103	19.49	101	1145	21.35	101	1187	23.25	101	1227	25.19	103	1266	27.16	103
16000	2089	852	10.50		896	11.98		940	13.53		984	15.17		1026	16.88		1068	18.67		1109	20.51		1151	22.40		1190	24.35		1230	26.34		1268	28.36	
17000	2219	872	11.41		915	12.93		956	14.53		997	16.18		1038	17.91		1078	19.71		1119	21.59		1158	23.51		1196	25.50		1234	27.52		1272	29.61	
18000	2350	895	12.43	96	935	13.99	96	974	15.61	98	1014	17.29	100	1053	19.06	100	1091	20.89	100	1129	22.76	102	1167	24.73	102	1204	26.74	102	1241	28.81	104	1277	30.92	104
19000	2480	918	13.52		956	15.12		994	16.78		1032	18.50		1069	20.30		1106	22.15		1142	24.05		1178	26.04		1214	28.08		1250	30.16		1285	32.31	
20000	2611	942	14.71		980	16.36		1016	18.06		1052	19.83		1088	21.64		1123	23.51		1158	25.45		1193	27.46		1227	29.52		1261	31.64		1295	33.80	
21000	2742	967	15.98		1003	17.69		1038	19.45		1072	21.25		1107	23.09		1140	25.01		1174	26.97		1208	28.98		1241	31.08		1274	33.23		1307	35.42	
22000	2872	993	17.32		1027	19.10		1061	20.92		1095	22.76		1128	24.67		1160	26.59		1193	28.60		1225	30.66		1257	32.76		1289	34.94		1320	37.15	
23000	3003	1019	18.76	97	1053	20.61	97	1086	22.47	99	1118	24.38	101	1149	26.34	101	1181	28.33	101	1212	30.35	103	1243	32.45	103	1274	34.58	103	1305	36.77	105	1335	39.01	105
25000	3264	1073	21.90		1105	23.91		1136	25.93		1166	27.95		1196	30.01		1226	32.09		1255	34.21		1283	36.38		1312	38.58		1341	40.84		1370	43.15	
27000	3525	1129	25.41		1160	27.58		1189	29.76		1217	31.94		1245	34.11		1273	36.33		1301	38.54		1329	40.81		1355	43.11		1382	45.44		1409	47.81	
29000	3786	1187	29.33	98	1215	31.68	98	1243	34.01	100	1270	36.34	102	1298	38.67	102	1324	41.01	102	1350	43.36	104	1376	45.75	104	1402	48.15	104	1427	50.57	106	1452	53.05	106
31000	4047	1245	33.69		1272	36.20		1299	38.70		1326	41.20		1350	43.67		1376	46.16		1401	48.68		1426	51.17		1450	53.71		1474	56.26		1498	58.81	
33000	4308	1305	38.51		1331	41.18		1357	43.85		1381	46.50		1406	49.16		1430	51.82		1454	54.46		1477	57.11		1501	59.78		1523	62.47		1547	65.15	
35000	4569	1366	43.81		1391	46.65		1414	49.48		1439	52.31		1462	55.15		1485	57.96		1508	60.77		1531	63.57		1553	66.38		1575	69.21		1598	72.04	
37000	4830	1428	49.65	99	1450	52.63	99	1474	55.65	101	1497	58.65	103	1519	61.64	103	1542	64.63	103	1564	67.61	105	1585	70.58	105	1607	73.54	105	1628	76.52	107	1649	79.50	107

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
16000	2089	1306	30.43	103	1343	32.52	105	1415	36.80	105																								
17000	2219	1309	31.73		1345	33.89		1416	38.30		1484	42.82	105																					
18000	2350	1313	33.08	104	1348	35.29	106	1418	39.81	106	1485	44.47	106	1550	49.22	108																		
19000	2480	1320	34.52		1354	36.75		1421	41.38		1487	46.13		1551	51.02		1614	56.03	108	1674	61.12	108												
20000	2611	1329	36.03		1362	38.32		1428	43.01		1491	47.85		1554	52.84		1615	57.98		1675	63.21		1733	68.54	110									
21000	2742	1339	37.67		1371	39.97		1435	44.72		1498	49.66		1558	54.74		1618	59.96		1677	65.30		1735	70.76		1790	76.31	110	1845	81.95	110			
22000	2872	1351	39.43		1382	41.75		1444	46.57		1505	51.56		1565	56.72		1623	62.02		1680	67.47		1737	73.03		1791	78.71		1846	84.48		1898	90.32	112
23000	3003	1366	41.30	105	1396	43.66	107	1455	48.51	107	1514	53.56	107	1572	58.78	109	1628	64.17	109	1685	69.71	109	1740	75.38	111	1794	81.15	111	1848	87.04	111	1899	93.02	113
25000	3264	1398	45.50		1426	47.90		1482	52.83		1537	57.98		1591	63.30		1646	68.81		1700	74.48		1752	80.29		1804	86.25		1855	92.33		1906	98.52	
27000	3525	1436	50.23		1462	52.68		1514	57.75		1566	62.98		1617	68.39		1669	74.00		1719	79.76		1770	85.70		1819	91.77		1867	98.00		1916	104.36	
29000	3786	1477	55.54	106	1502	58.08	108	1551	63.26	108	1601	68.62	108	1649	74.13	110	1697	79.83	110	1745	85.68	110	1792	91.71	112	1840	97.90	112	1886	104.23	114	1932	110.71	114
31000	4047	1522	61.41		1545	64.04		1592	69.39		1639	74.88		1684	80.53		1730	86.32		1776	92.28		1820	98.41		1865	104.67		1910	111.12				
33000	4308	1570	67.87		1591	70.61		1637	76.15		1681	81.80		1724	87.60		1767	93.52		1811	99.59		1853	105.82		1896	112.20	114	1938	118.71				
35000	4569	1619	74.87		1641	77.73		1683	83.50		1725	89.37		1766	95.34		1808	101.41		1849	107.64		1890	113.98	114	1930	120.47							
37000	4830	1671	82.47	107	1691	85.46	109	1731	91.48	109	1773	97.58	109	1812	103.76	111	1852	110.01	111	1891	116.40	113	1930	122.91	115									
39000	5091	1723	90.66		1743	93.79		1782	100.10		1821	106.44		1859	112.85		1897	119.33		1935	125.91													
41000	5352	1777	99.45		1796	102.74		1834	109.33		1872	115.96		1909	122.62	113																		
43000	5614	1832	108.85		1851	112.31		1888	119.21		1924	126.12																						
45000	5875	1888	118.89	110	1907	122.52	112																											

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

SWSI 402

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
40 1/4"	9.72 SQ. FT.	9.31 SQ. FT.	F.P.M.= 10.55 x RPM	30.72 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
7700	827	260	0.49	69	286	0.66	73	312	0.83	75	337	1.01	77	362	1.22	79	386	1.42	79	409	1.66	81	454	2.13	83	497	2.64	86						
8400	902	273	0.58		299	0.75		322	0.94		346	1.13		369	1.33		391	1.55		414	1.77		456	2.27		497	2.78							
9100	977	287	0.68	70	311	0.85	74	334	1.06	76	356	1.25	78	377	1.45	80	399	1.68	80	419	1.92	82	460	2.41	84	500	2.96	87	574	4.12	89			
9800	1053	303	0.79		325	0.99		346	1.19		367	1.40		387	1.61		407	1.82		427	2.08		466	2.58		504	3.13		575	4.33		642	5.61	91
10500	1128	317	0.91		339	1.11		359	1.33		379	1.56		399	1.77		417	2.01		436	2.25		473	2.76	85	508	3.32		577	4.54		642	5.87	
11200	1203	333	1.05		353	1.27		373	1.49		391	1.72		410	1.95		427	2.18		446	2.44		480	2.97		514	3.54		581	4.79		644	6.15	
11900	1278	349	1.19	71	369	1.42	75	387	1.67	77	405	1.92	79	422	2.14	81	440	2.40	81	456	2.66	83	489	3.20	86	522	3.77	88	585	5.04	90	646	6.43	92
12600	1353	365	1.35		383	1.61		402	1.86		418	2.12		436	2.36		451	2.64		468	2.89		500	3.44		530	4.03		591	5.31		650	6.73	
13300	1429	381	1.52		399	1.80		416	2.06		433	2.34		449	2.60		465	2.87		480	3.15	84	510	3.71		540	4.32		597	5.60		654	7.03	
14000	1504	398	1.72		414	2.01		431	2.29		447	2.58		462	2.85		478	3.13	82	492	3.43		521	4.01		550	4.62		606	5.93		660	7.37	
14700	1579	413	1.93	72	430	2.22	76	446	2.52	78	461	2.83	80	477	3.11	83	491	3.42	83	506	3.71	85	534	4.32	87	560	4.94	89	614	6.28	91	666	7.76	93
16700	1794	461	2.65		476	2.99	77	490	3.32	79	505	3.65	81	518	3.99		531	4.33		545	4.66		571	5.35		595	6.02		643	7.45		690	8.95	
18700	2009	510	3.52	74	523	3.90	78	536	4.27	80	549	4.65	82	561	5.04	84	574	5.41	84	586	5.79	86	610	6.53	88	632	7.29	90	677	8.83	92	720	10.43	94
20700	2223	559	4.61		571	5.02		583	5.42		594	5.83		606	6.26		617	6.68		628	7.11		651	7.93		672	8.77		713	10.44		753	12.13	
22700	2438	609	5.91	75	620	6.34	79	630	6.78	81	641	7.24	83	652	7.70	85	662	8.15	85	673	8.61	87	693	9.54	89	714	10.44	91	752	12.27	93	789	14.12	95
24700	2653	659	7.46		668	7.91		679	8.38		688	8.87		698	9.37		709	9.87		718	10.37		737	11.36		756	12.36		792	14.35		827	16.34	
26700	2868	710	9.25		718	9.74		727	10.24		736	10.75		746	11.29		755	11.83		764	12.36		782	13.45		799	14.53		834	16.70		867	18.83	
28700	3083	760	11.33	76	768	11.85	80	777	12.39	82	785	12.93	84	793	13.50	86	802	14.07	86	811	14.64	88	827	15.79	90	845	16.95	92	877	19.29	94	908	21.61	96
30700	3298	811	13.71		818	14.27		826	14.82		834	15.41		842	16.00		850	16.59		858	17.21		873	18.45		890	19.68		921	22.18		951	24.67	
32700	3512	861	16.41		868	17.00		876	17.58		884	18.20		891	18.83		898	19.46		905	20.10		921	21.40		935	22.72		965	25.38		993	28.03	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
11200	1203	705	7.91	93	759	9.47	93																											
11900	1278	706	8.24	94	760	9.84	94	812	11.49	96																								
12600	1353	709	8.58		761	10.21		813	11.92		861	13.68	98																				
13300	1429	713	893.01		764	10.61		814	12.35		861	14.14		907	16.00	98																		
14000	1504	718	9.32		767	11.01		816	12.78		862	14.62		907	16.52		952	18.47	98														
14700	1579	736	10.59	95	782	12.32	95	827	14.16	97	870	16.08	99	913	18.07	99	955	20.15	99	995	22.26	101	1035	24.44	101	1073	26.65	101						
16700	1794	762	12.10		803	13.88		845	15.78		885	17.75		924	19.81		963	21.96		1002	24.16		1039	26.44		1076	28.77		1113	31.16	103	1148	33.57	103
18700	2009	792	13.92	96	830	15.77	96	867	17.69	98	904	19.71	100	941	21.82	100	979	24.02	100	1015	26.30	102	1050	28.62	102	1085	31.04	102	1120	33.51	104	1154	36.05	104
20700	2223	825	16.00		861	17.93		895	19.93		930	22.00		964	24.16		998	26.41		1032	28.73		1065	31.12		1098	33.58		1131	36.12		1163	38.72	
22700	2438	861	18.35	97	894	20.38	97	927	22.47	99	959	24.64	101	991	26.85	101	1023	29.14	101	1055	31.52	103	1086	33.95	103	1117	36.46	103	1147	39.06	105	1177	41.72	105
24700	2653	899	20.99		931	23.15		961	25.35		992	27.59		1022	29.90		1052	32.26		1080	34.69		1110	37.18		1139	39.75		1168	42.38		1197	45.08	
26700	2868	938	23.91		968	26.22		998	28.55		1027	30.91		1055	33.31		1083	35.75		1110	38.26		1138	40.83		1165	43.44		1193	46.12		1220	48.88	
28700	3083	980	27.12	98	1008	29.59	98	1036	32.07	100	1063	34.57	102	1090	37.08	102	1117	39.62	102	1143	42.23	104	1169	44.88	104	1195	47.56	104	1221	50.31	106	1246	53.12	106
30700	3298	1022	30.66		1049	33.29		1075	35.92		1101	38.54		1127	41.21		1153	43.87		1177	46.58		1202	49.33		1227	52.11		1251	54.94		1275	57.82	
32700	3512	1064	34.54		1090	37.32		1115	40.12		1140	42.90		1165	45.70		1190	48.50		1213	51.34		1237	54.18		1261	57.06		1284	60.00		1307	62.97	
34700	3727	1107	38.73		1133	41.69		1157	44.65		1181	47.60		1205	50.56		1228	53.51		1251	56.46		1274	59.45		1297	62.47		1319	65.50		1341	68.56	
36700	3942	1152	43.32	99	1175	46.44	99	1199	49.58	101	1223	52.68	103	1245	55.80	103	1268	58.91	103	1290	62.02	105	1312	65.15	105	1334	68.29	105	1355	71.43	107	1376	74.61	107
38700	4157	1196	48.28		1220	51.59		1242	54.88		1265	58.15		1286	61.44		1308	64.70		1330	67.98		1351	71.26		1372	74.52		1393	77.83		1413	81.13	
40700	4372	1241	53.65		1264	57.12		1285	60.58		1307	64.04		1329	67.50		1349	70.92		1371	74.35		1391	77.79		1411	81.21		1432	84.65		1451	88.11	
42700	4586	1205	52.09		1227	55.46		1248	58.82		1269	62.17		1290	65.53		1310	68.85		1331	72.18		1350	75.52		1370	78.84		1390	82.18		1409	85.54	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
18700	2009	1183	36.03	104	1217	38.54	106																											
20700	2223	1187	38.63		1220	41.24		1283	46.62	106	1346	52.12	106																					
22700	2438	1195	41.38	105	1227	44.09		1289	49.67	107	1348	55.41	107	1406	61.33	109	1464	67.35	109															
24700	2653	1207	44.43		1237	47.22	107	1297	52.94		1354	58.86		1410	64.98		1466	71.26		1519	77.65	109	1572	84.17	111	1623	90.82	111						
26700	2868	1225	47.85		1254	50.69		1309	56.52		1364	62.59		1418	68.86		1472	75.31		1523	81.94		1575	88.68		1624	95.58		1674	102.58	111	1722	109.70	111
28700	3083	1246	51.69	106	1273	54.56	108	1327	60.51	108	1378	66.68	108	1430	73.07	110	1481	79.66	110	1532	86.45	110	1581	93.40	112	1629	100.49	112	1677	107.73	112	1724	115.09	112
30700	3298	1272	55.98		1297	58.92		1347	64.94		1397	71.21		1446	77.70		1495	84.41		1543	91.31		1590	98.42		1637	105.67		1683	113.09		1728	120.65	
32700	3512	1300	60.74		1324	63.73		1371	69.88		1418	76.24		1466	82.81		1512	89.63		1557	96.62		1604	103.83		1648	111.23		1693	118.79		1737	126.51	
34700	3727	1331	65.98		1353	69.04		1399	75.29		1444	81.78		1488	88.45		1533	95.35		1576	102.44		1620	109.76		1663	117.26		1706	124.93		1749	132.77	
36700	3942	1363	71.68	107	1385	74.82	109	1429	81.24	109	1471	87.84	109	1514	94.63	111	1556	101.64	111	1599	108.82	111	1640	116.23	113	1681	123.81	113	1722	131.58	113			
38700	4157	1398	77.83		1418	81.07		1461	87.67		1502	94.43		1542	101.37		1582	108.47		1622	115.77		1662	123.27		1703	130.95		1742	138.82				
40700	4372	1434	84.46		1453	87.83		1494	94.63		1534	101.56		1573	108.65		1611	115.91		1650	123.33		1688	130.92		1726	138.70							
42700	4586	1471	91.57		1490	95.05		1529	102.07		1567	109.23		1605	116.49		1642	123.91		1679	131.48		1716	139.19										
44700	4801	1509	99.14		1527	102.76		1565	110.05		1602	117.42		1638	124.89		1674	132.48		1710	140.21		1746	148.10										
46700	5016	1548	107.20	108	1567	110.96	110	1603	118.51	110	1638	126.13	110	1674	133.84	112	1708	141.64	112	1743	149.56	112												
48700	5231	1588	115.75		1606	119.67		1641	127.51		1676	135.39		1710	143.36		1743	151.39																
50700	5446	1628	124.79		1646	128.88		1680	137.03		1714	145.19		1747	153.41																			
52700	5661	1670	134.37		1687	138.62		1720	147.07																									

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™

SWSI 445

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
44 1/2"	11.86 SQ. FT.	11.39 SQ. FT.	F.P.M.=11.65xRPM	50.74 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
9000	790	228	0.57	70	253	0.75	74	278	0.96	76	302	1.17	78	324	1.42	80	347	1.68	80	369	1.95	82	411	2.52	84										
10000	878	243	0.68		267	0.89		288	1.09		310	1.33		332	1.59		352	1.84		373	2.12		412	2.71		450	3.35	86						
11000	966	259	0.82		280	1.04		301	1.26		320	1.50		340	1.75		359	2.03		379	2.32		416	2.93		452	3.57		519	5.00	89			
12000	1054	274	0.97		295	1.22	75	313	1.45	77	333	1.71	79	350	1.98	81	369	2.25	81	386	2.54	83	421	3.16	85	455	3.83	87	520	5.30	90	580	6.88	92
13000	1141	290	1.14	71	309	1.41		328	1.67		345	1.93		363	2.21		379	2.49		396	2.78		428	3.43		460	4.12		522	5.61		581	7.25	
14000	1229	306	1.33		324	1.63		342	1.91		358	2.18		375	2.48		390	2.78		407	3.08		438	3.73		468	4.43		526	5.96		583	7.63	
15000	1317	323	1.57	72	340	1.86	76	356	2.17	78	373	2.47	80	388	2.76	82	404	3.08	82	418	3.39	84	447	4.07	86	476	4.78	89	531	6.33	91	586	8.03	93
16000	1405	340	1.80		356	2.13		372	2.44		387	2.76		402	3.09		416	3.42		431	3.76		458	4.43		485	5.16	90	539	6.75		590	8.49	
18000	1580	375	2.38	73	389	2.74	77	404	3.11	79	418	3.47	81	432	3.83	83	445	4.19	83	457	4.55	85	483	5.30	88	508	6.07		556	7.70	92	604	9.49	94
20000	1756	410	3.08		423	3.47		437	3.88		449	4.28		462	4.69		475	5.09	84	486	5.49	86	510	6.30		533	7.12		577	8.84		620	10.69	
22000	1932	446	3.90		458	4.35		470	4.79		482	5.23	82	494	5.68	84	506	6.12		517	6.56		539	7.46		560	8.34		602	10.16		641	12.08	95
24000	2107	482	4.89	75	493	5.38	79	505	5.84	81	516	6.34	83	526	6.83	85	538	7.30	85	548	7.79	87	569	8.76	89	588	9.72	91	627	11.67	93	664	13.68	
26000	2283	518	6.07		528	6.56		540	7.09		550	7.60		560	8.13		570	8.66		580	9.18		599	10.24		618	11.27		655	13.37		690	15.50	
28000	2458	555	7.41		565	7.93		575	8.49		584	9.04		594	9.61		604	10.18		613	10.75		631	11.88		649	13.01		684	15.26		717	17.52	
30000	2634	592	8.95	76	602	9.51	80	611	10.09	82	619	10.67	84	628	11.29	86	638	11.88	86	646	12.50	88	663	13.72	90	681	14.94	92	714	17.33	94	746	19.75	96
32000	2809	629	10.70		638	11.29		647	11.90		655	12.52		663	13.16		672	13.79		680	14.45		696	15.74		713	17.04		745	19.63		775	22.21	
34000	2985	667	12.67		675	13.30		683	13.94		690	14.58		698	15.26		707	15.94		715	16.62		730	18.00		746	19.38		776	22.12		804	24.86	
36000	3161	705	14.89	77	712	15.55	81	719	16.22	83	727	16.90	85	734	17.59	87	742	18.31	87	749	19.03	89	764	20.49	91	779	21.95	93	808	24.86	95	835	27.78	97
38000	3336	742	17.36		749	18.04		756	18.75		763	19.46		770	20.19		778	20.93		784	21.69		798	23.21		813	24.75		840	27.83		867	30.92	
40000	3512	780	20.10		786	20.82		793	21.55		799	22.29		806	23.06		813	23.83		820	24.61		833	26.21		847	27.82		873	31.08		899	34.32	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
13000	1141	636	8.97	94																														
14000	1229	637	9.41		687	11.29	94																											
15000	1317	638	9.89	95	687	11.80	95	734	13.81	97																								
16000	1405	641	10.35		688	12.35		734	14.40		779	16.55	99																				
18000	1580	649	11.41	96	694	13.47	96	734	15.64	98	781	17.90	100	821	20.23	100	861	22.62	100														
20000	1756	663	12.67		705	14.78		746	17.01		786	19.34		825	21.76		863	24.28		900	26.84	102	936	29.48	102	971	32.16	102						
22000	1932	681	14.12		719	16.27		757	18.55		795	20.94		832	23.44		868	26.02		903	28.71		938	31.44		972	34.25		1005	37.11	104	1038	40.01	104
24000	2107	701	15.79	97	737	18.00	97	773	20.32	99	808	22.76	101	843	25.32	101	877	27.97	101	911	30.71	103	945	33.54	103	976	36.43	103	1008	39.41	105	1040	42.44	105
26000	2283	724	17.70		758	19.97		791	22.36		825	24.86		857	27.44		890	30.15		922	32.93		953	35.82		984	38.80		1015	41.84		1045	44.96	
28000	2458	750	19.84		782	22.21		813	24.67		844	27.21		874	29.85		905	32.59		935	35.43		965	38.38		995	41.39		1024	44.51		1053	47.68	
30000	2634	777	22.19	98	806	24.68	98	836	27.21	100	865	29.84	102	895	32.55	102	923	35.35	102	952	38.23	104	981	41.22	104	1008	44.29	104	1036	47.44	106	1064	50.69	106
32000	2809	804	24.78		833	27.38		861	30.05		889	32.74		917	35.55		943	38.40		971	41.35		998	44.38		1025	47.50		1051	50.70		1077	53.99	
34000	2985	833	27.59		861	30.35		888	33.11		915	35.95		940	38.83		966	41.76		992	44.77		1018	47.86		1043	51.05		1068	54.29		1094	57.63	
36000	3161	863	30.66	99	889	33.55	99	916	36.46	101	940	39.42	103	966	42.41	103	991	45.44	103	1016	48.53	105	1039	51.71	105	1064	54.94	105	1088	58.24	107	1111	61.64	107
38000	3336	893	33.97		919	37.03		943	40.09		968	43.16		992	46.27		1017	49.41		1039	52.60		1063	55.87		1087	59.17		1109	62.56		1132	66.01	
40000	3512	924	37.54		949	40.76		973	43.96		997	47.19		1020	50.43		1042	53.70		1065	57.00		1088	60.35		1110	63.76		1132	67.23		1154	70.74	
42000	3687	956	41.38		980	44.76		1003	48.12		1026	51.51		1049	54.89		1070	58.29		1092	61.72		1113	65.19		1135	68.69		1157	72.25		1177	75.86	
44000	3863	988	45.50		1010	49.05		1033	52.59		1056	56.12		1077	59.66		1099	63.19		1120	66.75		1140	70.36		1161	73.97		1181	77.63		1202	81.34	
46000	4039	1020	49.90	100	1042	53.63	100	1064	57.34	102	1086	61.03	104	1107	64.73	104	1128	68.42	104	1148	72.13	106	1168	75.86	106	1189	79.61	106	1208	83.38	108	1228	87.19	108
48000	4214	1053	54.63		1074	58.52		1096	62.39		1117	66.25		1137	70.11		1157	73.96		1177	77.83		1197	81.69		1216	85.58		1235	89.50		1255	93.42	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
22000	1932	1070	42.97	104																														
24000	2107	1071	45.51	105	1102	48.64	107	1161	55.04	107																								
26000	2283	1075	48.13		1104	51.39		1162	58.03		1217	64.85	107	1271	71.84	109																		
28000	2458	1082	50.94		1110	54.28		1166	61.12		1220	68.17		1272	75.41		1324	82.81	109	1373	90.35	109												
30000	2634	1091	53.99	106	1119	57.38	108	1172	64.38	108	1225	71.63	108	1275	79.07	110	1326	86.71	110	1374	94.52	110	1421	102.47	112	1468	110.56	112						
32000	2809	1103	57.34		1130	60.80		1180	67.91		1231	75.28		1280	82.92		1329	90.73		1377	98.77		1423	106.96		1469	115.30		1513	123.79	112	1557	132.40	112
34000	2985	1119	61.05		1143	64.53		1192	71.74		1241	79.24		1289	86.98		1335	94.98		1381	103.19		1427	111.59		1472	120.15		1515	128.88		1558	137.75	
36000	3161	1136	65.10	107	1160	68.64	109	1206	75.92	109	1252	83.52	109	1299	91.38	111	1344	99.50	111	1388	107.85	111	1433	116.42	113	1476	125.18	113	1518	134.11	113	1560	143.20	113
38000	3336	1155	69.53		1177	73.12		1223	80.52		1267	88.19		1311	96.14		1354	104.38		1398	112.85		1440	121.54		1482	130.45		1524	139.55		1565	148.84	
40000	3512	1176	74.34		1198	77.98		1241	85.49		1283	93.27		1326	101.32		1368	109.62		1409	118.19		1450	127.01		1491	136.04		1532	145.29		1571	154.74	
42000	3687	1199	79.52		1220	83.23		1261	90.87		1302	98.77		1342	106.91		1382	115.31		1422	123.97		1463	132.88		1502	142.02		1541	151.39		1580	160.95	
44000	3863	1223	85.10		1242	88.90		1282	96.69		1321	104.69		1361	112.94		1400	121.45		1438	130.20		1477	139.19		1515	148.44		1552	157.90		1590	167.57	
46000	4039	1247	91.05	108	1267	94.95	110	1305	102.90	110	1343	111.04	110	1381	119.43	112	1418	128.04	112	1455	136.90	112	1492	145.99	114	1530	155.32	114	1566	164.86	114			
48000	4214	1273	97.40		1292	101.39		1329	109.53		1366	117.84		1403	126.36		1439	135.12		1475	144.07		1510	153.27		1546	162.68		1581	172.33				
52000	4565	1328	111.22		1345	115.45		1380	124.04		1414	132.74		1449	141.61		1483	150.65		1516	159.90		1550	169.32		1583	178.96							
56000	4917	1384	126.60		1401	131.12		1435	140.20		1467	149.38		1500	158.67		1532	168.09		1563	177.68													
60000	5268	1443	143.57	109	1460	148.40	111	1490	158.05	111	1522	167.76	111	1552	177.54	113	1583	187.42	113																
64000	5619	1504	162.21		1519	167.35		1549	177.62		1579	187.92																						
66000	5795	1535	172.16		1550	177.48		1579	188.09																									

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

SWSI 490

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
49"	14.42 SQ. FT.	13.80 SQ. FT.	F.P.M.= 12.85 xRPM	82.15 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
11000	797	209	0.70	70	232	0.92	74	253	1.16	76	274	1.45	78	296	1.73	80	315	2.06	80	336	2.39	82	373	3.08	84										
12000	870	219	0.81	71	241	1.06	75	261	1.32	77	281	1.59	79	301	1.88	81	319	2.21	81	338	2.54	83	374	3.27	85	409	4.03	87						
13000	942	231	0.94		250	1.22		270	1.47		288	1.77		307	2.06		324	2.40		342	2.74		377	3.47		410	4.27		472	5.96	90			
14000	1014	242	1.09		262	1.37		279	1.66		297	1.95		314	2.27		331	2.60		347	2.96		380	3.70		412	4.50		472	6.26				
15000	1087	254	1.25	72	272	1.56	76	289	1.86	78	306	2.17	80	322	2.48	82	338	2.83	82	354	3.18	84	385	3.96	86	415	4.78	88	473	6.56	91	527	8.50	93
16000	1159	266	1.42		283	1.75		300	2.08		316	2.40		331	2.74		346	3.09		362	3.45		390	4.22		419	5.06		475	6.89		527	8.89	
17000	1232	278	1.63		295	1.98		311	2.32		325	2.66		341	3.01		355	3.37		370	3.75		398	4.53		424	5.38		478	7.24		529	9.27	93
18000	1304	291	1.84	73	307	2.21	77	322	2.58	79	337	2.93	81	350	3.30	83	365	3.68	83	378	4.07	85	405	4.87	87	431	5.72	89	482	7.61	92	531	9.67	94
19000	1377	304	2.08		319	2.47		334	2.85		347	3.24		361	3.63		374	4.01		387	4.40		413	5.23		438	6.10		487	8.01		535	10.11	
20000	1449	316	2.34		331	2.75		345	3.16		358	3.55		372	3.96		384	4.37		397	4.78		421	5.61		446	6.52		492	8.44		539	10.57	
21000	1522	330	2.64		343	3.06		356	3.47		370	3.90		382	4.32		394	4.74		407	5.17		431	6.05		454	6.95		500	8.92		543	11.07	
24000	1739	369	3.63	74	381	4.12	78	393	4.60	80	405	5.09	82	417	5.57	84	428	6.05	84	439	6.53	86	460	7.51	88	481	8.50	91	522	10.56	93	561	12.78	95
27000	1957	409	4.89		420	5.42		432	5.97		442	6.52		452	7.06		462	7.61		473	8.15	87	492	9.23	89	512	10.33		549	12.56		585	14.89	
30000	2174	450	6.44	75	460	7.01	79	470	7.62	81	480	8.23	84	489	8.84	86	499	9.45	86	508	10.05	88	526	11.27	90	545	12.46	92	579	14.89	94	612	17.39	96
33000	2391	491	8.32	76	501	8.95	80	509	9.60	82	518	10.26		527	10.92		536	11.59		545	12.27		561	13.59		579	14.91		611	17.58		642	20.26	
36000	2609	533	10.55	77	541	11.22	81	549	11.92	83	557	12.62	85	565	13.35	87	574	14.07	87	582	14.81	89	598	16.27	91	614	17.73	93	644	20.61	95	673	23.51	97
39000	2826	575	13.16		582	13.88		590	14.62		597	15.38		605	16.15		613	16.94		620	17.73		636	19.31		650	20.89		679	24.05		706	27.18	
42000	3043	617	16.20		623	16.95		630	17.75		638	18.55		645	19.38		652	20.22		659	21.06		673	22.76		687	24.47		714	27.87		740	31.24	
45000	3261	659	19.68	78	665	20.49	82	672	21.33	84	679	22.18	86	685	23.06	88	691	23.95	88	698	24.83	90	712	26.65	92	724	28.47	94	750	32.12	96	775	35.75	98
48000	3478	701	23.67		707	24.52		713	25.40		719	26.30		725	27.21		731	28.14		737	29.10		750	31.00		762	32.94		787	36.84		811	40.73	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
16000	1159	578	10.98	95																														
17000	1232	578	11.43		623	13.71	95																											
18000	1304	579	11.90	96	624	14.22	96																											
19000	1377	581	12.36		624	14.76		666	17.23	98																								
20000	1449	583	12.86		626	15.30		667	17.84		708	20.46	100																					
21000	1522	586	13.39		628	15.85		668	18.45		708	21.13		746	24.01	100																		
24000	1739	600	15.19	97	639	17.75	97	677	20.42	99	713	23.26	101	749	26.18	101	783	29.22	101	817	32.31	103	850	35.49	103	882	38.72	103						
27000	1957	620	17.37		655	20.00		689	22.76		723	25.67		757	28.71		789	31.86		821	35.11		853	38.44		884	41.87		914	45.35	105	943	48.90	105
30000	2174	645	19.97	98	677	22.69	98	708	25.52	100	740	28.51	102	769	31.62	102	800	34.86	102	830	38.20	104	860	41.66	104	889	45.22	104	918	48.84	106	947	52.56	106
33000	2391	672	22.99		701	25.83		730	28.77		759	31.84		788	35.02		816	38.33		844	41.75		871	45.28		899	48.93		926	52.65		953	56.49	
36000	2609	701	26.44	99	729	29.43	99	756	32.51	101	783	35.68	103	810	38.94	103	835	42.32	103	862	45.80	105	888	49.41	105	914	53.14	105	939	56.95	107	964	60.86	107
39000	2826	732	30.31		758	33.50		784	36.72		810	40.02		834	43.41		859	46.90		884	50.47		907	54.15		932	57.94		956	61.82		980	65.81	
42000	3043	765	34.63		790	38.01		814	41.42		838	44.90		861	48.42		885	51.60		907	55.71		930	59.48		953	63.35		975	67.31		998	71.38	
45000	3261	799	39.37	100	822	42.98	100	846	46.62	102	868	50.27	104	890	53.97	104	913	57.72	104	93	61.54		956	65.45	106	977	69.42	106	999	73.48	108	1020	77.63	108
48000	3478	833	44.59		856	48.45		878	52.30		899	56.18		921	60.07		941	64.01		963	67.98	106	984	72.03		1003	76.14		1024	80.30		1043	84.55	
51000	3696	869	50.32		891	54.43		912	58.52		932	62.61		953	66.73		972	70.86		993	75.03		1012	79.24		1032	83.49		1051	87.81		1070	92.19	
54000	3913	905	56.57		926	60.92		946	65.27		966	69.60		986	73.94		1004	78.28		1024	82.66		1042	87.06		1061	91.48		1079	95.97		1098	100.49	
57000	4130	941	63.35	101	961	67.98	101	981	72.56	103	1000	77.15	105	1019	81.73	105	1037	86.31	105	1056	90.90	107	1074	95.50	107	1092	100.13	107	1109	104.79	109	1127	109.49	109
60000	4348	979	70.74		998	75.60		1017	80.46		1035	85.29		1054	90.13		1071	94.95		1089	99.76		1106	104.60		1124	109.44		1140	114.28		1158	119.17	
63000	4565	1017	78.73		1035	83.86		1053	88.96		1070	94.05		1088	99.14		1105	104.22		1123	109.27		1139	114.33		1156	119.39		1172	124.47		1189	129.56	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
27000	1957	971	52.51	105																														
30000	2174	974	56.34	106	1001	60.20	108	1055	68.07	108																								
33000	2391	980	60.41		1006	64.42		1057	72.62		1106	81.06	108	1155	89.73	110	1202	98.57	110															
36000	2609	990	64.88	107	1015	68.98	109	1063	77.44	109	1111	86.18	109	1158	95.17	111	1203	104.39	111	1247	113.82	111	1291	123.40	113									
39000	2826	1003	69.89		1027	74.08		1073	82.71		1119	91.67		1164	100.91		1207	110.43		1250	120.18		1293	130.14		1334	140.29	113	1375	150.60	113	1414	161.06	113
42000	3043	1021	75.54		1042	79.78		1087	88.57		1130	97.69		1173	107.13		1215	116.88		1257	126.88		1297	137.13		1337	147.61		1377	158.26		1415	169.11	
45000	3261	1041	81.85	108	1062	86.19	110	1103	95.09	110	1144	104.36	110	1186	113.97	112	1226	123.87	112	1266	134.09	112	1305	144.57	114	1343	155.28	114	1381	166.23	114	1419	177.41	114
48000	3478	1064	88.89		1084	93.31		1123	102.37		1162	111.77		1201	121.52		1239	131.57		1277	141.94		1315	152.58		1352	163.51		1389	174.70		1426	186.10	
51000	3696	1089	96.62		1108	101.14		1145	110.40		1182	119.95		1220	129.84		1257	140.04		1293	150.54		1329	161.35		1365	172.43		1400	183.78		1435	195.39	
54000	3913	1117	105.08		1134	109.71		1170	119.20		1205	128.95		1240	139.00		1275	149.35		1310	160.00		1345	170.93		1379	182.17		1413	193.67				
57000	4130	1144	114.23	109	1162	119.02	111	1196	128.76	111	1230	138.74	111	1264	148.99	113	1297	159.52	113	1331	170.32	113	1364	181.40	115	1397	192.75	115	1429	204.39	115			
60000	4348	1174	124.09		1191	129.06		1224	139.10		1257	149.35		1289	159.84		1320	170.56		1352	181.54		1384	192.77		1416	204.30								
63000	4565	1205	134.67		1222	139.82		1252	150.20		1284	160.76		1315	171.50		1346	182.46		1377	193.65		1407	205.09		1437	216.77								
66000	4783	1237	145.96		1252	151.31		1283	162.08		1313	172.97		1343	184.02		1373	195.27		1403	206.70		1432	218.36											
69000	5000	1269	157.99		1284	163.56		1314	174.72		1343	186.00		1372	197.38		1401	208.94		1430	220.66													
72000	5217	1303	170.78	110	1317	176.57	112	1346	188.16	112	1374	199.83	112	1403	211.59	114	1431	223.47	114																
75000	5435	1336	184.31		1350	190.34		1378	202.40		1406	214.50		1434	226.65																			
78000	5652	1371	198.65		1384	204.90		1412	217.44		1439	229.98																						

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™

SWSI 540

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
54 1/4"	17.61 SQ. FT.	16.92 SQ. FT.	F.P.M.= 14.29 x RPM	138.68 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
14000	827	193	0.91	71	212	1.19	75	232	1.50	77	250	1.84	79	269	2.21	81	286	2.60	81	304	3.00	83	337	3.86	85	369	4.79	87						
15000	887	201	1.04	72	219	1.33	76	238	1.67	78	255	2.01	80	273	2.38	82	289	2.76	82	306	3.17	84	339	4.07		369	5.02							
16000	946	209	1.16		227	1.49		244	1.82		261	2.18		277	2.54		294	2.96		309	3.37		340	4.27		370	5.24		425	7.32	90			
17000	1005	217	1.32		235	1.66		251	2.01		267	2.36		282	2.74		298	3.16		313	3.57		343	4.50	86	372	5.49	88	426	7.63				
18000	1064	227	1.47	73	243	1.82	77	259	2.19	79	274	2.58	81	288	2.97	83	303	3.39	83	318	3.81	85	346	4.74	87	374	5.75	89	426	7.92		476	10.29	94
19000	1123	235	1.65		251	2.03		266	2.40		281	2.80		295	3.21		309	3.63		322	4.07		350	5.00		377	6.02		428	8.24	91	476	10.66	
20000	1182	244	1.82		260	2.22		274	2.64		288	3.04		302	3.45		315	3.88		329	4.35		354	5.29		380	6.32		430	8.58		477	11.03	
21000	1241	253	2.03		268	2.45		282	2.87		296	3.30		309	3.73		321	4.17		335	4.64		359	5.60		384	6.64		433	8.92		478	11.43	
22000	1300	263	2.25		277	2.70		290	3.13		304	3.57		316	4.03		329	4.48		341	4.96		366	5.93		389	6.99		436	9.30		480	11.83	
23000	1359	272	2.48	74	285	2.96	78	299	3.42	80	311	3.88	82	323	4.35	84	336	4.81	84	348	5.30	86	371	6.30	88	394	7.37	90	439	9.69	92	482	12.27	95
24000	1418	281	2.74		295	3.22		307	3.71		319	4.19		332	4.68		343	5.16		354	5.67		377	6.70		400	7.78		443	10.12		485	12.72	
28000	1655	319	3.94		331	4.50		342	5.07		353	5.64		365	6.20		375	6.78		385	7.32		405	8.48		424	9.64		462	12.11		501	14.81	
32000	1891	358	5.50	75	369	6.13	79	379	6.78	81	389	7.43	83	399	8.08	85	409	8.73	85	418	9.37	87	436	10.66	89	454	11.95	91	488	14.62	94	521	17.44	96
36000	2128	399	7.47	76	408	8.17	80	417	8.89	82	426	9.61	84	435	10.35	86	444	11.07	86	452	11.80	88	469	13.25	90	485	14.71	93	517	17.61	95	547	20.63	97
40000	2364	439	9.89		447	10.66		455	11.43		464	12.25		472	13.05	87	480	13.86	87	488	14.68	89	504	16.29	91	519	17.91		548	21.13		576	24.38	
44000	2600	480	12.81	77	487	13.65	81	494	14.50	83	503	15.37	85	510	16.25		517	17.14		524	18.04		539	19.83		553	21.61		581	25.14		607	28.69	
48000	2837	521	16.33	78	527	17.21	82	535	18.11	84	542	19.06	86	548	20.00	88	555	20.96	88	562	21.93	90	576	23.88	92	589	25.82	94	614	29.72	96	640	33.57	98
52000	3073	562	20.41		569	21.37		575	22.35		581	23.34		587	24.35		593	25.38		600	26.44		613	28.54		625	30.65		649	34.86		673	39.06	
56000	3310	604	25.19		610	26.19		615	27.22		621	28.29		627	29.38		632	30.47		639	31.58		651	33.83		662	36.09		685	40.64		708	45.17	
60000	3546	646	30.67	79	651	31.74	83	656	32.83	85	661	33.95	87	666	35.09	89	673	36.27	89	678	37.43	91	689	39.83	93	699	42.24	95	721	47.10	97	743	51.97	99

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
20000	1182	521	13.65	96																														
21000	1241	522	14.09		563	16.88	96																											
22000	1300	523	14.55		563	17.40																												
23000	1359	524	15.02	97	564	17.93	97	603	20.96	99																								
24000	1418	525	15.51		564	18.46		603	21.55		639	24.73	101																					
28000	1655	537	17.72		573	20.81		608	24.06		642	27.47		675	31.00	101	707	34.63	101	737	38.34	103												
32000	1891	554	20.45	98	587	23.64	98	619	27.01	100	650	30.55	102	681	34.23	102	711	38.06	102	741	41.99		769	46.02	104	797	50.16	104	825	54.37	106	852	58.65	106
36000	2128	577	23.76		607	27.07		636	30.53	101	664	34.17		692	37.96		720	41.90	103	748	45.99	105	775	50.19		801	54.53	105	828	58.96	107	854	63.47	107
40000	2364	604	27.72	99	630	31.17	99	657	34.76		683	38.49	103	710	42.38	103	735	46.42		761	50.59		786	54.92	105	811	59.38		835	63.95		860	68.64	
44000	2600	632	32.26		657	35.92		682	39.68		707	43.55		730	47.56		754	51.69		778	55.97		801	60.38		825	64.93		848	69.62		870	74.42	
48000	2837	663	37.43	100	687	41.32		710	45.30	102	732	49.36	104	755	53.51	104	777	57.78	104	799	62.18	106	821	66.69	106	843	71.35	106	864	76.12	108	886	81.01	108
52000	3073	695	43.22		718	47.41	100	740	51.64		760	55.92		782	60.28		802	64.70		823	69.26		844	73.90		864	78.66		884	83.52		904	88.52	
56000	3310	728	49.68		750	54.17		770	58.68		791	63.23		811	67.82		830	72.46		850	77.18		869	82.01		888	86.90		907	91.92		926	97.02	
60000	3546	763	56.83	101	783	61.64	101	802	66.47	103	822	71.29	105	840	76.15	105	859	81.04	105	878	85.99	107	896	91.00	107	915	96.09	107	932	101.26	109	950	106.51	110
64000	3783	798	64.68		817	69.84		835	74.99		854	80.14		872	85.28		890	90.44		907	95.66		925	100.90		942	106.19		960	111.56	110	976	117.00	
68000	4019	833	73.34		852	78.85		870	84.33		888	89.79		904	95.24		922	100.71		938	106.19	108	956	111.70	108	972	117.26	108	988	122.84		1004	128.49	
72000	4255	869	82.81	102	888	88.64	102	904	94.46	104	922	100.27	106	938	106.07	107	955	111.85	107	971	117.63		987	123.42		1002	129.24	109	1019	135.08	111	1034	140.98	111
76000	4492	906	93.16		924	99.33		940	105.50	105	956	111.64		972	117.77		988	123.87		1003	129.97	109	1019	136.08	109	1034	142.20		1050	148.32		1064	154.48	
80000	4728	943	104.44	103	960	110.94	103	975	117.45		992	123.92		1007	130.39		1022	136.84		1037	143.27		1053	149.70		1067	156.11		1082	162.54		1096	168.98	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
36000	2128	879	68.07	107	904	72.74	109	952	82.30	110																								
40000	2364	884	73.42	107	907	78.30	109	954	88.31	110	999	98.62	110	1043	109.18	112																		
44000	2600	893	79.33	107	916	84.36	109	960	94.70	110	1003	105.41	110	1045	116.43	112	1087	127.72	112	1127	139.24	112	1166	150.99	114									
48000	2837	906	86.03	108	928	91.16	110	970	101.74	111	1010	112.72	111	1052	124.09	113	1091	135.76	113	1130	147.74	113	1168	159.97	115	1205	172.42	115	1241	185.09	115	1277	197.95	115
52000	3073	924	93.63	108	945	98.85	110	984	109.62	111	1023	120.85	111	1061	132.46	113	1099	144.42	113	1136	156.72	113	1172	169.33	115	1208	182.22	115	1244	195.35	115	1279	208.70	115
56000	3310	945	102.23	109	963	107.56	111	1000	118.53	111	1037	129.92	111	1073	141.73	113	1109	153.91	113	1145	166.48	113	1180	179.37	115	1215	192.59	115	1249	206.08	115	1283	219.83	115
60000	3546	968	111.86	109	986	117.31	112	1021	128.49	112	1056	140.08	112	1090	152.07	114	1124	164.45	114	1158	177.22	114	1192	190.34	116	1225	203.80	116	1258	217.57	116	1290	231.64	116
64000	3783	993	122.52	110	1010	128.12	112	1043	139.57	112	1076	151.39	112	1109	163.57	114	1141	176.14	114	1173	189.10	114	1205	202.40	116	1237	216.05	116	1269	230.06	116			
68000	4019	1021	134.21	110	1036	139.98	112	1068	151.76	112	1100	163.85	112	1131	176.27	114	1162	189.07	114	1192	202.20	114	1223	215.69	116	1252	229.55	116	1283	243.72	116			
72000	4255	1050	146.91	111	1064	152.90	113	1095	165.06	113	1125	177.48	113	1155	190.20	115	1183	203.23	115	1213	216.61	115	1242	230.31	117	1271	244.33	117						
76000	4492	1079	160.67	111	1095	166.89	113	1123	179.48	113	1152	192.28	113	1180	205.35	115	1208	218.68	115	1236	232.32	115	1264	246.25	117	1292	260.50	117						
80000	4728	1110	175.46	111	1124	181.94	113	1153	195.02	113	1179	208.26	113	1207	221.72	115	1234	235.41	115	1261	249.35	115	1288	263.56	117								
84000	4965	1142	191.30	111	1156	198.07	113	1182	211.68	113	1209	225.42	113	1235	239.30	115	1262	253.39	115	1288	267.71	115												
88000	5201	1174	208.21	111	1188	215.28	113	1213	229.46	114	1239	243.73	114	1265	258.13	115	1290	272.66	115															
92000	5437	1207	226.25	112	1221	233.63	114	1245	248.42	114	1271	263.25	114	1295	278.16																			
96000	5674	1241	245.41	112	1254	253.12	114	1278	268.54	114																								
100000	5910	1275	265.75	112	1288	273.80	114																											

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

SWSI 600

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
60"	21.55 SQ. FT.	20.70 SQ. FT.	F.P.M.= 15.71 xRPM	226.18 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
20000	821	156	1.27	73	172	1.68	77	188	2.14	79	204	2.64	81	219	3.17	83	234	3.73	83	249	4.33	85	277	5.60	87									
22000	870	164	1.50		179	1.95		195	2.43		209	2.93		224	3.47		238	4.06		251	4.68		278	5.97		304	7.37	89						
24000	918	173	1.77	74	187	2.27	78	202	2.75	80	215	3.28	82	229	3.83	84	242	4.43	84	254	5.06	86	280	6.41	88	305	7.84	90	350	10.95	92			
26000	966	182	2.08		197	2.60		210	3.13		222	3.68		235	4.24		247	4.86		260	5.49		283	6.86		307	8.34		350	11.55				
28000	1014	193	2.41		206	2.97		218	3.54		231	4.12		242	4.72		253	5.35		265	5.99		287	7.37		310	8.89		352	12.17		391	15.72	94
30000	1063	203	2.78	75	215	3.39	79	227	4.01	81	238	4.61	83	249	5.23	85	261	5.87	85	271	6.54	87	293	7.96	89	313	9.49	91	354	12.83	93	392	16.49	95
32000	1111	213	3.21		225	3.86		236	4.50		247	5.15		258	5.79		268	6.46		278	7.15		299	8.60		318	10.15		356	13.55		394	17.28	
34000	1159	224	3.68		235	4.37		245	5.05		255	5.74		266	6.42		276	7.12		285	7.82		305	9.32		323	10.90		361	14.33		397	18.13	
36000	1208	234	4.17	76	244	4.90	80	254	5.64	82	265	6.36	84	275	7.09	86	284	7.81	86	294	8.55	88	312	10.09	90	330	11.69	92	365	15.20	94	400	19.03	96
38000	1256	244	4.74		254	5.51		265	6.27		274	7.05		283	7.81		293	8.58		302	9.35		319	10.93		337	12.58		370	16.13		403	20.03	
40000	1304	254	5.36		265	6.17		274	6.98		283	7.78		293	8.58		302	9.38		310	10.21		328	11.85		344	13.53		376	17.16		408	21.09	
42000	1353	266	6.03		275	6.88		284	7.73		294	8.58		302	9.43		311	10.26		319	11.10		336	12.81		351	14.56		382	18.26		413	22.25	
44000	1594	276	6.76		285	7.65		295	8.55		303	9.43		312	10.31		320	11.21		328	12.09		344	13.86		359	15.67		389	19.46		418	23.50	
46000	1836	287	7.56	77	296	8.49	81	305	9.41	83	313	10.35	85	321	11.27	87	330	12.21	87	337	13.13	89	352	14.99	91	368	16.84	93	397	20.73	95	424	24.85	97
52000	2077	320	10.37		329	11.38		336	12.43		344	13.47		351	14.53		358	15.58		366	16.64		380	18.73		393	20.82		419	25.05		445	29.44	
58000	2319	354	13.84		362	14.97		368	16.10		375	17.28		382	18.46	88	388	19.63	88	396	20.81	90	408	23.15	92	420	25.47	94	445	30.15	96	469	34.89	98
64000	2560	388	18.10	78	394	19.29	82	401	20.55	84	407	21.81	86	413	23.09		419	24.39		425	25.70		438	28.29		449	30.87		472	36.02		494	41.17	99
70000	2802	422	23.19		427	24.47		434	25.81		440	27.18		445	28.56		451	29.97		456	31.38		468	34.23		479	37.06	95	500	42.71	97	520	48.34	
76000	3043	456	29.17	79	461	30.56	83	467	31.99	85	473	33.44	88	478	34.94	90	483	36.45	90	488	37.98	92	499	41.05	94	509	44.14	96	529	50.28	98	548	56.41	100
82000	3285	491	36.17	80	495	37.64	84	501	39.16	86	506	40.72		511	42.30		515	43.92		520	45.54		530	48.84		540	52.16		558	58.81		577	65.45	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
30000	1159	428	20.37	97																														
32000	1208	430	21.28		464	25.47	97																											
34000	1256	431	22.22		464	26.52		495	30.98	100																								
36000	1304	433	23.19	98	465	27.58	98	495	32.19	101	525	36.95	103																					
38000	1353	436	24.24		467	28.71		496	33.40		525	38.29		553	43.29	103																		
40000	1594	439	25.35		469	29.89		497	34.68		526	39.66		554	44.78		581	50.08	103															
42000	1836	443	26.55		472	31.16	99	500	36.01		527	41.07		555	46.31		581	51.72		607	57.26	105	631	62.90	105									
44000	2077	447	27.85		475	32.51		503	37.41		529	42.55		556	47.87		582	53.40		607	59.04		631	64.84		655	70.74	105						
46000	2319	452	29.24	99	479	33.95	100	506	38.90	102	533	44.10	104	558	49.51	104	583	55.11	104	608	60.87	106	631	66.79	106	655	72.81	106	678	78.95	108			
52000	2560	470	34.03	100	494	38.89		519	43.99		543	49.34		567	54.92		590	60.72		613	66.73		636	72.91		658	79.25		680	85.75		701	92.37	108
58000	2802	491	39.75	101	514	44.83	101	537	50.08	103	558	55.58		580	61.32		602	67.27	105	623	73.43	107	644	79.78	107	664	86.36	107	685	93.08	109	706	99.97	109
64000	3043	515	46.41		536	51.76		556	57.26		577	62.95	105	596	68.85	105	617	74.93		637	81.24		656	87.75		676	94.45		694	101.35		714	108.42	
70000	3285	541	53.99		560	59.69		579	65.51		598	71.45		617	77.57		636	83.86		653	90.32		672	96.97		690	103.83		708	110.87		725	118.08	
76000	3527	568	62.52	102	586	68.65	102	604	74.83	104	621	81.11	106	639	87.50	106	656	94.03	106	674	100.71	108	690	107.56	108	707	114.57	108	724	121.75	110	741	129.11	110
82000	3768	594	72.03		612	78.63		629	85.23		646	91.89		662	98.62		679	105.46		695	112.41		711	119.49		727	126.72		743	134.09		758	141.63	
88000	4010	623	82.60		640	89.67		656	96.75		672	103.83		688	110.96		703	118.14		718	125.43		733	132.80		749	140.29		763	147.91		779	155.65	
94000	4251	652	94.27	103	668	101.84	103	684	109.39	105	698	116.95	107	714	124.51	107	728	132.10	107	743	139.75	109	757	147.48	109	771	155.27	109	786	163.18	111	800	171.20	111
100000	4493	682	107.10		697	115.18		712	123.24		726	131.27		741	139.31		755	147.35		768	155.41		783	163.52		796	171.69		810	179.93		823	188.26	
106000	4734	712	121.18		726	129.77		741	138.34		755	146.88		768	155.40		782	163.90		795	172.42		809	180.96		822	189.53		834	198.15		848	206.83	
112000	4976	743	136.59		757	145.67		770	154.76		784	163.81		797	172.83		810	181.84		823	190.82		835	199.82		848	208.83		860	217.88		872	226.94	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
52000	2077	722	99.09	108	743	105.94	110																											
58000	2319	725	107.01	109	746	114.17	111	784	128.86	111	821	143.99	111	857	159.45	113																		
64000	2560	732	115.68	109	751	123.07	111	788	138.32	111	824	154.07	111	859	170.26	113	893	186.83	113	926	203.76	113	958	220.99	116									
70000	2802	744	125.46	109	761	133.03	111	795	148.66	111	829	164.86	111	863	181.60	113	896	198.80	113	928	216.42	113	960	234.41	116	990	252.71	116						
76000	3043	757	136.64	110	774	144.34	112	806	160.27	112	838	176.81	112	870	193.95	114	901	211.59	114	932	229.75	114	963	248.33	117	993	267.30	117						
82000	3285	774	149.31	110	789	157.18	112	820	173.36	112	851	190.18	112	881	207.63	114	911	225.63	114	940	244.17	114	969	263.20	117	998	282.69	117						
88000	3527	793	163.54	110	808	171.58	112	836	188.09	112	865	205.19	112	894	222.90	114	922	241.18	114	950	260.03	115	977	279.42	117	1005	299.30	117						
94000	3768	814	179.33	111	828	187.58	113	855	204.47	113	883	221.92	113	909	239.92	115	936	258.49	115	963	277.62	115	990	297.28	118									
100000	4010	836	196.67	111	850	205.19	113	876	222.56	113	901	240.41	113	927	258.77	115	953	277.65	115	979	297.06	116	1003	317.00	118									
106000	4251	860	215.59	111	872	224.42	113	898	242.36	113	923	260.69	113	947	279.47	116	971	298.72	116	995	318.48	116												
112000	4493	885	236.07	111	897	245.26	113	921	263.82	113	945	282.74	114	968	302.03	116	991	321.73	116															
118000	4734	911	258.14	112	922	267.71	114	946	287.02	115	968	306.57	115	991	326.44	116																		
124000	4976	937	281.81	112	949	291.79	114	970	311.89	115	993	332.18	115																					
130000	5217	964	307.10	113	975	317.56	114	996	338.50	115																								
136000	5459	992	334.09	113	1002	345.01	115																											

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

GT-GNN™

SWSI 660

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
66"	26.15 SQ. FT.	25.05 SQ. FT.	F.P.M. =17.30 x RPM	364.29 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
20000	798	156	1.27	73	172	1.68	77	188	2.14	79	204	2.64	81	219	3.17	83	234	3.73	83	249	4.33	85	277	5.60	87										
22000	878	164	1.50	73	179	1.95		195	2.43		209	2.93		224	3.47		238	4.06		251	4.68		278	5.97		304	7.37	89							
24000	958	173	1.77	74	187	2.27	78	202	2.75	80	215	3.28	82	229	3.83	84	242	4.43	84	254	5.06	86	280	6.41	88	305	7.84	90	350	10.95	92			
26000	1038	182	2.08		197	2.60		210	3.13		222	3.68		235	4.24		247	4.86		260	5.49		283	6.86		307	8.34		350	11.55				
28000	1118	193	2.41		206	2.97		218	3.54		231	4.12		242	4.72		253	5.35		265	5.99		287	7.37		310	8.89		352	12.17		391	15.72	94
30000	1198	203	2.78	75	215	3.39	79	227	4.01	81	238	4.61	83	249	5.23	85	261	5.87	85	271	6.54	87	293	7.96	89	313	9.49	91	354	12.83	93	392	16.49	95
32000	1277	213	3.21		225	3.86		236	4.50		247	5.15		258	5.79		268	6.46		278	7.15		299	8.60		318	10.15		356	13.55		394	17.28	
34000	1357	224	3.68		235	4.37		245	5.05		255	5.74		266	6.42		276	7.12		285	7.82		305	9.32		323	10.90		361	14.33		397	18.13	
36000	1437	234	4.17	76	244	4.90	80	254	5.64	82	265	6.36	84	275	7.09	86	284	7.81	86	294	8.55	88	312	10.09	90	330	11.69	92	365	15.20	94	400	19.03	96
38000	1517	244	4.74		254	5.51		265	6.27		274	7.05		283	7.81		293	8.58		302	9.35		319	10.93		337	12.58		370	16.13		403	20.03	
40000	1597	254	5.36		265	6.17		274	6.98		283	7.78		293	8.58		302	9.38		310	10.21		328	11.85		344	13.53		376	17.16		408	21.09	
42000	1677	266	6.03		275	6.88		284	7.73		294	8.58		302	9.43		311	10.26		319	11.10		336	12.81		351	14.56		382	18.26		413	22.25	
44000	1756	276	6.76		285	7.65		295	8.55		303	9.43		312	10.31		320	11.21		328	12.09		344	13.86		359	15.67		389	19.46		418	23.50	
46000	1836	287	7.56	77	296	8.49	81	305	9.41	83	313	10.35	85	321	11.27	87	330	12.21	87	337	13.13	89	352	14.99	91	368	16.84	93	397	20.73	95	424	24.85	97
52000	2076	320	10.37		329	11.38		336	12.43		344	13.47		351	14.53		358	15.58		366	16.64		380	18.73		393	20.82		419	25.05		445	29.44	
58000	2315	354	13.84	78	362	14.97	82	368	16.10	84	375	17.28	86	382	18.46	88	388	19.63	88	396	20.81	90	408	23.15	92	420	25.47	94	445	30.15	96	469	34.89	98
64000	2555	388	18.10		394	19.29		401	20.55		407	21.81		413	23.09		419	24.39		425	25.70		438	28.29		449	30.87		472	36.02	97	494	41.17	
70000	2794	422	23.19		427	24.47		434	25.81		440	27.18		445	28.56		451	29.97		456	31.38		468	34.23		479	37.06	95	500	42.71		520	48.34	99
76000	3034	456	29.17	79	461	30.56	83	467	31.99	85	473	33.44	88	478	34.94	90	483	36.45	90	488	37.98	91	499	41.05	93	509	44.14		529	50.28	98	548	56.41	
82000	3273	491	36.17		495	37.64	84	501	39.16	86	506	40.72		511	42.30		515	43.92		520	45.54		530	48.84		540	52.16	96	558	58.81		577	65.45	100

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
30000	1198	428	20.37	97																														
32000	1277	430	21.28	97	464	25.47	97																											
34000	1357	431	22.22		464	26.52		495	30.98	100																								
36000	1437	433	23.19	98	465	27.58	98	495	32.19	101	525	36.95	103																					
38000	1517	436	24.24		467	28.71		496	33.40		525	38.29		553	43.29	103																		
40000	1597	439	25.35		469	29.89		497	34.68		526	39.66		554	44.78		581	50.08	103															
42000	1677	443	26.55		472	31.16	99	500	36.01		527	41.07		555	46.31		581	51.72		607	57.26	105	631	62.90	105									
44000	1756	447	27.85		475	32.51		503	37.41		529	42.55		556	47.87		582	53.40		607	59.04		631	64.84		655	70.74	105							
46000	1836	452	29.24	99	479	33.95	100	506	38.90	102	533	44.10	104	558	49.51	104	583	55.11	104	608	60.87	106	631	66.79	106	655	72.81	106	678	78.95	108			
52000	2076	470	34.03	100	494	38.89		519	43.99		543	49.34		567	54.92		590	60.72		613	66.73		636	72.91		658	79.25		680	85.75		701	92.37	108
58000	2315	491	39.75		514	44.83	101	537	50.08	103	558	55.58	105	580	61.32	105	602	67.27	105	623	73.43	107	644	79.78	107	664	86.36	107	685	93.08	109	706	99.97	109
64000	2555	515	46.41	101	536	51.76		556	57.26		577	62.95		596	68.85		617	74.93		637	81.24		656	87.75		676	94.45		694	101.35		714	108.42	
70000	2794	541	53.99		560	59.69		579	65.51		598	71.45		617	77.57		636	83.86		653	90.32		672	96.97		690	103.83		708	110.87		725	118.08	
76000	3034	568	62.52	102	586	68.65	102	604	74.83	104	621	81.11	106	639	87.50		656	94.03	106	674	100.71	108	690	107.56	108	707	114.57	108	724	121.75	110	741	129.11	110
82000	3273	594	72.03		612	78.63		629	85.23		646	91.89		662	98.62	106	679	105.46		695	112.41		711	119.49		727	126.72		743	134.09		758	141.63	
88000	3513	623	82.60		640	89.67		656	96.75		672	103.83		688	110.96		703	118.14		718	125.43		733	132.80		749	140.29		763	147.91		779	155.65	
94000	3752	652	94.27	103	668	101.84	103	684	109.39	105	698	116.95	107	714	124.51	107	728	132.10	107	743	139.75	109	757	147.48	109	771	155.27	109	786	163.18	111	800	171.20	111
100000	3992	682	107.10		697	115.18		712	123.24		726	131.27		741	139.31		755	147.35		768	155.41		783	163.52		796	171.69		810	179.93		823	188.26	
106000	4232	712	121.18		726	129.77		741	138.34		755	146.88		768	155.40		782	163.90		795	172.42		809	180.96		822	189.53		834	198.15		848	206.83	
112000	4471	743	136.59		757	145.67		770	154.76		784	163.81		797	172.83		810	181.84		823	190.82		835	199.82		848	208.83		860	217.88		872	226.94	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
52000	2076	722	99.09	108	743	105.94	110																											
58000	2315	725	107.01	109	746	114.17		784	128.86	111	821	143.99	111	857	159.45	113																		
64000	2555	732	115.68		751	123.07		788	138.32		824	154.07		859	170.26		893	186.83	113	926	203.76	113	958	220.99	116									
70000	2794	744	125.46		761	133.03		795	148.66		829	164.86		863	181.60		896	198.80		928	216.42		960	234.41		990	252.71	116							
76000	3034	757	136.64	110	774	144.34	112	806	160.27	112	838	176.81	112	870	193.95	114	901	211.59	114	932	229.75	114	963	248.33	117	993	267.30	117						
82000	3273	774	149.31		789	157.18		820	173.36		851	190.18		881	207.63		911	225.63		940	244.17		969	263.20		998	282.69								
88000	3513	793	163.54		808	171.58		836	188.09		865	205.19		894	222.90		922	241.18		950	260.03	115	977	279.42		1005	299.30								
94000	3752	814	179.33	111	828	187.58	113	855	204.47	113	883	221.92	113	909	239.92	115	936	258.49	115	963	277.62		990	297.28	118										
100000	3992	836	196.67		850	205.19		876	222.56		901	240.41		927	258.77		953	277.65		979	297.06	116	1003	317.00										
106000	4232	860	215.59		872	224.42		898	242.36		923	260.69		947	279.47	116	971	298.72	116	995	318.48													
112000	4471	885	236.07		897	245.26		921	263.82		945	282.74	114	968	302.03		991	321.73																
118000	4711	911	258.14	112	922	267.71	114	946	287.02	115	968	306.57	115	991	326.44	117																		
124000	4950	937	281.81		949	291.79		970	311.89		993	332.18																						
130000	5190	964	307.10	113	975	317.56	115	996	338.50																									
136000	5429	992	334.09		1002	345.01																												

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

SWSI 730

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
73"	31.95 SQ. FT.	30.64 SQ. FT.	F.P.M.=19.15xRPM	603.10 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
24000	783	139	1.50	74	155	2.01	78	169	2.56	80	183	3.16	82	198	3.81	84	211	4.50	84	225	5.23	86	250	6.76	88									
26000	849	145	1.73		160	2.27		174	2.83		187	3.44		201	4.11		213	4.81		227	5.56		251	7.15		274	8.83	90						
28000	914	152	1.98		166	2.54		179	3.15		192	3.77		204	4.45		216	5.16		229	5.92		252	7.53		275	9.27							
30000	979	159	2.27	75	172	2.87	79	184	3.49	81	197	4.13	83	208	4.83	85	220	5.55	85	232	6.32	87	254	7.97	89	276	9.74	91	316	13.58	93			
32000	1044	166	2.58		178	3.21		191	3.86		202	4.54		213	5.24		225	5.99		235	6.76		256	8.44		277	10.26		317	14.17		353	18.40	95
34000	1110	173	2.91		185	3.59		197	4.28		207	4.97		218	5.72		229	6.46		239	7.26		260	8.95		279	10.79		318	14.81		354	19.14	
36000	1175	180	3.28	76	192	4.01	80	203	4.72	82	213	5.46	84	224	6.22	86	234	6.99	86	244	7.81	88	263	9.53	90	282	11.38	92	319	15.46	94	354	19.90	96
38000	1240	187	3.69		199	4.45		209	5.20		219	5.97		230	6.76		239	7.56		248	8.38		267	10.15		285	12.02		321	16.15		355	20.68	
40000	1305	196	4.12		206	4.93		216	5.74		226	6.53		236	7.35		245	8.18		253	9.02		272	10.82		289	12.72		323	16.90		356	21.51	
46000	1501	218	5.67	77	229	6.60	81	237	7.52	83	246	8.46	85	254	9.37	87	263	10.30	87	271	11.24	89	287	13.16	91	303	15.17	93	334	19.50	95	364	24.25	97
52000	1697	242	7.60		251	8.64		260	9.69		268	10.75		275	11.80		283	12.85		290	13.88		305	16.00		319	18.17		347	22.69		374	27.61	
58000	1893	267	10.00	78	274	11.14	82	282	12.32	84	289	13.49	86	297	14.68	88	304	15.84	88	311	17.01	90	324	19.32	92	338	21.69	94	363	26.52	96	388	31.63	98
64000	2089	291	12.89		299	14.14		305	15.43		312	16.72		318	18.03		325	19.32		332	20.61		344	23.19		356	25.75		380	30.96		404	36.34	
70000	2285	316	16.34		322	17.69		329	19.07		335	20.49		341	21.90		347	23.32		353	24.75		366	27.57		377	30.39		400	36.01		421	41.75	
76000	2480	341	20.41	79	347	21.85	83	353	23.34	85	358	24.85	87	365	26.37	89	370	27.91	89	376	29.46	91	387	32.55	93	398	35.61	95	419	41.72	97	439	47.85	99
82000	2676	367	25.15		372	26.67		377	28.24		382	29.87		388	31.50		393	33.17		399	34.82		409	38.14		419	41.48		440	48.07		458	54.66	
88000	2872	391	30.60		397	32.21		402	33.89		407	35.60		412	37.34		417	39.10		422	40.87		432	44.44		442	48.02		460	55.13		479	62.20	100
94000	3068	417	36.82	80	422	38.52	84	426	40.27	86	432	42.08	88	436	43.93	90	441	45.79	90	445	47.67	92	454	51.47	94	464	55.30	96	482	62.90	99	500	70.48	
100000	3264	443	43.87		447	45.65		451	47.50		456	49.40		460	51.34		465	53.30		469	55.28		478	59.32	95	486	63.37	97	504	71.48		520	79.57	101
106000	3460	469	51.78		473	53.65	85	477	55.61	87	481	57.60	89	485	59.61	91	489	61.69	91	493	63.76	93	502	68.00		510	72.29		526	80.89		542	89.48	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
36000	1175	387	24.61	98																														
38000	1240	388	25.50		418	30.56	98																											
40000	1305	388	26.43		419	31.59																												
46000	1501	392	29.39	99	421	34.86	99	449	40.57	101	475	46.50	104	501	52.60	104																		
52000	1697	401	32.88		427	38.52		452	44.47		478	50.69		502	57.13		525	63.78	104	548	70.61	106	571	77.56	106									
58000	1893	412	37.06	100	436	42.84	100	459	48.95	102	483	55.36	105	506	62.03	105	528	68.95	105	550	76.09	107	572	83.40	107	592	90.89	107	613	98.52	109	632	106.25	109
64000	2089	426	41.99		448	47.93		470	54.17		491	60.72		513	67.56		534	74.68		554	82.04		575	89.61		595	97.40		615	105.35		634	113.45	
70000	2285	442	47.67		462	53.82		483	60.22	103	503	66.94		522	73.90		542	81.17		561	88.68		581	96.46		599	104.44		619	112.64		638	121.03	
76000	2480	459	54.11	101	478	60.53	102	497	67.17	104	516	74.06	106	535	81.18	106	553	88.58	106	572	96.23	108	589	104.15	108	608	112.30	108	625	120.67	110	643	129.27	110
82000	2676	477	61.31	102	495	68.07		513	74.98		530	82.09		548	89.42		565	97.00		583	104.80		599	112.85		617	121.13		633	129.67		650	138.40	
88000	2872	496	69.27		514	76.42		530	83.68		547	91.07		563	98.65		580	106.43		596	114.42		613	122.63		628	131.07		644	139.72		660	148.62	
94000	3068	516	78.02	103	533	85.59	103	549	93.25	105	564	100.98	107	581	108.85	107	596	116.89	107	611	125.10	109	626	133.51	109	642	142.13	109	657	150.96	111	672	159.97	111
100000	3264	537	87.61		552	95.63		568	103.70		583	111.82		598	120.05		613	128.39		627	136.87		642	145.53		656	154.36		671	163.37		685	172.57	
106000	3460	557	98.03		573	106.53		587	115.05		603	123.60		617	132.21		630	140.90		645	149.71		658	158.65		673	167.74		686	176.96		699	186.38	
112000	3655	579	109.32		593	118.35		608	127.34		622	136.34		636	145.36		649	154.45		662	163.63		676	172.90		689	182.27		702	191.79		715	201.46	
118000	3851	600	121.55	104	615	131.08	104	628	140.58	106	642	150.05	108	655	159.53	108	668	169.04	108	681	178.60	110	694	188.24	110	707	197.97	110	719	207.80	112	731	217.75	112
124000	4047	623	134.79		637	144.82		650	154.82		662	164.79		676	174.74		688	184.71		700	194.70		713	204.74		725	214.84		737	225.01		749	235.29	
130000	4243	645	149.03		658	159.58		671	170.08		684	180.56		696	191.00		709	201.45		720	211.90		732	222.36		744	232.88		756	243.45		767	254.08	
136000	4439	667	164.39		680	175.42		692	186.43		705	197.43		717	208.38		729	219.30		741	230.22		752	241.14		763	252.10		775	263.07		786	274.11	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
64000	2089	653	121.73	109	672	130.12	111	708	147.25	111																								
70000	2285	655	129.60	109	674	138.33	111	709	156.20	111	743	174.59	111	775	193.38	113																		
76000	2480	660	138.07	110	677	147.03	112	711	165.50	112	744	184.56	112	776	204.10	114	806	224.11	114	837	244.50	114												
82000	2676	666	147.37	110	683	156.54	112	716	175.42	112	747	195.01	112	778	215.18	114	809	235.87	114	837	257.02	114	867	278.52	116	895	300.50	116						
88000	2872	676	157.71	110	691	167.02	112	722	186.27	112	752	206.24	112	782	226.87	114	812	248.12	114	840	269.89	114	868	292.15	116	896	314.83	116	923	337.90	116	950	361.31	117
94000	3068	686	169.23	111	701	178.66	113	730	198.18	113	759	218.48	113	788	239.49	115	816	261.17	115	844	283.44	115	871	306.25	117	898	329.57	117	925	353.31	117	951	377.48	118
100000	3264	699	181.96	111	713	191.57	113	741	211.37	113	768	231.94	113	796	253.25	115	823	275.26	115	850	297.92	115	876	321.18	117	902	345.00	117	927	369.32	117	953	394.10	118
106000	3460	713	195.97	111	726	205.74	113	753	225.86	113	779	246.70	113	805	268.29	115	831	290.58	115	857	313.56	115	882	337.19	117	907	361.41	117	932	386.18	117	957	411.47	118
112000	3655	728	211.27	111	741	221.25	113	766	241.72	113	791	262.87	113	816	284.75	115	842	307.32	115	865	330.59	115	890	354.51	117	915	379.05	117	938	404.18	118	962	429.89	118
118000	3851	744	227.85	112	756	238.05	114	781	258.95	114	804	280.48	113	829	302.69	115	853	325.54	116	876	349.08	116	899	373.28	118	923	398.11	118	946	423.56	118			
124000	4047	761	245.69	112	773	256.19	114	796	277.59	114	819	299.53	114	843	322.11	116	865	345.31	116	888	369.14	116	911	393.62	118	932	418.72	118	955	444.45	119			
130000	4243	779	264.81	112	790	275.64	114	813	297.60	114	835	320.06	114	857	343.05	116	879	366.64	116	900	390.81	116	922	415.59	118	943	440.98	119	965	466.98	119			
136000	4439	797	285.22	112	808	296.38	114	830	319.00	114	851	342.02	114	872	365.53	116	894	389.56	116	915	414.10	116	935	439.24	118	956	464.96	119						
142000	4634	816	306.92	112	826	318.48	114	848	341.78	114	868	365.45	114	889	389.53	116	909	414.04	116	930	439.06	116	950	464.57	119									
148000	4830	835	329.92	112	846	341.89	114	866	365.97	114	886	390.33	114	906	415.02	116	926	440.11	116	946	465.63	117	965	491.63	119									
154000	5026	855	354.23	112	865	366.64	114	885	391.54	114	904	416.66	114	924	442.05	116	942	467.76	117	962	493.85	117												
160000	5222	874	379.92	112	885	392.77	114	904	418.55	114	923	444.47	114	942	470.60	117	961	497.00	117																
166000	5418	895	406.96	112	905	420.28	114	924	446.98	114	942	473.75	114	961	500.68	117																		

*BHP does not include drive loss. *Underlined figures indicate maximum static efficiency *performance shown is for fan with outlet duct.

GT-GNN™

SWSI 807

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
80 3/4"	39.02 SQ. FT.	37.49 SQ. FT.	F.P.M.= 21.14 x RPM	998.73 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
30000	800	127	1.92	80	141	2.54	84	153	3.21	86	167	3.96	88	179	4.76	90	192	5.60	90	204	6.49	92	227	8.38	94										
32000	854	132	2.14		145	2.80		158	3.50		170	4.24		181	5.06		194	5.92		205	6.84		227	8.77		248	10.83	96						
34000	907	137	2.40		149	3.09		161	3.81		173	4.57		184	5.40		196	6.26		206	7.20		228	9.18		248	11.29							
36000	960	142	2.67	81	153	3.39	85	165	4.14	87	176	4.93	89	187	5.76	91	198	6.64	91	208	7.58	93	229	9.60	95	249	11.75	97	286	16.40	99			
38000	1014	147	2.96		159	3.73		170	4.50		180	5.31		191	6.17		201	7.07		211	8.02		231	10.04		250	12.25		286	17.01				
40000	1067	152	3.28		164	4.09		174	4.89		184	5.74		194	6.60		204	7.52		213	8.49		233	10.55		251	12.76		286	17.61		320	22.84	101
42000	1120	158	3.63		168	4.47		178	5.31		188	6.18		198	7.09		207	8.01		216	8.99		235	11.07		253	13.32		287	18.24		320	23.58	
44000	1174	163	4.01		173	4.89		183	5.77		193	6.67		202	7.58		211	8.55		220	9.53		238	11.64		255	13.92		288	18.90		320	24.34	101
46000	1227	169	4.40	82	178	5.33	86	188	6.26	88	198	7.19	90	206	8.14	92	215	9.12	92	224	10.12	94	241	12.25	96	258	14.55	98	290	19.58	100	321	25.12	102
48000	1280	174	4.83		183	5.79		194	6.76		202	7.73		211	8.71		219	9.70		228	10.73		244	12.91		261	15.22		291	20.32		322	25.93	
50000	1334	180	5.27		190	6.30		198	7.29		207	8.31		215	9.32		224	10.35		232	11.41		247	13.61		264	15.97		294	21.09		323	26.75	
52000	1387	185	5.77		195	6.83		203	7.88		212	8.92		220	9.96		228	11.03		236	12.10		251	14.36		267	16.75		296	21.92		324	27.62	
61000	1627	211	8.38	83	219	9.63	87	228	10.87	89	235	12.10	91	242	13.32	93	249	14.55	93	256	15.78	95	270	18.26	97	283	20.84	99	309	26.30	101	335	32.22	103
70000	1867	238	11.80		245	13.20		252	14.61		259	16.04		266	17.46		272	18.87		278	20.26		290	23.09		303	25.93		327	31.80		349	38.01	
79000	2107	266	16.13	84	272	17.69	88	278	19.26	90	284	20.87	92	290	22.46	94	296	24.06	94	302	25.67	96	313	28.84	98	324	32.00	100	345	38.43	102	367	45.06	104
88000	2347	294	21.51		299	23.19		304	24.93		310	26.69		315	28.47		320	30.25		327	32.03		337	35.61		347	39.15		367	46.22		385	53.37	
97000	2587	321	28.04	85	325	29.84	89	331	31.73	91	336	33.65	93	341	35.60	95	346	37.55	95	351	39.52	97	361	43.47	99	371	47.39	101	388	55.18	103	407	62.98	105
106000	2827	349	35.82		353	37.78		358	39.81		363	41.87		368	43.98		372	46.10		377	48.25		385	52.55		394	56.85		412	65.41		428	73.92	
115000	3067	377	45.02	86	381	47.12	90	385	49.28	92	389	51.47	94	394	53.74	96	399	56.00	96	403	58.32	98	411	62.97	100	419	67.64	102	436	76.95	104	451	86.21	106
124000	3308	406	55.74		409	57.96		413	60.24		417	62.59		421	64.98		425	67.41		428	69.88		437	74.86		445	79.88		460	89.94		475	99.97	107

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
44000	1174	350	30.10	103																														
46000	1227	350	30.98	104																														
48000	1280	351	31.90		378	38.18	104																											
50000	1334	351	32.83		379	39.21		405	45.87	106																								
52000	1387	352	33.79		379	40.27		405	47.04																									
61000	1627	359	38.63	105	384	45.44	105	408	52.65	107	431	60.15	109	453	67.91	109	475	75.88	110	495	84.04	112												
70000	1867	371	44.62		393	51.68		415	59.12		436	66.94		456	75.09		477	83.50		497	92.19		516	101.09	112	536	110.20	112	554	119.46	114	572	128.88	114
79000	2107	386	51.98	106	406	59.27	106	425	66.94	108	445	74.97	110	465	83.36	110	483	92.08	111	502	101.09	113	520	110.40	113	539	119.93	113	556	129.71	115	574	139.69	115
88000	2347	404	60.74		422	68.36		440	76.29		458	84.55		476	93.15		493	102.09		510	111.34		527	120.91		544	130.75		561	140.85		578	151.21	
97000	2587	423	70.91	107	441	78.98	107	457	87.26	109	474	95.84	112	490	104.70	112	506	113.86	112	522	123.32	114	538	133.09	114	553	143.16	114	569	153.51	116	584	164.13	116
106000	2827	445	82.46		460	91.08		476	99.85	110	491	108.82		507	118.03		521	127.47		537	137.20		551	147.20		565	157.47		580	168.02		594	178.86	
115000	3067	467	95.46	108	482	104.72	109	496	114.06	111	511	123.53	113	524	133.17	113	539	143.01	113	552	153.05	115	567	163.34	115	580	173.87	115	593	184.67	117	607	195.71	117
124000	3308	489	109.95	109	504	119.90		517	129.88		530	139.95		544	150.10		557	160.41		571	170.87		584	181.54		596	192.40		609	203.49		622	214.81	
133000	3548	513	126.01		526	136.71		540	147.39		552	158.09		565	168.85		578	179.69		590	190.67		603	201.78		615	213.06		626	224.52		639	236.16	
142000	3788	537	143.75		549	155.20		562	166.61		575	178.03		586	189.45		598	200.91		611	212.45		622	224.09		633	235.85		645	247.75		656	259.80	
151000	4028	561	163.26		574	175.48		585	187.65		597	199.80		609	211.92		620	224.06		631	236.23		643	248.47		654	260.78		664	273.19		676	285.71	
160000	4268	586	184.67		597	197.64		609	210.57		620	223.47		631	236.34		643	249.19		653	262.04		664	274.92		675	287.85		685	300.84		695	313.92	
169000	4508	611	208.09		622	221.82		633	235.52		644	249.17		655	262.78		665	276.38		676	289.95		686	303.52		696	317.12		707	330.75		717	344.42	
178000	4748	637	233.67		647	248.12		658	262.57		668	276.99		679	291.38		689	305.72		698	320.04		709	334.34		719	348.62		728	362.93		739	377.26	
187000	4988	662	261.50		673	276.66		683	291.85		692	307.03		702	322.18		713	337.29		722	352.36		732	367.41		742	382.43		751	397.45		760	412.46	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
79000	2107	590	149.82	115	607	160.14	117	640	181.21	117																								
88000	2347	593	161.80		610	172.59		641	194.71		672	217.47	117	700	240.79	119																		
97000	2587	599	175.00	116	615	186.11	118	645	209.02	118	674	232.71	118	702	257.07	120	730	282.02	120	757	307.50	120	784	333.45	122									
106000	2827	609	189.96		623	201.31		651	224.76		679	249.12		707	274.25		732	300.11		759	326.59		785	353.65		810	381.20	122	834	409.21	122	858	437.64	122
115000	3067	620	207.03	117	633	218.60	119	660	242.47	119	687	267.29	119	713	293.00	121	737	319.53	121	763	346.78	121	788	374.68	123	812	403.21	123	835	432.27	123	859	461.82	123
124000	3308	634	226.35		647	238.15		672	262.44		696	287.69		721	313.84		746	340.86		769	368.67		793	397.25		816	426.50		839	456.40		862	486.86	
133000	3548	650	248.00		662	260.09		686	284.86		709	310.55		732	337.11		755	364.55		778	392.82		800	421.90		823	451.73		845	482.25		866	513.42	
142000	3788	667	272.03		679	284.42		701	309.81		723	336.02		746	363.03		767	390.89		789	419.59		811	449.08		831	479.35		853	510.37		873	542.09	
151000	4028	686	298.39		697	311.19		718	337.33		740	364.13		760	391.70		781	420.04		801	449.16		822	479.06		843	509.77		862	541.21				
160000	4268	706	327.11		716	340.40		736	367.38		757	394.93		777	423.15		796	452.08		816	481.70		835	512.09		855	543.19		873	575.05				
169000	4508	726	358.18		736	372.02		756	399.98		775	428.41		794	457.40		813	487.00		831	517.24		850	548.17		868	579.77							
178000	4748	748	391.64		757	406.06		776	435.13		794	464.56		813	494.44		830	524.85		849	555.81		866	587.36										
187000	4988	769	427.49		779	442.56		796	472.84		815	503.40		832	534.29		850	565.59		866	597.38													
196000	5228	791	465.84	118	800	481.60	120	818	513.17	120	835	544.91	120	852	576.92	122	869	609.25	122															
205000	5468	814	506.72		823	523.17		839	556.12		856	589.16		872	622.37																			
214000	5708	837	550.20		846	567.40		862	601.77																									

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

SWSI 890

WHEEL DIAMETER	INLET AREA	DISCHARGE AREA	TIP SPEED	MAXIMUM BHP
89"	47.30 SQ. FT.	45.54 SQ. FT.	F.P.M. = 23.30 x RPM	1624.33 (RPM/1000)^3

CFM	OV	1/4" SP			3/8" SP			1/2" SP			5/8" SP			3/4" SP			7/8" SP			1" SP			1-1/4" SP			1-1/2" SP			2" SP			2-1/2" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
36000	791	114	2.27	81	127	3.04	85	139	3.85	87	150	4.74	89	163	5.72	91	174	6.74	91	184	7.82	93	205	10.11	95										
39000	856	119	2.62		132	3.42		143	4.27		153	5.17		165	6.17		175	7.21		185	8.32		206	10.69		225	13.19	97						
42000	922	126	3.00		137	3.86		147	4.73		158	5.67		168	6.68		178	7.74		187	8.87		207	11.29		226	13.88							
45000	988	131	3.43	82	142	4.33	86	151	5.25	88	162	6.23	90	171	7.26	92	181	8.34	92	191	9.49	94	208	11.95	96	227	14.58	98	260	20.30	100			
48000	1054	137	3.90		147	4.86		157	5.83		166	6.85		175	7.89		184	9.00		194	10.16		211	12.65		228	15.36		261	21.22		290	27.52	102
51000	1120	143	4.40		152	5.43		162	6.46		171	7.52		179	8.60		188	9.72		197	10.92		213	13.45		230	16.18		261	22.16		290	28.62	
54000	1186	149	4.97		159	6.07		167	7.15		176	8.24		184	9.37		193	10.54		201	11.73		216	14.30		232	17.07		263	23.13		290	29.78	
57000	1252	156	5.57	83	164	6.74	87	173	7.88	89	181	9.02	91	190	10.19	93	197	11.40	93	205	12.63	95	219	15.25	97	235	18.06	99	264	24.21	101	291	30.96	103
60000	1318	162	6.25		170	7.47		178	8.66		186	9.87		194	11.08		202	12.34		209	13.61		224	16.27		238	19.12		266	25.34		293	32.20	
63000	1383	168	6.96		176	8.24		184	9.52		192	10.77		199	12.06		207	13.35		214	14.66		228	17.39		241	20.26		269	26.55		295	33.50	
66000	1449	174	7.76		182	9.09		190	10.43		198	11.75		205	13.07		212	14.42		218	15.78		232	18.57		245	21.52		271	27.88		297	34.89	
76000	1669	196	10.85	84	203	12.37	88	210	13.92	90	216	15.46	92	224	16.97	94	230	18.50	94	236	20.04	96	248	23.13	98	260	26.30	100	283	32.99	102	306	40.24	104
86000	1888	218	14.76		225	16.46		231	18.20		237	19.96		243	21.70		249	23.43		254	25.15		266	28.60		276	32.11		298	39.28		318	46.87	
96000	2108	241	19.63	85	246	21.49	89	252	23.41	91	258	25.37	93	264	27.32	95	269	29.26	95	274	31.19	97	284	35.05	99	295	38.91	101	313	46.70	103	333	54.77	105
106000	2328	264	25.53		269	27.57		274	29.65		279	31.80		284	33.94		289	36.08		294	38.23		304	42.52		313	46.78		331	55.31		348	63.95	
116000	2547	287	32.62	86	291	34.79	90	297	37.05	92	301	39.36	94	306	41.68	96	310	44.04	96	315	46.39	98	323	51.11	100	333	55.80	102	349	65.11	104	366	74.46	106
126000	2767	310	40.97		314	43.30		318	45.72		323	48.18		328	50.69		332	53.22		336	55.77		344	60.89		352	65.99		369	76.16		383	86.29	
136000	2986	334	50.73		338	53.20		341	55.76		345	58.39		349	61.07		353	63.78		357	66.50		365	72.02		373	77.54		388	88.54		403	99.49	
146000	3206	357	61.95		361	64.58		365	67.30		368	70.08		372	72.92		375	75.80		379	78.71		386	84.58		393	90.51		408	102.35		421	114.13	
156000	3426	380	74.82		384	77.58		387	80.44		390	83.37		394	86.37		398	89.41		401	92.49		408	98.72		415	105.02		428	117.69		442	130.34	

CFM	OV	3" SP			3-1/2" SP			4" SP			4-1/2" SP			5" SP			5-1/2" SP			6" SP			6-1/2" SP			7" SP			7-1/2" SP			8" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
54000	1186	318	36.80	104																														
57000	1252	318	38.15	105	343	45.70	105																											
60000	1318	319	39.54		344	47.25		367	55.28	107																								
63000	1383	319	40.96		344	48.84		367	57.06																									
66000	1449	321	42.45		345	50.48		368	58.85		389	67.53	109																					
76000	1669	328	48.07	106	349	56.42	106	371	65.22	108	391	74.42	110	411	83.95	110	431	93.75	110	449	103.79	112												
86000	1888	338	54.94		357	63.52		377	72.57		397	82.10		415	92.02		434	102.30		451	112.90		469	123.76	112	486	134.87	113	503	146.19	115	519	157.70	115
96000	2108	350	63.18	107	369	72.03	107	386	81.34	109	404	91.09	111	421	101.29	111	439	111.89	111	455	122.84	113	472	134.15	114	488	145.75	114	505	157.60	116	520	169.72	116
106000	2328	366	72.84		382	82.07		399	91.67		414	101.68		431	112.11		447	122.93		462	134.16		478	145.75		493	157.69		509	169.95		523	182.50	
116000	2547	381	83.95	108	397	93.65	108	412	103.64	110	427	113.98	112	442	124.68	112	457	135.76	112	472	147.22	115	486	159.03	115	501	171.23	115	515	183.74	117	529	196.60	117
126000	2767	399	96.46		413	106.76		427	117.26		442	128.02		455	139.08		470	150.46		483	162.17		496	174.26		510	186.67		523	199.43		537	212.52	
136000	2986	416	110.41		431	121.39		444	132.49		457	143.79		471	155.30		483	167.07		496	179.13		509	191.51		521	204.20		535	217.20		547	230.52	
146000	3206	436	125.87		448	137.61		461	149.40		474	161.30	113	486	173.36	113	499	185.61	113	511	198.11		522	210.84		535	223.87		547	237.17		558	250.78	
156000	3426	454	142.90		467	155.43		479	167.97		491	180.56		503	193.25		515	206.08		526	219.07		538	232.28		549	245.72		560	259.38		572	273.33	
166000	3645	474	161.58	109	486	174.94	109	497	188.27	111	509	201.61		520	214.99		531	228.46		543	242.06		553	255.81		564	269.73		575	283.85		586	298.20	
176000	3865	494	181.98		506	196.19		517	210.34		527	224.48		539	238.63		549	252.80		560	267.06		571	281.43		581	295.91		591	310.56		602	325.39	
186000	4084	514	204.23		525	219.28		536	234.28		547	249.26		557	264.20		568	279.13		578	294.10		588	309.14		597	324.27		608	339.51		617	354.90	
196000	4304	535	228.43	110	546	244.33	110	556	260.19	112	567	276.00	114	576	291.75	114	586	307.49	114	596	323.22	116	606	338.99	116	615	354.84	116	624	370.73	118	633	386.72	118
206000	4523	555	254.70		565	271.43		576	288.14		586	304.79		595	321.38		605	337.96		615	354.51		624	371.05		633	387.60		643	404.20		651	420.88	

CFM	OV	8-1/2" SP			9" SP			10" SP			11" SP			12" SP			13" SP			14" SP			15" SP			16"SP			17" SP			18" SP		
		RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA	RPM	BHP	dBA
96000	2108	536	182.05	116	551	194.58	118	580	220.17	118																								
106000	2328	539	195.31		553	208.38		581	235.16		609	262.71	118	636	290.92	120																		
116000	2547	543	209.76	117	557	223.21	119	584	250.89	119	611	279.50	119	637	308.91	121	662	339.00	121	687	369.73	121	711	400.99	123									
126000	2767	550	225.94		563	239.66		589	268.01		615	297.39		640	327.73		664	358.88		688	390.77		712	423.33		734	456.47	123	757	490.13	123			
136000	2986	559	244.17		572	258.14		596	286.98		620	316.95		644	347.96		667	379.94		691	412.76		714	446.35		735	480.62		758	515.54		779	551.01	123
146000	3206	571	264.68		582	278.87		605	308.18		628	338.62		651	370.17		674	402.75		695	436.28		717	470.68		739	505.87		760	541.79		781	578.37	
156000	3426	583	287.53		593	302.01		616	331.79		638	362.72		659	394.74		681	427.82		701	461.88		723	496.92		744	532.81		763	569.53		784	607.00	
166000	3645	596	312.77		607	327.58		627	357.97		649	389.40		670	421.90		689	455.44		710	489.98		729	525.52		750	561.98		769	599.32				
176000	3865	611	340.40		621	355.61		641	386.72		661	418.78		681	451.79		699	485.82		719	520.83		739	556.83		757	593.76		777	631.62				
186000	4084	627	370.41		637	386.12		655	418.07		675	450.85		693	484.50		712	519.09		730	554.60		749	591.08		766	628.46		785	666.78				
196000	4304	644	402.83	118	652	419.07	120	671	452.02	120	689	485.65	120	707	520.06	122	724	555.29	122	743	591.40	122	760	628.38	124	778	666.28	124						
206000	4523	660	437.63		670	454.48		687	488.54		705	523.16		721	558.44		739	594.44		755	631.25		773	668.84										
216000	4743	678	474.85		686	492.36		703	527.65		720	563.39		736	599.68		753	636.56		769	674.15		786	712.47										
226000	4963	696	514.55		705	532.77		721	569.37		736	606.33		753	643.74		768	681.63		785	720.13													
236000	5182	714	556.73		722	575.71		739	613.75		754	652.02		769	690.64		785	729.67																
246000	5402	733	601.48		741	621.22		756	660.78		771	700.47		787	740.39																			

* BHP does not include drive loss. * Underlined figures indicate maximum static efficiency * performance shown is for fan with outlet duct.

Dimensional Data

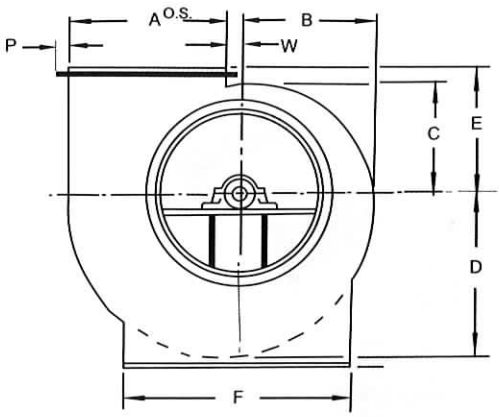
D.I.D.W. Arrangement 3

DIMENSIONS : mm

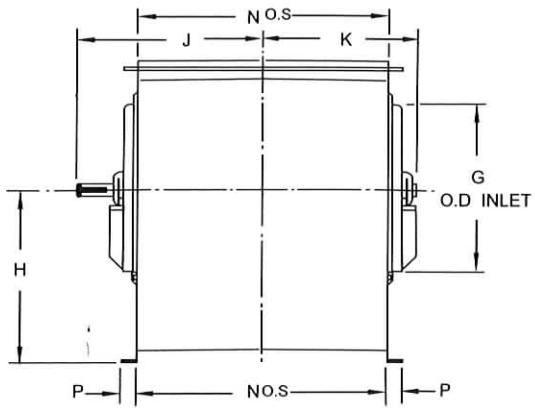
FAN SIZE	H (FIGURE No.)						J	K	N	P	W
	1 & 11 2 & 12	3 & 13	4 & 14	5 & 15	6 & 16	7 & 17 8 & 18					
122	371	337	311	286	273	254	420	355	499	38	40
135	403	368	343	311	298	279	450	380	551	38	44
150	445	406	375	343	324	305	460	410	610	38	61
165	483	445	500	375	356	330	535	440	670	38	51
182	530	489	451	413	387	362	600	480	743	38	57
200	575	533	492	448	422	394	635	520	813	38	58
222	650	603	559	508	470	432	680	560	902	51	62
245	711	660	610	559	514	470	735	615	1000	51	73
270	778	720	667	610	565	514	800	685	1100	51	79
300	860	797	737	670	619	565	890	745	1222	51	95
330	940	873	803	737	679	622	950	805	1344	51	100

FAN SIZE	SHAFT DIA. INS.		A	B	C	D	E (FIGURE No.)			F	G
	CL1	CL2					1–5 11–15	6 & 16	7 & 8 17 & 18		
365	2	2½	870	771	637	922	700	895	711	1270	1020
402	2½	3	965	848	702	1016	768	984	781	2500	1111
445	2½	3	1068	937	774	1123	838	1073	851	1524	1232
490	2½	3	1178	1035	857	1246	921	1181	933	1702	1353
542	3	3	1302	1142	944	1368	1016	1305	1029	1886	1499
600	3	3½	1438	1263	1043	1513	1124	1444	1137	2083	1664
660	3½	3½	1584	1382	1140	1663	1226	1575	1238	2292	1813
730	4	4	1753	1535	1269	1840	1346	1730	1359	2534	2007
807	4	5	1933	1696	1403	2035	1505	1927	1518	2800	2241
890	5	6	2141	1893	1545	2242	1651	2114	1664	3086	2466

FAN SIZE	H (FIGURE No.)						J	K	N	P	W
	1 & 11 2 & 12	3 & 13	4 & 14	5 & 15	6 & 16	7 & 17 8 & 18					
365	1032	959	883	806	756	699	1020	875	1486	51	111
402	1133	1054	972	889	829	768	1130	990	1638	51	117
445	1273	1175	1080	991	914	838	1210	1070	1805	76	129
490	1394	1289	1187	1083	1003	921	1305	1165	1992	76	140
542	1534	1422	1308	1194	1105	1016	1450	1280	2198	76	155
600	1689	1565	1441	1314	1207	1124	1590	1395	2427	76	173
660	1851	1715	1575	1441	1327	1226	1730	1540	2684	76	189
730	2038	1892	1740	1588	1467	1346	1870	1680	2957	76	207
807	2286	2120	1905	1778	1625	1403	2035	1855	3272	102	235
890	2508	2337	2108	1968	1765	1550	2225	2020	3604	102	248



DRIVE SIDE ELEVATION



FRONT ELEVATION

Note: Fig. numbers in following tables refer to Discharge Positions diagrams.

FAN SIZE	SHAFT DIA. INS.		A	B	C	D	E (FIGURE No.)			F	G
	CL1	CL2					1–5 11–15	6 & 16	7 & 8 17 & 18		
122	1¼	1½	290	258	214	310	263	263	330	432	337
135	1½	1½	321	286	237	342	285	285	356	473	375
150	1½	1½	344	315	261	380	305	305	381	527	416
165	1½	1½	392	347	286	416	330	330	406	578	467
182	1½	2	435	383	316	462	374	374	438	638	508
200	1½	2	481	422	349	506	394	394	470	698	554
222	1½	2	538	470	389	563	432	432	533	775	613
245	2	2	586	512	426	619	470	470	572	854	676
270	2	2½	648	568	469	682	514	514	616	943	752
300	2	2½	712	631	522	757	565	565	667	1044	826
330	2	2½	789	694	573	834	630	630	711	1153	911

NOTE: INCH SIZES USED FOR SHAFTS WHILE STILL AVAILABLE

DISCHARGE POSITIONS. CLOCKWISE ROTATION SHOWN (viewd from drive side), ANTI - CLOCKWISE ___ OPPOSITE HAND

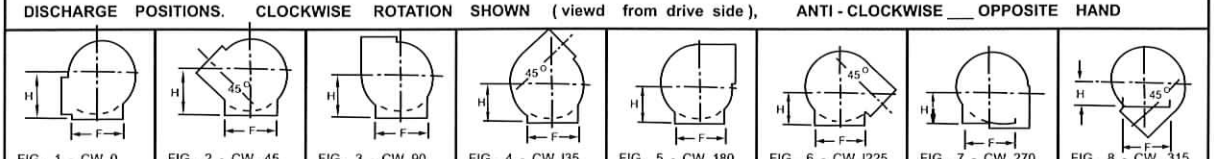
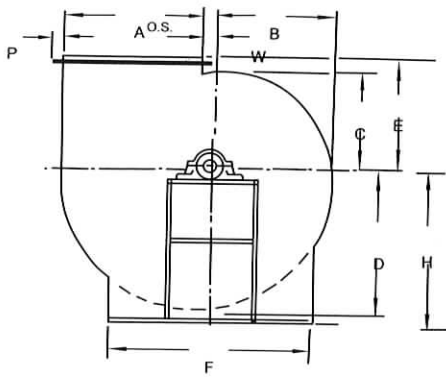


FIG . 1 - CW .0 FIG . 11 - ACW . 0
FIG . 2 - CW . 45 FIG . 12 - ACW . 45
FIG . 3 - CW .90 FIG . 13 - ACW . 90
FIG . 4 - CW .I35 FIG . 14 - ACW . 135
FIG . 5 - CW .180 FIG . 15 - ACW .180
FIG . 6 - CW .I225 FIG . 16 - ACW . 225
FIG . 7 - CW .270 FIG . 17 - ACW . 270
FIG . 8 - CW . 315 FIG . 18 - ACW . 315

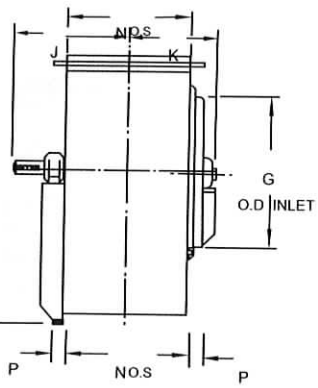
Dimensional Data

S.I.S.W. Arrangement 1, 3, 4, 9

DIMENSIONS : mm

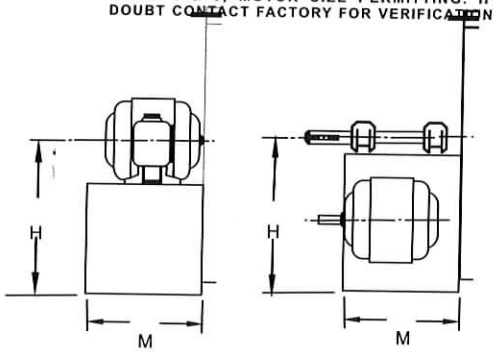


DRIVE SIDE ELEVATION
ATTAMGEMENT 3.



FRONT ELEVATION

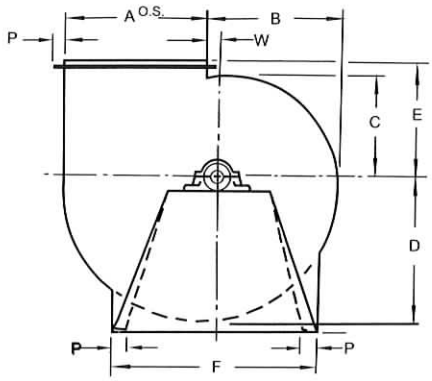
NOTE: STANDARD PEDESTAL DIM'S. APPLY TO DRIVE ARR'S 4 & 9, MOTOR SIZE PERMITTING. IF DOUBT CONTACT FACTORY FOR VERIFICATION



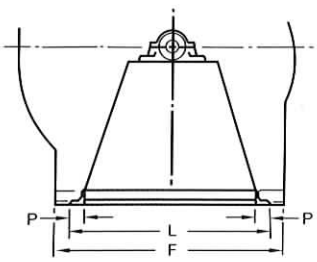
ATTAMGEMENT 9.

FAN SIZE	SHAFT DIA. INS.		A	B	C	D	E (FIGURE No.)			F	G
	CL1	CL2					1–5 11–15	6 & 16	7 & 8 17 & 18		
365	2½	2½	905	771	637	922	700	895	711	1270	1032
402	2½	3	1000	848	702	1016	768	984	781	1400	1123
445	3	3	1105	937	774	1123	838	1073	851	1524	1244
490	3	3½	1216	1035	857	1246	921	1181	933	1702	1365
542	3	3½	1346	1142	944	1368	1016	1305	1029	1886	1511
600	3½	4	1486	1263	1043	1513	1124	1444	1137	2083	1680
660	3½	4½	1635	1382	1140	1663	1226	1575	1238	2292	1833
730	4	5	1806	1535	1269	1840	1346	1730	1359	2534	2027
807	4½	5½	1997	1697	1403	2035	1505	1927	1518	2800	2242
890	5	6	2200	1886	1545	2242	1651	2115	1664	3086	2467

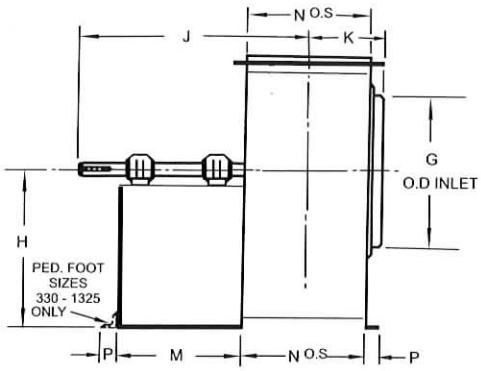
FAN SIZE	H (FIGURE No.)						J		K		L	M	N	P	W
	1 & 11 2 & 12	3 & 13	4 & 14	5 & 15	6 & 16	7 & 17 8 & 18	Arr 1, 9	Arr 3	Arr 1, 9	Arr 3					
365	1032	959	883	806	756	699	1170	635	460	510	864	635	812	51	76
402	1133	1054	972	889	829	768	1285	740	525	615	1016	711	895	51	82
445	1273	1175	1080	991	914	838	1400	815	570	660	1168	749	988	76	92
490	1394	1289	1187	1083	1003	921	1500	865	620	710	1168	800	1089	76	102
542	1534	1422	1308	1194	1105	1016	1620	950	680	770	1219	838	1204	76	111
600	1689	1565	1441	1314	1207	1124	1790	1015	745	835	1372	940	1332	76	125
660	1851	1715	1575	1441	1327	1226	1895	1080	810	900	1524	978	1464	76	138
730	2038	1892	1740	1588	1467	1346	2010	1155	890	980	1676	1016	1620	76	154
807	2286	2120	1905	1778	1625	1403	2425	1295	1000	1120	1905	1346	1794	102	171
890	2508	2337	2108	1968	1765	1550	2680	1410	1090	1210	2160	1485	1976	102	189



DRIVE SIDE ELEVATION
SIZES 122 to 300



SIZES 330 to 1325



FRONT ELEVATION

Note: Fig. numbers in following tables refer to Discharge Positions diagrams.

FAN SIZE	SHAFT DIA. INS.		A	B	C	D	E (FIGURE No.)			F	G
	CL1	CL2					1–5 11–15	6 & 16	7 & 8 17 & 18		
122	1	1	308	258	214	310	263	263	330	432	346
135	1	1¼	340	286	237	342	285	285	356	473	384
150	1¼	1¼	375	315	261	380	305	305	381	527	425
165	1¼	1½	409	347	286	416	330	330	406	578	476
182	1½	1½	456	383	316	462	374	374	438	638	518
200	1½	2	498	422	349	506	394	394	470	698	564
222	1	2¼	554	470	389	563	432	432	533	775	622
245	2	2¼	610	512	426	619	470	470	572	854	686
270	2¼	2¼	671	568	469	682	514	514	616	943	762
300	2¼	2¼	745	631	522	757	565	565	667	1044	835
330	2¼	2¼	822	694	573	834	630	630	711	1153	921

NOTE: INCH SIZES USED FOR SHAFTS WHILE STILL AVAILABLE

FAN SIZE	H (FIGURE No.)						J		K		L	M	N	P	W
	1 & 11 2 & 12	3 & 13	4 & 14	5 & 15	6 & 16	7 & 17 8 & 18	Arr 1, 9	Arr 3	Arr 1, 9	Arr 3					
122	371	337	311	286	273	254	500	290	175	215	N/A	273	276	38	22
135	403	368	343	311	298	279	515	320	190	230	N/A	273	303	38	25
150	445	406	375	343	324	305	565	350	210	250	N/A	292	337	38	30
165	483	445	500	375	356	330	595	380	235	275	N/A	292	371	38	34
182	530	489	451	416	387	362	645	410	240	280	N/A	311	408	38	36
200	575	533	492	448	422	394	665	430	260	300	N/A	311	446	38	41
222	650	603	559	508	470	432	800	455	300	330	N/A	419	497	51	46
245	711	660	610	559	514	470	860	480	325	350	N/A	457	546	51	49
270	778	720	667	610	565	514	940	530	350	400	N/A	508	602	51	56
300	860	797	737	670	619	565	1035	565	385	440	N/A	565	669	51	62
330	940	873	806	737	679	622	1130	600	420	470	864	635	736	51	67

NOTE: INCH SIZES USED FOR SHAFTS WHILE STILL AVAILABLE

DISCHARGE POSITIONS. CLOCKWISE ROTATION SHOWN (viewd from drive side), ANTI - CLOCKWISE ___ OPPOSITE HAND

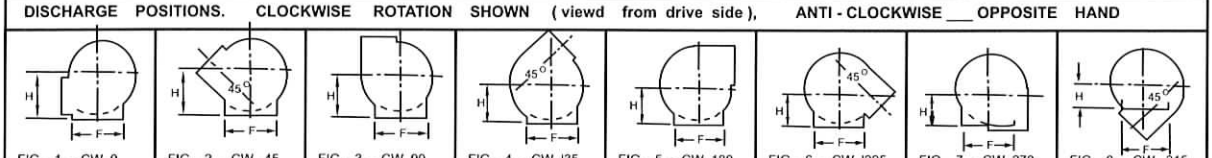
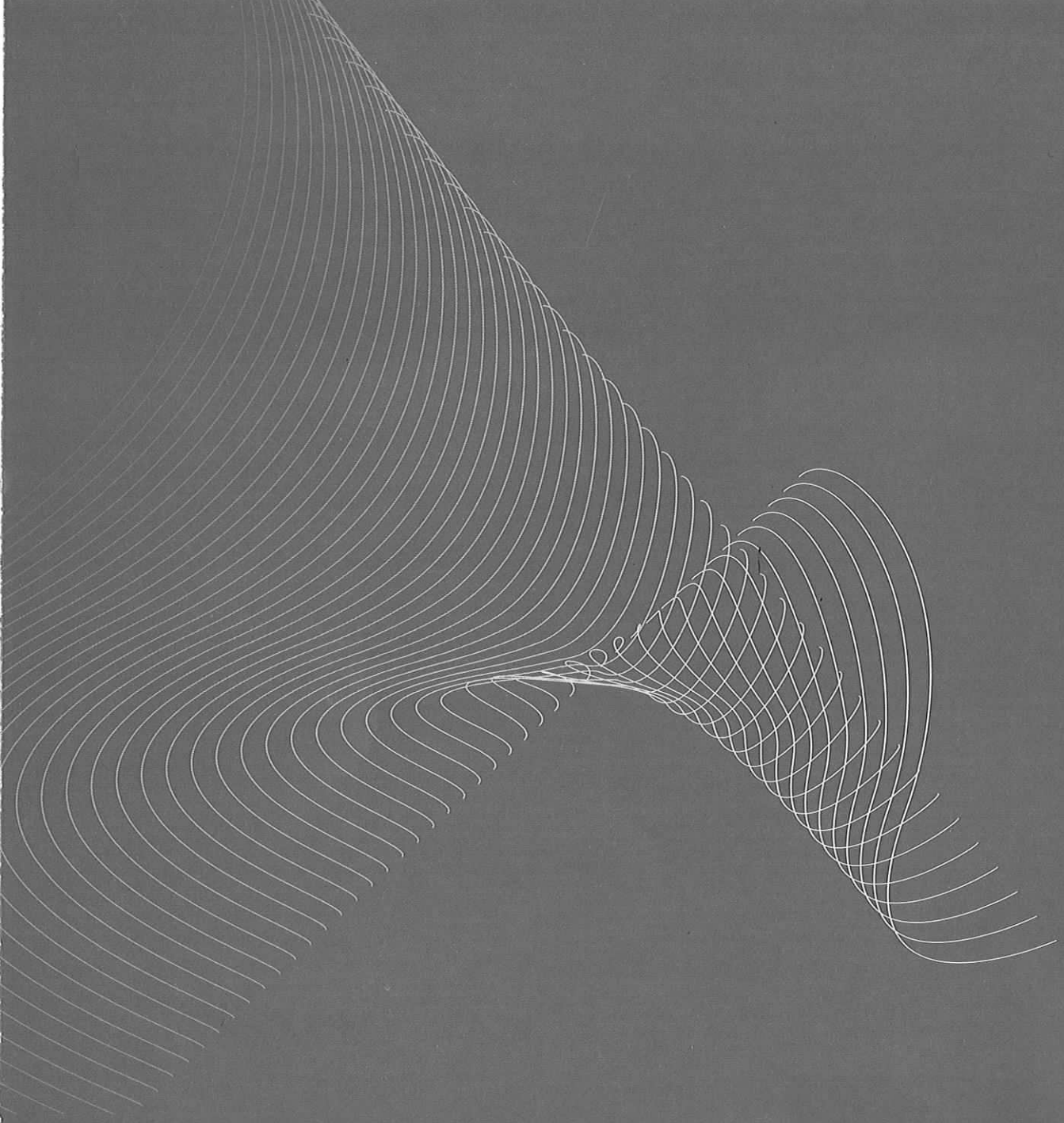


FIG . 1 - CW .0 FIG . 11 - ACW . 0
FIG . 2 - CW . 45 FIG . 12 - ACW . 45
FIG . 3 - CW .90 FIG . 13 - ACW . 90
FIG . 4 - CW .I35 FIG . 14 - ACW . 135
FIG . 5 - CW .180 FIG . 15 - ACW .180
FIG . 6 - CW .I225 FIG . 16 - ACW . 225
FIG . 7 - CW .270 FIG . 17 - ACW . 270
FIG . 8 - CW . 315 FIG . 18 - ACW . 315



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