

Technical Data & Performance Tables

Industrial Exhausters

.....Type IRO & IRT

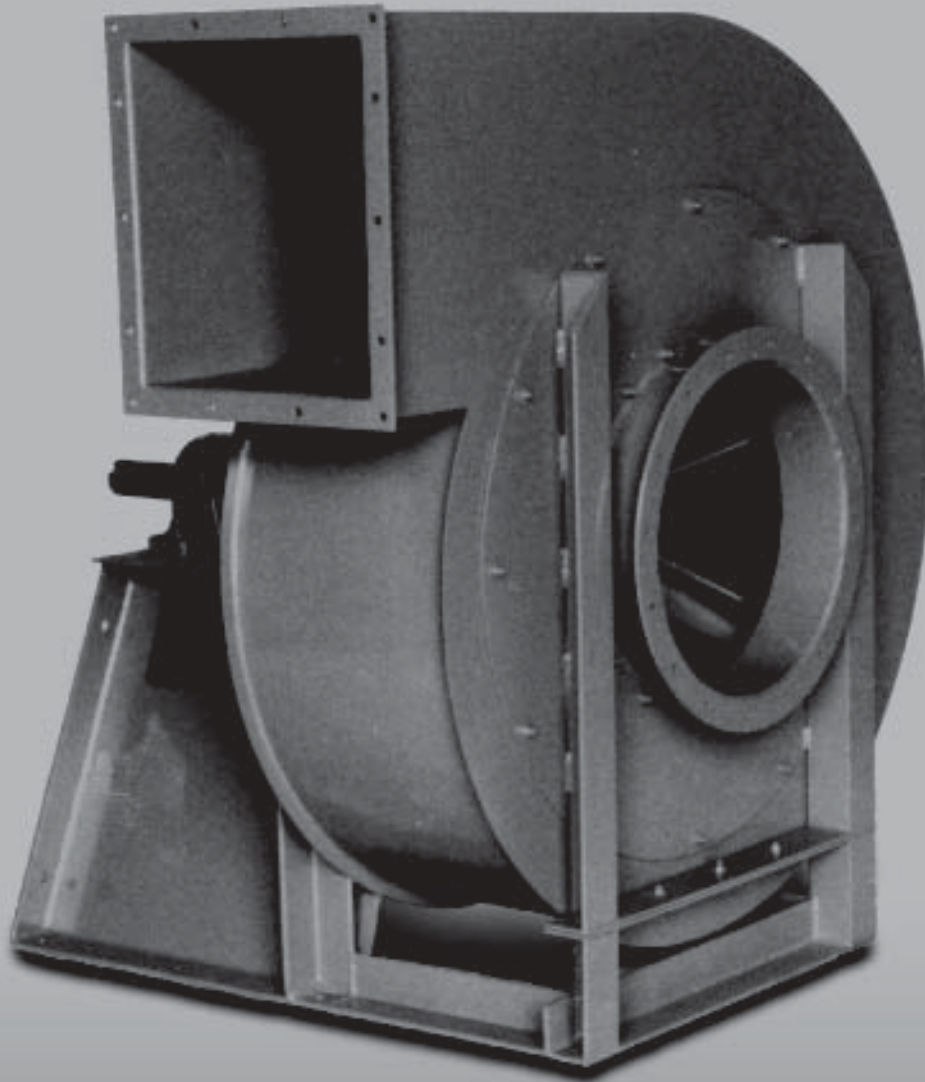


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SELECTION PROCEDURE

The performance tables shown in this catalog may be used to select a fan for your specific application. When selecting a fan be sure to keep the following parameters in mind to ensure the correct fan selection.

- A) All ratings are based on standard air, defined as follows: air temperature is 70 F, 50% RH, 29.92" HG, and 0.075 lb./cu.ft. density. For SI units as follows: 21C, 50% RH, 101.3 kPa and 1.2 kg/m cu.
- B) All tests on which the performance tables are based were conducted with open inlets and ducted outlets. None of the tests account for any losses caused by VIV's, outlet dampers, inlet screens, v-belt drives, or unusual duct configurations.

Fan characteristics are such that volumetric flow rate is unaffected by gas density but the power and pressure vary directly with changes in gas density. Therefore, the selection process will require that rating tables are entered with actual volumetric flow rate (*ACFM*) and a corrected fan static pressure. The corresponding equation for the corrected fan static pressure (*Pe*) is as follows:

$$Pe = Pa (0.075 / Da)$$

Pe = Corrected Fan Static Pressure

Pa = Actual Fan Static Pressure @ *Da*

Da = Actual Density, lb./cu. ft.

By adhering to the following procedure, all the factors necessary to ensure the proper selection of the fan can be easily met. The desired performance should be easy to obtain with a high degree of accuracy.

- 1) Determine the actual amount of air flow (*ACFM*) that is required for the system conditions. The elevation and temperature of the air as well as any other airstream variable (*humidity, molecular weight, negative inlet pressure, etc.*) that will have a direct influence on the density must be known at this point.
 - 2) Determine the system resistance due to duct work and all other system components. This should be given in inches of water. Now you have the static pressure component for proper selection of the fan.
 - 3) To make a fan selection for a density other than 0.075 lb./cu. ft. (*1.2 kg/m cu.*), a correction must be made before and after the selection as follows:
 - a) Compute actual fan inlet air density correction (*refer to table for temperature and elevation corrections*).
 - b) Take the actual static pressure and divide it by the density correction factor to obtain the equivalent fan static pressure at standard density (*0.075*).
- Note: ACFM does not change with density.**
- 4) At this point you are ready to make the fan selection. It is necessary to use the corrected fan static pressure (*Pe*) as the initial guide to the fan operating point. When this point is determined there may be several fans that can give you the desired performance. At this time you must determine what criteria is most important — low fan cost, low operating cost, low sound level, duct design velocity, space limitations, etc.
 - 5) Now with the fan selected, we must consider all losses due to fan accessories.
 - a) VIV's and outlet dampers cause losses estimated by figures A and B.
 - b) Inlet boxes and silencers are other items that cause losses that must be accounted for.
 - 6) Unusual inlet and outlet conditions cause an adverse affect on the fan. AMCA publication #201 contains these corrections. These must also be added to static pressure and are known as System Effect Factors (*SEF*).
 - 7) Now you can add all accessory losses and SEF losses to the system fan static pressure (*Pe*) at standard density to obtain the equivalent selection fan static pressure. Then re-enter the selection tables for the chosen fan size with the equivalent selection fan static pressure (*SP*) and the required ACFM.
 - 8) Determine the fan speed at the corresponding selection point based on SP and ACFM.
 - 9) Read the fan BHP at the selection point.
 - 10) Add approximately 3% to BHP for v-belt drive loss (*see figure C*). Now the total BHP is known at 0.075 lb./cu. ft. density. Then take this number and multiply it by the density correction factor to show actual horsepower at operating conditions.

Variable Inlet Vanes

Reductions up to approximately 30% of wide open (*free air*) flow are possible with inlet vanes. As an inlet vane closes it imparts a spin on the air as it enters the fan inlet in the direction of the wheel rotation. This pre-spin of the air helps to maintain the efficiency of the fan at the turn down conditions. To compensate for this slight loss, you must increase the RPM of the fan and BHP. This correction is shown as pressure loss on the adjacent chart.

Outlet Damper

Due to resistance in air flow caused by a wide open position on the outlet damper, a correction must be made to obtain required performance. Outlet damper losses must be added to the fan static pressure before entering the performance tables. This value is based off of outlet velocity and may be obtained from the adjacent chart.

V-Belt Drive Losses

Standard v-belt drives cause a loss of motor horsepower in fans. As a result there must be a factor added to the final horsepower to compensate for the losses. The losses tend to be higher as the fan speed goes up. The lower the horsepower the higher the percentage of losses also. The typical drive loss is between 3-8% of fan shaft HP. See adjacent chart.

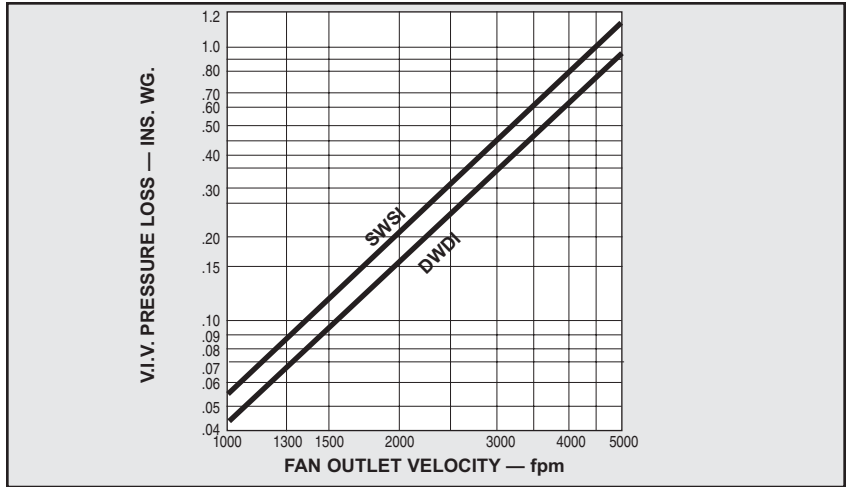


Figure A; V.I.V. Losses in Full Open Position

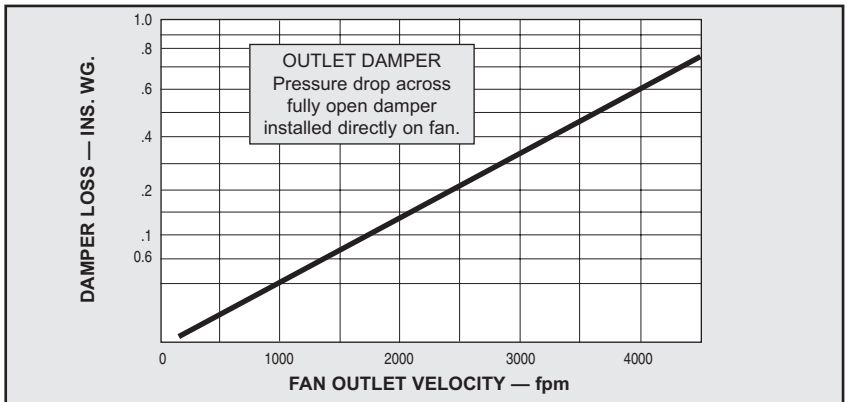


Figure B; Outlet Damper Losses in Full Open Position

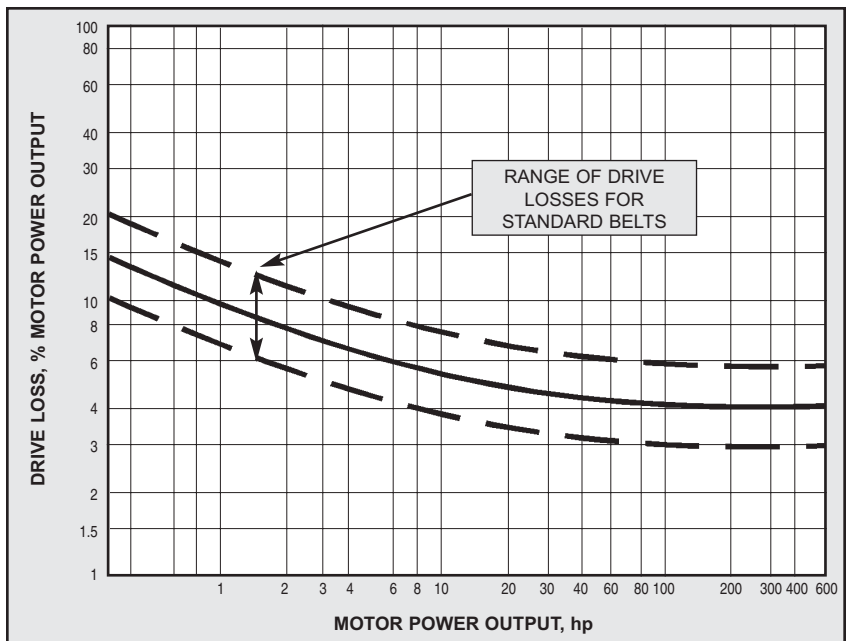


Figure C; Drive Losses

CORRECTION FACTOR TABLE

Altitude & Temperature

AIR TEMP IN °F	ALTITUDE (ft. above sea level)																
	0	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	7000	8000	9000	10000
	BAROMETRIC PRESSURE IN INCHES HG																
	29.92	29.38	28.86	28.33	27.82	27.31	26.81	26.32	25.84	25.36	24.89	24.43	23.98	23.09	22.12	21.38	20.57
70	1.000	.981	.965	.947	.930	.913	.896	.880	.864	.848	.832	.817	.799	.774	.739	.715	.687
100	.946	.928	.913	.896	.880	.864	.848	.832	.817	.802	.787	.773	.756	.732	.699	.676	.650
125	.906	.889	.874	.858	.843	.827	.812	.797	.783	.768	.754	.740	.724	.701	.670	.648	.622
150	.869	.852	.839	.823	.808	.793	.779	.765	.751	.737	.723	.710	.694	.673	.642	.621	.597
175	.835	.819	.806	.791	.777	.762	.748	.735	.721	.708	.695	.682	.667	.646	.617	.597	.574
200	.803	.788	.775	.760	.747	.733	.719	.707	.694	.681	.668	.656	.642	.622	.593	.574	.552
225	.773	.758	.746	.732	.719	.706	.693	.680	.668	.656	.643	.632	.618	.598	.571	.553	.531
250	.747	.733	.721	.707	.695	.682	.669	.657	.645	.634	.622	.610	.597	.578	.552	.534	.513
275	.721	.707	.696	.683	.671	.658	.646	.634	.623	.611	.600	.589	.576	.558	.533	.516	.495
300	.697	.684	.673	.660	.648	.636	.625	.613	.602	.591	.580	.569	.557	.539	.515	.498	.479
325	.675	.662	.651	.639	.628	.616	.605	.594	.583	.572	.562	.551	.539	.522	.499	.483	.464
350	.654	.642	.631	.619	.608	.597	.586	.576	.565	.555	.544	.534	.523	.506	.483	.468	.449
375	.634	.622	.612	.600	.590	.579	.568	.558	.548	.538	.527	.518	.507	.491	.469	.453	.436
400	.616	.604	.594	.583	.573	.562	.552	.542	.532	.522	.513	.503	.492	.477	.455	.440	.423
425	.598	.587	.577	.566	.556	.546	.536	.526	.517	.507	.498	.489	.478	.463	.442	.428	.411
450	.582	.571	.562	.551	.541	.531	.521	.512	.503	.494	.484	.475	.465	.450	.430	.416	.400
475	.567	.556	.547	.537	.527	.518	.508	.499	.490	.481	.472	.463	.453	.438	.419	.405	.390
500	.552	.542	.533	.523	.513	.504	.495	.486	.477	.468	.459	.451	.441	.427	.408	.395	.380
525	.538	.528	.519	.509	.500	.491	.482	.473	.465	.456	.448	.440	.430	.416	.398	.385	.370
550	.525	.515	.507	.497	.488	.479	.470	.462	.454	.445	.437	.429	.419	.406	.388	.375	.361
575	.512	.502	.494	.485	.476	.467	.459	.451	.442	.434	.426	.418	.409	.396	.378	.366	.352
600	.500	.491	.483	.474	.465	.457	.448	.440	.432	.424	.416	.409	.400	.387	.369	.357	.343
625	.488	.479	.471	.462	.454	.446	.437	.429	.422	.414	.406	.397	.390	.378	.361	.349	.335
650	.477	.468	.460	.452	.444	.436	.427	.420	.412	.404	.397	.390	.381	.369	.353	.341	.328
675	.467	.458	.451	.442	.434	.426	.418	.411	.403	.396	.389	.382	.373	.361	.345	.334	.321
700	.457	.448	.441	.433	.425	.417	.409	.402	.395	.388	.380	.373	.365	.354	.338	.327	.314
725	.447	.439	.431	.423	.416	.408	.401	.393	.386	.379	.372	.365	.357	.346	.330	.320	.307
750	.438	.430	.423	.415	.407	.400	.392	.385	.378	.371	.364	.358	.350	.339	.323	.313	.301
775	.429	.421	.414	.406	.399	.392	.384	.378	.371	.364	.357	.350	.343	.332	.317	.307	.295
800	.421	.413	.406	.399	.392	.384	.377	.370	.364	.357	.350	.344	.336	.326	.311	.301	.289
825	.412	.404	.398	.390	.383	.376	.369	.363	.356	.349	.343	.337	.329	.319	.304	.295	.283
850	.404	.396	.390	.383	.376	.369	.362	.356	.349	.343	.336	.330	.323	.313	.298	.289	.278
875	.397	.389	.383	.376	.369	.362	.356	.349	.343	.337	.330	.324	.317	.307	.293	.284	.273
900	.389	.382	.375	.368	.362	.355	.349	.342	.336	.330	.324	.318	.311	.301	.287	.278	.267
925	.382	.375	.369	.362	.354	.349	.342	.336	.330	.324	.318	.312	.305	.296	.282	.273	.262
950	.375	.369	.362	.355	.349	.342	.336	.330	.324	.318	.312	.306	.300	.291	.277	.268	.258
975	.369	.361	.356	.349	.343	.337	.331	.325	.319	.313	.307	.301	.295	.286	.273	.264	.254
1000	.363	.356	.350	.344	.338	.331	.325	.319	.314	.308	.302	.297	.290	.281	.268	.260	.249
1025	.357	.350	.345	.338	.332	.327	.320	.314	.308	.303	.297	.292	.285	.276	.264	.255	.245
1050	.351	.344	.339	.332	.326	.320	.314	.309	.303	.298	.292	.287	.280	.272	.259	.251	.241
1075	.345	.338	.333	.327	.321	.315	.310	.304	.298	.293	.287	.282	.276	.267	.255	.247	.237
1100	.339	.333	.327	.321	.315	.310	.304	.298	.293	.287	.282	.277	.271	.263	.251	.243	.233
1125	.334	.328	.322	.316	.311	.305	.299	.294	.289	.283	.278	.273	.267	.259	.247	.239	.229
1150	.329	.323	.317	.312	.306	.300	.295	.290	.284	.279	.274	.269	.263	.255	.243	.235	.226
1175	.324	.318	.313	.307	.301	.296	.290	.285	.280	.275	.270	.265	.259	.251	.239	.232	.223
1200	.319	.313	.308	.302	.297	.291	.286	.281	.276	.271	.265	.261	.255	.247	.236	.228	.219

PRESSURE UNITS COMMONLY USED IN FAN APPLICATIONS

In. WG	Osi	Psi	HG	mm WG	mm HG	Atm
1	0.576	.0360	.0733	25.400	1.863	.00245
1.735	1	0.062	0.127	44.074	3.231	.00425
27.761	16.093	1	2.036	705.13	51.715	.068
13.635	7.857	.491	1	346.33	25.400	.033
.0394	0.023	.00142	.00289	1	.073	.00010
.537	0.309	.0193	.0394	13.365	1	.00132
407.98	235.119	14.696	29.921	.104	760.00	1

SPARK RESISTANCE

Classifications for Spark Resistant Construction

Type A — Construction requires that all parts in contact with the airstream must be a non-ferrous material.

Type B — Construction requires fan to have a non-ferrous wheel and non-ferrous ring through which the shaft passes.

Type C — Construction requires that a shift of the wheel or shaft not permit two ferrous parts to rub together.

For this Standard, non-ferrous material shall be any material with less than 5% iron or any other material with demonstrated ability to be spark resistant.

FAN LAWS

Fan Speed Varies with Size and Density Constant

Volume (V) varies as the speed (S) varies.

Pressure (P) varies as the square of the speed (S) change.

Horsepower (HP) varies as the cube of the speed (S) change.

$$\frac{V_2}{V_1} = \frac{S_2}{S_1}$$

$$\frac{P_2}{P_1} = \left[\frac{S_2}{S_1} \right]^2$$

$$\frac{HP_2}{HP_1} = \left[\frac{S_2}{S_1} \right]^3$$

Fan Size Varies with Speed and Density Constant

Volume (V) varies as the cube of the wheel diameter (D) change.

Pressure (P) varies as the square of the wheel diameter (D) change.

Horsepower (HP) varies as the fifth power of the wheel diameter (D) change.

$$\frac{V_2}{V_1} = \left[\frac{D_2}{D_1} \right]^3$$

$$\frac{P_2}{P_1} = \left[\frac{D_2}{D_1} \right]^2$$

$$\frac{HP_2}{HP_1} = \left[\frac{D_2}{D_1} \right]^5$$

Application of these laws is at user's discretion. The above laws are useful, but they can lead to errors if they are misapplied. The calculated fan must have the same point of rating and characteristic performance curve as the known fan. When in doubt, it is best to reselect the fan rather than attempt to use the fan laws.

MAXIMUM SPEED DE-RATING FOR TEMPERATURE

Temp. (F)	Material of Construction				
	Steel	Corten	304 SS	316 SS	Aluminum
70	1.00	1.00	1.00	1.00	1.00
200	1.00	1.00	.89	.92	.95
300	.98	1.00	.80	.87	
400	.96	1.00	.77	.84	
500	.91	1.00	.74	.80	
600	.88	1.00	.71	.78	
700	.85	1.00	.69	.77	
800	.80	.96	.68	.76	
900	NR	NR	.65	.73	
1000	NR	NR	NR	.72	

WHEEL TYPES

For dust, vapors, air, fumes, granular material & fibrous material

IRO — (*Industrial Radial Open*)

The open type radial bladed paddle wheel design is an ideal selection for material conveying applications due to its heavy duty rugged construction. Airstreams containing heavy dust loading or coarse material are perfectly matched with this type of wheel design.

These wheel designs offer stable airflow performance over most of their pressure range.

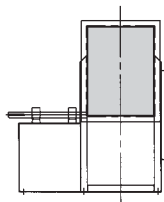
IRW — (*Industrial Radial Wool*)

The backplated radial bladed paddle wheel design is the ideal selection for stringy type material where there is the possibility of material build up in the fan. The design of the backplate causes an even disbursement of material across the fan to help reduce clogging. Conveying long or stringy fibrous material commonly related with the paper industry is the perfect application for this design.

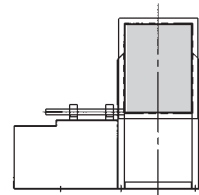
IRT — (*Industrial Radial Tip*)

The radial tipped wheel design is the most efficient selection in the industrial exhauster series of fans. It offers efficiency while maintaining some slight material handling capabilities where there is a light dust loading or slightly abrasive type material in the airstream. The performance is very stable throughout most of the operating range. Excellent selection where energy savings are a premium but material handling characteristics are required.

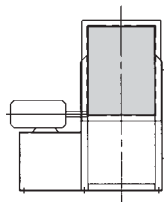
DRIVE ARRANGEMENTS



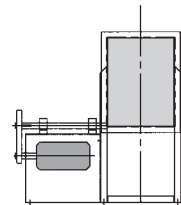
ARR. 1
Types IRO, IRW, IRT are all available in most classes and sizes. For belt drive or direct drive connection. Impeller overhung. Two bearings on base.



ARR. 8
Types IRO, IRW, IRT are available in most classes but are limited to size 191 or larger. For direct drive connection. Arrangement 1 plus extended base for prime mover.

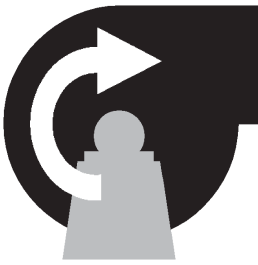


ARR. 4
Type IRT is available in class 15, 30, and 50 up to size 365. For direct drive. Impeller overhung on prime mover shaft. No bearings on fan. Prime mover base mounted or integrally direct connected.

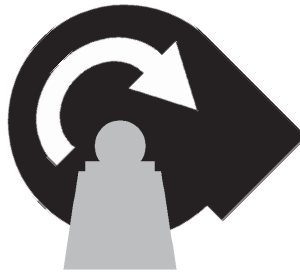


ARR. 9
Types IRO, IRW and IRT are available up to class 30. All sizes are available but limited to motor frame constrictions. For belt drive. The impeller is overhung, two bearings with prime mover outside the base.

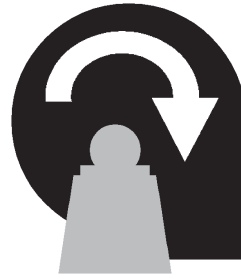
DESIGNATIONS FOR ROTATION & DISCHARGE OF CENTRIFUGAL FANS



Clockwise
90° (Top Horizontal)



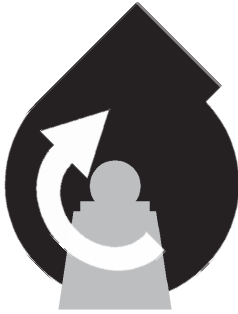
Clockwise
135° (Top Angular Down)



Clockwise
180° (Down Blast)



Clockwise
225° (Bottom Angular Down)



Clockwise
45° (Top Angular Up)



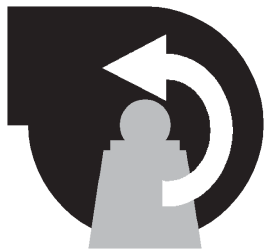
Clockwise
360° (Up Blast)



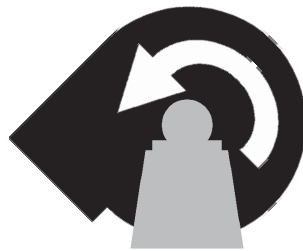
Clockwise
315° (Bottom Angular Up)



Clockwise
270° (Bottom Horizontal)



Counterclockwise
90° (Top Horizontal)



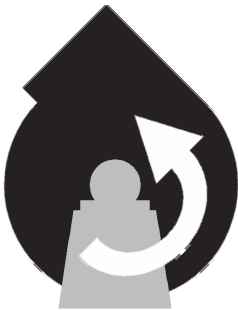
Counterclockwise
135° (Top Angular Down)



Counterclockwise
180° (Down Blast)



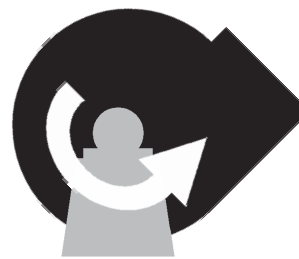
Counterclockwise
225° (Bottom Angular Down)



Counterclockwise
45° (Top Angular Up)



Counterclockwise
360° (Up Blast)



Counterclockwise
315° (Bottom Angular Up)



Counterclockwise
270° (Bottom Horizontal)

Direction of rotation is determined from the side opposite the fan inlet (*typically the drive side*).

On double inlet fans with drives on both sides, drive side is that with the higher powered drive unit.

Direction of discharge is determined in accordance with diagrams above.

MOTOR TORQUE SELECTION

There are many applications which have a large fan moving a high volume of air but at a low static pressure, so a large horsepower motor is not required. In these instances, many times the motor is not large enough to turn the fan wheel and shaft due to high inertia requirements. In these instances one needs to consult with the motor or starter manufacturer to see if the motor is capable of the necessary load inertia. The chart that follows gives quick calculations that can be performed to see if the motor has the necessary start up capabilities.

$$t = \frac{WR^2 \times N^2}{1.62 \times \text{HPm}}$$

t = Start time in seconds.
 WR² = Wheel inertia - lb. ft.²
 N = Fan speed in 1000's of rpm.
 HPm = Motor horsepower.

Start time

- 10 seconds or less — satisfactory.
- 11 to 15 seconds — probably satisfactory.
- 15 to 20 seconds — check with starter and motor manufacturer.
- Over 20 seconds — not recommended.

In order to compare published motor WR² capability with that of the fan on V-belt drive applications, it is necessary to convert the fan WR² to the equivalent WR² referred to the motor shaft by applying the following formula.

$$WR_m^2 = WR_f^2 \times \left[\frac{N_f}{N_m} \right]^2$$

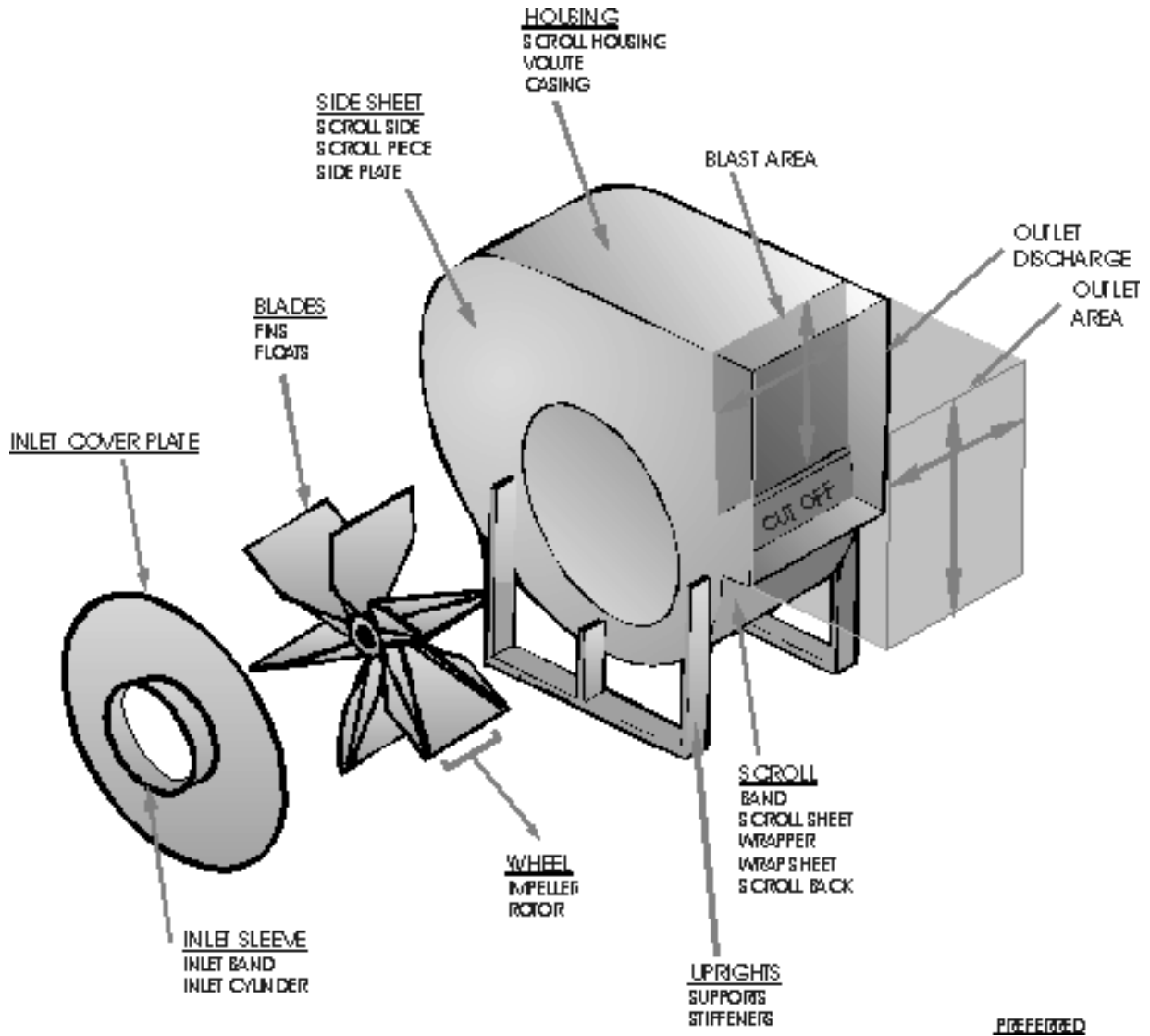
Where WR_m = Equivalent WR² referred to motor shaft.
 WR_f² = Fan WR² at fan speed.
 N_f = Fan speed.
 N_m = Motor speed.

IE WHEEL WR² VALUES

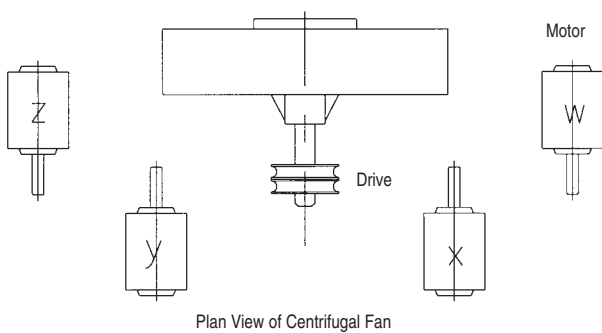
The following chart is a listing of the WR² (lb. ft²) values of the industrial exhauster series. The values can be plugged into the formulas above for calculating the motor capabilities in regards to direct drive as well as belt drive fan units.

Fan Size	IRO/IRS			IRW	IRT		
	Class 15 WR ² (lb. ft ²)	Class 30 WR ² (lb. ft ²)	Class 50 WR ² (lb. ft ²)	Class 30 WR ² (lb. ft ²)	Class 15 WR ² (lb. ft ²)	Class 30 WR ² (lb. ft ²)	Class 50 WR ² (lb. ft ²)
122	1						
156	4						
191	6	9		12	11	11	
226	14	18	18	40	23	23	28
261	26	42	42	65	39	39	60
296	38	61	110	100	82	89	119
330	59	95	145	150	127	140	170
365	90	121	190	230	214	237	299
400	210	402	402		347	385	468
451	280	966	966		601	663	767
505	390	1280	1280		982	1081	1355
575	650	2515	2515		1937	2108	2455
643	1330	3560	3860		3451	3758	5005
712	1790	5245	6700		5352	5803	6930
782	3060	8010	9700		8085	8773	10735
852	3895	9990	14900		11193	13071	15023

FAN TERMINOLOGY



MOTOR POSITIONS



The diagram on the left indicates the standard terms for identifying motor position on the drive side of the fan. The location of the motor is determined by facing the drive side of the fan and designating the position by the letters, W, X, Y and Z. These positions are commonly used with arrangements 1 and 3.

PERFORMANCE DATA

IRO 122

WHEEL DIAMETER 12.25 IN.
 MAX WHEEL SPEED 4670 RPM

STATIC PRESSURE (in. WG)																					
		.5		1		2		3		4		6		8		10		12		15	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
200	772	807	0.03	1110	0.06	1555	0.14	1901	0.24	2194	0.35	2687	0.62	3102	0.92	3468	1.26	3798	1.63	4245	2.24
300	1158	878	0.05	1151	0.09	1574	0.19	1912	0.30	2201	0.42	2690	0.70	3104	1.02	3469	1.38	3800	1.77	4248	2.40
400	1544	977	0.08	1220	0.13	1614	0.24	1939	0.37	2220	0.51	2700	0.81	3110	1.15	3474	1.52	3803	1.93	4250	2.59
500	1931	1095	0.12	1313	0.18	1676	0.31	1983	0.46	2253	0.61	2721	0.94	3125	1.31	3484	1.71	3810	2.13	4255	2.82
600	2317	1225	0.17	1421	0.24	1755	0.39	2043	0.56	2301	0.73	2755	1.10	3149	1.50	3502	1.92	3825	2.37	4265	3.10
700	2703	1363	0.24	1540	0.32	1849	0.49	2120	0.67	2364	0.87	2800	1.28	3184	1.71	3529	2.17	3847	2.65	4282	3.41
800	3089	1507	0.34	1668	0.42	1955	0.61	2209	0.81	2441	1.02	2858	1.47	3229	1.94	3566	2.44	3877	2.95	4305	3.77
900	3475	1657	0.45	1802	0.55	2069	0.75	2308	0.97	2528	1.20	2927	1.68	3285	2.20	3613	2.73	3917	3.29	4337	4.15
1000	3861	1810	0.60	1942	0.70	2190	0.93	2416	1.16	2625	1.41	3006	1.93	3351	2.48	3669	3.05	3965	3.64	4376	4.57
1100	4247	1966	0.77	2086	0.89	2317	1.13	2531	1.38	2730	1.64	3094	2.20	3426	2.78	3734	3.40	4022	4.03	4424	5.01
1200	4633	2124	0.98	2234	1.10	2449	1.36	2652	1.63	2841	1.92	3190	2.50	3510	3.12	3807	3.77	4087	4.44	4479	5.48
1300	5019	2284	1.23	2385	1.35	2586	1.63	2778	1.92	2958	2.22	3293	2.85	3601	3.50	3888	4.18	4159	4.89	4541	5.99
1400	5405	2445	1.51	2538	1.65	2726	1.94	2907	2.25	3080	2.57	3402	3.23	3698	3.92	3976	4.63	4239	5.38	4611	6.53
1500	5792	2607	1.84	2693	1.98	2869	2.29	3041	2.62	3206	2.96	3515	3.65	3801	4.37	4070	5.13	4326	5.90	4687	7.11
1600	6178	2770	2.21	2850	2.36	3015	2.69	3178	3.03	3335	3.39	3633	4.12	3909	4.88	4170	5.67	4418	6.48		

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRO 156

WHEEL DIAMETER 15.625 IN.
 MAX WHEEL SPEED 3670 RPM

STATIC PRESSURE (in. WG)																					
		0.5		1		2		3		4		6		8		10		12		15	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
800	1882	851	0.18	1023	0.28	1309	0.49	1551	0.73	1764	0.98	2132	1.52	2449	2.11	2731	2.75	2987	3.44	3336	4.56
900	2118	912	0.23	1073	0.34	1345	0.57	1578	0.82	1785	1.09	2146	1.67	2459	2.29	2738	2.96	2993	3.67	3340	4.82
1000	2353	976	0.29	1127	0.41	1386	0.66	1610	0.93	1811	1.22	2164	1.83	2472	2.49	2748	3.18	3001	3.92	3346	5.11
1100	2588	1042	0.36	1184	0.49	1431	0.75	1647	1.05	1841	1.35	2186	2.00	2489	2.70	2761	3.43	3011	4.20	3353	5.42
1200	2824	1111	0.45	1244	0.58	1480	0.87	1687	1.17	1875	1.50	2211	2.19	2508	2.92	2777	3.69	3024	4.49	3363	5.76
1400	3294	1252	0.66	1371	0.81	1586	1.13	1778	1.47	1954	1.83	2272	2.60	2557	3.41	2817	4.25	3058	5.13	3390	6.50
1600	3765	1399	0.93	1504	1.10	1701	1.46	1880	1.84	2045	2.23	2346	3.07	2618	3.95	2869	4.88	3102	5.83	3426	7.31
1800	4235	1549	1.28	1643	1.46	1823	1.86	1990	2.27	2146	2.70	2431	3.61	2690	4.56	2931	5.56	3156	6.59	3471	8.20
2000	4706	1702	1.71	1786	1.91	1951	2.34	2108	2.79	2254	3.26	2524	4.23	2772	5.25	3003	6.33	3220	7.44	3525	9.15
2200	5176	1857	2.23	1932	2.44	2084	2.91	2230	3.40	2369	3.90	2626	4.94	2862	6.04	3084	7.18	3293	8.36	3588	10.20
2400	5647	2012	2.85	2081	3.08	2221	3.58	2358	4.11	2489	4.65	2733	5.76	2960	6.93	3173	8.13	3374	9.39	3659	11.33
2600	6118	2169	3.59	2232	3.83	2361	4.36	2489	4.92	2613	5.50	2846	6.69	3063	7.92	3268	9.20	3462	10.52		
2800	6588	2327	4.44	2385	4.69	2505	5.25	2624	5.85	2741	6.47	2964	7.73	3172	9.04	3369	10.39	3556	11.77		
3000	7059	2485	5.42	2539	5.69	2650	6.28	2762	6.91	2873	7.56	3085	8.90	3285	10.29	3475	11.70	3656	13.16		

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 191

WHEEL DIAMETER 19.125 IN.

MAX WHEEL SPEED Class 15 - 3420 RPM; Class 30 - 3900 RPM

STATIC PRESSURE (in. WG)																					
		1		2		3		4		5		10		15		20		25		30	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	2516	952	0.65	1157	1.02	1335	1.43	1496	1.85	1643	2.30	2252	4.74	2737	7.53	3152	10.67	3519	14.11	3852	17.84
1800	2830	1017	0.82	1210	1.23	1379	1.66	1532	2.13	1674	2.61	2269	5.23	2748	8.17	3159	11.41	3524	14.96	3856	18.77
2000	3145	1086	1.03	1267	1.47	1427	1.94	1574	2.43	1711	2.95	2290	5.75	2762	8.85	3169	12.23	3531	15.89	3862	19.81
2200	3459	1157	1.28	1327	1.75	1480	2.25	1621	2.78	1752	3.32	2315	6.31	2778	9.59	3181	13.12	3541	16.90	3869	20.94
2400	3774	1230	1.56	1391	2.07	1537	2.60	1672	3.16	1798	3.74	2344	6.91	2799	10.37	3196	14.06	3552	17.99	3878	22.16
2600	4088	1305	1.89	1457	2.44	1596	3.01	1726	3.60	1847	4.21	2377	7.55	2823	11.19	3214	15.06	3567	19.15	3889	23.46
2800	4403	1382	2.28	1525	2.85	1659	3.46	1783	4.08	1900	4.73	2414	8.23	2850	12.06	3235	16.11	3583	20.37	3903	24.83
3000	4717	1461	2.71	1596	3.32	1723	3.96	1843	4.62	1956	5.30	2454	8.97	2880	12.98	3259	17.22	3603	21.66		
3200	5031	1540	3.20	1668	3.85	1790	4.52	1905	5.22	2014	5.93	2498	9.76	2914	13.95	3286	18.37	3625	22.99		
3400	5346	1621	3.76	1742	4.44	1858	5.15	1969	5.88	2074	6.62	2544	10.62	2951	14.97	3316	19.58	3650	24.39		
3800	5975	1785	5.07	1893	5.81	2000	6.59	2102	7.39	2201	8.21	2644	12.53	3032	17.21	3384	22.18	3707	27.36		
4200	6604	1951	6.68	2049	7.47	2146	8.32	2242	9.19	2334	10.08	2754	14.74	3124	19.74	3462	25.05	3774	30.59		
4600	7233	2120	8.61	2208	9.46	2298	10.37	2386	11.31	2472	12.27	2870	17.27	3225	22.60	3549	28.23	3851	34.11		
5000	7862	2289	10.90	2371	11.80	2453	12.77	2535	13.77	2616	14.80	2993	20.16	3332	25.82	3644	31.77				

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 191

WHEEL DIAMETER 19.125 IN.

MAX WHEEL SPEED Class 15 - 3420 RPM; Class 30 - 3900 RPM

STATIC PRESSURE (in. WG)																					
		1		2		3		4		5		10		15		20		25		30	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	1572	764	0.25	1010	0.48																
1200	1887	813	0.32	1039	0.58	1235	0.86	1410	1.15												
1400	2201	870	0.41	1078	0.70	1261	1.01	1427	1.33	1581	1.67										
1600	2516	931	0.53	1125	0.83	1296	1.17	1453	1.53	1599	1.90										
1800	2830	996	0.66	1178	1.00	1339	1.36	1488	1.75	1626	2.16										
2000	3145	1065	0.83	1236	1.19	1388	1.58	1529	1.99	1661	2.43	2237	4.77								
2500	3931	1245	1.38	1394	1.81	1528	2.26	1654	2.74	1771	3.24	2293	5.98	2743	8.94						
3000	4717	1435	2.16	1566	2.67	1687	3.19	1799	3.73	1906	4.29	2383	7.37	2800	10.74	3178	14.28	3526	17.95		
3500	5503	1630	3.21	1748	3.80	1857	4.40	1959	5.01	2057	5.64	2496	9.04	2884	12.77	3238	16.72	3568	20.82	3877	25.04
4000	6289	1829	4.58	1936	5.26	2035	5.94	2129	6.63	2220	7.33	2627	11.04	2989	15.10	3322	19.43	3633	23.93		
4500	7075	2032	6.32	2129	7.09	2220	7.85	2307	8.62	2390	9.39	2771	13.43	3111	17.81	3425	22.47	3719	27.35		
5000	7862	2236	8.47	2325	9.32	2409	10.17	2490	11.02	2568	11.87	2925	16.26	3246	20.95	3543	25.93	3822	31.15		
5500	8648	2442	11.08	2524	12.02	2603	12.95	2678	13.88	2751	14.82	3087	19.57	3391	24.58	3673	29.87				

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 226

WHEEL DIAMETER 22.625 IN.

MAX WHEEL SPEED Class 15 - 2900 RPM; Class 30 - 3300 RPM; Class 50 - 3800 RPM

STATIC PRESSURE (in. WG)																					
		1		2		5		10		15		20		25		30		35		40	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	1798	681	0.49	891	0.88	1346	2.14	1875	4.52	2287	7.22	2636	10.20	2945	13.44	3224	16.93	3481	20.64	3721	24.59
2000	2247	741	0.70	931	1.16	1369	2.67	1891	5.42	2298	8.44	2645	11.71	2951	15.22	3229	18.95	3486	22.89	3725	27.04
2400	2697	810	0.98	982	1.52	1398	3.26	1910	6.40	2313	9.78	2657	13.39	2961	17.20	3238	21.22	3493	25.43	3730	29.83
2800	3146	885	1.34	1043	1.95	1433	3.92	1934	7.47	2332	11.23	2673	15.20	2975	19.35	3249	23.69	3503	28.21	3739	32.90
3200	3596	963	1.79	1111	2.47	1476	4.68	1961	8.63	2354	12.79	2691	17.13	2991	21.65	3264	26.34	3515	31.18	3751	36.19
3600	4045	1044	2.36	1183	3.11	1526	5.53	1994	9.88	2380	14.45	2713	19.18	3010	24.08	3281	29.13	3531	34.34	3765	39.69
4000	4494	1127	3.05	1259	3.87	1583	6.51	2031	11.24	2408	16.21	2737	21.35	3032	26.65	3300	32.08	3549	37.66	3781	43.36
4400	4944	1212	3.89	1337	4.76	1645	7.61	2073	12.73	2441	18.10	2765	23.65	3056	29.34	3322	35.17	3569	41.13	3800	47.21
4800	5393	1298	4.87	1418	5.81	1711	8.87	2120	14.36	2477	20.13	2795	26.08	3083	32.18	3346	38.40	3591	44.75		
5200	5843	1386	6.03	1499	7.03	1781	10.30	2173	16.14	2518	22.30	2829	28.65	3112	35.16	3373	41.79	3615	48.55		
5600	6292	1474	7.38	1582	8.42	1854	11.90	2230	18.11	2563	24.64	2866	31.39	3144	38.30	3402	45.34	3642	52.50		
6000	6742	1564	8.92	1667	10.01	1929	13.69	2291	20.26	2612	27.16	2907	34.30	3180	41.61	3433	49.06	3670	56.62		
6400	7191	1654	10.68	1752	11.82	2005	15.68	2355	22.61	2666	29.88	2952	37.40	3218	45.10	3467	52.95	3702	60.92		
6800	7640	1746	12.67	1838	13.85	2083	17.90	2422	25.18	2722	32.82	3000	40.71	3260	48.81	3505	57.05	3735	65.43		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 226

WHEEL DIAMETER 22.625 IN.

MAX WHEEL SPEED Class 15 - 2900 RPM; Class 30 - 3300 RPM; Class 50 - 3800 RPM

STATIC PRESSURE (in. WG)																					
		1		2		5		10		15		20		25		30		35		40	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	1798	675	0.42	870	0.77																
2000	2247	742	0.60	917	1.00	1338	2.38														
2400	2697	818	0.84	976	1.29	1364	2.86														
2800	3146	900	1.16	1045	1.66	1404	3.40	1891	6.68												
3200	3596	986	1.56	1119	2.12	1454	4.01	1914	7.62												
3600	4045	1075	2.06	1199	2.68	1513	4.73	1948	8.63	2324	12.86										
4000	4494	1167	2.67	1281	3.35	1577	5.55	1990	9.73	2350	14.29	2676	19.07								
4500	5056	1283	3.60	1389	4.37	1665	6.77	2053	11.27	2394	16.21	2705	21.42	2993	26.82						
5000	5618	1402	4.74	1500	5.59	1758	8.21	2126	13.02	2449	18.32	2746	23.93	3023	29.75	3282	35.74	3528	41.87		
5500	6180	1523	6.12	1614	7.05	1856	9.89	2205	15.02	2513	20.65	2797	26.63	3062	32.86	3312	39.27	3550	45.84	3777	52.53
6000	6742	1644	7.75	1729	8.77	1958	11.84	2290	17.30	2585	23.24	2856	29.57	3111	36.18	3352	43.01	3582	50.00	3803	57.13
7000	7865	1891	11.87	1966	13.06	2171	16.63	2473	22.77	2744	29.33	2995	36.30	3231	43.61	3456	51.19	3670	58.98		
8000	8989	2140	17.30	2207	18.66	2393	22.74	2670	29.62	2921	36.83	3155	44.42	3375	52.36	3585	60.62	3786	69.13		
9000	10112	2391	24.23	2452	25.76	2621	30.35	2877	38.02	3111	45.91	3330	54.13	3537	62.70	3734	71.58				

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 261

WHEEL DIAMETER 26.125 IN.

MAX WHEEL SPEED Class 15 - 2500 RPM; Class 30 - 2850 RPM; Class 50 - 3500 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1800	1519	755	0.96	1155	2.46	1618	5.35	1977	8.70	2280	12.47	2548	16.61	2791	21.10	3014	25.91	3222	31.03	3417	36.44
2200	1857	775	1.21	1168	2.94	1626	6.17	1982	9.82	2284	13.83	2551	18.20	2793	22.88	3016	27.88	3223	33.16	3418	38.72
2600	2194	801	1.50	1183	3.47	1635	7.07	1989	11.04	2289	15.35	2555	19.98	2796	24.91	3018	30.12	3225	35.61	3420	41.36
3000	2532	833	1.83	1200	4.04	1648	8.03	1998	12.36	2297	16.99	2561	21.91	2801	27.12	3022	32.60	3229	38.33	3423	44.31
3500	2954	879	2.33	1227	4.83	1665	9.32	2012	14.12	2308	19.19	2571	24.52	2809	30.11	3029	35.95	3235	42.03	3428	48.34
4000	3376	932	2.93	1259	5.72	1686	10.72	2029	16.00	2322	21.53	2583	27.31	2820	33.33	3039	39.56	3243	46.02	3436	52.70
4500	3797	989	3.65	1296	6.71	1710	12.21	2048	18.00	2339	24.02	2597	30.26	2833	36.72	3050	43.39	3253	50.27	3445	57.33
5000	4219	1049	4.50	1339	7.84	1738	13.83	2070	20.12	2357	26.64	2614	33.37	2847	40.29	3064	47.42	3266	54.73	3456	62.22
5500	4641	1111	5.51	1387	9.12	1770	15.59	2094	22.39	2378	29.41	2632	36.63	2864	44.04	3079	51.63	3280	59.40	3469	67.34
6000	5063	1175	6.68	1438	10.55	1805	17.50	2121	24.79	2401	32.33	2652	40.05	2882	47.96	3096	56.03	3295	64.27	3483	72.67
6500	5485	1241	8.04	1493	12.17	1845	19.58	2152	27.36	2426	35.40	2674	43.63	2902	52.04	3114	60.61	3312	69.33	3499	78.22
7000	5907	1307	9.59	1550	13.98	1888	21.84	2185	30.11	2454	38.65	2698	47.39	2924	56.30	3134	65.37	3331	74.60		
7500	6329	1375	11.35	1609	16.00	1934	24.31	2222	33.06	2484	42.09	2725	51.34	2948	60.76	3155	70.33	3351	80.06		
8000	6751	1443	13.35	1670	18.25	1984	27.01	2262	36.22	2518	45.73	2754	55.48	2973	65.41	3179	75.50	3373	85.73		
8500	7173	1513	15.60	1733	20.74	2036	29.94	2305	39.60	2554	49.61	2785	59.85	3001	70.28	3204	80.86	3396	91.61		
9000	7595	1583	18.11	1796	23.48	2090	33.13	2351	43.25	2593	53.72	2819	64.45	3031	75.37	3231	86.47	3421	97.71		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 261

WHEEL DIAMETER 26.125 IN.

MAX WHEEL SPEED Class 15 - 2500 RPM; Class 30 - 2850 RPM; Class 50 - 3500 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	1688	746	0.95																		
2500	2110	780	1.23	1154	2.99																
3000	2532	825	1.57	1171	3.57																
3500	2954	878	1.99	1200	4.21																
4000	3376	936	2.51	1237	4.93	1647	9.52														
5000	4219	1065	3.90	1331	6.70	1700	12.04	2020	17.85	2309	23.94										
6000	5063	1203	5.82	1442	9.02	1778	15.03	2074	21.62	2343	28.57	2592	35.76								
7000	5907	1348	8.39	1565	12.02	1874	18.65	2148	25.94	2399	33.67	2634	41.71	2855	49.98	3064	58.44				
8000	6751	1498	11.69	1696	15.79	1983	23.06	2238	30.99	2474	39.42	2694	48.24	2903	57.34	3102	66.66	3293	76.17	3476	85.84
9000	7595	1651	15.83	1833	20.42	2101	28.37	2340	36.91	2562	46.00	2770	55.53	2968	65.39	3157	75.52	3339	85.88		
10000	8439	1807	20.92	1975	26.01	2226	34.69	2452	43.86	2661	53.57	2858	63.74	3046	74.31	3226	85.18	3400	96.33		
11000	9283	1964	27.06	2121	32.66	2356	42.09	2570	51.93	2769	62.26	2957	73.05	3136	84.28	3307	95.84	3473	107.70		
12000	10127	2123	34.35	2270	40.46	2492	50.69	2694	61.22	2884	72.19	3063	83.60	3234	95.44	3398	107.70				

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 296

WHEEL DIAMETER 29.625 IN.

MAX WHEEL SPEED Class 15 - 2200 RPM; Class 30 - 2515 RPM; Class 50 - 3100 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	1296	656	1.1	1014	2.8	1424	6.3	1741	10.4	2010	15.1	2246	20.3	2460	25.9	2658	32.0	2841	38.5	3013	45.3
2500	1620	671	1.4	1022	3.4	1429	7.3	1745	11.7	2012	16.6	2248	22.1	2461	27.9	2658	34.2	2841	40.8	3014	47.9
3000	1944	691	1.7	1034	4.0	1436	8.3	1749	13.1	2015	18.4	2250	24.1	2464	30.3	2660	36.8	2843	43.7	3015	50.9
3500	2268	714	2.1	1047	4.7	1445	9.5	1756	14.7	2020	20.4	2255	26.4	2467	32.9	2663	39.7	2845	46.8	3016	54.3
4000	2592	743	2.5	1063	5.4	1456	10.7	1765	16.4	2027	22.5	2260	28.9	2471	35.7	2666	42.8	2848	50.3	3019	58.1
4500	2916	775	3.0	1082	6.2	1469	12.0	1774	18.2	2035	24.7	2267	31.5	2477	38.7	2671	46.2	2853	54.0	3023	62.2
5500	3564	849	4.3	1128	8.0	1498	14.8	1798	22.0	2056	29.4	2284	37.2	2493	45.2	2685	53.6	2865	62.2	3034	71.0
6500	4213	931	5.9	1186	10.3	1536	18.0	1828	26.2	2081	34.6	2307	43.4	2512	52.3	2703	61.6	2881	71.0	3049	80.7
7500	4861	1017	8.1	1253	12.9	1581	21.7	1862	30.8	2110	40.3	2333	50.0	2536	60.0	2725	70.1	2901	80.5	3068	91.1
8500	5509	1107	10.8	1328	16.1	1635	25.8	1904	35.9	2145	46.4	2363	57.2	2563	68.1	2750	79.3	2924	90.6	3089	102.2
9500	6157	1199	14.1	1407	20.0	1696	30.5	1952	41.6	2184	53.1	2397	64.9	2595	76.8	2778	89.0	2951	101.3		
10500	6805	1293	18.1	1491	24.5	1764	35.9	2007	48.0	2231	60.4	2437	73.2	2630	86.2	2810	99.3	2981	112.7		
11500	7453	1389	22.9	1577	29.8	1838	42.1	2069	55.1	2283	68.5	2482	82.2	2670	96.2	2847	110.4	3014	124.7		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 296

WHEEL DIAMETER 29.625 IN.

MAX WHEEL SPEED Class 15 - 2200 RPM; Class 30 - 2515 RPM; Class 50 - 3100 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	1620	655	1.2																		
3000	1944	676	1.5																		
3500	2268	704	1.8	1023	4.2																
4000	2592	737	2.1	1038	4.8																
5000	3240	814	3.1	1083	6.1	1448	11.9														
6000	3889	900	4.3	1144	7.8	1481	14.4	1771	21.5												
7000	4537	992	6.0	1215	9.8	1527	17.1	1800	25.0	2047	33.4										
8000	5185	1089	8.1	1295	12.4	1586	20.3	1842	29.0	2076	38.1	2292	47.6	2496	57.4						
9000	5833	1189	10.8	1380	15.5	1653	24.0	1894	33.4	2116	43.3	2323	53.6	2517	64.3	2702	75.1				
10000	6481	1291	14.0	1469	19.1	1726	28.3	1955	38.3	2166	49.0	2363	60.1	2549	71.6	2727	83.3	2897	95.3	3060	107.5
11000	7129	1395	17.8	1562	23.5	1805	33.3	2023	43.9	2223	55.2	2411	67.1	2590	79.4	2761	91.9	2925	104.7	3082	117.8
12000	7777	1501	22.4	1658	28.5	1889	39.0	2096	50.3	2287	62.2	2468	74.8	2639	87.8	2803	101.1	2961	114.8		
13000	8425	1608	27.7	1756	34.3	1975	45.6	2173	57.5	2357	70.0	2530	83.2	2695	96.9	2853	111.0	3005	125.4		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 330

WHEEL DIAMETER 33 IN.

MAX WHEEL SPEED Class 15 - 2020 RPM; Class 30 - 2250 RPM; Class 50 - 2770 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1563	608	1.6	923	4.2	1291	9.2	1577	15.0	1817	21.4	2030	28.5	2222	36.0	2399	44.1	2564	52.6	2718	61.5
3500	1824	624	2.0	931	4.7	1296	10.2	1580	16.4	1821	23.2	2033	30.6	2225	38.5	2402	46.8	2566	55.7	2721	64.9
4000	2084	642	2.3	941	5.4	1302	11.2	1584	17.8	1824	25.1	2036	32.8	2228	41.1	2405	49.8	2569	58.9	2723	68.5
5000	2606	686	3.3	969	6.8	1318	13.5	1596	20.9	1833	29.0	2044	37.6	2235	46.6	2411	56.1	2575	66.0	2729	76.3
6000	3127	736	4.4	1003	8.6	1340	16.1	1611	24.4	1846	33.2	2054	42.6	2244	52.5	2419	62.8	2582	73.5	2736	84.6
7000	3648	791	5.8	1044	10.7	1368	19.1	1632	28.2	1862	37.8	2068	48.1	2256	58.8	2429	69.9	2592	81.4	2745	93.3
8000	4169	851	7.6	1089	13.1	1401	22.5	1658	32.4	1883	42.9	2085	53.9	2271	65.5	2442	77.4	2604	89.8	2755	102.5
9000	4690	914	9.7	1138	15.9	1439	26.4	1688	37.2	1908	48.5	2106	60.3	2289	72.7	2459	85.4	2618	98.6	2768	112.1
10000	5211	980	12.3	1191	19.1	1481	30.7	1723	42.4	1937	54.6	2131	67.3	2311	80.4	2478	94.0	2635	108.0		
11000	5732	1048	15.4	1247	22.7	1526	35.5	1761	48.3	1970	61.4	2160	74.9	2336	88.9	2501	103.2	2656	118.0		
12000	6253	1119	19.1	1306	26.9	1573	40.8	1803	54.7	2006	68.8	2192	83.2	2365	98.0	2527	113.2	2679	128.8		
13000	6774	1191	23.4	1367	31.7	1624	46.6	1847	61.6	2046	76.8	2228	92.1	2397	107.8	2556	123.9	2706	140.3		
14000	7295	1264	28.4	1430	37.1	1677	53.0	1893	69.2	2088	85.4	2266	101.8	2432	118.5	2587	135.4	2735	152.7		
15000	7817	1338	34.1	1495	43.2	1732	60.1	1942	77.4	2132	94.8	2306	112.2	2469	129.8	2622	147.7	2767	165.9		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 330

WHEEL DIAMETER 33 IN.

MAX WHEEL SPEED Class 15 - 2020 RPM; Class 30 - 2250 RPM; Class 50 - 2770 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1563	588	1.4																		
3500	1824	601	1.7																		
4000	2084	620	1.9	917	4.7																
5000	2606	666	2.6	936	5.9																
6000	3127	721	3.5	967	7.2	1301	14.1														
7000	3648	782	4.7	1009	8.8	1321	16.5	1589	24.8												
8000	4169	847	6.2	1058	10.6	1351	19.0	1605	28.2	1834	37.8										
9000	4690	915	8.0	1112	12.8	1388	21.9	1630	31.8	1849	42.3	2051	53.2								
10000	5211	986	10.1	1170	15.4	1431	25.1	1661	35.8	1871	47.0	2066	58.7	2249	70.8	2421	83.2				
11000	5732	1058	12.7	1232	18.4	1480	28.8	1699	40.1	1900	52.1	2088	64.6	2264	77.5	2431	90.8	2591	104.3		
12000	6253	1132	15.8	1296	21.9	1532	32.9	1741	44.9	1934	57.6	2115	70.9	2286	84.6	2448	98.7	2603	113.0	2751	127.7
13000	6774	1207	19.3	1363	25.9	1588	37.5	1788	50.1	1974	63.6	2148	77.6	2312	92.1	2470	106.9	2620	122.1	2765	137.6
14000	7295	1283	23.3	1431	30.4	1647	42.7	1839	56.0	2017	70.0	2185	84.8	2344	100.0	2496	115.6	2643	131.6		
15000	7817	1360	27.9	1501	35.5	1708	48.5	1893	62.4	2065	77.1	2226	92.5	2380	108.4	2528	124.8	2670	141.6		
16000	8338	1437	33.2	1572	41.2	1771	55.0	1949	69.5	2115	84.8	2271	100.9	2421	117.5	2563	134.6	2701	152.1		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 365

WHEEL DIAMETER 36.5 IN.

MAX WHEEL SPEED Class 15 - 1820 RPM; Class 30 - 2050 RPM; Class 50 - 2500 RPM

		STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1276	537	1.6	828	4.4	1164	10.0	1422	16.6	1640	24.0	1833	32.1	2007	41.0	2166	50.4	2315	60.5	2455	71.1
4000	1701	557	2.2	838	5.5	1170	11.9	1427	19.2	1645	27.4	1837	36.2	2010	45.7	2170	55.7	2319	66.3	2459	77.4
5000	2127	584	3.0	853	6.7	1178	14.0	1433	22.1	1650	31.1	1841	40.6	2015	50.8	2174	61.6	2323	72.9	2463	84.6
6000	2552	616	3.9	873	8.2	1190	16.2	1442	25.2	1657	35.0	1847	45.4	2020	56.3	2179	67.8	2328	79.9	2467	92.4
7000	2977	652	5.0	898	9.9	1205	18.8	1453	28.6	1665	39.2	1854	50.4	2026	62.2	2185	74.5	2333	87.3	2472	100.6
8000	3403	692	6.3	926	11.8	1224	21.6	1467	32.2	1676	43.6	1863	55.7	2034	68.3	2192	81.4	2339	95.0	2478	109.1
9000	3828	734	7.8	958	14.1	1247	24.8	1484	36.2	1690	48.4	1875	61.3	2044	74.7	2200	88.7	2347	103.1	2485	118.1
10000	4254	779	9.7	992	16.6	1272	28.3	1504	40.6	1706	53.6	1888	67.3	2056	81.6	2211	96.3	2356	111.6	2493	127.4
11000	4679	826	11.9	1029	19.4	1301	32.2	1526	45.4	1725	59.2	1904	73.7	2069	88.8	2223	104.4	2367	120.5		
12000	5104	874	14.4	1068	22.6	1331	36.5	1552	50.6	1746	65.3	1922	80.6	2085	96.5	2237	112.9	2379	129.8		
13000	5530	924	17.4	1108	26.1	1364	41.1	1579	56.3	1770	71.9	1943	88.1	2103	104.7	2253	122.0	2394	139.7		
14000	5955	976	20.8	1151	30.0	1398	46.2	1609	62.4	1795	79.0	1966	96.0	2123	113.6	2271	131.6	2410	150.1		
16000	6806	1082	29.1	1240	39.2	1472	57.6	1673	76.1	1852	94.7	2017	113.6	2169	132.9	2313	152.7	2448	172.8		
18000	7656	1190	39.6	1335	50.6	1552	70.9	1743	91.8	1916	112.6	2074	133.6	2222	154.7	2361	176.3	2493	198.2		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 365

WHEEL DIAMETER 36.5 IN.

MAX WHEEL SPEED Class 15 - 1820 RPM; Class 30 - 2050 RPM; Class 50 - 2500 RPM

		STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	2127	563	2.4	830	5.9																
6000	2552	598	3.1	844	7.1																
7000	2977	637	4.0	865	8.3	1173	16.5														
8000	3403	681	5.1	894	9.8	1185	18.8	1433	28.5												
9000	3828	728	6.4	927	11.5	1203	21.2	1441	31.8												
10000	4254	776	7.9	964	13.4	1226	23.8	1455	35.2	1660	47.2										
11000	4679	827	9.7	1005	15.6	1254	26.7	1473	38.9	1672	51.7	1855	65.0								
12000	5104	879	11.9	1048	18.2	1286	29.9	1496	42.8	1687	56.4	1865	70.5	2031	85.1	2187	100.1				
14000	5955	986	17.1	1140	24.3	1358	37.3	1552	51.6	1731	66.7	1898	82.4	2055	98.6	2204	115.3	2347	132.3	2482	149.7
16000	6806	1096	23.9	1237	32.0	1440	46.4	1621	61.9	1787	78.4	1944	95.6	2093	113.4	2235	131.6	2370	150.3	2501	169.3
18000	7656	1209	32.5	1339	41.5	1528	57.2	1697	74.0	1854	91.8	2002	110.4	2142	129.6	2277	149.4	2406	169.7		
20000	8507	1324	43.0	1444	53.0	1621	70.2	1781	88.2	1929	107.3	2069	127.2	2202	147.8	2330	169.0	2453	190.8		
22000	9358	1440	55.7	1552	66.7	1718	85.3	1869	104.7	2010	125.1	2143	146.2	2269	168.1	2391	190.7	2509	213.9		
24000	10208	1557	70.8	1661	82.8	1819	103.0	1962	123.8	2096	145.4	2222	167.8	2343	191.0	2459	214.9				

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 400

WHEEL DIAMETER 40 IN.

MAX WHEEL SPEED Class 15 - 1630 RPM; Class 30 - 1860 RPM; Class 50 - 2290 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1059	479	1.5	750	4.3	1059	10.1	1297	17.1	1497	25.0	1674	33.8	1833	43.4	1980	53.7	2116	64.6	2244	76.2
4000	1411	490	2.0	753	5.3	1060	11.8	1298	19.3	1498	27.8	1675	37.2	1834	47.2	1981	58.0	2117	69.4	2246	81.5
5000	1764	505	2.6	760	6.4	1062	13.6	1299	21.9	1499	31.0	1675	40.9	1835	51.6	1982	62.9	2118	74.9	2246	87.4
6000	2117	526	3.3	770	7.6	1067	15.7	1301	24.7	1500	34.5	1676	45.1	1835	56.3	1982	68.3	2119	80.8	2247	93.9
7000	2470	549	4.1	784	9.0	1074	17.9	1305	27.7	1502	38.3	1677	49.5	1836	61.5	1983	74.0	2119	87.2	2247	100.9
8000	2823	575	5.1	801	10.5	1083	20.3	1311	31.0	1506	42.3	1680	54.3	1838	67.0	1984	80.2	2120	94.1	2248	108.4
10000	3529	632	7.6	843	14.1	1110	25.7	1329	38.1	1519	51.1	1690	64.8	1846	79.0	1990	93.7	2125	109.0	2252	124.8
12000	4234	694	10.8	892	18.6	1146	32.0	1356	46.2	1540	61.0	1706	76.4	1859	92.2	2000	108.6	2134	125.5	2259	142.8
14000	4940	760	15.0	946	24.0	1189	39.4	1390	55.4	1568	72.0	1729	89.1	1878	106.7	2017	124.8	2147	143.3	2271	162.3
16000	5646	829	20.3	1005	30.6	1237	47.9	1430	65.8	1602	84.2	1758	103.1	1903	122.5	2038	142.4	2166	162.6	2288	183.3
18000	6351	901	27.0	1066	38.4	1289	57.7	1476	77.5	1641	97.8	1793	118.6	1934	139.8	2066	161.4	2191	183.4		
20000	7057	976	35.1	1130	47.6	1344	69.1	1525	90.8	1685	113.0	1833	135.6	1969	158.6	2098	182.1	2220	205.9		
22000	7763	1053	44.9	1197	58.5	1402	82.0	1577	105.7	1733	129.8	1876	154.3	2009	179.2	2135	204.5	2254	230.1		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 400

WHEEL DIAMETER 40 IN.

MAX WHEEL SPEED Class 15 - 1630 RPM; Class 30 - 1860 RPM; Class 50 - 2290 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	1764	494	2.4																		
6000	2117	514	2.9	757	7.1																
7000	2470	540	3.6	767	8.2																
8000	2823	569	4.4	782	9.5	1068	19.0														
9000	3176	601	5.4	802	10.8	1075	21.2														
10000	3529	635	6.6	825	12.4	1086	23.5	1309	35.5												
12000	4234	708	9.5	880	16.1	1119	28.6	1327	42.3	1515	56.7										
14000	4940	786	13.3	942	20.7	1163	34.6	1357	49.7	1534	65.8	1698	82.4	1851	99.6						
16000	5646	866	18.2	1011	26.5	1216	41.6	1398	58.2	1564	75.7	1720	94.0	1866	112.8	2005	132.1	2136	151.9		
18000	6351	949	24.4	1083	33.5	1275	49.9	1446	67.8	1604	86.8	1751	106.6	1891	127.0	2024	147.9	2150	169.4	2272	191.2
20000	7057	1034	31.9	1159	42.0	1339	59.7	1501	78.8	1650	99.1	1790	120.3	1923	142.3	2051	164.9	2173	187.9	2290	211.4
22000	7763	1120	40.9	1237	51.9	1407	71.0	1561	91.4	1702	113.0	1836	135.6	1963	159.0	2085	183.1	2202	207.7		
24000	8469	1207	51.5	1317	63.6	1479	84.1	1624	105.8	1759	128.7	1887	152.5	2009	177.3	2125	202.8	2238	228.9		
26000	9174	1295	64.0	1398	77.0	1552	99.1	1691	122.1	1821	146.2	1943	171.4	2059	197.4	2171	224.2	2280	251.8		
28000	9880	1384	78.5	1481	92.5	1628	116.1	1761	140.5	1885	165.9	2002	192.3	2114	219.6	2222	247.7				

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 451

WHEEL DIAMETER 45.125 IN.

MAX WHEEL SPEED Class 15 - 1450 RPM; Class 30 - 1650 RPM; Class 50 - 2000 RPM

CFM	OV	STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	1426	433	2.5	667	6.6	940	14.8	1150	24.4	1328	35.1	1484	47.0	1626	59.7	1756	73.4	1877	87.9	1991	103.2
7000	1996	457	3.8	677	8.9	943	18.6	1152	29.6	1329	41.6	1485	54.7	1627	68.6	1757	83.4	1878	99.0	1992	115.3
9000	2566	488	5.4	696	11.6	952	23.0	1157	35.5	1332	49.1	1487	63.5	1628	78.7	1758	94.8	1879	111.6	1992	129.1
11000	3137	525	7.4	721	14.8	967	28.0	1166	42.2	1338	57.3	1492	73.3	1631	90.0	1760	107.4	1881	125.6	1994	144.4
13000	3707	566	10.0	751	18.5	987	33.6	1180	49.6	1348	66.4	1499	84.0	1637	102.2	1765	121.2	1884	140.9	1997	161.2
15000	4277	609	13.3	786	23.0	1012	39.9	1199	57.6	1363	76.2	1510	95.5	1646	115.5	1772	136.1	1890	157.3		
17000	4847	654	17.2	823	28.2	1041	47.0	1222	66.6	1381	87.0	1525	108.0	1658	129.7	1782	152.0	1899	174.9		
19000	5418	702	22.1	863	34.2	1073	55.0	1248	76.4	1403	98.6	1544	121.5	1674	145.0	1796	169.0	1911	193.6		
21000	5988	751	27.8	904	41.2	1107	63.9	1277	87.3	1428	111.3	1566	136.0	1693	161.2	1812	187.1	1925	213.4		
23000	6558	801	34.7	947	49.2	1144	74.0	1309	99.2	1456	125.1	1590	151.6	1715	178.7	1832	206.3	1943	234.5		
25000	7129	853	42.7	991	58.4	1183	85.2	1344	112.4	1487	140.2	1618	168.5	1740	197.4	1854	226.9	1963	256.8		
27000	7699	906	52.0	1037	68.8	1222	97.6	1380	126.8	1519	156.5	1647	186.7	1767	217.5	1879	248.7	1986	280.5		
29000	8269	960	62.7	1084	80.5	1264	111.4	1417	142.6	1554	174.3	1679	206.4	1796	239.0	1906	272.1				
31000	8839	1015	74.9	1133	93.7	1306	126.6	1456	159.9	1590	193.5	1712	227.5	1827	262.0	1935	297.0				
37000	10550	1183	121.4	1283	143.0	1440	181.8	1579	221.3	1705	261.0	1821	300.9	1929	341.2						

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 451

WHEEL DIAMETER 45.125 IN.

MAX WHEEL SPEED Class 15 - 1450 RPM; Class 30 - 1650 RPM; Class 50 - 2000 RPM

CFM	OV	STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1711	434	2.8																		
8000	2281	462	4.0	673	9.4																
10000	2851	500	5.5	691	11.8	946	23.8														
12000	3422	545	7.5	719	14.6	957	28.2	1158	42.9												
14000	3992	595	10.1	754	18.0	976	33.0	1167	49.4	1338	66.7										
16000	4562	647	13.3	795	22.0	1002	38.5	1183	56.4	1347	75.3	1497	95.0								
18000	5133	701	17.4	840	26.9	1034	44.6	1206	64.0	1362	84.6	1506	105.9	1641	127.9	1768	150.5				
20000	5703	757	22.2	887	32.6	1071	51.6	1233	72.4	1382	94.5	1521	117.4	1652	141.1	1775	165.4	1893	190.2		
22000	6273	815	28.0	937	39.3	1111	59.6	1266	81.7	1408	105.2	1542	129.7	1667	155.0	1787	181.0	1901	207.5		
24000	6843	873	34.9	989	47.0	1154	68.7	1302	92.1	1438	116.9	1566	142.9	1688	169.8	1803	197.3	1914	225.5		
26000	7414	933	42.8	1042	55.9	1200	78.9	1341	103.6	1472	129.8	1595	157.2	1712	185.5	1824	214.6	1931	244.4		
28000	7984	993	52.0	1096	66.1	1248	90.4	1383	116.4	1509	143.8	1627	172.6	1740	202.3	1848	233.0	1952	264.3		
30000	8554	1054	62.5	1152	77.5	1297	103.3	1427	130.6	1549	159.3	1663	189.3	1771	220.5	1876	252.5	1977	285.4		
32000	9125	1115	74.4	1208	90.4	1348	117.7	1473	146.2	1590	176.2	1701	207.5	1806	240.0	1907	273.4	2004	307.7		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 505

WHEEL DIAMETER 50.5 IN.

MAX WHEEL SPEED Class 15 - 1300 RPM; Class 30 - 1480 RPM; Class 50 - 1800 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6000	1338	385	3.1	596	8.0	840	18.1	1028	29.9	1186	43.2	1326	57.9	1453	73.8	1569	90.8	1677	108.8	1779	127.8
8000	1784	401	4.2	602	10.2	842	21.8	1029	34.9	1187	49.5	1327	65.3	1453	82.3	1570	100.4	1678	119.5	1779	139.5
10000	2230	421	5.6	613	12.7	846	25.9	1031	40.6	1188	56.6	1328	73.7	1454	92.0	1570	111.2	1678	131.5	1780	152.6
12000	2676	446	7.4	628	15.6	854	30.6	1036	46.9	1191	64.3	1330	82.9	1455	102.5	1571	123.1	1679	144.7	1781	167.1
14000	3122	473	9.5	647	18.9	865	35.6	1043	53.6	1196	72.8	1333	92.9	1458	114.0	1573	136.0	1681	158.9	1782	182.7
16000	3568	501	12.1	668	22.6	880	41.2	1053	61.0	1204	81.8	1339	103.6	1462	126.3	1576	149.8	1683	174.2	1784	199.4
18000	4014	532	15.2	692	26.9	897	47.3	1066	68.9	1213	91.5	1346	115.0	1468	139.3	1581	164.5	1687	190.4	1787	217.2
20000	4460	564	18.9	718	31.8	916	54.1	1081	77.5	1225	101.8	1356	127.1	1476	153.1	1588	180.0	1693	207.5	1792	235.8
22000	4906	596	23.2	745	37.3	938	61.5	1098	86.7	1239	112.9	1367	139.9	1486	167.7	1596	196.3	1700	225.5	1798	255.5
24000	5352	631	28.2	774	43.5	961	69.7	1117	96.8	1255	124.8	1381	153.6	1497	183.2	1606	213.5	1708	244.4		
26000	5798	666	33.9	803	50.5	986	78.6	1138	107.6	1273	137.4	1397	168.0	1511	199.4	1618	231.5	1719	264.3		
28000	6244	701	40.5	834	58.3	1012	88.5	1161	119.3	1293	151.0	1414	183.4	1526	216.6	1631	250.5	1731	285.0		
30000	6690	738	48.0	865	66.9	1039	99.2	1184	132.0	1314	165.5	1433	199.8	1543	234.8	1646	270.5	1744	306.8		
32000	7136	776	56.5	897	76.6	1066	110.8	1209	145.6	1336	181.0	1453	217.2	1561	254.0	1663	291.5	1759	329.6		
34000	7583	813	66.0	930	87.2	1095	123.5	1235	160.2	1360	197.6	1474	235.6	1581	274.3	1681	313.6	1776	353.6		
36000	8029	852	76.7	964	98.9	1124	137.2	1262	176.0	1384	215.3	1497	255.2	1601	295.8	1700	336.9	1794	378.7		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 505

WHEEL DIAMETER 50.5 IN.

MAX WHEEL SPEED Class 15 - 1300 RPM; Class 30 - 1480 RPM; Class 50 - 1800 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1784	391	3.8																		
10000	2230	412	4.9	602	11.8																
12000	2676	439	6.4	614	14.1																
14000	3122	470	8.2	631	16.8	850	33.0														
16000	3568	504	10.5	654	19.9	861	37.6	1037	56.8												
18000	4014	540	13.3	681	23.4	876	42.6	1045	63.5	1196	85.5										
20000	4460	577	16.6	710	27.5	895	48.1	1057	70.5	1203	94.2	1337	118.8								
22000	4906	616	20.6	741	32.2	918	54.1	1072	78.1	1213	103.3	1344	129.6	1465	156.7						
24000	5352	656	25.2	775	37.7	943	60.8	1091	86.2	1227	113.0	1353	140.9	1472	169.7	1583	199.2				
26000	5798	696	30.5	809	43.9	970	68.3	1113	95.0	1244	123.3	1366	152.8	1481	183.2	1590	214.4	1694	246.4	1793	279.0
28000	6244	737	36.6	845	50.8	1000	76.5	1137	104.6	1263	134.3	1381	165.3	1493	197.4	1599	230.2	1700	263.8	1797	298.0
30000	6690	779	43.5	882	58.7	1031	85.7	1163	115.0	1285	146.1	1399	178.6	1507	212.2	1611	246.7	1710	281.9	1805	317.8
32000	7136	822	51.3	920	67.4	1063	95.8	1191	126.3	1308	158.8	1419	192.7	1524	227.8	1625	263.8	1722	300.7		
34000	7583	864	60.1	959	77.1	1097	106.9	1220	138.7	1334	172.4	1442	207.7	1544	244.2	1642	281.8	1736	320.2		
36000	8029	907	69.8	998	87.9	1131	119.0	1251	152.2	1361	187.2	1466	223.8	1565	261.6	1660	300.7	1752	340.6		
38000	8475	951	80.7	1038	99.7	1167	132.3	1282	166.7	1390	203.0	1491	240.9	1588	280.2	1681	320.6	1770	362.0		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 575

WHEEL DIAMETER 57.5 IN.

MAX WHEEL SPEED Class 15 -1140 RPM; Class 30 - 1300 RPM; Class 50 - 1600 RPM

CFM	OV	STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1364	339	4.1	523	10.7	737	23.8	903	39.3	1042	56.7	1165	75.8	1276	96.5	1378	118.7	1473	142.1	1562	166.9
10000	1705	350	5.2	528	12.8	739	27.5	903	44.3	1042	63.0	1165	83.3	1276	105.1	1378	128.3	1473	152.8	1563	178.6
12000	2046	363	6.6	534	15.2	741	31.6	905	49.8	1043	69.8	1166	91.4	1277	114.4	1379	138.8	1474	164.5	1563	191.4
14000	2387	378	8.2	543	17.9	746	36.0	907	55.8	1045	77.3	1167	100.2	1277	124.6	1379	150.2	1474	177.1	1563	205.2
16000	2728	395	10.0	554	20.9	752	40.7	911	62.2	1047	85.2	1168	109.6	1278	135.4	1380	162.4	1475	190.6	1564	220.0
18000	3069	414	12.2	567	24.2	759	45.8	916	69.0	1050	93.7	1171	119.7	1280	146.9	1381	175.4	1476	205.0	1565	235.6
20000	3409	433	14.7	581	27.9	769	51.3	922	76.3	1055	102.6	1174	130.2	1283	159.1	1384	189.0	1477	220.0	1566	252.2
24000	4091	474	20.9	614	36.4	792	63.5	939	92.1	1068	122.0	1184	153.0	1291	185.1	1390	218.3	1483	252.4	1570	287.6
28000	4773	518	28.9	650	46.9	820	77.8	961	110.0	1086	143.4	1199	178.0	1303	213.6	1400	250.1	1491	287.6	1578	326.0
32000	5455	564	39.0	688	59.4	851	94.2	987	130.1	1108	167.2	1217	205.4	1319	244.5	1414	284.6	1503	325.5	1588	367.3
36000	6137	612	51.5	729	74.3	886	113.1	1017	152.9	1133	193.6	1240	235.4	1339	278.2	1431	321.8	1519	366.3		
40000	6819	662	66.8	772	92.0	922	134.8	1049	178.4	1162	223.0	1266	268.5	1362	314.9	1452	362.1	1537	410.2		
44000	7501	713	85.2	816	112.6	961	159.6	1084	207.2	1194	255.5	1294	304.7	1388	354.8	1476	405.7	1559	457.4		
48000	8183	766	107.1	862	136.5	1001	187.6	1121	239.2	1227	291.5	1325	344.5	1416	398.3	1502	452.9	1584	508.3		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 575

WHEEL DIAMETER 57.5 IN.

MAX WHEEL SPEED Class 15 -1140 RPM; Class 30 - 1300 RPM; Class 50 - 1600 RPM

CFM	OV	STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10000	1705	342	4.7																		
12000	2046	355	5.8	526	14.2																
14000	2387	371	7.1	532	16.4																
16000	2728	390	8.7	541	18.9	742	38.1														
20000	3409	434	12.7	568	24.5	753	47.0	910	71.3												
24000	4091	483	18.3	604	31.6	773	57.0	920	84.6	1052	113.6										
28000	4773	534	25.6	645	40.5	802	68.5	939	99.2	1064	131.5	1179	165.1	1286	199.9						
32000	5455	588	34.8	691	51.5	836	82.0	965	115.5	1082	151.0	1192	187.9	1295	225.9	1392	265.0	1485	304.9		
36000	6137	643	46.4	739	64.8	875	97.9	996	134.0	1107	172.4	1211	212.4	1310	253.7	1403	296.0	1493	339.3	1578	383.5
40000	6819	700	60.5	789	80.8	917	116.5	1031	155.2	1137	196.3	1236	239.2	1330	283.6	1420	329.2	1506	375.8	1588	423.2
44000	7501	758	77.5	841	99.6	962	138.1	1071	179.3	1171	223.0	1265	268.7	1355	316.0	1441	364.6	1524	414.4	1604	465.1
48000	8183	816	97.6	894	121.6	1009	163.0	1113	206.7	1208	252.9	1299	301.3	1385	351.3	1467	402.9	1547	455.7		
52000	8865	875	121.0	949	147.1	1058	191.3	1157	237.8	1248	286.5	1335	337.4	1417	390.1	1497	444.4	1573	500.1		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 643

WHEEL DIAMETER 64.375 IN.

MAX WHEEL SPEED Class 15 -1000 RPM; Class 30 - 1160 RPM; Class 50 - 1420 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	1225	300	4.6	467	12.3	658	28.1	806	46.9	931	68.1	1040	91.5	1139	116.9	1231	144.2	1315	173.1	1395	203.6
11000	1497	306	5.6	469	14.4	659	31.6	806	51.6	931	74.0	1041	98.5	1140	125.0	1231	153.3	1316	183.2	1395	214.7
13000	1769	314	6.8	472	16.6	660	35.4	807	56.8	931	80.5	1041	106.2	1140	133.8	1231	163.2	1316	194.1	1396	226.7
15000	2041	324	8.2	477	19.1	662	39.5	808	62.3	932	87.4	1041	114.4	1140	143.2	1232	173.8	1316	205.9	1396	239.6
20000	2722	353	12.5	494	26.1	671	50.9	813	77.8	935	106.6	1043	137.2	1142	169.4	1233	203.2	1317	238.5	1397	275.3
25000	3402	386	18.3	519	34.8	686	64.1	823	95.3	942	128.3	1049	162.9	1146	198.9	1236	236.4	1320	275.3	1399	315.5
30000	4083	423	26.0	548	45.5	707	79.4	838	115.1	954	152.5	1058	191.3	1153	231.5	1241	273.0	1324	315.7	1403	359.7
35000	4763	462	36.0	580	58.5	732	97.1	858	137.4	969	179.2	1070	222.4	1163	267.0	1250	312.7	1332	359.6	1409	407.6
40000	5444	503	48.5	614	74.1	760	117.6	881	162.5	989	208.9	1087	256.6	1178	305.6	1263	355.7	1342	406.9	1418	459.2
45000	6124	546	64.1	650	92.7	790	141.2	908	190.9	1012	241.9	1107	294.2	1195	347.6	1278	402.2	1356	457.9		
50000	6805	590	83.1	688	114.6	823	168.2	937	222.7	1037	278.4	1130	335.3	1216	393.3	1296	452.5	1373	512.6		
55000	7485	636	106.1	728	140.2	857	199.0	967	258.5	1065	319.0	1155	380.5	1239	443.2	1317	506.8	1392	571.5		
60000	8165	682	133.2	768	170.0	893	233.9	1000	298.5	1095	363.8	1183	430.1	1264	497.4	1341	565.7	1414	634.9		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 643

WHEEL DIAMETER 64.375 IN.

MAX WHEEL SPEED Class 15 -1000 RPM; Class 30 - 1160 RPM; Class 50 - 1420 RPM

STATIC PRESSURE (in. WG)																					
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	1633	303	5.6																		
16000	2177	322	7.9	471	18.9																
20000	2722	348	10.8	483	23.6																
24000	3266	379	14.7	502	29.1	670	56.4														
28000	3811	413	19.8	526	35.7	682	66.0	817	98.9												
32000	4355	448	26.1	553	43.6	700	76.7	828	112.8	943	150.8	1049	190.4								
36000	4899	486	33.9	584	53.0	721	88.7	842	127.8	953	169.1	1055	212.0	1150	256.3						
40000	5444	524	43.4	616	64.2	746	102.4	861	144.3	966	188.7	1064	234.8	1156	282.4	1243	331.3				
44000	5988	564	54.7	650	77.2	773	118.0	883	162.6	983	209.8	1078	259.1	1167	310.0	1251	362.2	1331	415.4	1408	469.9
48000	6532	604	67.9	685	92.3	803	135.7	907	182.8	1004	232.9	1094	285.1	1180	339.1	1261	394.6	1339	451.2	1414	509.0
52000	7077	644	83.3	722	109.6	834	155.7	934	205.3	1026	258.0	1113	313.1	1196	370.2	1275	428.7	1351	488.6	1423	549.6
56000	7621	686	101.1	759	129.2	866	178.1	962	230.3	1051	285.6	1135	343.4	1215	403.3	1291	464.9	1364	527.9		
60000	8165	727	121.4	797	151.5	900	203.2	992	257.9	1078	315.8	1159	376.2	1236	438.9	1310	503.4	1381	569.4		
64000	8710	770	144.4	836	176.4	935	231.1	1024	288.5	1106	348.8	1184	411.8	1259	477.1	1330	544.4	1399	613.4		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 712

WHEEL DIAMETER 71.25 IN.

MAX WHEEL SPEED Class 15 -900 RPM; Class 30 - 1050 RPM; Class 50 - 1280 RPM

CFM	OV	STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	1659	281	7.8	425	19.3	596	41.6	729	67.1	841	95.5	940	126.4	1030	159.7	1112	195.2	1189	232.7	1261	272.0
20000	2212	299	11.3	434	25.5	600	51.9	731	81.1	842	113.0	941	147.2	1031	183.5	1113	222.0	1190	262.3	1262	304.5
25000	2765	321	15.8	448	32.8	607	63.6	735	96.9	845	132.6	943	170.5	1032	210.4	1114	252.1	1190	295.8	1262	341.1
30000	3317	346	21.6	466	41.5	618	76.7	743	114.4	851	154.3	947	196.1	1035	239.8	1116	285.3	1192	332.5	1264	381.2
35000	3870	372	28.9	487	51.7	633	91.6	753	133.8	858	178.0	953	224.0	1039	271.8	1120	321.2	1195	372.2	1266	424.7
40000	4423	400	38.0	510	63.8	650	108.3	766	155.1	869	203.7	961	254.1	1046	306.2	1125	359.7	1200	414.8	1270	471.2
45000	4976	430	49.0	534	77.9	670	127.2	782	178.6	882	231.7	972	286.6	1055	343.0	1133	400.8	1206	460.1	1276	520.7
50000	5529	461	62.3	560	94.2	691	148.5	800	204.5	897	262.2	985	321.6	1066	382.5	1143	444.7	1215	508.4	1283	573.3
55000	6082	492	78.1	587	113.0	714	172.3	820	233.1	914	295.4	1000	359.3	1079	424.7	1154	491.5	1225	559.5		
60000	6635	525	96.7	615	134.5	737	199.0	841	264.5	932	331.5	1016	400.1	1094	470.0	1168	541.3	1237	613.8		
65000	7188	558	118.4	643	159.1	762	228.6	863	299.1	953	370.9	1035	444.1	1111	518.6	1183	594.4	1251	671.5		
70000	7741	592	143.5	673	186.8	788	261.5	886	337.0	974	413.6	1054	491.5	1129	570.7	1199	651.1	1266	732.7		
75000	8294	627	172.2	703	218.0	815	297.9	911	378.5	996	460.0	1075	542.6	1148	626.5	1217	711.4	1282	797.7		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 712

WHEEL DIAMETER 71.25 IN.

MAX WHEEL SPEED Class 15 -900 RPM; Class 30 - 1050 RPM; Class 50 - 1280 RPM

CFM	OV	STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	1659	275	7.0																		
18000	1990	284	8.6	424	21.1																
21000	2322	297	10.4	428	24.4																
24000	2654	312	12.7	435	28.0																
27000	2986	328	15.3	444	31.8	601	63.0														
30000	3317	346	18.5	456	36.1	606	69.7	734	105.8												
35000	3870	377	24.9	478	44.4	618	81.7	739	122.1	847	164.4										
40000	4423	410	33.0	504	54.4	635	95.1	750	139.5	853	186.1	948	234.4								
45000	4976	445	43.0	533	66.3	656	110.2	764	158.3	863	209.1	954	261.6	1040	315.7	1120	371.1				
50000	5529	481	55.1	563	80.5	679	127.4	782	179.0	876	233.6	964	290.3	1046	348.7	1125	408.3	1199	469.3		
55000	6082	517	69.5	594	97.2	705	147.1	802	201.8	892	260.1	977	320.8	1056	383.3	1132	447.2	1204	512.4	1273	578.8
60000	6635	554	86.5	627	116.4	732	169.4	825	227.3	912	288.9	993	353.4	1069	419.9	1142	487.9	1212	557.4	1280	628.0
65000	7188	592	106.3	661	138.5	761	194.8	851	255.6	933	320.4	1011	388.3	1085	458.6	1155	530.8	1223	604.4		
75000	8294	669	155.0	731	192.2	823	255.4	905	322.3	982	393.1	1054	467.4	1123	544.6	1189	624.1	1252	705.5		
85000	9400	747	217.6	803	259.8	888	330.5	965	403.8	1036	480.6	1104	560.9	1168	644.4	1230	730.5				

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 782

WHEEL DIAMETER 78.25 IN.

MAX WHEEL SPEED Class 15 - 820 RPM; Class 30 - 950 RPM; Class 50 - 1175 RPM

		STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	1372	250	7.6	385	19.9	542	44.5	663	73.2	766	105.5	856	141.1	938	179.5	1013	220.6	1082	264.2	1148	310.1
20000	1830	261	10.6	389	25.5	544	53.9	664	86.0	766	121.5	856	160.1	938	201.3	1013	245.2	1083	291.4	1148	339.9
25000	2287	275	14.3	397	31.9	547	64.5	666	100.5	767	139.5	857	181.4	938	225.9	1013	272.8	1083	322.0	1149	373.4
30000	2745	292	18.9	408	39.3	553	76.3	669	116.4	770	159.3	859	204.9	940	252.8	1014	303.1	1084	355.6	1149	410.2
35000	3202	310	24.6	421	47.8	561	89.3	675	133.7	773	180.8	861	230.3	942	282.1	1016	336.0	1085	392.0	1150	450.0
40000	3660	330	31.4	436	57.6	571	103.6	682	152.5	779	203.9	865	257.5	945	313.3	1018	371.1	1087	430.9	1152	492.6
45000	4117	351	39.7	453	68.8	583	119.5	691	172.9	786	228.7	871	286.6	949	346.5	1022	408.5	1090	472.2	1154	537.8
50000	4575	372	49.4	471	81.6	597	137.0	702	195.0	794	255.2	878	317.6	955	381.8	1027	448.0	1094	515.8	1158	585.4
55000	5032	395	60.9	489	96.1	612	156.4	714	218.9	804	283.7	886	350.6	962	419.3	1033	489.7	1099	561.8	1162	635.5
60000	5490	418	74.2	509	112.5	628	177.7	728	244.9	816	314.3	896	385.7	970	458.8	1040	533.7	1106	610.2	1168	688.1
65000	5947	442	89.7	529	131.0	645	201.2	742	273.2	828	347.1	907	423.0	980	500.7	1049	579.9	1113	660.8	1175	743.3
70000	6405	466	107.4	550	151.7	663	226.9	758	303.7	842	382.4	919	462.8	991	545.0	1058	628.8	1122	714.2	1182	801.0
75000	6862	491	127.6	571	174.7	681	255.1	774	336.8	857	420.1	932	505.2	1003	591.9	1069	680.3	1132	770.2		
80000	7320	517	150.5	593	200.3	700	285.9	791	372.5	872	460.6	947	550.4	1016	641.7	1081	734.7	1142	829.1		
85000	7777	542	176.2	615	228.7	720	319.4	809	411.0	889	504.0	962	598.4	1029	694.5	1093	792.0	1154	890.9		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 782

WHEEL DIAMETER 78.25 IN.

MAX WHEEL SPEED Class 15 - 820 RPM; Class 30 - 950 RPM; Class 50 - 1175 RPM

		STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	1372	245	7.0																		
18000	1647	250	8.4																		
21000	1921	257	9.9	386	24.7																
24000	2196	266	11.7	388	27.9																
27000	2470	277	13.8	393	31.4																
30000	2745	288	16.1	398	35.0	546	70.4														
35000	3202	310	21.0	411	41.8	550	81.4														
40000	3660	333	26.9	428	49.7	558	93.1	671	139.9												
50000	4575	383	43.1	466	69.5	583	119.7	686	174.7	779	232.4	865	292.1								
60000	5490	436	65.7	511	96.2	617	152.5	711	214.6	797	280.3	877	348.4	952	418.5	1024	490.2	1091	563.5		
70000	6405	491	95.9	559	130.9	657	193.3	743	261.7	823	334.5	898	410.4	969	488.8	1036	568.9	1101	650.7	1163	733.9
80000	7320	548	135.1	610	174.8	700	243.8	781	318.1	855	397.2	925	480.2	992	566.1	1056	654.4	1117	744.4	1176	836.0
90000	8235	606	184.4	663	229.0	747	305.0	822	385.4	892	470.5	958	559.9	1021	652.6	1081	748.2	1139	846.0		
100000	9150	665	245.2	718	294.8	796	378.1	867	464.9	933	556.0	995	651.4	1055	750.5	1112	852.7	1167	957.8		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face
 Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRO 852

WHEEL DIAMETER 85.25 IN.

MAX WHEEL SPEED Class 15 - 750 RPM; Class 30 - 870 RPM; Class 50 - 1070 RPM

		STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	1532	232	10	354	26	498	57	609	92	703	132	786	175	861	222	930	272	994	325	1054	381
25000	1915	242	13	359	32	499	66	610	106	703	149	786	195	861	245	930	298	994	353	1054	412
30000	2298	253	17	365	38	502	77	611	120	704	167	787	217	861	270	930	326	994	384	1054	446
35000	2681	266	22	373	46	507	89	614	136	706	187	788	240	862	297	931	356	995	418	1055	482
40000	3064	280	27	383	54	513	102	618	153	709	208	790	265	864	326	932	388	996	454	1056	522
45000	3447	295	34	394	63	520	116	623	172	712	230	793	292	866	356	934	423	997	492	1057	563
50000	3830	311	41	407	74	529	131	629	191	717	254	796	320	869	388	936	459	999	532	1058	607
55000	4213	327	50	420	86	539	147	637	212	723	280	801	350	872	422	939	497	1001	574	1060	653
60000	4596	344	60	434	99	549	165	645	234	730	307	807	381	877	458	943	537	1005	618	1063	701
65000	4979	361	72	448	113	561	185	655	259	738	335	813	414	883	495	948	579	1009	664	1067	751
70000	5362	379	85	463	129	573	206	665	284	747	365	821	449	889	535	953	623	1014	712	1071	804
80000	6128	416	116	495	167	600	253	688	341	766	432	838	524	904	619	967	716	1026	814		
90000	6894	455	156	527	212	628	309	713	407	789	506	858	608	922	712	983	818	1040	926		
100000	7660	494	204	562	266	658	373	740	481	813	590	880	702	943	815	1002	930	1058	1046		

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRT 852

WHEEL DIAMETER 85.25 IN.

MAX WHEEL SPEED Class 15 - 750 RPM; Class 30 - 870 RPM; Class 50 - 1070 RPM

		STATIC PRESSURE (in. WG)																			
		2		5		10		15		20		25		30		35		40		45	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
20000	1532	228	9.3																		
25000	1915	236	11.8	354	29.4																
30000	2298	248	14.9	358	34.9																
35000	2681	263	18.7	365	40.8	501	82.3														
45000	3447	296	28.8	386	54.9	509	104.5	614	158.0												
55000	4213	334	43.3	414	73.0	526	129.8	623	191.6	711	256.4	791	323.6								
65000	4979	374	62.9	447	96.5	549	159.6	640	229.0	722	302.1	798	377.8	869	455.7	936	535.5				
75000	5745	416	88.3	483	126.2	577	195.3	661	271.4	738	352.2	810	436.2	878	522.6	943	610.9	1004	701.0	1062	792.9
85000	6511	459	120.6	521	163.0	609	238.3	687	320.6	760	408.2	828	499.9	892	594.4	954	691.1	1012	789.8	1069	890.2
95000	7277	504	160.6	560	207.7	643	289.6	717	377.8	785	471.8	849	570.3	911	672.3	969	777.0	1025	884.0		
105000	8044	548	209.1	601	261.1	679	349.9	749	444.2	813	544.2	875	649.1	933	758.1	988	870.2	1042	985.0		
115000	8810	594	267.1	643	324.1	716	420.2	783	520.8	844	626.8	902	737.7	958	853.1	1011	972.0	1063	1094.1		
125000	9576	640	335.4	686	397.5	755	501.2	818	608.4	877	720.5	933	837.4	986	958.9	1037	1084.2				

Class 15 = Regular Type Face; Class 30 = **Bold** Type Face; Class 50 = *Italic* Type Face

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRW 191

WHEEL DIAMETER 19.125 IN.
 MAX WHEEL SPEED Class 30 - 3900 RPM

STATIC PRESSURE (in. WG)																													
1			2			3			4			5			10			15			20			25			30		
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
800	1258	762	0.23	1035	0.45	1248	0.71	1430	1.00	1591	1.33	2228	3.34	2721	5.90	3139	8.90	3507	12.29	3840	16.03								
1000	1572	793	0.30	1060	0.56	1270	0.85	1450	1.16	1609	1.50	2240	3.57	2730	6.17	3145	9.21	3512	12.63	3845	16.39								
1200	1887	832	0.39	1087	0.69	1295	1.01	1472	1.35	1630	1.71	2255	3.86	2741	6.51	3154	9.59	3520	13.05	3851	16.85								
1400	2201	881	0.50	1119	0.84	1321	1.20	1497	1.58	1653	1.97	2273	4.21	2756	6.93	3167	10.06	3530	13.56	3860	17.40								
1600	2516	937	0.64	1156	1.02	1351	1.42	1524	1.83	1678	2.25	2294	4.63	2773	7.43	3181	10.62	3543	14.17	3871	18.06								
1800	2830	999	0.81	1200	1.22	1385	1.66	1553	2.11	1705	2.57	2316	5.10	2793	8.00	3198	11.27	3558	14.88	3884	18.82								
2000	3145	1066	1.01	1251	1.45	1424	1.93	1586	2.42	1734	2.92	2340	5.62	2814	8.64	3217	12.00	3575	15.69	3900	19.70								
2200	3459	1136	1.26	1307	1.73	1469	2.23	1623	2.76	1767	3.31	2365	6.19	2837	9.35	3238	12.82	3593	16.60										
2600	4088	1282	1.87	1431	2.40	1573	2.97	1711	3.57	1843	4.19	2419	7.46	2885	10.95	3282	14.69	3635	18.68										
3000	4717	1434	2.67	1567	3.27	1693	3.90	1816	4.56	1936	5.25	2480	8.92	2937	12.79	3331	16.85	3680	21.12										
3400	5346	1590	3.71	1711	4.37	1825	5.06	1935	5.79	2043	6.54	2550	10.57	2994	14.84	3382	19.27	3730	23.88										
3800	5975	1749	5.00	1859	5.73	1964	6.48	2065	7.27	2163	8.08	2632	12.45	3058	17.13	3439	21.96	3782	26.93										
4200	6604	1909	6.58	2012	7.37	2108	8.19	2201	9.04	2292	9.91	2726	14.61	3130	19.66	3500	24.90	3837	30.27										
4600	7233	2071	8.47	2167	9.33	2257	10.22	2344	11.13	2428	12.07	2831	17.07	3212	22.48	3568	28.11	3898	33.88										

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRW 226

WHEEL DIAMETER 22.625 IN.
 MAX WHEEL SPEED Class 30 - 3300 RPM

STATIC PRESSURE (in. WG)																													
1			2			3			4			5			10			15			20			25			30		
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
1000	1124	634	0.28	867	0.58	1048	0.93	1203	1.33	1339	1.77	1880	4.56	2298	8.12	2651	12.31	2963	17.03	3245	22.24								
1200	1348	651	0.35	881	0.68	1060	1.05	1213	1.46	1349	1.92	1886	4.76	2302	8.35	2654	12.57	2965	17.33	3247	22.56								
1400	1573	670	0.42	896	0.79	1074	1.19	1225	1.62	1360	2.10	1893	5.00	2308	8.63	2659	12.88	2969	17.67	3250	22.95								
1600	1798	693	0.51	912	0.92	1088	1.35	1239	1.81	1372	2.31	1902	5.28	2314	8.96	2664	13.26	2973	18.08	3254	23.39								
2000	2247	751	0.73	950	1.21	1120	1.72	1268	2.25	1400	2.81	1924	5.98	2332	9.79	2678	14.19	2985	19.10	3264	24.48								
2400	2697	822	1.03	998	1.58	1158	2.17	1302	2.78	1431	3.41	1950	6.84	2354	10.84	2697	15.37	3002	20.39	3278	25.87								
2800	3146	901	1.42	1057	2.04	1204	2.70	1340	3.39	1466	4.09	1978	7.86	2379	12.09	2720	16.80	3022	21.96	3296	27.57								
3200	3596	986	1.92	1126	2.60	1259	3.33	1386	4.09	1506	4.88	2009	9.02	2406	13.54	2745	18.47	3045	23.81										
3800	4270	1120	2.91	1242	3.68	1358	4.50	1470	5.37	1579	6.26	2059	11.00	2451	16.04	2786	21.39	3083	27.08										
4400	4944	1259	4.23	1368	5.09	1471	6.00	1570	6.96	1668	7.96	2117	13.28	2499	18.90	2831	24.76	3126	30.90										
5000	5618	1402	5.92	1500	6.89	1593	7.89	1682	8.94	1770	10.03	2185	15.89	2553	22.11	2879	28.55	3171	35.21										
5600	6292	1546	8.06	1636	9.12	1721	10.22	1803	11.37	1883	12.55	2264	18.90	2615	25.71	2932	32.76	3220	39.98										
6200	6966	1692	10.68	1776	11.84	1854	13.04	1930	14.28	2003	15.55	2355	22.37	2685	29.73	2991	37.38	3273	45.22										

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRW 261

WHEEL DIAMETER 26.125 IN.
 MAX WHEEL SPEED Class 30 - 2850 RPM

STATIC PRESSURE (in. WG)																					
		1		2		3		4		5		10		15		20		25		30	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1013	543	0.34	746	0.72	903	1.17	1038	1.70	1156	2.28	1626	5.98	1989	10.70	2295	16.25	2565	22.53	2809	29.46
1600	1350	564	0.46	763	0.90	918	1.40	1051	1.95	1168	2.56	1633	6.35	1994	11.14	2299	16.76	2568	23.10	2812	30.08
2000	1688	590	0.62	783	1.13	936	1.69	1067	2.29	1183	2.93	1643	6.84	2001	11.72	2305	17.42	2573	23.83	2816	30.88
2400	2025	624	0.82	805	1.41	956	2.04	1085	2.70	1200	3.39	1656	7.48	2011	12.47	2313	18.26	2580	24.74	2822	31.86
2800	2363	665	1.07	832	1.73	978	2.44	1105	3.17	1219	3.93	1672	8.24	2024	13.38	2323	19.28	2589	25.86	2829	33.06
3200	2700	712	1.37	864	2.11	1003	2.89	1127	3.71	1240	4.54	1689	9.12	2038	14.45	2336	20.49	2599	27.18	2839	34.49
3600	3038	763	1.75	902	2.55	1032	3.41	1152	4.30	1262	5.22	1707	10.13	2055	15.68	2350	21.89	2612	28.73	2850	36.15
4000	3376	817	2.21	945	3.07	1066	4.00	1180	4.97	1286	5.96	1726	11.23	2072	17.05	2366	23.47	2626	30.48		
4400	3713	873	2.75	991	3.67	1104	4.67	1212	5.71	1314	6.79	1746	12.44	2090	18.57	2383	25.23	2642	32.43		
4800	4051	931	3.39	1041	4.38	1146	5.43	1247	6.54	1345	7.69	1768	13.75	2109	20.21	2400	27.15	2659	34.58		
5200	4388	990	4.14	1093	5.18	1192	6.30	1287	7.48	1379	8.70	1791	15.15	2129	21.98	2419	29.22	2676	36.91		
5600	4726	1050	5.00	1148	6.10	1240	7.28	1330	8.52	1417	9.81	1815	16.65	2150	23.87	2438	31.45	2695	39.43		
6000	5063	1111	5.97	1203	7.15	1291	8.39	1375	9.69	1458	11.04	1842	18.25	2172	25.88	2458	33.82	2713	42.11		
6400	5401	1173	7.08	1260	8.32	1343	9.62	1424	10.98	1502	12.40	1871	19.97	2195	28.00	2479	36.33	2733	44.96		

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRW 296

WHEEL DIAMETER 29.625 IN.
 MAX WHEEL SPEED Class 30 - 2515 RPM

STATIC PRESSURE (in. WG)																					
		1		2		3		4		5		10		15		20		25		30	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	972	470	0.40	647	0.84	785	1.36	903	1.93	1006	2.55	1414	6.25	1728	10.75	1992	15.88	2225	21.55	2436	27.73
2000	1296	491	0.55	661	1.07	796	1.65	912	2.29	1015	2.97	1421	7.02	1734	11.85	1998	17.33	2231	23.36	2442	29.88
2500	1620	516	0.74	680	1.34	811	2.00	925	2.70	1026	3.46	1429	7.83	1742	13.01	2005	18.83	2238	25.20	2448	32.06
3000	1944	545	0.97	702	1.67	830	2.41	940	3.19	1040	4.01	1439	8.72	1750	14.23	2013	20.39	2245	27.10	2455	34.30
3500	2268	575	1.24	728	2.06	852	2.89	960	3.75	1057	4.65	1450	9.70	1759	15.55	2021	22.03	2253	29.09	2462	36.62
4000	2592	607	1.56	756	2.50	877	3.44	982	4.39	1076	5.37	1463	10.79	1769	16.96	2030	23.79	2261	31.16	2470	39.04
4500	2916	642	1.94	785	3.00	904	4.06	1006	5.11	1099	6.19	1479	11.98	1781	18.50	2041	25.65	2270	33.37	2479	41.58
5500	3564	724	2.97	848	4.19	961	5.50	1060	6.79	1150	8.08	1516	14.72	1811	21.96	2065	29.80	2292	38.18	2499	47.07
6500	4213	819	4.47	918	5.72	1023	7.24	1119	8.79	1206	10.32	1560	17.97	1847	26.01	2096	34.57	2319	43.64		
7500	4861	921	6.52	999	7.74	1090	9.36	1181	11.13	1265	12.92	1611	21.71	1890	30.66	2132	40.01	2351	49.81		
8500	5509	1027	9.19	1090	10.40	1167	12.01	1248	13.91	1328	15.92	1666	25.96	1937	35.92	2175	46.15	2389	56.75		
9500	6157	1136	12.56	1188	13.77	1252	15.36	1322	17.28	1395	19.42	1723	30.70	1990	41.80	2222	53.00	2431	64.46		
10500	6805	1246	16.71	1291	17.94	1344	19.51	1404	21.41	1469	23.59	1783	35.95	2045	48.29	2273	60.57	2478	72.99		

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

PERFORMANCE DATA

IRW 330

WHEEL DIAMETER 33 IN.
 MAX WHEEL SPEED Class 30 - 2250 RPM

STATIC PRESSURE (in. WG)																					
		1		2		3		4		5		10		15		20		25		30	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2000	1042	426	0.5	583	1.1	707	1.8	812	2.5	905	3.3	1271	8.0	1552	13.6	1790	20.1	1999	27.3	2188	35.0
2500	1303	441	0.7	594	1.3	715	2.1	819	2.9	912	3.7	1276	8.7	1557	14.8	1794	21.6	2003	29.1	2192	37.2
3000	1563	460	0.9	607	1.6	726	2.4	828	3.3	919	4.2	1282	9.6	1562	15.9	1799	23.1	2008	30.9	2197	39.3
3500	1824	480	1.1	623	1.9	738	2.8	839	3.7	929	4.7	1289	10.4	1568	17.1	1804	24.6	2013	32.8	2202	41.6
4000	2084	501	1.4	641	2.3	753	3.2	852	4.3	940	5.3	1296	11.4	1574	18.4	1810	26.2	2018	34.7	2207	43.8
4500	2345	523	1.6	660	2.7	770	3.8	866	4.9	953	6.0	1305	12.4	1581	19.7	1816	27.9	2024	36.7	2212	46.2
5000	2606	546	2.0	680	3.1	788	4.3	882	5.5	967	6.7	1314	13.5	1589	21.2	1823	29.7	2030	38.8	2218	48.6
5500	2866	572	2.3	701	3.6	808	4.9	900	6.2	984	7.5	1325	14.7	1598	22.7	1830	31.5	2037	41.0	2224	51.2
6000	3127	599	2.8	723	4.2	828	5.6	919	7.0	1001	8.4	1338	15.9	1607	24.3	1839	33.5	2044	43.3	2231	53.8
7000	3648	661	3.9	769	5.4	871	7.1	959	8.8	1039	10.4	1366	18.8	1630	27.9	1858	37.8	2061	48.3	2246	59.4
8000	4169	730	5.4	821	7.0	915	8.9	1002	10.8	1080	12.7	1399	22.1	1656	32.0	1880	42.6	2080	53.8		
9000	4690	804	7.4	878	8.9	963	10.9	1046	13.0	1122	15.2	1435	25.7	1686	36.5	1906	47.9	2103	59.8		
10000	5211	880	9.8	942	11.4	1016	13.4	1093	15.7	1167	18.0	1473	29.8	1720	41.6	1935	53.8	2129	66.5		
11000	5732	957	12.8	1010	14.3	1074	16.3	1144	18.7	1213	21.3	1514	34.3	1756	47.2	1967	60.3	2158	73.8		
12000	6253	1036	16.4	1082	17.9	1137	19.9	1199	22.3	1263	24.9	1556	39.2	1794	53.2	2002	67.3	2189	81.7		
13000	6774	1116	20.6	1157	22.1	1205	24.1	1259	26.4	1317	29.2	1599	44.4	1835	59.7	2039	74.9	2224	90.3		

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

IRW 365

WHEEL DIAMETER 36.5 IN.
 MAX WHEEL SPEED Class 30 - 2050 RPM

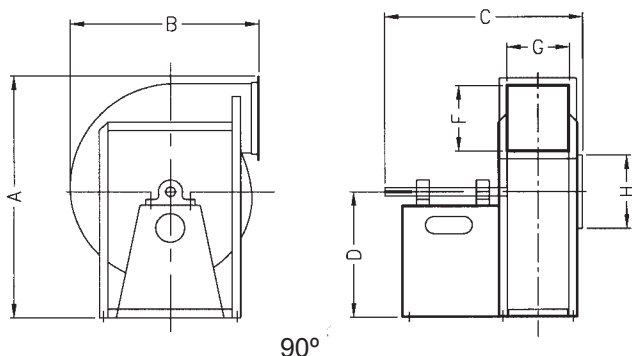
STATIC PRESSURE (in. WG)																					
		1		2		3		4		5		10		15		20		25		30	
CFM	OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	1276	397	0.8	536	1.6	646	2.5	740	3.4	823	4.5	1153	10.6	1407	17.9	1622	26.2	1811	35.3	1981	45.2
4000	1701	425	1.2	556	2.2	662	3.2	754	4.3	836	5.5	1162	12.2	1415	20.2	1629	29.2	1818	39.0	1988	49.6
5000	2127	456	1.7	582	2.9	684	4.1	772	5.3	852	6.6	1173	14.1	1424	22.8	1637	32.4	1826	42.9	1996	54.1
6000	2552	490	2.3	611	3.7	710	5.1	795	6.6	872	8.1	1187	16.2	1435	25.5	1647	35.9	1835	47.0	2004	58.9
7000	2977	528	3.1	643	4.7	738	6.4	821	8.0	896	9.7	1203	18.6	1448	28.6	1658	39.6	1845	51.4	2014	64.0
8000	3403	571	4.1	676	5.9	769	7.8	850	9.7	923	11.6	1223	21.3	1464	32.1	1671	43.7	1856	56.2	2024	69.5
9000	3828	620	5.4	712	7.3	801	9.4	881	11.6	952	13.7	1245	24.4	1482	35.9	1686	48.2	1869	61.4	2036	75.3
10000	4254	672	7.0	751	8.9	835	11.2	912	13.6	983	16.0	1270	27.7	1502	40.1	1703	53.2	1884	67.0	2050	81.6
11000	4679	726	9.0	794	10.9	871	13.3	945	15.9	1014	18.6	1297	31.5	1524	44.7	1723	58.5	1901	73.1		
12000	5104	782	11.4	840	13.3	909	15.7	980	18.5	1047	21.4	1325	35.5	1549	49.7	1744	64.4	1920	79.7		
13000	5530	839	14.2	890	16.1	951	18.5	1016	21.4	1081	24.5	1355	39.8	1575	55.1	1767	70.7	1941	86.9		
14000	5955	897	17.5	942	19.4	996	21.8	1056	24.7	1117	27.9	1385	44.5	1603	60.9	1792	77.5	1963	94.5		
15000	6380	956	21.3	996	23.2	1044	25.6	1098	28.5	1154	31.8	1417	49.5	1632	67.1	1819	84.7	1987	102.6		
16000	6806	1015	25.6	1051	27.5	1094	29.9	1142	32.8	1194	36.1	1449	54.9	1662	73.7	1846	92.4	2013	111.3		

Performance shown is for arrangement 1 fans with outlet duct and with inlet bell. BHP does not include drive losses.

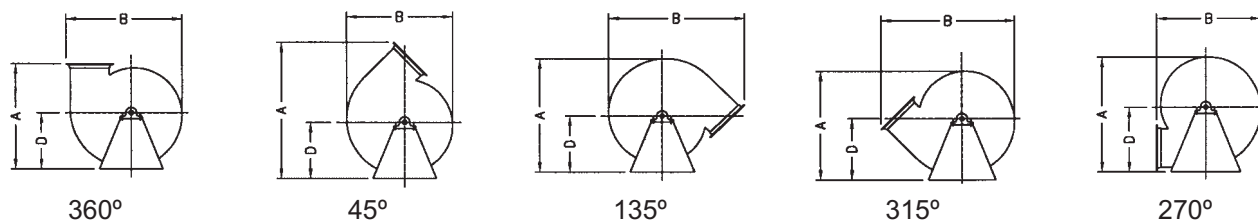
DIMENSIONAL DATA

Sizes 122 - 852 IE

Arrangements 1 and 9, Clockwise 90° (top horizontal) Shown Below



Angular Discharge Dimensions, (viewed from drive side)



SIZE	A						B				C	D				F	G	H
	45	90	135	270	315	360	45	270	315	360		90	360	270	135			
122	31	28	28	26	26	25	21	20	25	22	26	16	16	16	6 13/16	5 7/8	7	
156	37	34	33	32	31	31	26	25	31	27	28	19	19	19	8 5/8	7 1/2	9	
191	44	40	39	37	36	36	31	30	38	33	39	22	22	22	10 9/16	9 3/8	11	
226	51	46	45	43	42	41	36	35	44	39	44	25	25	25	12 7/16	11	13 1/4	
261	59	53	52	49	48	48	40	40	51	44	48	29	29	29	14 5/16	12 5/8	15 1/4	
296	66	59	58	55	53	53	47	45	57	49	51	32	32	32	16 1/4	14 3/8	17 1/4	
330	72	65	63	60	59	58	52	50	63	55	54	35	35	35	18 1/16	16	19 1/4	
365	81	74	72	68	66	64	57	53	68	60	58	40 1/2	40 1/2	40 1/2	20	17 5/8	21 1/4	
400	88	80	78	74	72	70	62	59	75	66	60	43 1/2	43 1/2	43 1/2	22	19 1/4	23 3/8	
451	97	89	86	81	79	77	69	66	83	74	66	47 1/2	47 1/2	47 1/2	24	21 3/4	26 3/8	
505	104	98	95	90	88	85	77	73	90	82	69	52 1/2	52 1/2	52 1/2	27 11/16	24 1/4	29 3/8	
575	115	100	98	100	98	90	88	83	105	93	77	48 1/2	53	58 1/2	31 1/2	27 3/4	33 3/8	
643	127	111	108	111	109	100	99	92	118	104	82	53 1/2	58 1/2	64 1/2	35 3/16	31	37 1/2	
712	142	122	119	122	119	110	109	104	132	115	90	58 1/2	64	70 1/2	38 15/16	34 3/8	41 1/2	
782	154	133	130	133	131	119	119	112	145	126	99	63 1/2	69	77	42 3/4	37 3/4	45 1/2	
852	166	144	140	144	141	129	130	122	156	137	107	68 1/2	74 1/2	83	46 5/8	41 1/4	49 1/2	

- Columns A, B, and C have been rounded up to the nearest 1". Dimensions F, G and H, are outside dimensions. Dimension C is max from all available construction classes.
- All dimensions shown on this and other pages are for general information only and should not be used for precise construction/installation purposes. Only prints marked certified should be used for this purpose. All fans are shown in clockwise rotation (as viewed from side opposite fan inlet) and are viewed from the drive side of fan. Counter clockwise fans are dimensionally equal but viewed in a mirror image.
- Due to continuous product improvement at Air Tech, dimensions are subject to change. For more complete dimensional information, refer to the applicable Air Tech submittal drawing.

QUICK REFERENCE CHECK LIST

In the attempt to ensure the proper selection and application of the fan, we would like to offer the following table to assist in the process. Make sure you address each of the following items as a valuable check list.

- 1) **Fan Type**
- 2) **Fan Size**
- 3) **Construction Class of Fan**
- 4) **Discharge Position**
- 5) **Wheel Rotation** (*CW or CCW*)
- 6) **Fan Arrangement**
- 7) **Motor Location** (*Arr. 1, 3, and 9*)
- 8) **Performance Requirements**
 - a. CFM
 - b. SP
 - c. Fan RPM
 - d. BHP
 - e. Temperature
 - f. Air Density
- 9) **Motor Requirements**
 - a. Motor HP
 - b. Motor RPM
 - c. Enclosure Type
 - d. Voltage/Phase/Cycle
 - e. Motor Frame Limitations (*Arr. 9*)
- 10) **V-Belt Drive**
 - a. Constant or Variable Speed
 - b. Service Factor
- 11) **Accessories** (*List Accessories Required*)
 - a. Access Doors bolted or hinged-flush or raised-location
 - b. Belt Guard, three sided or totally enclosed
 - c. Companion Inlet Flange
 - d. Drain
 - e. Extended Lube Lines
 - f. High Temp. Package
 - g. Inlet and Outlet Screens
 - h. Inlet Flange
 - i. Outlet Flange
 - j. Outlet Damper, Opposed Blade or Parallel Blade
 - k. Shaft Cooler
 - l. Shaft Guard
 - m. Shaft Seal
 - n. Spark Resistant Construction (*type A, B or C*)
 - o. Special Protective Coatings
 - p. Split Housing
 - q. Unitary and Inertia Bases
 - r. Variable Inlet Vane (*VIV*)
 - s. Vibration Isolators (*RIS or Springs*)
 - t. Weathercover

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