



3820-TRC

1,500 to 2,500 CFM

May, 2003

SUPPLY FAN PERFORMANCE AND MOTOR SELECTION GUIDE

(Intersect CFM with external static pressure to determine fan h.p.)

CFM	OUTLET VEL. FPM		0.5 ESP	1.0 ESP	1.5 ESP	2.0 ESP	2.5 ESP	3.0 ESP	3.5 ESP
1500	1430	RPM	1853	2000	2141	2278	N/A	N/A	N/A
		BHP	0.75	0.93	1.12	1.32			
		hp	1	1.5	1.5	2			
1750	1668	RPM	2180	2306	2428	2548	2665	N/A	N/A
		BHP	1.23	1.43	1.65	1.87	2.11		
		hp	1.5	2	2	3	3		
2000	1907	RPM	2360	2475	2585	2694	2800	N/A	N/A
		BHP	1.57	1.8	2.03	2.27	2.52		
		hp	2	3	3	3	3		
2250	2145	RPM	2600	2704	2805	N/A	N/A	N/A	N/A
		BHP	2.11	2.36	2.61				
		hp	3	3	5				
2500	2383	RPM	2746	2845	N/A	N/A	N/A	N/A	N/A
		BHP	2.51	2.78					
		hp	3	5					

EXHAUST FAN PERFORMANCE AND MOTOR SELECTION GUIDE

(Intersect CFM with external static pressure to determine fan h.p.)

CFM	OUTLET VEL. FPM		0.5 ESP	1.0 ESP	1.5 ESP	2.0 ESP	2.5 ESP	3.0 ESP	3.5 ESP
1500	1430	RPM	1597	1761	1913	2057	2196	N/A	N/A
		BHP	0.5	0.65	0.82	1	1.2		
		hp	1	1	1	1.5	2		
1750	1668	RPM	1757	1907	2047	2178	2303	2426	2546
		BHP	0.67	0.84	1.03	1.22	1.43	1.64	1.87
		hp	1	1	1.5	1.5	2	2	3
2000	1907	RPM	1928	2066	2195	2317	2434	2546	2655
		BHP	0.98	1.08	1.28	1.49	1.71	1.94	2.18
		hp	1.5	1.5	1.5	2	2	3	3
2250	2145	RPM	2092	2220	2341	2455	2565	2671	2773
		BHP	1.13	1.35	1.57	1.8	2.03	2.28	2.53
		hp	1.5	2	2	3	3	3	3
2500	2383	RPM	2269	2388	2502	2609	2712	2812	N/A
		BHP	1.45	1.69	1.93	2.18	2.43	2.69	
		hp	2	2	3	3	3	5	

FAN MOTOR AMP DRAW CHART

hp	208	240	480
1	3.1	3.0	1.5
1-1/2	4.5	4.4	2.2
2	6.0	5.9	3.0
3	8.6	8.4	4.2
5	14.0	12.7	6.4

WHEEL MOTOR AMP DRAW CHART

	208	240	480
1/4 hp	1.0	1.0	0.5

ACCESSORIES AMP DRAW CHART

	208	240	480
Enthalpy Wheel Rotation Detection	0.20	0.20	0.10
Damper Motor (ea.)	0.75	0.75	0.50
Radiant Defrost Heater Pkg. (ea.)	4.57	3.95	1.97
TRICOIL Pump Motor	2.00	2.00	1.00
Hot Water Modulating Ball-Valve	0.20	0.20	0.10
Temperature Sensor (ea.)	0.50	0.50	0.25
Lights and Receptical	12.00	12.00	6.00
Variable Frequency Drive for Fan (ea.)	0.50	0.50	0.25
Variable Frequency Drive for TRICOIL	0.25	0.25	0.15

Performance numbers are based on optimum conditions. Consult factory for precise performance.

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