CORRECTION FACTORS BY HEIGHT and TEMPERATURE DIFFERENCES

Characteristic curves as contained in the fan catalogues are prepared according to a temperature of 200°C and the standard air density (1.204 kg/m^3) at sea level (normal conditions). Fan characteristic curves provide the necessary rpm and power required to satisfy the desired flow rate and static pressure at standard air density.

If operation under normal conditions is not involved, the performance values required of fans (flow rate and pressure values) should be turned to normal conditions and only then use should be made of characteristic curves. Performance correction factors by height and temperature are given in the following table.

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CORRECTION FACTORS DUE TO FOR ALTITUDE AND TEMPERATURE

TEMPERATURE (°C)	ALTITUDE (m)												
°C	0	150	300	450	600	750	900	1050	1200	1350	1500	1800	2100
0	0,930	0,950	0,970	0,985	1,000	1,020	1,045	1,060	1,080	1,100	1,120	1,165	1,210
10	0,900	0,980	1,000	1,020	1,040	1,060	1,080	1,100	1,120	1,140	1,160	1,210	1,250
20	1,000	1,020	1,035	1,055	1,075	1,095	1,120	1,140	1,160	1,180	1,200	1,250	1,300
30	1,030	1,050	1,070	1,095	1,110	1,130	1,160	1,180	1,200	1,220	1,245	1,290	1,350
40	1,065	1,085	1,110	1,130	1,150	1,170	1,195	1,220	1,240	1,260	1,285	1,335	1,385
50	1,100	1,125	1,145	1,165	1,187	1,210	1,235	1,225	1,280	1,300	1,325	1,380	1,430
60	1,130	1,155	1,180	1,200	1,223	1,245	1,275	1,293	1,320	1,340	1,370	1,420	1,475
70	1,165	1,190	1,215	1,235	1,260	1,283	1,310	1,330	1,360	1,380	1,410	1,465	1,520
80	1,200	1,220	1,250	1,270	1,297	1,320	1,350	1,370	1,400	1,420	1,450	1,510	1,560
90	1,230	1,260	1,285	1,310	1,330	1,360	1,390	1,410	1,440	1,460	1,490	1,550	1,610
100	1,267	1,295	1,320	1,345	1,370	1,396	1,425	1,450	1,475	1,500	1,534	1,594	1,650
125	1,350	1.380	1,410	1,435	1,460	1,490	1,520	1,550	1,580	1,610	1,640	1,700	1,765
150	1,440	1,470	1,495	1,525	1,554	1,585	1,615	1,645	1,675	1,705	1,740	1,805	1,870
175	1,520	1.550	1,585	1,615	1,645	1,680	1,710	1,740	1,775	1,810	1,840	1,910	1,980
200	1,610	1,640	1,670	1,705	1,740	1,770	1,805	1,835	1,870	1,905	1,940	2,020	2,095
225	1,690	1.730	1,760	1,800	1,830	1,865	1,900	1,935	1,970	2,010	2,045	2,130	2,210
250	1,780	1,815	1,850	1,885	1,920	1,960	1,995	2,030	2,070	2,110	2,146	2,235	2,320
275	1,860	1,905	1,935	1,975	2,010	2,050	2,090	2,125	2,170	2,210	2,250	2,340	2,430
300	1,950	1,990	2,025	2,065	2,100	2,150	2,185	2,225	2,265	2,310	2,350	2,450	2,540
350	2,120	2,165	2,200	2,245	2,290	2,335	2,376	2,420	2,460	2,510	2,550	2,660	2,760
400	2,290	2,340	2,380	2,425	2,470	2,520	2,570	2,615	2,660	2,710	2,760	2,875	2,980
450	2,460	2,510	2,560	2,605	2,650	2,710	2,760	2,810	2,855	2,910	2,960	3,085	3,200
500	2,630	2,685	2,730	2,780	2,835	2,900	2,945	3,000	3,050	3,110	3,170	3,290	3,425

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