

**SUPRASPEED® RCF CHART**

These tables give the maximum RCF in *g* for all currently available SORVALL® rotors for SUPRASPEED® applications up to 28,000 rpm.

To find the average or minimum RCF, consult your rotor instruction manual for the average or minimum radius, and use the formula given below:

$$K = [2.53 \times 10^{11} \ln (R_{\max}/R_{\min})] / (\text{rpm})^2 \quad \text{RCF} = 11.17r (\text{rpm}/1000)^2 \quad \text{where } r = \text{radius in centimeters}$$

	FIXED-ANGLE				SWINGING-BUCKET		
ROTOR: RADIUS, max. cm :	F-28/50	F-28/36	F-28/13	F-16/250	S-20/17	S-20/20	S-20/36
RPM	RCF						
5,000	3,203	3,192	3,192	3,798	4,633	3,611	4,496
5,500	3,876	3,862	3,862	4,595	5,606	4,369	5,440
6,000	4,612	4,596	4,596	5,469	6,671	5,199	6,474
6,500	5,413	5,394	5,394	6,418	7,829	6,102	7,598
7,000	6,278	6,256	6,256	7,444	9,080	7,077	8,812
7,500	7,207	7,182	7,182	8,545	10,424	8,124	10,116
8,000	8,200	8,171	8,171	9,722	11,860	9,243	11,510
8,500	9,257	9,224	9,224	10,976	13,389	10,435	12,993
9,000	10,378	10,342	10,342	12,305	15,010	11,699	14,567
9,500	11,563	11,522	11,522	13,710	16,724	13,035	16,230
10,000	12,812	12,767	12,767	15,191	18,531	14,443	17,984
10,500	14,125	14,076	14,076	16,748	20,430	15,923	19,827
11,000	15,503	15,448	15,448	18,381	22,423	17,476	21,760
11,500	16,944	16,885	16,885	20,090	24,507	19,101	23,783
12,000	18,449	18,385	18,385	21,875	26,685	20,798	25,897
12,500	20,019	19,949	19,949	23,736	28,955	22,567	28,100
13,000	21,652	21,577	21,577	25,673	31,317	24,408	30,392
13,500	23,350	23,268	23,268	27,686	33,773	26,322	32,775
14,000	25,112	25,024	25,024	29,775	36,321	28,308	35,248
14,500	26,937	26,843	26,843	31,939	38,961	30,366	37,811
15,000	28,827	28,726	28,726	34,180	41,695	32,496	40,463
15,500	30,781	30,673	30,673	36,497	44,521	34,699	43,206
16,000	32,799	32,684	32,684	38,889	47,439	36,974	46,038
16,500	34,881	34,759	34,759	K = 1,295	50,451	39,321	48,961
17,000	37,027	36,898	36,898		53,555	41,740	51,973
17,500	39,237	39,100	39,100		56,751	44,231	55,075
18,000	41,511	41,366	41,366		60,041	46,795	58,267
18,500	43,849	43,696	43,696		63,422	49,431	61,549
19,000	46,251	46,090	46,090		66,897	52,139	64,921
19,500	48,718	48,548	48,548		70,464	54,919	68,383
20,000	51,248	51,069	51,069		74,124	57,771	71,935
20,500	53,842	53,655	53,655		K = 598	K = 369	K = 508
21,000	56,501	56,304	56,304				
21,500	59,223	59,017	59,017				
22,000	62,010	61,794	61,794				
22,500	64,861	64,635	64,635				
23,000	67,775	67,539	67,539				
23,500	70,754	70,507	70,507				
24,000	73,797	73,540	73,540				
24,500	76,904	76,636	76,636				
25,000	80,075	79,796	79,796				
25,500	83,310	83,019	83,019				
26,000	86,609	86,307	86,307				
26,500	89,972	89,658	89,658				
27,000	93,399	93,074	93,074				
27,500	96,891	96,553	96,553				
28,000	100,446	100,096	100,096				
	K = 337	K = 198	K = 143				

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