

# Ultracentrifuge Rotor RCF Guide

| Rotor Radius | T-8100   | T-890    | TFT-80.4 | TFT-80.2 | T-1270   | T-865    | T-1250   | T-647.5 | TFT-45.6 | TFT-45.6       | A-621           |      |
|--------------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------------|-----------------|------|
| Fixed Angle  |          |          |          |          |          |          |          |         |          |                |                 |      |
| Rotor Radius | 7.18     |          | 7.65     | 6.55     | 6.01     | 8.20     | 9.10     | 10.78   | 9.93     | Inner Row 9.03 | Outer Row 10.56 | 13.6 |
| max cm       |          |          |          |          |          |          |          |         |          |                |                 |      |
| 5,000        | 2,005    | 2,136    | 1,829    | 1,678    | 2,290    | 2,541    | 3,010    | 2,773   | 2522     | 2,949          | 3,798           |      |
| 10,000       | 8,020    | 8,545    | 7,316    | 6,713    | 9,159    | 10,165   | 12,041   | 11,092  | 10087    | 11,796         | 15,191          |      |
| 15,000       | 18,045   | 19,226   | 16,462   | 15,105   | 20,609   | 22,871   | 27,093   | 24,957  | 22695    | 26,540         | 34,180          |      |
| 20,000       | 32,080   | 34,180   | 29,265   | 26,853   | 36,638   | 40,659   | 48,165   | 44,367  | 40346    | 47,182         | 60,765          |      |
| 21,000       | 35,368   | 37,684   | 32,265   | 29,605   | 40,393   | 44,826   | 53,102   | 48,915  | 44482    | 52,018         | 66,993          |      |
| 25,000       | 50,125   | 53,407   | 45,727   | 41,957   | 57,246   | 63,529   | 75,258   | 69,324  | 63041    | 73,722         | K = 751         |      |
| 27,000       | 58,466   | 62,293   | 53,336   | 48,939   | 66,772   | 74,101   | 87,781   | 80,859  | 73531    | 85,989         |                 |      |
| 28,000       | 62,877   | 66,993   | 57,360   | 52,631   | 71,810   | 79,691   | 94,403   | 86,960  | 79078    | 92,477         |                 |      |
| 29,000       | 67,449   | 71,864   | 61,531   | 56,458   | 77,031   | 85,485   | 101,267  | 93,282  | 84828    | 99,200         |                 |      |
| 30,000       | 72,181   | 76,905   | 65,847   | 60,419   | 82,435   | 91,482   | 108,371  | 99,826  | 90779    | 106,160        |                 |      |
| 32,000       | 82,125   | 87,501   | 74,919   | 68,743   | 93,792   | 104,087  | 123,303  | 113,580 | 103286   | 120,786        |                 |      |
| 34,000       | 92,712   | 98,781   | 84,577   | 77,604   | 105,883  | 117,504  | 139,197  | 128,221 | 116600   | 136,356        |                 |      |
| 36,000       | 103,940  | 110,744  | 94,820   | 87,003   | 118,706  | 131,735  | 156,055  | 143,750 | 130721   | 152,870        |                 |      |
| 38,000       | 115,810  | 123,391  | 105,648  | 96,938   | 132,262  | 146,778  | 173,876  | 160,166 | 145649   | 170,327        |                 |      |
| 40,000       | 128,321  | 136,721  | 117,062  | 107,411  | 146,550  | 162,635  | 192,660  | 177,469 | 161384   | 188,728        |                 |      |
| 41,000       | 134,817  | 143,642  | 122,988  | 112,848  | 153,970  | 170,869  | 202,414  | 186,453 | 169554   | 198,283        |                 |      |
| 42,000       | 141,474  | 150,735  | 129,060  | 118,420  | 161,572  | 179,305  | 212,408  | 195,660 | 177926   | 208,073        |                 |      |
| 44,000       | 155,268  | 165,432  | 141,645  | 129,967  | 177,326  | 196,789  | 233,119  | 214,737 | 195275   | 228,361        |                 |      |
| 45,000       | 162,406  | 173,037  | 148,156  | 135,942  | 185,478  | 205,835  | 243,836  | 224,609 | 204252   | 238,859        |                 |      |
| 46,000       | 169,704  | 180,813  | 154,814  | 142,051  | 193,813  | 215,085  | 254,793  | 234,703 | K = 49.6 | K = 41.1       |                 |      |
| 47,500       | 180,953  | 192,798  | 165,075  | 151,466  | 206,659  | 229,341  | 271,681  | 250,259 |          |                |                 |      |
| 48,000       | 184,782  | 196,878  | 168,569  | 154,671  | 211,033  | 234,195  | 277,431  | K = 121 |          |                |                 |      |
| 50,000       | 200,502  | 213,626  | 182,909  | 167,829  | 228,985  | 254,118  | 301,032  |         |          |                |                 |      |
| 52,000       | 216,862  | 231,058  | 197,834  | 181,524  | 247,670  | 274,853  | K = 68.7 |         |          |                |                 |      |
| 54,000       | 233,865  | 249,174  | 213,345  | 195,756  | 267,088  | 296,403  |          |         |          |                |                 |      |
| 56,000       | 251,509  | 267,973  | 229,441  | 210,525  | 287,239  | 318,765  |          |         |          |                |                 |      |
| 58,000       | 269,795  | 287,455  | 246,122  | 225,831  | 308,122  | 341,941  |          |         |          |                |                 |      |
| 60,000       | 288,722  | 307,622  | 263,389  | 241,674  | 329,738  | 365,929  |          |         |          |                |                 |      |
| 62,000       | 308,291  | 328,472  | 281,240  | 258,054  | 352,087  | 390,731  |          |         |          |                |                 |      |
| 64,000       | 328,502  | 350,005  | 299,678  | 274,971  | 375,169  | 416,346  |          |         |          |                |                 |      |
| 65,000       | 338,848  | 361,028  | 309,116  | 283,631  | 386,985  | 429,459  |          |         |          |                |                 |      |
| 66,000       | 349,354  | 372,222  | 318,700  | 292,426  | 398,983  | K = 51.7 |          |         |          |                |                 |      |
| 67,000       | 360,020  | 383,587  | 328,431  | 301,354  | 411,165  |          |          |         |          |                |                 |      |
| 68,000       | 370,848  | 395,123  | 338,308  | 310,417  | 423,531  |          |          |         |          |                |                 |      |
| 69,000       | 381,835  | 406,830  | 348,331  | 319,614  | 436,079  |          |          |         |          |                |                 |      |
| 70,000       | 392,983  | 418,707  | 358,501  | 328,945  | 448,811  |          |          |         |          |                |                 |      |
| 72,000       | 415,760  | 442,975  | 379,280  | 348,011  | K = 36.3 |          |          |         |          |                |                 |      |
| 74,000       | 439,178  | 467,927  | 400,643  | 367,613  |          |          |          |         |          |                |                 |      |
| 75,000       | 451,128  | 480,659  | 411,545  | 377,616  |          |          |          |         |          |                |                 |      |
| 76,000       | 463,239  | 493,562  | 422,592  | 387,753  |          |          |          |         |          |                |                 |      |
| 78,000       | 487,940  | 519,881  | 445,127  | 408,429  |          |          |          |         |          |                |                 |      |
| 80,000       | 513,284  | 546,883  | 468,246  | 429,643  |          |          |          |         |          |                |                 |      |
| 82,000       | 539,269  | 574,569  | K = 25.8 | K=22.6   |          |          |          |         |          |                |                 |      |
| 84,000       | 565,895  | 602,939  |          |          |          |          |          |         |          |                |                 |      |
| 86,000       | 593,164  | 631,992  |          |          |          |          |          |         |          |                |                 |      |
| 88,000       | 621,073  | 661,729  |          |          |          |          |          |         |          |                |                 |      |
| 90,000       | 649,625  | 692,149  |          |          |          |          |          |         |          |                |                 |      |
| 100000       | 802,006  | K = 25.1 |          |          |          |          |          |         |          |                |                 |      |
|              | K = 17.7 |          |          |          |          |          |          |         |          |                |                 |      |

# Ultracentrifuge Rotor RCF Guide (cont'd)

| Rotor Radius           | 70V6     | 65V13<br>13.5 ml | 65V13<br>6 ml | 50V39<br>39 ml | 50V39<br>13.5 ml | TV-1665         | TV-860   | TH-660   | AH-650   | TH-641  | Surespin<br>630/17 ml | Surespin<br>630/36 ml | AH-629<br>17 ml | AH-629<br>36 ml |
|------------------------|----------|------------------|---------------|----------------|------------------|-----------------|----------|----------|----------|---------|-----------------------|-----------------------|-----------------|-----------------|
|                        | Vertical |                  |               |                |                  | Swinging bucket |          |          |          |         |                       |                       |                 |                 |
| Rotor Radius<br>max cm | 8.54     | 8.49             | 8.33          | 8.66           | 8.19             | 8.78            | 8.47     | 12.15    | 10.60    | 15.32   | 16.60                 | 16.60                 | 16.60           | 16.60           |
| 5,000                  | 2,385    | 2,371            | 2,326         | 2,418          | 2,287            | 2,452           | 2,365    | 3,393    | 2,960    | 4,278   | 4,636                 | 4,636                 | 4,636           | 4,636           |
| 10,000                 | 9,539    | 9,483            | 9,305         | 9,673          | 9,148            | 9,807           | 9,461    | 13,572   | 11,840   | 17,112  | 18,542                | 18,542                | 18,542          | 18,542          |
| 15,000                 | 21,463   | 21,337           | 20,935        | 21,765         | 20,584           | 22,066          | 21,287   | 30,536   | 26,640   | 38,503  | 41,720                | 41,720                | 41,720          | 41,720          |
| 20,000                 | 38,157   | 37,933           | 37,218        | 38,693         | 36,593           | 39,229          | 37,844   | 54,286   | 47,361   | 68,450  | 74,169                | 74,169                | 74,169          | 74,169          |
| 21,000                 | 42,068   | 41,821           | 41,033        | 42,659         | 40,344           | 43,250          | 41,723   | 59,851   | 52,215   | 75,466  | 81,771                | 81,771                | 81,771          | 81,771          |
| 25,000                 | 59,620   | 59,271           | 58,154        | 60,458         | 57,176           | 61,295          | 59,131   | 84,822   | 74,001   | 106,953 | 115,889               | 115,889               | 115,889         | 115,889         |
| 27,000                 | 69,541   | 69,133           | 67,831        | 70,518         | 66,691           | 71,495          | 68,971   | 98,937   | 86,315   | 124,750 | 135,173               | 135,173               | 135,173         | 135,173         |
| 28,000                 | 74,787   | 74,349           | 72,948        | 75,838         | 71,722           | 76,889          | 74,174   | 106,401  | 92,827   | 134,162 | 145,371               | 145,371               | 145,371         | 145,371         |
| 29,000                 | 80,225   | 79,755           | 78,252        | 81,352         | 76,937           | 82,479          | 79,567   | 114,137  | 99,576   | 143,916 | 155,940               | 155,940               | 155,940         | 155,940         |
| 30,000                 | 85,853   | 85,350           | 83,741        | 87,059         | 82,334           | 88,265          | 85,149   | 122,144  | 106,562  | 154,012 | 166,880               | 166,880               | K = 284         | K = 242         |
| 32,000                 | 97,681   | 97,109           | 95,279        | 99,054         | 93,678           | 100,426         | 96,881   | 138,973  | 121,244  | 175,231 | K = 268               | K = 219               |                 |                 |
| 34,000                 | 110,273  | 109,627          | 107,561       | 111,822        | 105,754          | 113,372         | 109,369  | 156,887  | 136,873  | 197,820 |                       |                       |                 |                 |
| 36,000                 | 123,628  | 122,904          | 120,588       | 125,365        | 118,561          | 127,102         | 122,614  | 175,887  | 153,449  | 221,777 |                       |                       |                 |                 |
| 38,000                 | 137,746  | 136,939          | 134,359       | 139,681        | 132,100          | 141,617         | 136,617  | 195,973  | 170,972  | 247,104 |                       |                       |                 |                 |
| 40,000                 | 152,627  | 151,733          | 148,874       | 154,772        | 146,372          | 156,916         | 151,376  | 217,145  | 189,443  | 273,799 |                       |                       |                 |                 |
| 41,000                 | 160,354  | 159,415          | 156,410       | 162,607        | 153,782          | 164,860         | 159,039  | 228,138  | 199,034  | 287,660 |                       |                       |                 |                 |
| 42,000                 | 168,271  | 167,286          | 164,133       | 170,636        | 161,375          | 173,000         | 166,892  | 239,402  | 208,861  | K = 114 |                       |                       |                 |                 |
| 44,000                 | 184,679  | 183,597          | 180,137       | 187,274        | 177,110          | 189,869         | 183,165  | 262,745  | 229,226  |         |                       |                       |                 |                 |
| 45,000                 | 193,168  | 192,037          | 188,418       | 195,883        | 185,252          | 198,597         | 191,585  | 274,824  | 239,764  |         |                       |                       |                 |                 |
| 46,000                 | 201,849  | 200,667          | 196,886       | 204,685        | 193,577          | 207,522         | 200,195  | 287,174  | 250,539  |         |                       |                       |                 |                 |
| 47,500                 | 215,228  | 213,968          | 209,935       | 218,252        | 206,407          | 221,276         | 213,464  | 306,208  | 267,145  |         |                       |                       |                 |                 |
| 48,000                 | 219,783  | 218,496          | 214,378       | 222,871        | 210,775          | 225,959         | 217,981  | 312,689  | 272,798  |         |                       |                       |                 |                 |
| 50,000                 | 238,480  | 237,083          | 232,615       | 241,831        | 228,706          | 245,182         | 236,525  | 339,289  | 296,005  |         |                       |                       |                 |                 |
| 52,000                 | 257,939  | 256,429          | 251,597       | K = 35.8       | K = 22.6         | 265,188         | 255,825  | 366,975  | K = 53.0 |         |                       |                       |                 |                 |
| 54,000                 | 278,162  | 276,534          | 271,322       |                |                  | 285,980         | 275,882  | 395,746  |          |         |                       |                       |                 |                 |
| 56,000                 | 299,149  | 297,397          | 291,793       |                |                  | 307,556         | 296,697  | 425,604  |          |         |                       |                       |                 |                 |
| 58,000                 | 320,898  | 319,019          | 313,007       |                |                  | 329,916         | 318,268  | 456,547  |          |         |                       |                       |                 |                 |
| 60,000                 | 343,410  | 341,400          | 334,966       |                |                  | 353,061         | 340,596  | 488,576  |          |         |                       |                       |                 |                 |
| 62,000                 | 366,686  | 364,539          | 357,669       |                |                  | 376,991         | K = 25.2 | K = 44.4 |          |         |                       |                       |                 |                 |
| 64,000                 | 390,725  | 388,437          | 381,117       |                |                  | 401,705         |          |          |          |         |                       |                       |                 |                 |
| 65,000                 | 403,030  | 400,671          | 393,120       |                |                  | 414,357         |          |          |          |         |                       |                       |                 |                 |
| 66,000                 | 415,527  | K = 12.9         | K = 10.3      |                |                  | K = 9.8         |          |          |          |         |                       |                       |                 |                 |
| 67,000                 | 428,214  |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |
| 68,000                 | 441,092  |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |
| 69,000                 | 454,160  |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |
| 70,000                 | 467,420  |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |
| 72,000                 | K = 8.7  |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |
| 74,000                 |          |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |
| 75,000                 |          |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |
| 76,000                 |          |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |
| 78,000                 |          |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |
| 80,000                 |          |                  |               |                |                  |                 |          |          |          |         |                       |                       |                 |                 |