



ROTARY AIRLOCK CAPACITY TABLES

| Size | CFR | 100% CAPACITY IN CUBIC FEET / HOUR | | | | | | | | | | | | | | |
|---------------------------|-------|------------------------------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | | 341 | 682 | 1364 | 2046 | 2728 | 3410 | 4092 | 4774 | 5456 | 6138 | 6820 | 7502 | 8184 | 8865 | |
| 24 | 5.683 | 341 | 682 | 1364 | 2046 | 2728 | 3410 | 4092 | 4774 | 5456 | 6138 | 6820 | 7502 | 8184 | 8865 | |
| 20 | 3.233 | 194 | 388 | 776 | 1164 | 1552 | 1940 | 2328 | 2716 | 3104 | 3492 | 3880 | 4268 | 4656 | 5043 | |
| 18 | 2.333 | 140 | 280 | 560 | 840 | 1120 | 1400 | 1680 | 1960 | 2240 | 2520 | 2800 | 3080 | 3360 | 3639 | |
| 16 | 1.667 | 100 | 200 | 400 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2601 | |
| 14 | 1.017 | 61 | 122 | 244 | 366 | 488 | 610 | 732 | 854 | 976 | 1098 | 1220 | 1342 | 1464 | 1587 | |
| 12 | 0.700 | 42 | 84 | 168 | 252 | 336 | 420 | 504 | 588 | 672 | 756 | 840 | 924 | 1008 | 1092 | |
| 10 | 0.380 | 23 | 46 | 91 | 137 | 182 | 228 | 274 | 319 | 365 | 410 | 456 | 502 | 547 | 593 | |
| 8 | 0.190 | 11 | 23 | 46 | 68 | 91 | 114 | 137 | 160 | 182 | 205 | 228 | 251 | 274 | 296 | |
| 6 | 0.069 | 4 | 8 | 17 | 25 | 33 | 41 | 50 | 58 | 66 | 75 | 83 | 91 | 99 | 108 | |
| 5 | 0.039 | 2 | 5 | 9 | 14 | 19 | 23 | 28 | 33 | 37 | 42 | 47 | 51 | 56 | 61 | |
| | | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | |
| ROTOR SPEED IN RPM | | | | | | | | | | | | | | | | |

| Size | CFR | PRACTICAL CAPACITY PER EFFICIENCY | | | | | | | | | | | | | | |
|---------------------------|-------|-----------------------------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | | 100% | 100% | 100% | 98% | 95% | 90% | 88% | 86% | 84% | 81% | 78% | 74% | 71% | 68% | |
| 24 | 5.683 | 341 | 682 | 1364 | 2005 | 2591 | 3069 | 3601 | 4105 | 4583 | 4971 | 5319 | 5551 | 5810 | 6029 | |
| 20 | 3.233 | 194 | 388 | 776 | 1141 | 1474 | 1746 | 2048 | 2336 | 2607 | 2828 | 3026 | 3158 | 3305 | 3430 | |
| 18 | 2.333 | 140 | 280 | 560 | 823 | 1064 | 1260 | 1478 | 1685 | 1881 | 2041 | 2184 | 2279 | 2385 | 2475 | |
| 16 | 1.667 | 100 | 200 | 400 | 588 | 760 | 900 | 1056 | 1204 | 1344 | 1458 | 1560 | 1628 | 1704 | 1768 | |
| 14 | 1.017 | 61 | 122 | 244 | 359 | 464 | 549 | 644 | 735 | 820 | 890 | 952 | 993 | 1040 | 1079 | |
| 12 | 0.700 | 42 | 84 | 168 | 247 | 319 | 378 | 444 | 506 | 564 | 612 | 655 | 684 | 716 | 743 | |
| 10 | 0.380 | 23 | 46 | 91 | 134 | 173 | 205 | 241 | 275 | 306 | 332 | 356 | 371 | 389 | 403 | |
| 8 | 0.190 | 11 | 23 | 46 | 67 | 87 | 103 | 120 | 137 | 153 | 166 | 178 | 186 | 194 | 202 | |
| 6 | 0.069 | 4 | 8 | 17 | 24 | 31 | 37 | 44 | 50 | 56 | 60 | 65 | 67 | 71 | 73 | |
| 5 | 0.039 | 2 | 5 | 9 | 14 | 18 | 21 | 25 | 28 | 31 | 34 | 37 | 38 | 40 | 41 | |
| | | 1 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | |
| ROTOR SPEED IN RPM | | | | | | | | | | | | | | | | |

Notes:

1. The top chart is based on 100% pocket fill.
2. The bottom chart is based on an assumed fill efficiency as stated.
3. For products with very light bulk density (< 20 pcf), a lesser fill efficiency should be used.

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