# Performance Data Sheet

## RKA5515EXD

## General Information

| | | | |
|---|---|---|---|
| **Model** | RKA5515EXD | **Refrigerant** | R-22 |
| **Test Condition** | ASHRAE | **Performance Test Voltage** | 230V ~ 60HZ |
| **Return Gas** | 18.3°C (65°F) RETURN GAS | **Motor Type** | PSC |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 80 | 90 | 100 | 110 | 120 | 130 | 140 |
| -15 | Btu/h | 5700 | 5350 | | | | | |
| | Watts | 674 | 739 | | | | | |
| | Amps | 2.69 | 3.00 | | | | | |
| | Lb/h | 73.3 | 71.7 | | | | | |
| -10 | Btu/h | 6300 | 5920 | 5550 | | | | |
| | Watts | 690 | 759 | 828 | | | | |
| | Amps | 2.76 | 3.10 | 3.44 | | | | |
| | Lb/h | 80.6 | 78.9 | 77.1 | | | | |
| -5 | Btu/h | 7020 | 6600 | 6190 | 5800 | | | |
| | Watts | 706 | 779 | 853 | 927 | | | |
| | Amps | 2.83 | 3.20 | 3.56 | 3.94 | | | |
| | Lb/h | 89.2 | 87.3 | 85.4 | 83.6 | | | |
| 0 | Btu/h | 7840 | 7380 | 6930 | 6500 | 6090 | | |
| | Watts | 722 | 799 | 877 | 957 | 1040 | | |
| | Amps | 2.91 | 3.29 | 3.69 | 4.09 | 4.49 | | |
| | Lb/h | 99.1 | 97.0 | 95.0 | 93.0 | 91.2 | | |
| 5 | Btu/h | 8770 | 8270 | 7780 | 7300 | 6840 | | |
| | Watts | 738 | 819 | 901 | 985 | 1070 | | |
| | Amps | 2.98 | 3.39 | 3.81 | 4.23 | 4.66 | | |
| | Lb/h | 110 | 108 | 106 | 104 | 102 | | |
| 10 | Btu/h | 9820 | 9270 | 8740 | 8210 | 7690 | 7200 | 6720 |
| | Watts | 755 | 839 | 925 | 1010 | 1100 | 1200 | 1290 |
| | Amps | 3.06 | 3.49 | 3.92 | 4.37 | 4.82 | 5.28 | 5.75 |
| | Lb/h | 123 | 120 | 118 | 116 | 113 | 111 | 110 |
| 15 | Btu/h | 11000 | 10400 | 9790 | 9220 | 8650 | 8090 | 7550 |
| | Watts | 772 | 858 | 948 | 1040 | 1140 | 1240 | 1340 |
| | Amps | 3.14 | 3.59 | 4.04 | 4.50 | 4.97 | 5.45 | 5.94 |
| | Lb/h | 136 | 134 | 131 | 129 | 126 | 124 | 122 |
| 20 | Btu/h | 12200 | 11600 | 11000 | 10300 | 9700 | 9080 | 8480 |
| | Watts | 789 | 878 | 971 | 1070 | 1170 | 1270 | 1380 |
| | Amps | 3.21 | 3.68 | 4.16 | 4.64 | 5.12 | 5.62 | 6.13 |
| | Lb/h | 151 | 149 | 146 | 143 | 141 | 138 | 136 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **25** | Btu/h | 13600 | 12900 | 12200 | 11500 | 10900 | 10200 | 9510 |
| | Watts | 806 | 898 | 994 | 1090 | 1200 | 1310 | 1420 |
| | Amps | 3.29 | 3.78 | 4.27 | 4.77 | 5.27 | 5.79 | 6.31 |
| | Lb/h | 167 | 164 | 162 | 159 | 156 | 154 | 151 |
| **30** | Btu/h | 15100 | 14400 | 13600 | 12900 | 12100 | 11400 | 10600 |
| | Watts | 823 | 917 | 1020 | 1120 | 1230 | 1340 | 1460 |
| | Amps | 3.37 | 3.87 | 4.38 | 4.90 | 5.42 | 5.95 | 6.49 |
| | Lb/h | 184 | 181 | 179 | 176 | 173 | 170 | 168 |
| **35** | Btu/h | 16700 | 15900 | 15100 | 14300 | 13500 | 12600 | 11800 |
| | Watts | 841 | 936 | 1040 | 1140 | 1260 | 1370 | 1500 |
| | Amps | 3.45 | 3.97 | 4.49 | 5.02 | 5.56 | 6.10 | 6.66 |
| | Lb/h | 202 | 200 | 197 | 194 | 191 | 188 | 186 |
| **40** | Btu/h | 18400 | 17500 | 16700 | 15800 | 14900 | 14000 | 13100 |
| | Watts | 858 | 956 | 1060 | 1170 | 1280 | 1400 | 1530 |
| | Amps | 3.53 | 4.06 | 4.60 | 5.14 | 5.69 | 6.25 | 6.82 |
| | Lb/h | 221 | 219 | 216 | 213 | 210 | 207 | 204 |
| **45** | Btu/h | 20200 | 19300 | 18400 | 17400 | 16500 | 15500 | 14500 |
| | Watts | 876 | 975 | 1080 | 1190 | 1310 | 1440 | 1570 |
| | Amps | 3.61 | 4.15 | 4.71 | 5.26 | 5.83 | 6.40 | 6.98 |
| | Lb/h | 242 | 240 | 237 | 234 | 231 | 228 | 225 |
| **50** | Btu/h | 22100 | 21100 | 20100 | 19100 | 18100 | 17100 | 16000 |
| | Watts | 894 | 994 | 1100 | 1210 | 1340 | 1460 | 1600 |
| | Amps | 3.69 | 4.25 | 4.81 | 5.38 | 5.96 | 6.54 | 7.13 |
| | Lb/h | 263 | 261 | 258 | 256 | 252 | 249 | 246 |
| **55** | Btu/h | 24200 | 23100 | 22000 | 21000 | 19900 | 18700 | 17600 |
| | Watts | 912 | 1010 | 1120 | 1240 | 1360 | 1490 | 1630 |
| | Amps | 3.77 | 4.34 | 4.92 | 5.50 | 6.08 | 6.68 | 7.28 |
| | Lb/h | 286 | 284 | 281 | 278 | 275 | 272 | 269 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 1.146969E+04 | 1.731854E+02 | -1.443289E-01 | 1.050809E+02 |
| C2 | 2.182774E+02 | 1.326721E+00 | -2.354312E-02 | 2.045542E+00 |
| C3 | -4.043731E+01 | 6.028241E+00 | 3.949370E-02 | 1.448801E-01 |
| C4 | 2.630856E+00 | 4.929675E-02 | 1.851390E-04 | 2.198676E-02 |
| C5 | -3.044902E-01 | -2.114962E-02 | 5.022659E-04 | 3.446260E-03 |
| C6 | -1.120716E-01 | 1.172109E-02 | -3.630283E-05 | -3.894864E-03 |
| C7 | -2.206241E-04 | -9.716323E-06 | -2.808979E-08 | -2.632885E-05 |
| C8 | -5.201143E-03 | -5.641917E-04 | -2.149197E-06 | 3.832756E-05 |
| C9 | -2.861160E-03 | 5.645165E-04 | -2.600610E-07 | -3.460829E-05 |
| C10 | 6.270799E-04 | -1.622765E-05 | 2.439944E-07 | 1.435308E-05 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature