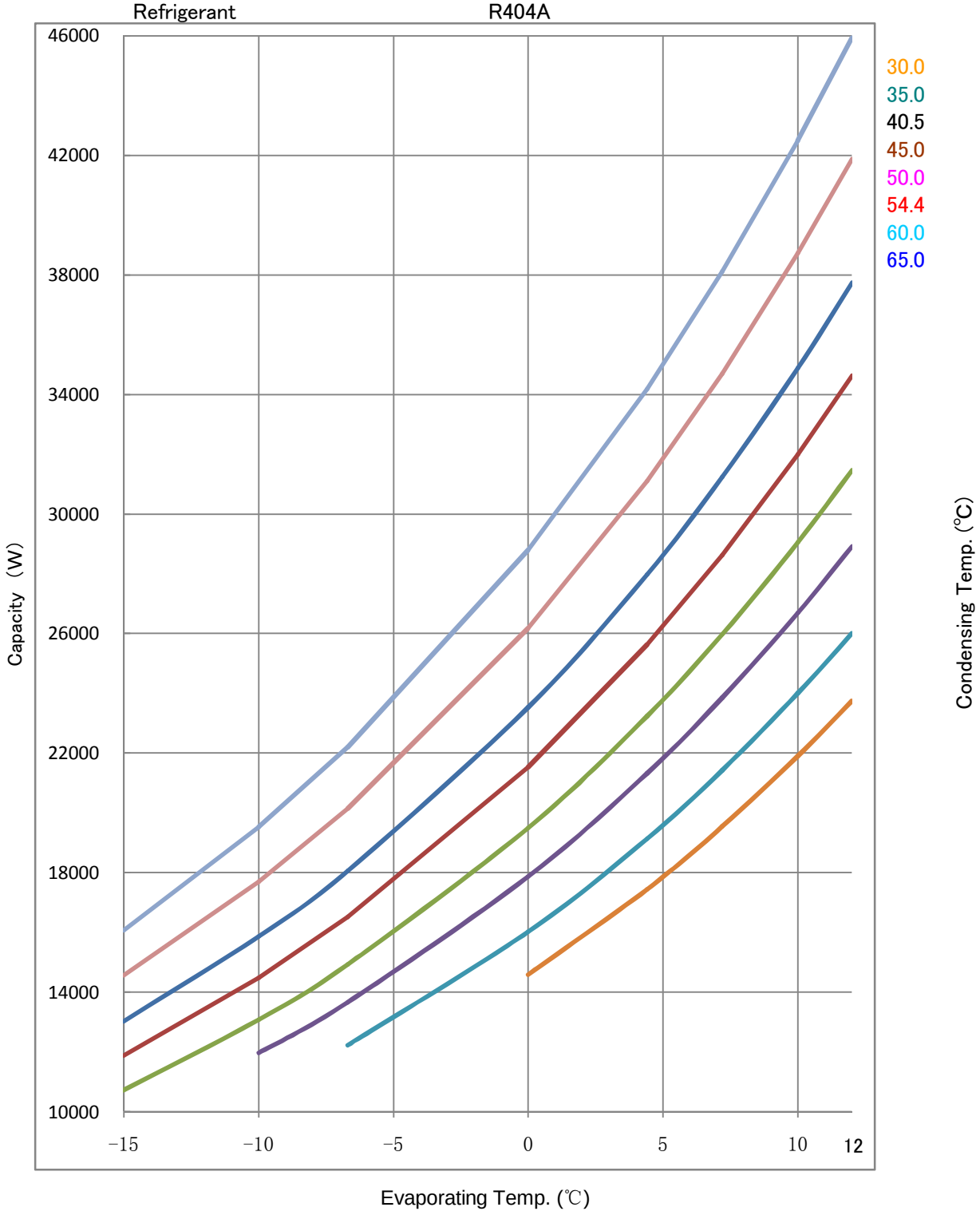
# PERFORMANCE CURVE

| | |
|---|---|
| Code No. | C-SCN583H8H |
| Power Source | 3Ph 50Hz 380V |
| Condensing Temp.(℃) | 30, 35, 40.5, 45, 50, 54.4, 60, 65 |
| Suction Gas Superheat(K) | 11.1 |
| Sub Cooled(K) | 8.3 |
| Compressor Cooling | Natural Cooling |
| Refrigerant | R404A |



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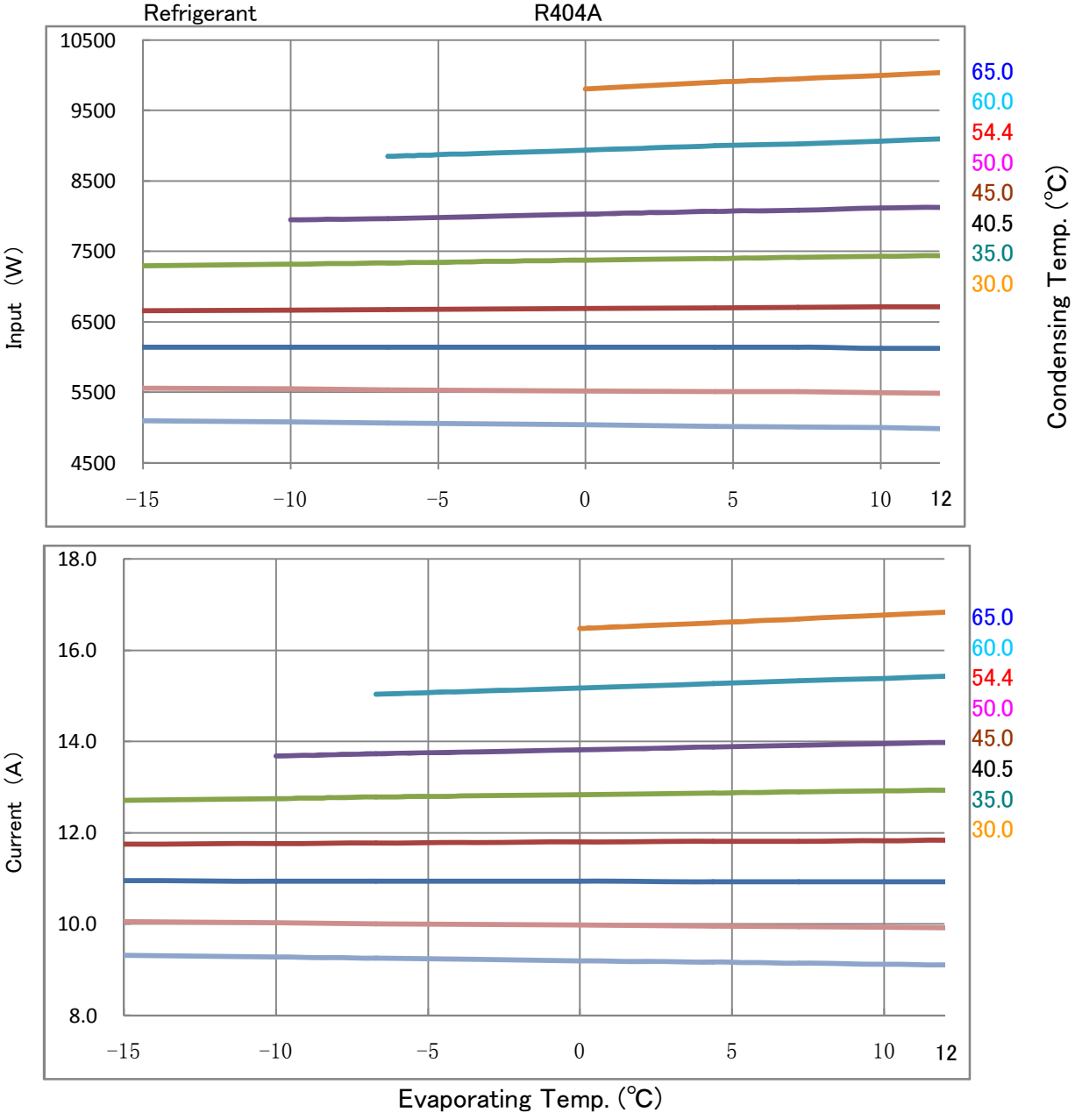

# PERFORMANCE DATA

| | |
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| Sub Cooled(K) | 8.3 |
| Compressor Cooling | Natural Cooling |
| Refrigerant | R404A |

Capacity (W)

| Condensing Temp. (℃) \ Evaporating Temp. (℃) | -15 | -10 | -6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|
| 30 | 16,080 | 19,530 | 22,200 | 28,800 | 34,180 | 38,110 | 42,490 | 45,920 |
| 35 | 14,560 | 17,700 | 20,140 | 26,180 | 31,100 | 34,700 | 38,720 | 41,870 |
| 40.5 | 13,030 | 15,860 | 18,060 | 23,520 | 27,980 | 31,240 | 34,880 | 37,740 |
| 45.0 | 11,880 | 14,480 | 16,510 | 21,530 | 25,630 | 28,630 | 31,990 | 34,630 |
| 50.0 | 10,720 | 13,080 | 14,920 | 19,490 | 23,230 | 25,980 | 29,050 | 31,460 |
| 54.4 | | 11,970 | 13,660 | 17,870 | 21,320 | 23,850 | 26,690 | 28,910 |
| 60.0 | | | 12,230 | 16,020 | 19,140 | 21,430 | 24,000 | 26,010 |
| 65.0 | | | | 14,590 | 17,440 | 19,540 | 21,900 | 23,750 |

Input (W)

| Condensing Temp. (℃) \ Evaporating Temp. (℃) | -15 | -10 | -6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|
| 30 | 5,100 | 5,080 | 5,070 | 5,040 | 5,020 | 5,010 | 5,000 | 4,990 |
| 35 | 5,560 | 5,550 | 5,540 | 5,520 | 5,510 | 5,510 | 5,500 | 5,490 |
| 40.5 | 6,140 | 6,140 | 6,140 | 6,140 | 6,140 | 6,140 | 6,130 | 6,130 |
| 45.0 | 6,660 | 6,670 | 6,680 | 6,690 | 6,700 | 6,710 | 6,720 | 6,720 |
| 50.0 | 7,300 | 7,320 | 7,340 | 7,380 | 7,400 | 7,420 | 7,430 | 7,440 |
| 54.4 | | 7,950 | 7,970 | 8,030 | 8,070 | 8,090 | 8,120 | 8,130 |
| 60.0 | | | 8,850 | 8,940 | 9,000 | 9,030 | 9,070 | 9,100 |
| 65.0 | | | | 9,810 | 9,900 | 9,950 | 10,000 | 10,040 |

Current (A)

| Condensing Temp. (℃) \ Evaporating Temp. (℃) | -15 | -10 | -6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|
| 30 | 9.3 | 9.3 | 9.3 | 9.2 | 9.2 | 9.1 | 9.1 | 9.1 |
| 35 | 10.1 | 10.0 | 10.0 | 10.0 | 10.0 | 9.9 | 9.9 | 9.9 |
| 40.5 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| 45.0 | 11.7 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 |
| 50.0 | 12.7 | 12.8 | 12.8 | 12.8 | 12.9 | 12.9 | 12.9 | 12.9 |
| 54.4 | | 13.7 | 13.7 | 13.8 | 13.9 | 13.9 | 14.0 | 14.0 |
| 60.0 | | | 15.0 | 15.2 | 15.3 | 15.3 | 15.4 | 15.4 |
| 65.0 | | | | 16.5 | 16.6 | 16.7 | 16.8 | 16.8 |

MassFlow (kg/H)

| Condensing Temp. (℃) \ Evaporating Temp. (℃) | -15 | -10 | -6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|
| 30 | 380 | 470 | 530 | 670 | 780 | 850 | 930 | 990 |
| 35 | 380 | 460 | 520 | 660 | 760 | 840 | 910 | 970 |
| 40.5 | 370 | 450 | 510 | 650 | 750 | 820 | 900 | 960 |
| 45.0 | 370 | 440 | 500 | 630 | 740 | 810 | 880 | 940 |
| 50.0 | 360 | 430 | 490 | 620 | 720 | 800 | 870 | 930 |
| 54.4 | | 430 | 480 | 610 | 710 | 780 | 860 | 910 |
| 60.0 | | | 470 | 600 | 700 | 770 | 840 | 900 |
| 65.0 | | | | 590 | 690 | 750 | 830 | 880 |

EER

| Condensing Temp. (℃) \ Evaporating Temp. (℃) | -15 | -10 | -6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|
| 30 | 3.15 | 3.84 | 4.38 | 5.71 | 6.81 | 7.61 | 8.50 | 9.20 |
| 35 | 2.62 | 3.19 | 3.64 | 4.74 | 5.64 | 6.30 | 7.04 | 7.63 |
| 40.5 | 2.12 | 2.58 | 2.94 | 3.83 | 4.56 | 5.09 | 5.69 | 6.16 |
| 45.0 | 1.78 | 2.17 | 2.47 | 3.22 | 3.83 | 4.27 | 4.76 | 5.15 |
| 50.0 | 1.47 | 1.79 | 2.03 | 2.64 | 3.14 | 3.50 | 3.91 | 4.23 |
| 54.4 | | 1.51 | 1.71 | 2.23 | 2.64 | 2.95 | 3.29 | 3.56 |
| 60.0 | | | 1.38 | 1.79 | 2.13 | 2.37 | 2.65 | 2.86 |
| 65.0 | | | | 1.49 | 1.76 | 1.96 | 2.19 | 2.37 |

## Coefficients of Polynominal Formula

| | Capacity （W） | Input （W） | Current （A） | MassFlow (kg/h) |
|---|---|---|---|---|
| C1 | 4.905980E+04 | 3.491401E+03 | 6.340814E+00 | 7.587780E+02 |
| C2 | 1.838581E+03 | -1.164562E+00 | -8.098827E-03 | 2.500593E+01 |
| C3 | -7.973290E+02 | 1.243853E+01 | 4.328329E-02 | -3.059364E+00 |
| C4 | 2.911687E+01 | -2.335725E-02 | -1.450094E-05 | 1.762997E-01 |
| C5 | -2.760007E+01 | -4.362565E-01 | -4.733109E-04 | -7.127974E-02 |
| C6 | 4.109108E+00 | 1.305264E+00 | 1.732383E-03 | 6.464539E-03 |
| C7 | 2.005186E-01 | -3.625583E-05 | -1.791788E-07 | 3.058987E-04 |
| C8 | -2.596624E-01 | 6.305909E-04 | 3.904798E-07 | 2.497984E-03 |
| C9 | 1.282281E-01 | 1.136808E-02 | 1.607014E-05 | 1.363520E-04 |
| C10 | -9.094256E-09 | -1.054079E-08 | -7.703009E-12 | 4.645810E-09 |

Note:The polynomial coefficients subject to change without notice.

$X=C1+C2*(S)+C3*D+C4*(S^2)+C5*(S*D)+C6*(D^2)+C7*(S^3)+C8*(D*S^2)+C9*(S*D^2)+C10*(D^3)$

X——CAPACITY(W) OR POWER(W) OR CURRENT(A) OR MassFlow(kg/H)

S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C