# PERFORMANCE DATA

| Code No. | C−SCN603H8H |
|---|---|
| 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 |

Capacity （W）

| Condensing Temp. (℃) \ Evaporating Temp. (℃) | −15 | −10 | −6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|
| 30 | 17,270 | 20,810 | 23,540 | 30,220 | 35,610 | 39,530 | 43,890 | 47,280 |
| 35 | 15,560 | 18,800 | 21,290 | 27,430 | 32,400 | 36,010 | 40,030 | 43,180 |
| 40.5 | 13,840 | 16,770 | 19,030 | 24,610 | 29,130 | 32,430 | 36,110 | 38,990 |
| 45.0 | 12,560 | 15,250 | 17,340 | 22,490 | 26,670 | 29,740 | 33,150 | 35,830 |
| 50.0 | 11,270 | 13,720 | 15,620 | 20,330 | 24,170 | 26,990 | 30,130 | 32,590 |
| 54.4 | | 12,510 | 14,260 | 18,610 | 22,170 | 24,780 | 27,700 | 29,990 |
| 60.0 | | | 12,720 | 16,660 | 19,900 | 22,280 | 24,940 | 27,030 |
| 65.0 | | | | 15,150 | 18,130 | 20,320 | 22,780 | 24,720 |

Input （W）

| Condensing Temp. (℃) \ Evaporating Temp. (℃) | −15 | −10 | −6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|
| 30 | 5,300 | 5,280 | 5,260 | 5,230 | 5,210 | 5,200 | 5,190 | 5,180 |
| 35 | 5,780 | 5,770 | 5,760 | 5,740 | 5,730 | 5,720 | 5,710 | 5,710 |
| 40.5 | 6,380 | 6,380 | 6,380 | 6,380 | 6,370 | 6,370 | 6,370 | 6,370 |
| 45.0 | 6,920 | 6,930 | 6,940 | 6,960 | 6,970 | 6,970 | 6,980 | 6,980 |
| 50.0 | 7,580 | 7,610 | 7,630 | 7,660 | 7,690 | 7,700 | 7,720 | 7,730 |
| 54.4 | | 8,260 | 8,290 | 8,340 | 8,380 | 8,410 | 8,430 | 8,450 |
| 60.0 | | | 9,190 | 9,290 | 9,350 | 9,390 | 9,430 | 9,460 |
| 65.0 | | | | 10,200 | 10,280 | 10,340 | 10,390 | 10,430 |

Current （A）

| Condensing Temp. (℃) \ Evaporating Temp. (℃) | −15 | −10 | −6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
|---|---|---|---|---|---|---|---|---|
| 30 | 9.7 | 9.6 | 9.6 | 9.6 | 9.5 | 9.5 | 9.5 | 9.5 |
| 35 | 10.4 | 10.4 | 10.4 | 10.4 | 10.3 | 10.3 | 10.3 | 10.3 |
| 40.5 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 | 11.3 |
| 45.0 | 12.2 | 12.2 | 12.2 | 12.3 | 12.3 | 12.3 | 12.3 | 12.3 |
| 50.0 | 13.2 | 13.2 | 13.3 | 13.3 | 13.4 | 13.4 | 13.4 | 13.4 |
| 54.4 | | 14.2 | 14.3 | 14.4 | 14.4 | 14.5 | 14.5 | 14.5 |
| 60.0 | | | 15.6 | 15.8 | 15.9 | 15.9 | 16.0 | 16.0 |
| 65.0 | | | | 17.1 | 17.2 | 17.3 | 17.4 | 17.5 |

MassFlow (kg/H)

| | | Evaporating Temp. (℃) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | −15 | −10 | −6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
| Condensing Temp. (℃) | 30 | 400 | 480 | 550 | 700 | 810 | 880 | 970 | 1,030 |
| | 35 | 390 | 480 | 540 | 680 | 790 | 870 | 950 | 1,010 |
| | 40.5 | 390 | 470 | 530 | 670 | 780 | 850 | 930 | 990 |
| | 45.0 | 380 | 460 | 520 | 660 | 770 | 840 | 920 | 980 |
| | 50.0 | 380 | 450 | 510 | 650 | 750 | 830 | 900 | 960 |
| | 54.4 | | 440 | 500 | 640 | 740 | 810 | 890 | 950 |
| | 60.0 | | | 490 | 620 | 730 | 800 | 870 | 930 |
| | 65.0 | | | | 610 | 710 | 780 | 860 | 920 |

EER

| | | Evaporating Temp. (℃) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | −15 | −10 | −6.7 | 0 | 4.4 | 7.2 | 10 | 12 |
| Condensing Temp. (℃) | 30 | 3.26 | 3.94 | 4.48 | 5.78 | 6.83 | 7.60 | 8.46 | 9.13 |
| | 35 | 2.69 | 3.26 | 3.70 | 4.78 | 5.65 | 6.30 | 7.01 | 7.56 |
| | 40.5 | 2.17 | 2.63 | 2.98 | 3.86 | 4.57 | 5.09 | 5.67 | 6.12 |
| | 45.0 | 1.82 | 2.20 | 2.50 | 3.23 | 3.83 | 4.27 | 4.75 | 5.13 |
| | 50.0 | 1.49 | 1.80 | 2.05 | 2.65 | 3.14 | 3.51 | 3.90 | 4.22 |
| | 54.4 | | 1.51 | 1.72 | 2.23 | 2.65 | 2.95 | 3.29 | 3.55 |
| | 60.0 | | | 1.38 | 1.79 | 2.13 | 2.37 | 2.64 | 2.86 |
| | 65.0 | | | | 1.49 | 1.76 | 1.97 | 2.19 | 2.37 |

## Coefficients of Polynominal Formula

| | Capacity （W） | Input （W） | Current （A） | MassFlow (kg/h) |
|---|---|---|---|---|
| C1 | 5.156920E+04 | 3.611624E+03 | 6.597224E+00 | 7.626185E+02 |
| C2 | 1.824618E+03 | -1.410123E+00 | -9.404015E-03 | 2.823099E+01 |
| C3 | -8.415092E+02 | 1.347085E+01 | 4.447550E-02 | -2.099629E+00 |
| C4 | 2.886751E+01 | 2.866217E-02 | -2.911072E-05 | 2.855975E-01 |
| C5 | -2.689908E+01 | -4.682240E-01 | -4.468059E-04 | -1.714819E-01 |
| C6 | 4.329723E+00 | 1.352041E+00 | 1.804921E-03 | -3.883350E-03 |
| C7 | 2.240456E-01 | 1.532961E-03 | 2.916708E-07 | 5.297504E-04 |
| C8 | -2.535990E-01 | -6.222095E-04 | 8.577807E-07 | 1.773521E-04 |
| C9 | 1.273837E-01 | 1.205675E-02 | 1.618716E-05 | 1.128954E-03 |
| C10 | -4.109737E-09 | 1.348929E-08 | 8.523053E-12 | -1.016724E-08 |

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