

**PERFORMANCE DATA**

Compressor Model(Code)	<b>C-SCN603H8K (809 183 88)</b>
Power Source	<b>3PH 50Hz 380-415V</b>
Suction Gas Superheat(K)	<b>9</b>
Sub Cooling(K)	<b>8.3</b>
Compressor Cooling	<b>Natural Cooling</b>
Refrigerant	<b>R407C</b>

**CAPACITY(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	13,210	16,230	18,590	24,490	29,350	32,930	36,960	40,130
40.5	12,180	14,950	17,130	22,550	27,020	30,310	34,010	36,920
45.0	11,380	13,980	16,000	21,070	25,230	28,310	31,750	34,470
50.0	10,560	12,960	14,830	19,520	23,370	26,220	29,400	31,910
54.4		12,120	13,870	18,250	21,850	24,500	27,470	29,820
60.0			12,750	16,760	20,060	22,480	25,210	27,350
65.0				15,540	18,590	20,840	23,360	25,350

**POWER(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	5,020	5,090	5,120	5,160	5,160	5,160	5,140	5,120
40.5	5,600	5,680	5,720	5,770	5,770	5,770	5,750	5,740
45.0	6,140	6,230	6,270	6,330	6,340	6,340	6,330	6,320
50.0	6,810	6,910	6,960	7,030	7,050	7,050	7,050	7,040
54.4		7,570	7,630	7,710	7,740	7,750	7,750	7,740
60.0			8,570	8,670	8,710	8,730	8,740	8,740
65.0				9,610	9,660	9,690	9,700	9,710

**CURRENT(A)**

@380V

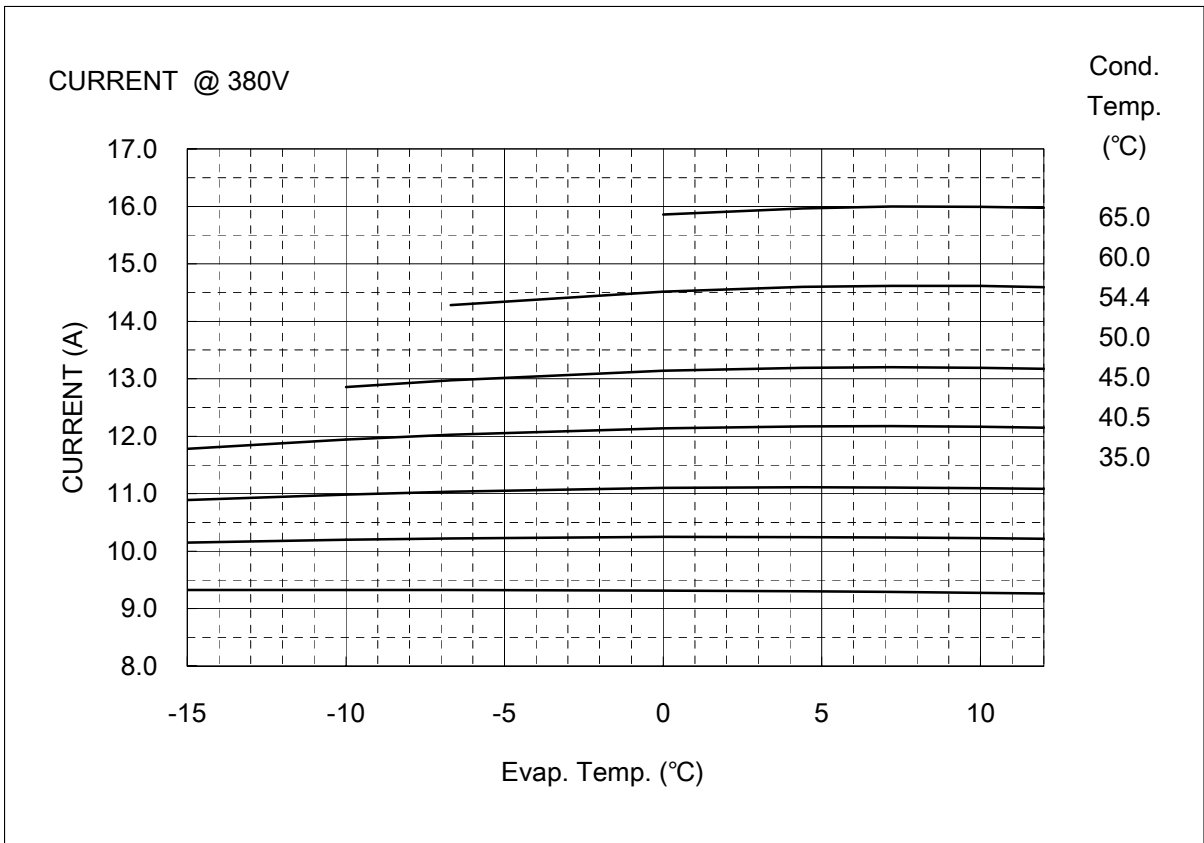
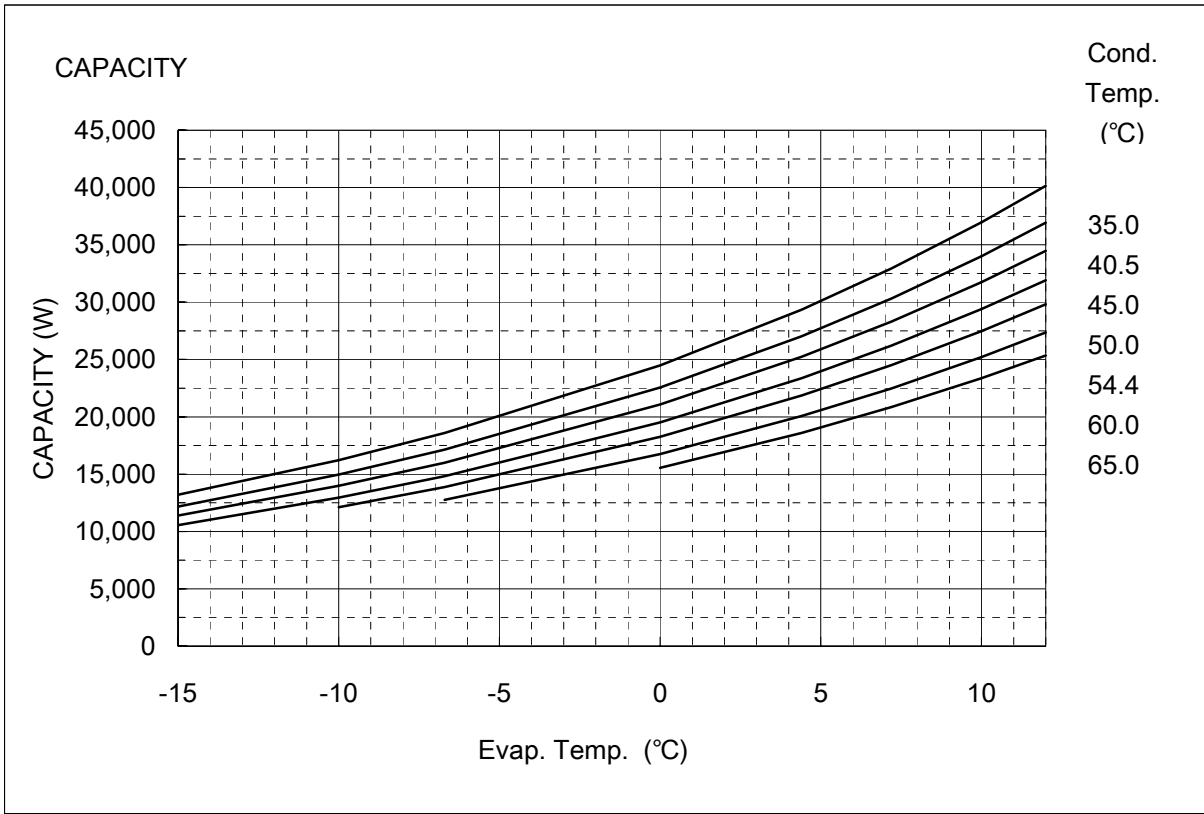
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
40.5	10.1	10.2	10.2	10.2	10.2	10.2	10.2	10.2
45.0	10.9	11.0	11.0	11.1	11.1	11.1	11.1	11.1
50.0	11.8	11.9	12.0	12.1	12.2	12.2	12.2	12.2
54.4		12.9	13.0	13.1	13.2	13.2	13.2	13.2
60.0			14.3	14.5	14.6	14.6	14.6	14.6
65.0				15.9	16.0	16.0	16.0	16.0

**NOTE:**

- \* The performance values are based on MID point method.
- \* The performance values subject to change without notice.

Compressor Model(Code)  
Power Source

**C-SCN603H8K (809 183 88)**  
**3PH 50Hz 380-415V**



## COEFFICIENTS OF PERFORMANCE CURVES



Compressor Model           **C-SCN603H8K (809 183 88)**  
 Power Source               **3PH 50Hz 380-415V**  
 Suction Gas Superheat (K) **9**  
 Sub Cooling (K)           **8.3**  
 Compressor Cooling       **Natural Cooling**  
 Refrigerant                 **R407C**

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

X—CAPACITY(W) OR POWER(W) OR CURRENT(A) OR FLOW(kg/h)

S—EVAPORATING TEMP, °C

D—CONDENSING TEMP, °C

<b>380V-50Hz</b>	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	4.004642E+04	3.569299E+03	6.084165E+00
C2	1.707960E+03	5.038327E+00	-4.586390E-03
C3	-5.239410E+02	-9.795056E+00	2.441731E-02
C4	3.105100E+01	-4.003621E-01	1.879734E-03
C5	-2.365733E+01	-3.377715E-01	-5.175950E-04
C6	2.263373E+00	1.580085E+00	1.935642E-03
C7	2.389230E-01	1.053029E-04	-2.682842E-06
C8	-2.845702E-01	-2.093382E-03	-5.562160E-05
C9	1.090986E-01	7.518378E-03	1.672233E-05
C10	-3.152917E-08	5.700804E-09	6.634405E-12

Note:The polynomial coefficients subject to change without notice.

**PERFORMANCE DATA**

Compressor Model(Code)	<b>C-SCN603H8K (809 183 88)</b>
Power Source	<b>3PH 60Hz 440-460V</b>
Suction Gas Superheat(K)	<b>9</b>
Sub Cooling(K)	<b>8.3</b>
Compressor Cooling	<b>Natural Cooling</b>
Refrigerant	<b>R407C</b>

**CAPACITY(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	16,340	19,980	22,820	29,900	35,690	39,950	44,720	48,480
40.5	14,900	18,240	20,840	27,330	32,650	36,560	40,950	44,400
45.0	13,810	16,910	19,330	25,370	30,330	33,970	38,060	41,280
50.0	12,680	15,540	17,770	23,340	27,920	31,290	35,070	38,040
54.4		14,420	16,500	21,690	25,960	29,100	32,620	35,400
60.0			15,020	19,760	23,660	26,540	29,770	32,310
65.0				18,200	21,810	24,480	27,460	29,820

**POWER(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	5,940	6,090	6,170	6,270	6,290	6,290	6,270	6,240
40.5	6,660	6,820	6,900	7,000	7,030	7,030	7,020	7,000
45.0	7,340	7,500	7,580	7,690	7,720	7,730	7,720	7,710
50.0	8,190	8,340	8,420	8,540	8,590	8,600	8,610	8,600
54.4		9,160	9,240	9,370	9,430	9,450	9,470	9,470
60.0			10,400	10,530	10,600	10,640	10,680	10,700
65.0				11,670	11,760	11,810	11,860	11,900

**CURRENT(A)**

@440V

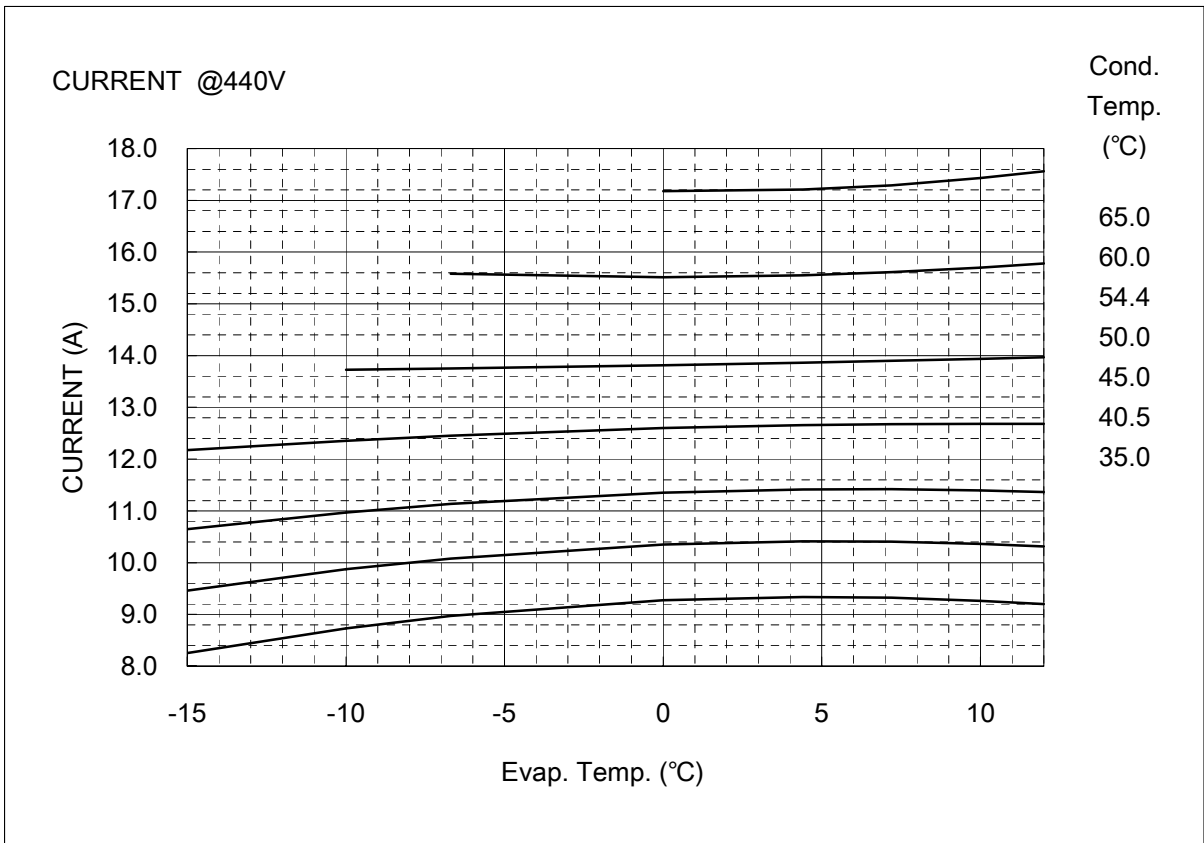
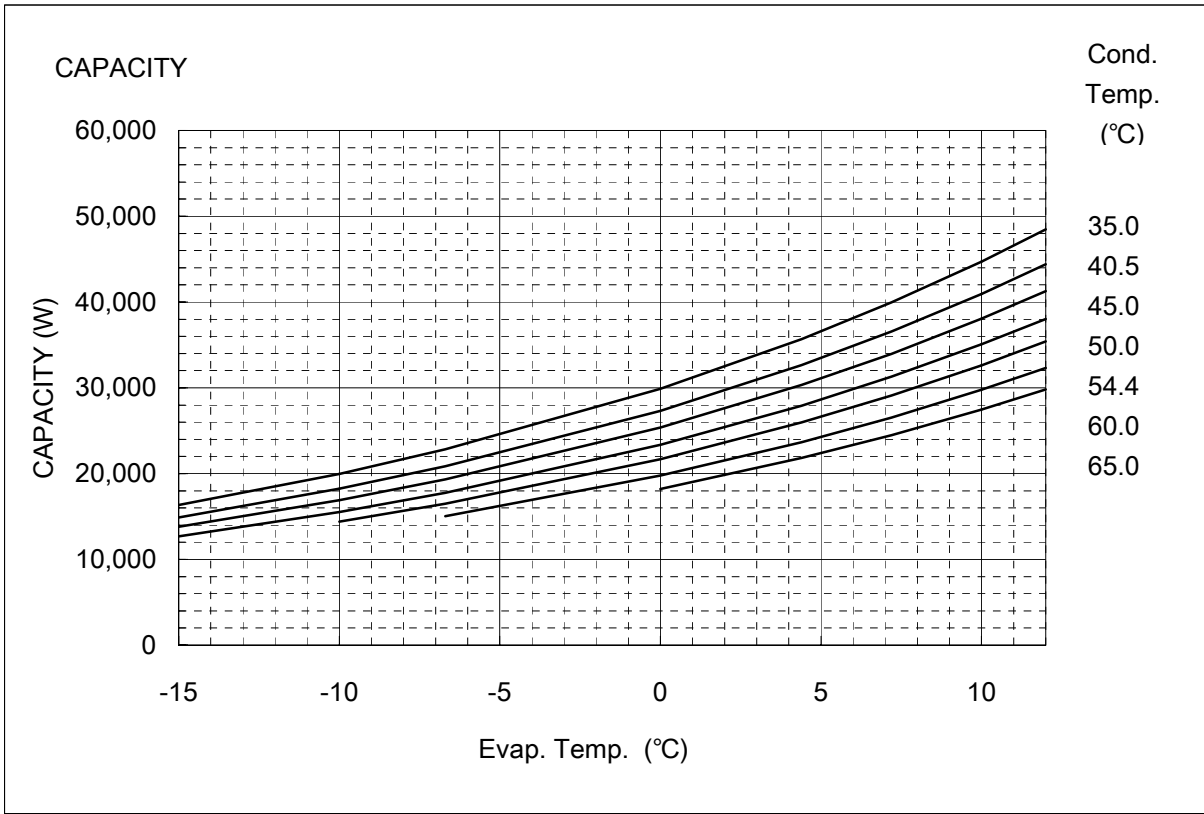
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	8.3	8.7	9.0	9.3	9.3	9.3	9.3	9.2
40.5	9.5	9.9	10.1	10.3	10.4	10.4	10.4	10.3
45.0	10.6	11.0	11.1	11.4	11.4	11.4	11.4	11.4
50.0	12.2	12.4	12.5	12.6	12.7	12.7	12.7	12.7
54.4		13.7	13.8	13.8	13.9	13.9	13.9	14.0
60.0			15.6	15.5	15.6	15.6	15.7	15.8
65.0				17.2	17.2	17.3	17.4	17.6

**NOTE:**

- \* The performance values are based on MID point method.
- \* The performance values subject to change without notice.

Compressor Model(Code)  
Power Source

**C-SCN603H8K (809 183 88)**  
**3PH 60Hz 440-460V**



## COEFFICIENTS OF PERFORMANCE CURVES



Compressor Model           **C-SCN603H8K (809 183 88)**  
 Power Source               **3PH 60Hz 440-460V**  
 Suction Gas Superheat (K) **9**  
 Sub Cooling (K)           **8.3**  
 Compressor Cooling       **Natural Cooling**  
 Refrigerant                 **R407C**

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

X—CAPACITY(W) OR POWER(W) OR CURRENT(A) OR FLOW(kg/h)

S—EVAPORATING TEMP, °C

D—CONDENSING TEMP, °C

<b>440V-60Hz</b>	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	5.079741E+04	4.383964E+03	6.908819E+00
C2	2.055610E+03	1.235758E+01	1.760747E-02
C3	-7.097991E+02	-1.385735E+01	-3.705640E-02
C4	3.586250E+01	-1.684597E+00	-9.046854E-03
C5	-2.879854E+01	-4.162538E-01	7.744920E-04
C6	3.208373E+00	1.938782E+00	3.009590E-03
C7	2.766718E-01	1.809265E-03	1.504425E-05
C8	-3.199017E-01	2.093213E-02	1.702135E-04
C9	1.330703E-01	8.630991E-03	-1.647913E-05
C10	-1.647169E-08	-1.231354E-08	-7.266176E-11

Note:The polynomial coefficients subject to change without notice.