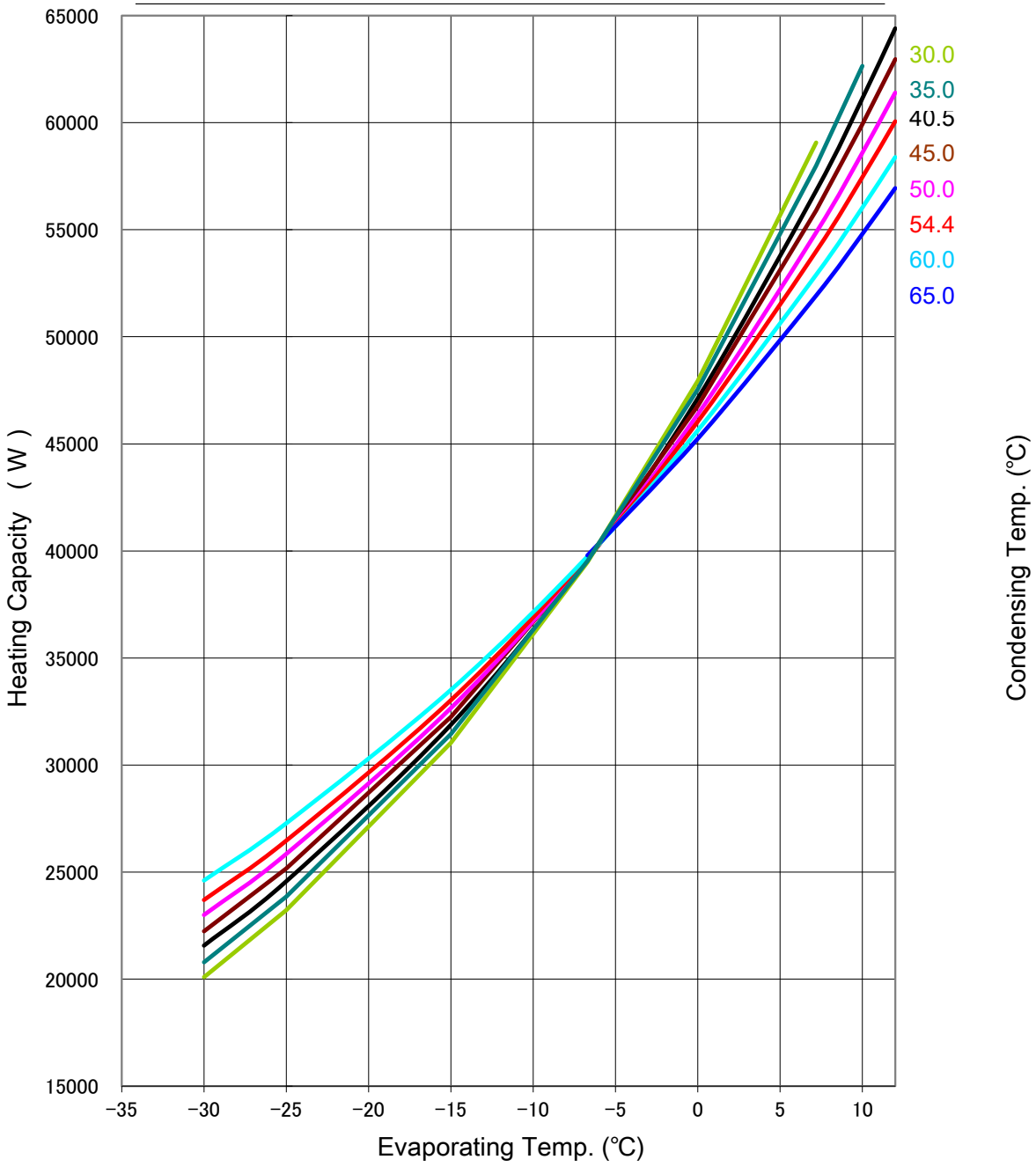
PERFORMANCE CURVE

Code No.	C-SCP435H38Q
Power Source	3-PH 50Hz 380V
Condensing Temp.(℃)	30 , 35 , 40.5 , 45 , 50 , 54.4 , 60 , 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	2
Compressor Cooling	Gas Injection
Refrigerant	R410A



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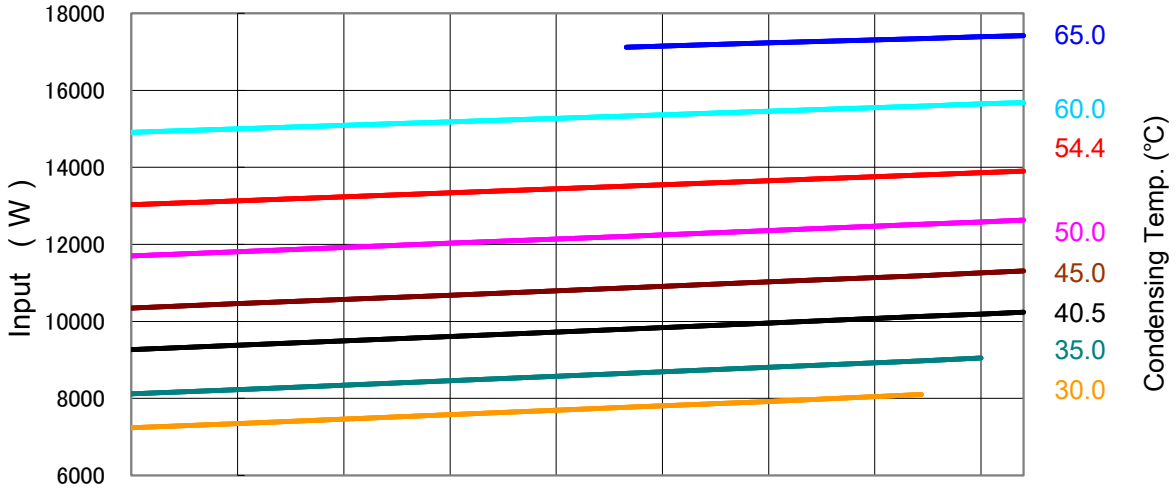
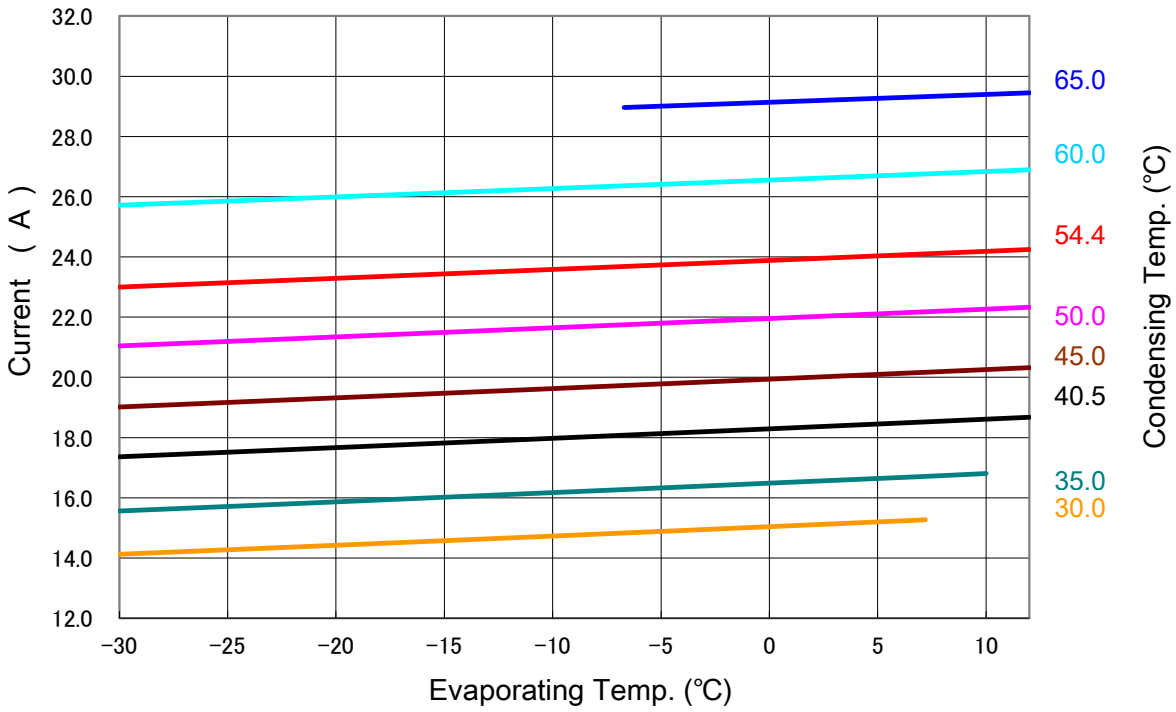




PERFORMANCE DATA

Code No.	C-SCP435H38Q
Power Source	3-PH 50Hz 380V
Condensing Temp.(℃)	30 , 35 , 40.5 , 45 , 50 , 54.4 , 60 , 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	2
Compressor Cooling	Gas Injection
Refrigerant	R410A

Heating Capacity (W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-30	-25	-15	-6.7	0	7.2	10	12
30.0	20,100	23,230	31,040	39,480	47,940	59,070		
35.0	20,790	23,860	31,440	39,530	47,550	57,990	62,650	
40.5	21,570	24,570	31,880	39,570	47,120	56,830	61,130	64,400
45.0	22,240	25,170	32,250	39,610	46,770	55,900	59,920	62,960
50.0	23,000	25,850	32,660	39,660	46,380	54,880	58,590	61,400
54.4	23,700	26,470	33,030	39,690	46,040	54,000	57,450	60,060
60.0	24,610	27,280	33,510	39,740	45,620	52,900	56,030	58,390
65.0				39,790	45,240	51,930	54,800	56,940

Input (W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-30	-25	-15	-6.7	0	7.2	10	12
30.0	7,240	7,350	7,580	7,770	7,920	8,100		
35.0	8,120	8,230	8,460	8,650	8,810	8,980	9,050	
40.5	9,270	9,380	9,610	9,800	9,960	10,130	10,190	10,240
45.0	10,350	10,460	10,680	10,870	11,030	11,190	11,260	11,310
50.0	11,700	11,810	12,030	12,210	12,360	12,520	12,580	12,630
54.4	13,030	13,130	13,340	13,510	13,650	13,800	13,860	13,900
60.0	14,910	15,000	15,180	15,330	15,460	15,590	15,650	15,680
65.0				17,120	17,230	17,340	17,390	17,420

Current (A)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-30	-25	-15	-6.7	0	7.2	10	12
30.0	14.1	14.3	14.6	14.8	15.0	15.3		
35.0	15.6	15.7	16.0	16.3	16.5	16.7	16.8	
40.5	17.4	17.5	17.8	18.1	18.3	18.5	18.6	18.7
45.0	19.0	19.2	19.5	19.7	19.9	20.2	20.3	20.3
50.0	21.0	21.2	21.5	21.7	22.0	22.2	22.3	22.3
54.4	23.0	23.1	23.4	23.7	23.9	24.1	24.2	24.2
60.0	25.7	25.9	26.1	26.4	26.6	26.8	26.8	26.9
65.0				29.0	29.1	29.3	29.4	29.4

EER (W/W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-30	-25	-15	-6.7	0	7.2	10	12
30.0	2.78	3.16	4.09	5.08	6.05	7.29		
35.0	2.56	2.90	3.72	4.57	5.40	6.46	6.92	
40.5	2.33	2.62	3.32	4.04	4.73	5.61	6.00	6.29
45.0	2.15	2.41	3.02	3.64	4.24	5.00	5.32	5.57
50.0	1.97	2.19	2.71	3.25	3.75	4.38	4.66	4.86
54.4	1.82	2.02	2.48	2.94	3.37	3.91	4.15	4.32
60.0	1.65	1.82	2.21	2.59	2.95	3.39	3.58	3.72
65.0					2.63	2.99	3.15	3.27

Coefficients of Polynominal Formula

	Heating Capacity (W)	Input (W)	Current (A)
C1	5.083874E+04	5.703277E+03	1.037778E+01
C2	1.830939E+03	1.150625E+01	2.111110E-02
C3	-9.742667E+01	-1.452366E+01	4.132175E-02
C4	2.570728E+01	2.763337E-02	4.717306E-05
C5	-1.447389E+01	6.681145E-01	5.632325E-04
C6	1.527839E-01	2.952005E+00	3.803852E-03
C7	9.587393E-02	-9.890331E-05	-1.599970E-08
C8	-2.505805E-01	-3.190181E-04	-5.290046E-07
C9	-7.726199E-03	-9.110709E-03	-7.365523E-06
C10	1.176261E-07	9.323172E-09	5.981566E-12

Note:The polynomial coefficients subject to change without notice.

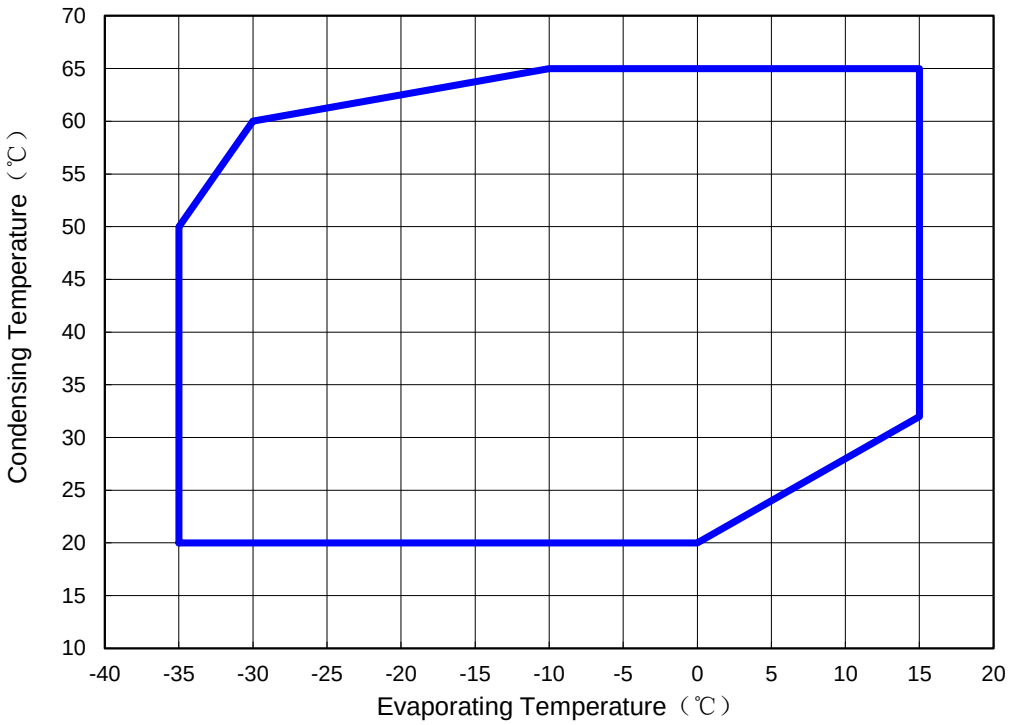
$X=C1+C2*(S)+C3*D+C4*(S^2)+C5*(S*D)+C6*(D^2)+C7*(S^3)+C8*(D*S^2)+C9*(S*D^2)+C10*(D^3)$

X——HEATING CAPACITY(W) OR POWER(W) OR CURRENT(A)

S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C

Operating Envelope

Suction Gas Superhea : 11.1K. **Compressor Cooling: Gas Injection**

Refrigerant : R410A.