SPECIFICATIONS OF COMPRESSOR

Model No: C-SCN753L8H

Output : 10 HP

Temporary

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

08/Nov/17

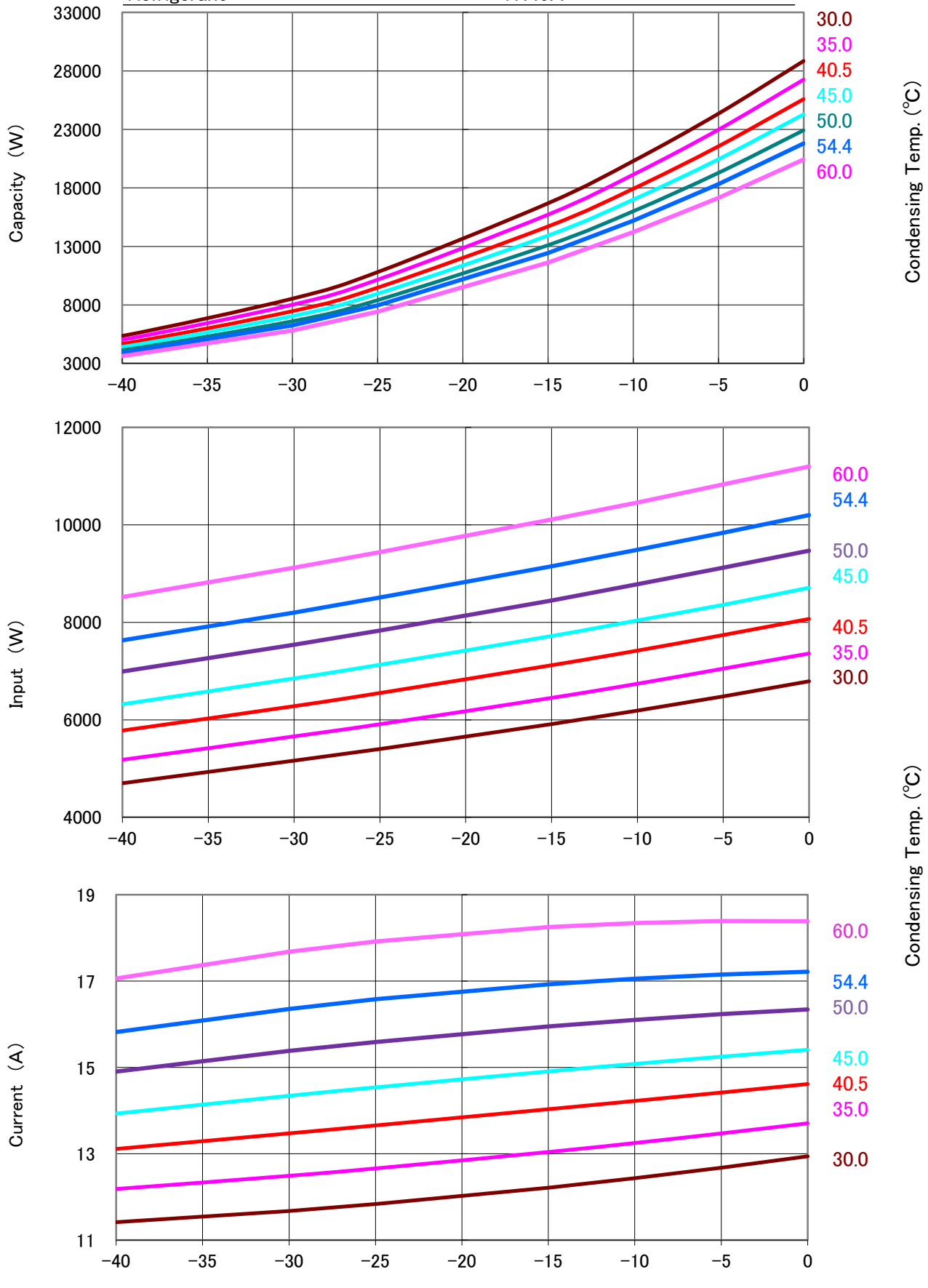
GENERAL SPECIFICATIONS

Model No:		C-SCN753L8H
Application		
Evaporating Temp Range	(℃)	-40 ～ -5
Refrigerant		R449A
Compressor Cooling		Liquid Injection
Rated Performance		
Capacity	(W)	13110 / 15460
Input	(W)	8450 / 9960
Current	(A)	15.45 / 15.4
Revolution	(min^{-1})	2950 / 3450
Sound Level	(dB(A))	67max /
Rating Conditions		
Power Source		3-PH 50Hz 380-415V / 60Hz 440V
Evaporating Temp	(℃)	-15
Condensing Temp	(℃)	50
Suction Gas Temp	(℃)	18.3
Liquid Temp	(℃)	50
Ambient Temp	(℃)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm3)	171.2
Suction Line Connection	(Φmm 0D)	25.4
Discharge Line Connection	(Φmm 0D)	19.05
Oil	(ml)	2500 (FV32S)
Mass(Incl.Oil)	(kg)	69.5
Motor		
Type		3-PH Induction Motor (3IR)
Pole		2
Rated Power Source		3-PH 50Hz 380-415V / 60Hz 440V
Voltage Range	(V)	342～456 / 396～484
Starting Current	(A)	-

Panasonic Appliances Compressor (Dalian) Co., Ltd.

PERFORMANCE CURVE

Code No.	C-SCN753L8H
Power Source	3-PH 50Hz 380V
Condensing Temp.(℃)	30、35、40.5、45、50、54.4、60
Suction Gas Temp(℃)	18.3
Sub Cooled(K)	0
Compressor Cooling	Liquid Injection
Refrigerant	R449A



PERFORMANCE DATA

Code No.	C-SCN753L8H
Power Source	3-PH 50Hz 380V
Condensing Temp.(℃)	30、35、40.5、45、50、54.4、60
Suction Gas Temp(℃)	18.3
Sub Cooled(K)	0
Compressor Cooling	Liquid Injection
Refrigerant	R449A

Capacity （W）

Condensing Temp.(℃) \ Evaporating Temp.(℃)	-45	-40	-30	-25	-15	-10	-5	0
30.0	4,420	5,350	8,540	10,810	16,690	20,300	24,350	28,850
35.0	4,150	5,020	8,020	10,160	15,720	19,140	22,980	27,260
40.5	3,880	4,670	7,470	9,480	14,710	17,930	21,560	25,590
45.0	3,670	4,410	7,050	8,960	13,930	17,000	20,450	24,290
50.0	3,450	4,130	6,610	8,410	13,110	16,010	19,290	22,930
54.4	3,260	3,900	6,250	7,960	12,430	15,200	18,320	21,800
60.0	3,040	3,630	5,820	7,420	11,620	14,220	17,160	20,440

Input （W）

Condensing Temp.(℃) \ Evaporating Temp.(℃)	-45	-40	-30	-25	-15	-10	-5	0
30.0	4,490	4,700	5,160	5,400	5,910	6,190	6,480	6,790
35.0	4,960	5,180	5,660	5,910	6,450	6,740	7,050	7,360
40.5	5,540	5,780	6,280	6,550	7,120	7,420	7,740	8,070
45.0	6,070	6,320	6,850	7,130	7,720	8,040	8,360	8,710
50.0	6,720	6,990	7,540	7,830	8,450	8,780	9,120	9,470
54.4	7,350	7,630	8,200	8,510	9,150	9,490	9,840	10,200
60.0	8,230	8,520	9,120	9,440	10,110	10,460	10,830	11,200

Current （A）

Condensing Temp.(℃) \ Evaporating Temp.(℃)	-45	-40	-30	-25	-15	-10	-5	0
30.0	10.8	10.9	11.2	11.3	11.7	11.9	12.2	12.4
35.0	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.2
40.5	12.4	12.6	13.0	13.2	13.5	13.7	13.9	14.1
45.0	13.2	13.4	13.8	14.0	14.4	14.6	14.7	14.9
50.0	14.1	14.4	14.9	15.1	15.5	15.6	15.7	15.8
54.4	15.0	15.3	15.9	16.1	16.4	16.6	16.7	16.7
60.0	16.2	16.6	17.2	17.4	17.8	17.8	17.9	17.9

Coefficients of Polynominal Formula

	Capacity(W)	Input （W）	Current （A）
C1	3.984685E+04	4.695762E+03	9.464041E+00
C2	1.249578E+03	4.784302E+01	1.140956E-01
C3	-4.097560E+02	3.090622E+01	5.822114E-02
C4	1.114348E+01	3.208128E-01	1.739371E-03
C5	-1.100829E+01	4.934730E-01	-1.947483E-03
C6	1.432535E+00	1.295113E+00	1.377514E-03
C7	-1.491396E-05	1.302926E-03	-9.269125E-07
C8	-7.462273E-02	9.723202E-06	-4.482688E-05
C9	2.702531E-02	1.997863E-04	3.858226E-08
C10	1.480261E-08	2.776839E-08	5.579613E-12

Note:The polynomial coefficients subject to change without notice.

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

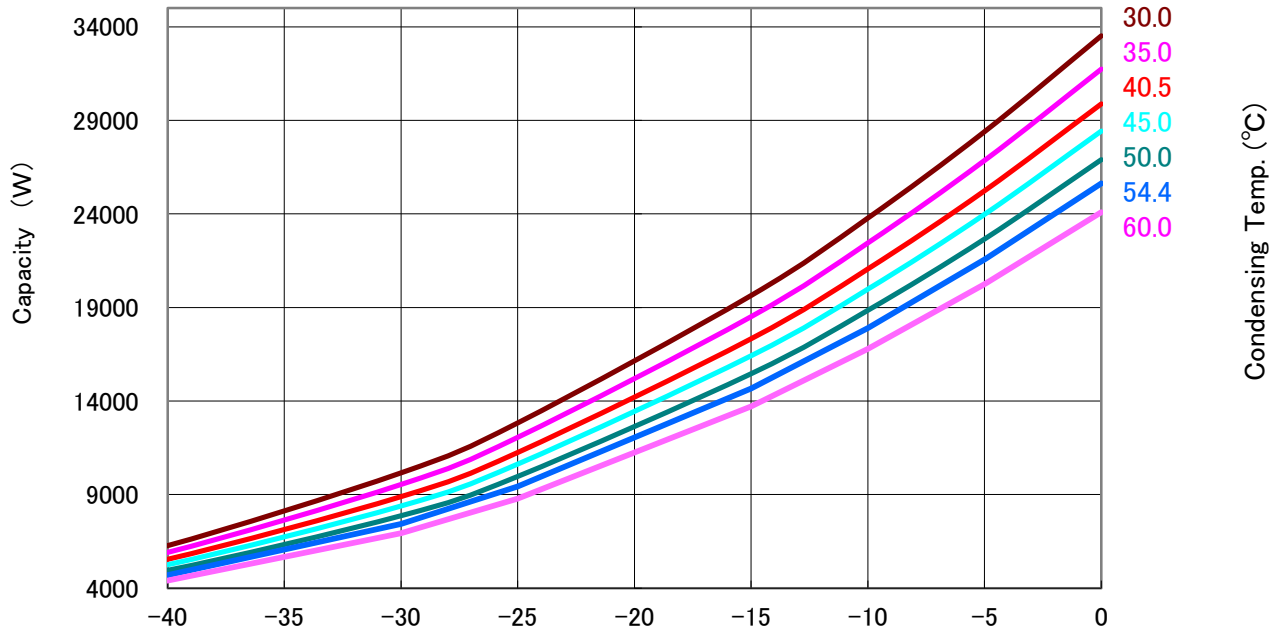
X——CAPACITY(W) OR POWER(W) OR CURRENT(A)

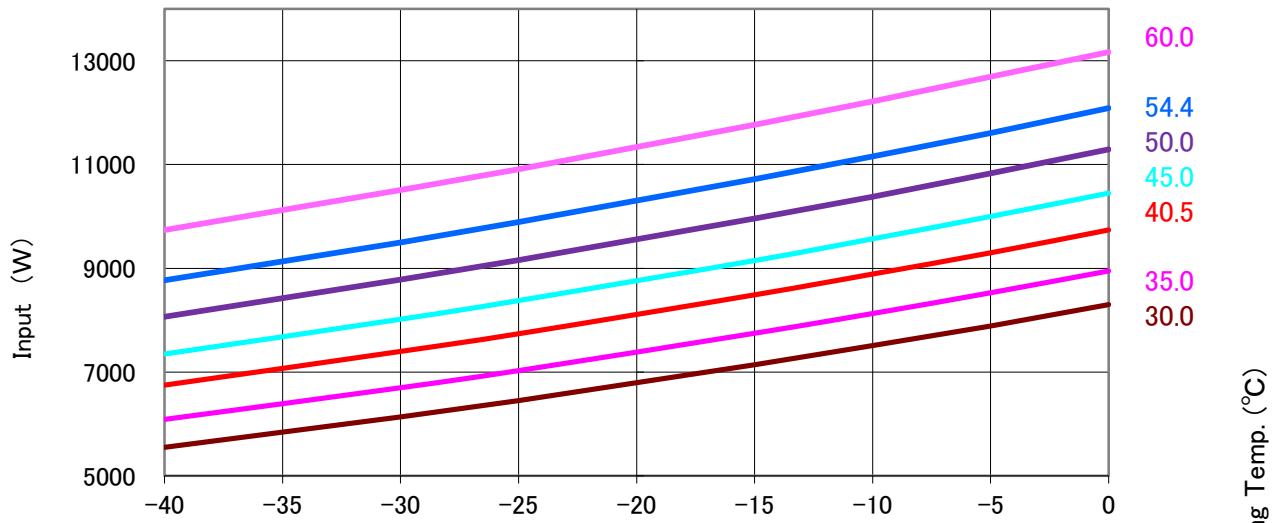
S——EVAPORATING TEMP, °C

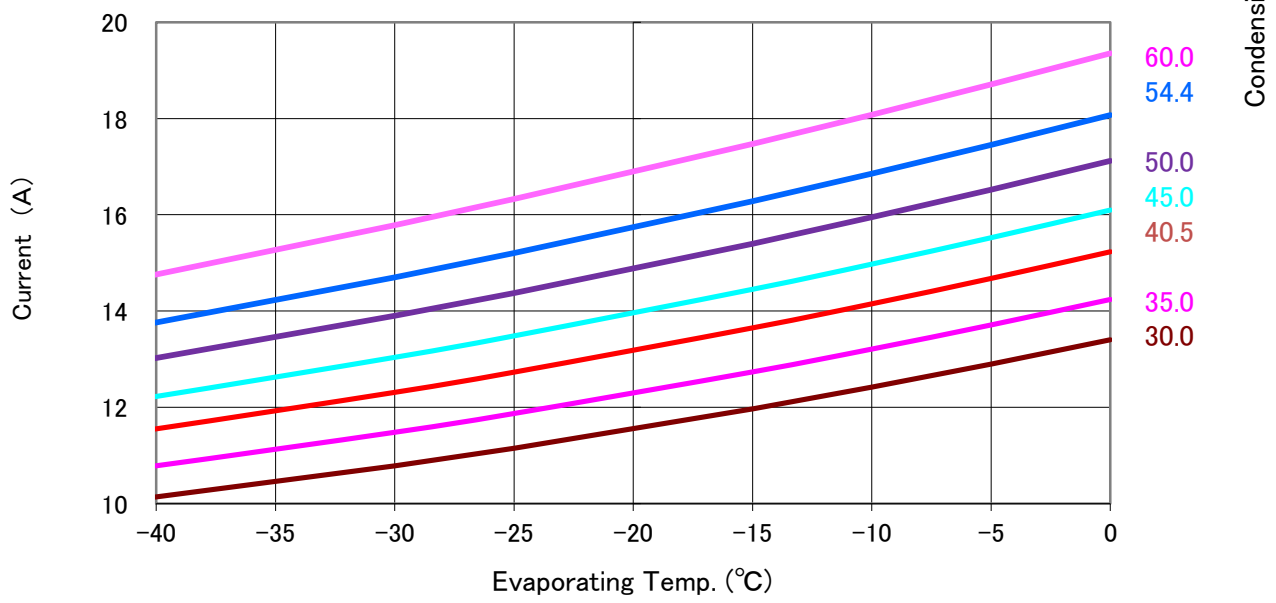
D——CONDENSING TEMP, °C

PERFORMANCE CURVE

Code No.	C-SCN753L8H
Power Source	3-PH 60Hz 440V
Condensing Temp.(℃)	30、35、40.5、45、50、54.4、60
Suction Gas Temp(℃)	18.3
Sub Cooled(K)	0
Compressor Cooling	Liquid Injection
Refrigerant	R449A







PERFORMANCE DATA

Code No.	C-SCN753L8H
Power Source	3-PH 60Hz 440V
Condensing Temp.(℃)	30、35、40.5、45、50、54.4、60
Suction Gas Temp(℃)	18.3
Sub Cooled(K)	0
Compressor Cooling	Liquid Injection
Refrigerant	R449A

Capacity （W）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-45	-40	-30	-25	-15	-10	-5	0
30.0	5,060	6,270	10,160	12,830	19,640	23,780	28,400	33,520
35.0	4,810	5,910	9,540	12,060	18,510	22,450	26,860	31,740
40.5	4,550	5,540	8,890	11,250	17,330	21,060	25,240	29,880
45.0	4,350	5,250	8,390	10,630	16,420	19,980	23,980	28,430
50.0	4,140	4,950	7,870	9,970	15,460	18,850	22,660	26,900
54.4	3,960	4,700	7,440	9,430	14,660	17,900	21,560	25,630
60.0	3,740	4,400	6,930	8,790	13,710	16,780	20,240	24,100

Input （W）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-45	-40	-30	-25	-15	-10	-5	0
30.0	5,280	5,550	6,140	6,450	7,140	7,510	7,890	8,300
35.0	5,800	6,090	6,700	7,030	7,750	8,130	8,530	8,950
40.5	6,440	6,750	7,400	7,740	8,490	8,890	9,300	9,740
45.0	7,030	7,350	8,020	8,380	9,150	9,570	10,000	10,450
50.0	7,740	8,070	8,780	9,160	9,960	10,380	10,830	11,290
54.4	8,430	8,770	9,500	9,890	10,720	11,160	11,610	12,090
60.0	9,380	9,740	10,510	10,910	11,770	12,220	12,690	13,170

Current （A）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-45	-40	-30	-25	-15	-10	-5	0
30.0	9.9	10.1	10.8	11.1	12.0	12.4	12.9	13.4
35.0	10.5	10.8	11.5	11.9	12.7	13.2	13.7	14.2
40.5	11.2	11.6	12.3	12.7	13.6	14.2	14.7	15.2
45.0	11.9	12.2	13.0	13.5	14.5	15.0	15.5	16.1
50.0	12.6	13.0	13.9	14.4	15.4	15.9	16.5	17.1
54.4	13.3	13.8	14.7	15.2	16.3	16.9	17.5	18.1
60.0	14.3	14.8	15.8	16.3	17.5	18.1	18.7	19.4

Coefficients of Polynominal Formula

	Capacity （W）	Input （W）	Current （A）
C1	4.588426E+04	5.795067E+03	9.785499E+00
C2	1.386900E+03	6.539534E+01	9.074638E-02
C3	-4.615551E+02	4.392615E+01	8.193782E-02
C4	1.150201E+01	3.980603E-01	7.180364E-04
C5	-1.148863E+01	5.964214E-01	2.460821E-04
C6	1.641169E+00	1.318801E+00	1.293754E-03
C7	2.481624E-04	5.959640E-04	-1.650636E-07
C8	-5.819462E-02	-6.654457E-04	-4.984774E-06
C9	3.189963E-02	-5.027576E-04	7.355292E-06
C10	1.987113E-08	3.837134E-08	6.900538E-12

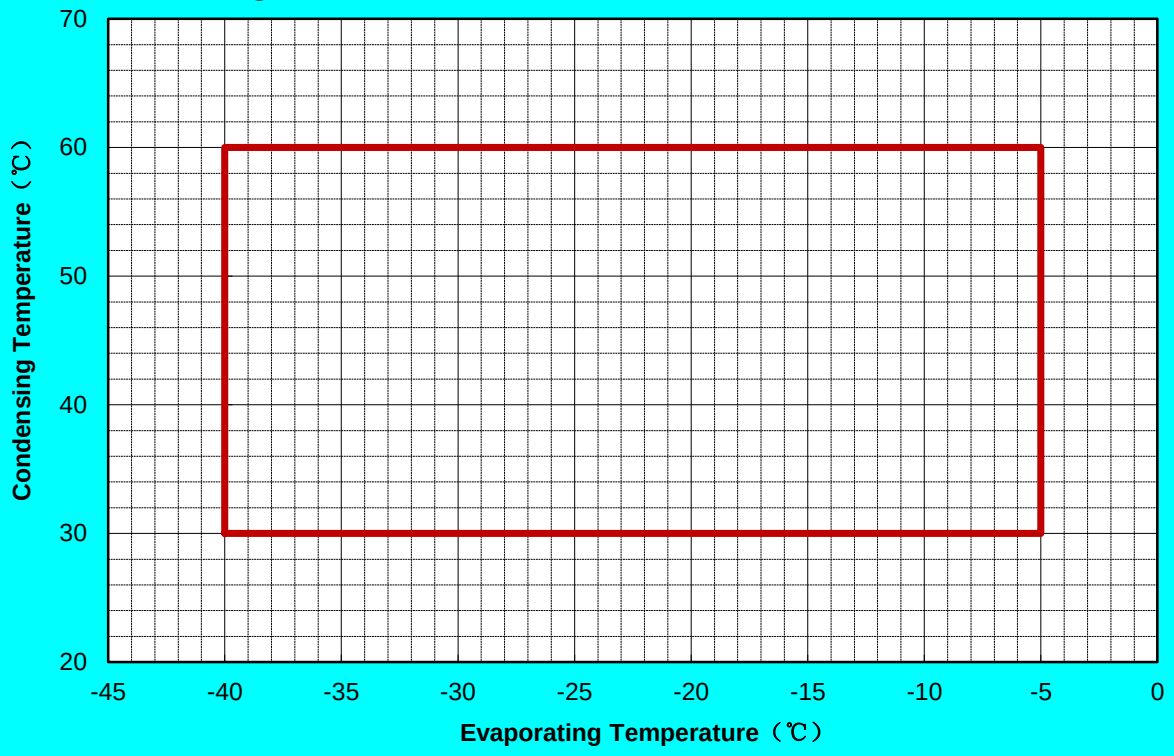
Note:The polynomial coefficients subject to change without notice.

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

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

S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C

Operating Envelope

Suction Gas Temp(℃)：18.3℃
Liquid Injection
Refrigerant：R449A