SPECIFICATIONS OF COMPRESSOR

Model No: C-SBN263H8A

Output : 3.5 HP

Temporary

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

11/May/18

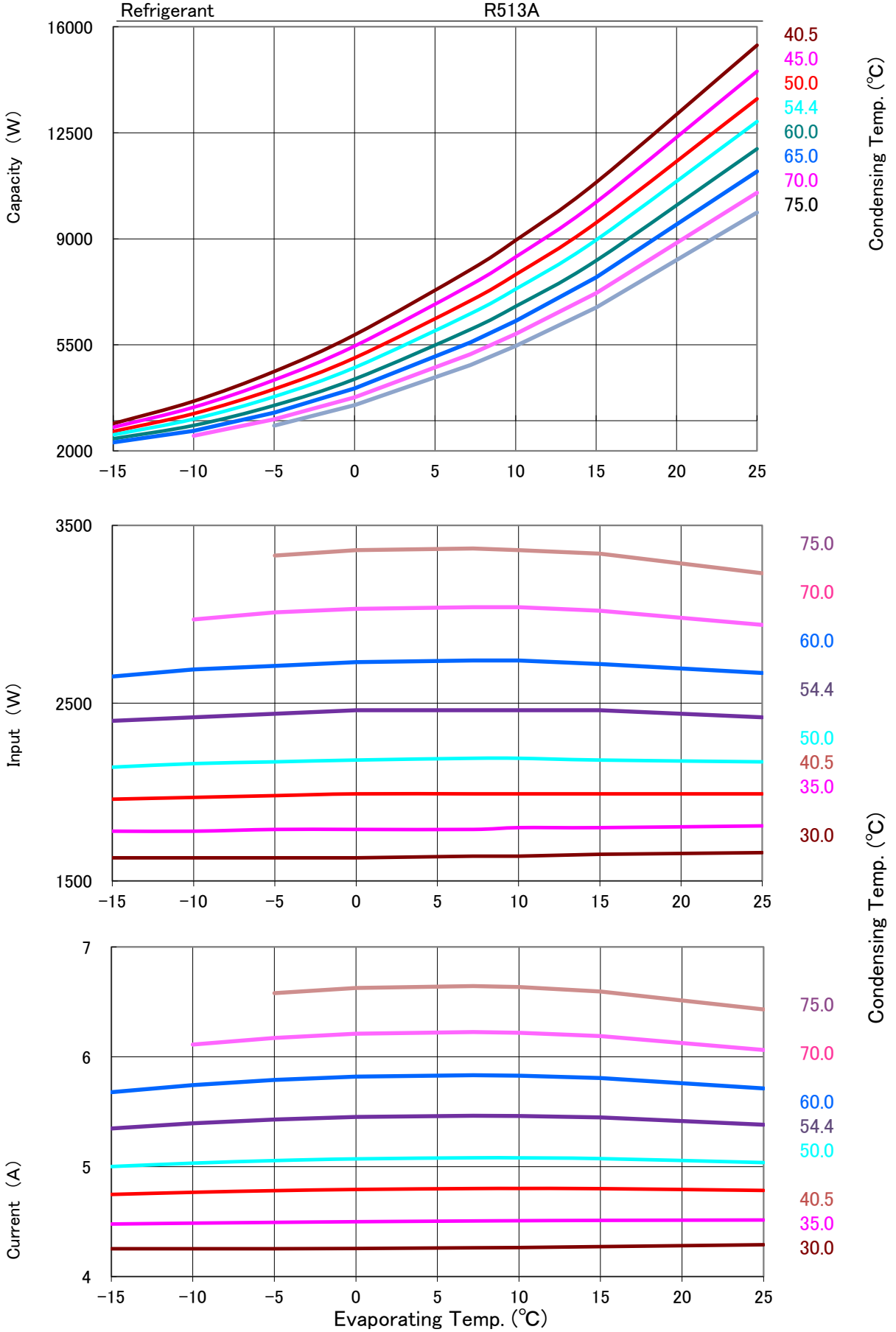
GENERAL SPECIFICATIONS

Model No:		C-SBN263H8A
Application		
Evaporating Temp Range	(℃)	-15 ～ 25
Refrigerant		R513A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	6530/8330
Input	(W)	2190/2670
Current	(A)	4.6/4.6
Revolution	(min^{-1})	2950/3450
Sound Level	(dB(A))	62max / 67max
Rating Conditions		
Power Source		3-PH 50Hz 380V / 60Hz 440V
Evaporating Temp	(℃)	7.2
Condensing Temp	(℃)	54.4
Suction Gas Temp	(℃)	18.3
Liquid Temp	(℃)	46.1
Ambient Temp	(℃)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm3)	55.7
Suction Line Connection	(Φmm 0D)	22.22
Discharge Line Connection	(Φmm 0D)	12.7
Oil	(ml)	1700 (FV68S)
Mass(Incl.Oil)	(kg)	35
Motor		
Type		3-PH Induction Motor(3IR)
Pole		2
Rated Power Source		3-PH 50Hz 380-415V / 60Hz 440-460V
Voltage Range	(V)	342～456 / 396～506
Starting Current	(A)	-

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

PERFORMANCE CURVE

Code No.	C-SBN263H8A
Power Source	3-PH 50Hz 380-415V
Condensing Temp.(℃)	40.5、45、50、54.4、60、65、70、75
Super Heating (K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R513A



PERFORMANCE DATA

Code No.	C-SBN263H8A
Power Source	3-PH 50Hz 380-415V
Condensing Temp.(℃)	40.5、45、50、54.4、60、65、70、75
Super Heating (K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
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Capacity （W）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	2,900	3,640	4,620	5,830	7,980	8,950	10,860	15,390
45.0	2,780	3,440	4,340	5,460	7,480	8,400	10,210	14,530
50.0	2,640	3,230	4,040	5,070	6,960	7,820	9,530	13,620
54.4	2,530	3,050	3,790	4,750	6,530	7,340	8,960	12,870
60.0	2,400	2,840	3,500	4,370	6,010	6,770	8,280	11,970
65.0	2,280	2,660	3,260	4,060	5,580	6,290	7,730	11,220
70.0		2,500	3,040	3,770	5,190	5,860	7,210	10,520
75.0			2,830	3,510	4,830	5,460	6,730	9,870

Input （W）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	1,630	1,630	1,630	1,630	1,640	1,640	1,650	1,660
45.0	1,780	1,780	1,790	1,790	1,790	1,800	1,800	1,810
50.0	1,960	1,970	1,980	1,990	1,990	1,990	1,990	1,990
54.4	2,140	2,160	2,170	2,180	2,190	2,190	2,180	2,170
60.0	2,400	2,420	2,440	2,460	2,460	2,460	2,460	2,420
65.0	2,650	2,690	2,710	2,730	2,740	2,740	2,720	2,670
70.0		2,970	3,010	3,030	3,040	3,040	3,020	2,940
75.0			3,330	3,360	3,370	3,360	3,340	3,230

Current （A）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
45.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
50.0	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3
54.4	4.5	4.5	4.6	4.6	4.6	4.6	4.6	4.5
60.0	4.8	4.9	4.9	5.0	5.0	5.0	4.9	4.9
65.0	5.2	5.2	5.3	5.3	5.3	5.3	5.3	5.2
70.0		5.6	5.7	5.7	5.7	5.7	5.7	5.6
75.0			6.1	6.1	6.1	6.1	6.1	5.9

Coefficients of Polynominal Formula

380V-50Hz	Capacity （W）	Input （W）	Current （A）
C1	1.002074E+04	1.125089E+03	2.385454E+00
C2	4.657855E+02	3.446793E+00	-4.212462E-04
C3	-1.230481E+02	-7.648571E+00	1.499126E-02
C4	5.492245E+00	4.350698E-01	7.000368E-04
C5	-5.902171E+00	-1.596225E-01	-5.073132E-05
C6	4.821924E-01	4.978026E-01	4.638314E-04
C7	9.633332E-05	-8.794521E-04	-6.495419E-07
C8	-1.997293E-02	-9.758702E-03	-1.607175E-05
C9	2.351964E-02	2.281096E-03	1.928413E-06
C10	1.680313E-09	2.386262E-09	9.683979E-13

Note:The polynomial coefficients subject to change without notice.

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

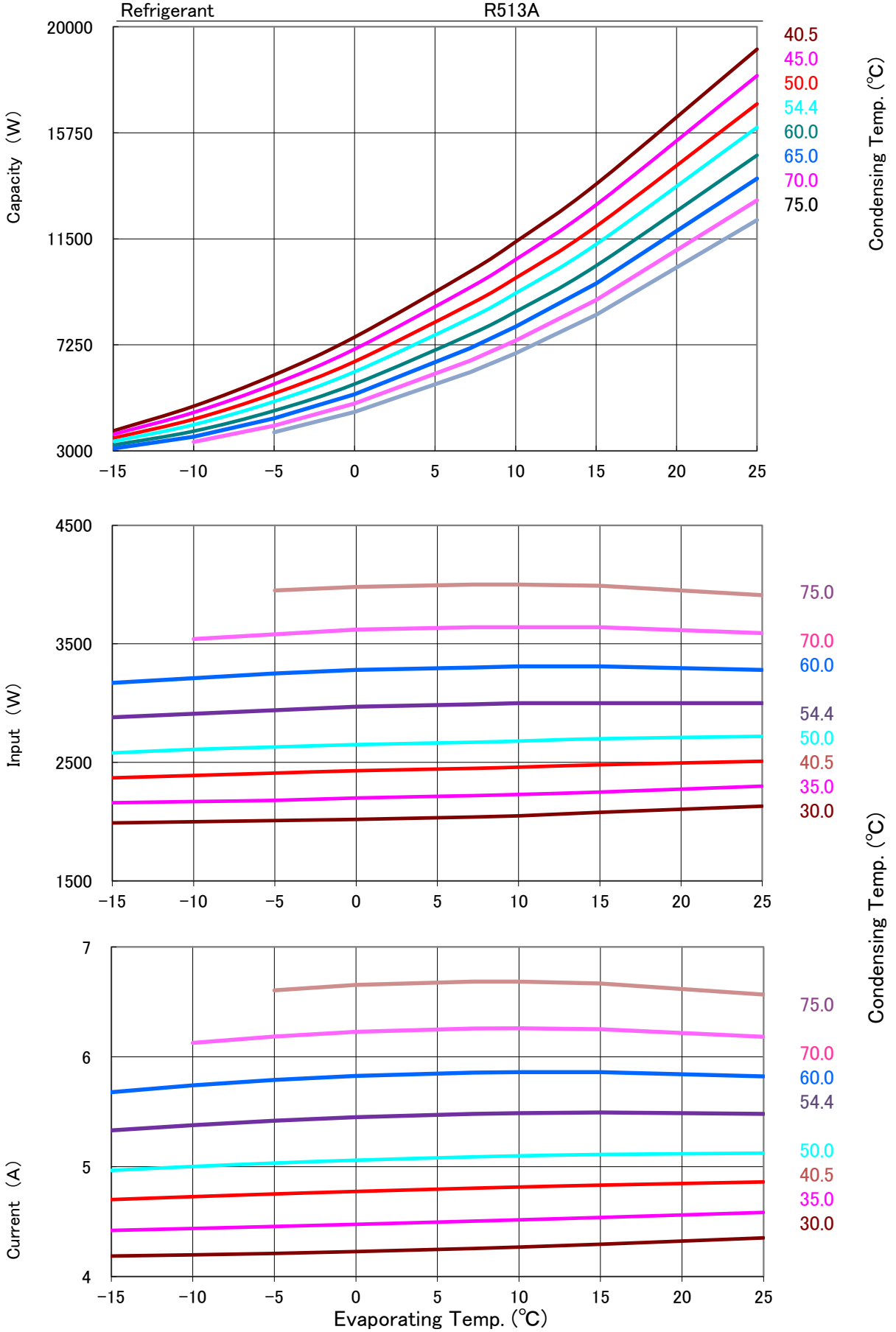
X——CAPACITY(W) OR POWER(W) OR CURRENT(A)

S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C

PERFORMANCE CURVE

Code No.	C-SBN263H8A
Power Source	3-PH 60Hz 440-460V
Condensing Temp.(℃)	40.5、45、50、54.4、60、65、70、75
Super Heating (K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R513A



PERFORMANCE DATA

Code No.	C-SBN263H8A
Power Source	3-PH 60Hz 440-460V
Condensing Temp.(℃)	40.5、45、50、54.4、60、65、70、75
Super Heating (K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R513A

Capacity (W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	3,800	4,790	6,040	7,560	10,200	11,380	13,690	19,100
45.0	3,660	4,540	5,680	7,080	9,560	10,670	12,860	18,040
50.0	3,510	4,270	5,300	6,580	8,890	9,930	12,000	16,910
54.4	3,380	4,050	4,980	6,170	8,330	9,320	11,280	15,970
60.0	3,230	3,790	4,610	5,680	7,670	8,580	10,420	14,850
65.0	3,090	3,570	4,300	5,270	7,120	7,980	9,710	13,920
70.0		3,360	4,010	4,900	6,620	7,420	9,050	13,050
75.0			3,750	4,560	6,160	6,910	8,450	12,250

Input (W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	1,990	2,000	2,010	2,020	2,040	2,050	2,080	2,130
45.0	2,160	2,170	2,180	2,200	2,220	2,230	2,250	2,300
50.0	2,370	2,390	2,410	2,430	2,450	2,460	2,480	2,510
54.4	2,580	2,610	2,630	2,650	2,670	2,680	2,700	2,720
60.0	2,880	2,910	2,940	2,970	2,990	3,000	3,000	3,000
65.0	3,170	3,210	3,250	3,280	3,300	3,310	3,310	3,280
70.0		3,540	3,580	3,620	3,640	3,640	3,640	3,590
75.0			3,950	3,980	4,000	4,000	3,990	3,910

Current (A)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.9
45.0	3.9	3.9	4.0	4.0	4.0	4.0	4.0	4.1
50.0	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.4
54.4	4.5	4.5	4.5	4.6	4.6	4.6	4.6	4.6
60.0	4.8	4.9	4.9	4.9	5.0	5.0	5.0	5.0
65.0	5.2	5.2	5.3	5.3	5.4	5.4	5.4	5.3
70.0		5.6	5.7	5.7	5.8	5.8	5.8	5.7
75.0			6.1	6.2	6.2	6.2	6.2	6.1

Coefficients of Polynominal Formula

440V-60Hz	Capacity (W)	Input (W)	Current (A)
C1	1.290547E+04	1.362938E+03	2.373619E+00
C2	5.907483E+02	8.213739E-01	2.001900E-03
C3	-1.564809E+02	-5.835046E+00	1.350511E-02
C4	5.785928E+00	4.868137E-01	6.042246E-04
C5	-7.699483E+00	2.647097E-02	6.700768E-07
C6	6.011258E-01	5.427902E-01	4.909234E-04
C7	-1.428526E-04	-2.634985E-06	-5.553429E-07
C8	-1.201991E-02	-1.018592E-02	-1.314549E-05
C9	3.085419E-02	5.188010E-04	9.769462E-07
C10	-2.736219E-09	-4.625798E-09	2.111972E-12

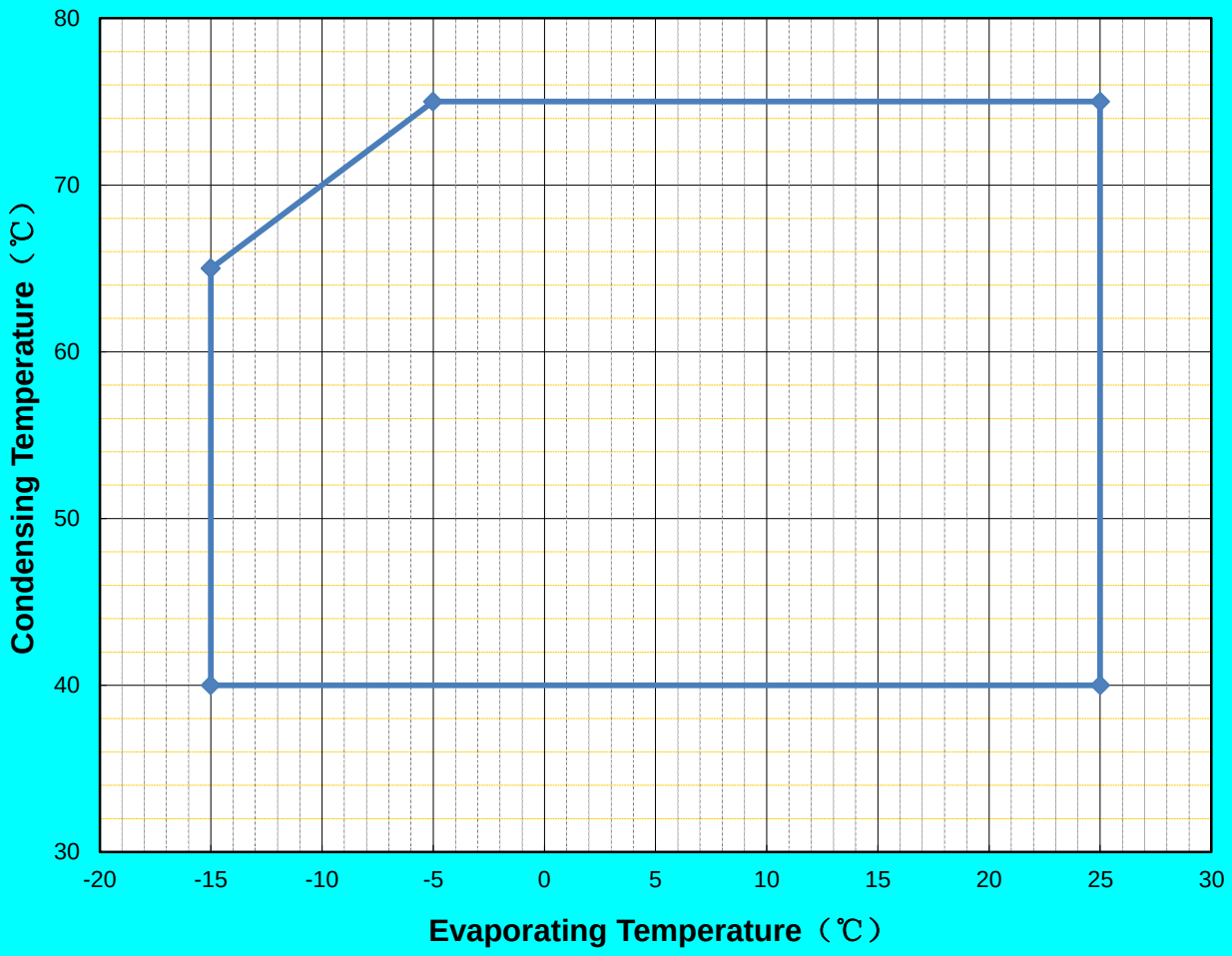
Note:The polynomial coefficients subject to change without notice.

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

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

S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C

Operating Envelope

Suction Gas Superheat： **11.1K**
Sub cooled: **8.3 k**
Refrigerant： **R513A**