SPECIFICATIONS OF COMPRESSOR

Model No: C-SBS215H38L

Output : 6 HP

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

Ver. 2022

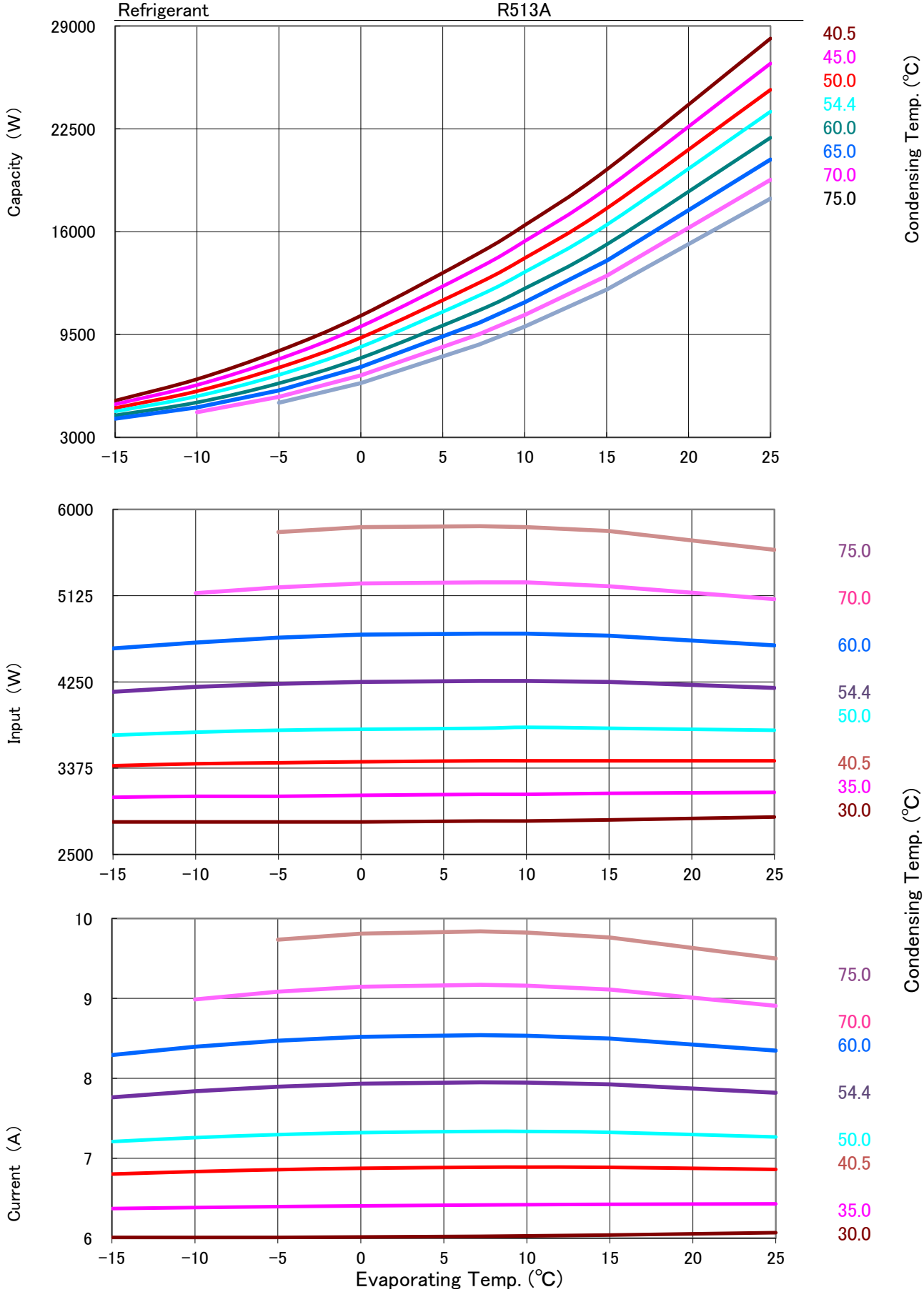
GENERAL SPECIFICATIONS

Model No:		C-SBS215H38L
Application		
Evaporating Temp Range	(℃)	-15 ～ 25
Refrigerant		R513A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	11960/15040
Input	(W)	3780/4570
Current	(A)	7.3/7.3
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)	100.0
Suction Line Connection	(Φmm 0D)	22.22
Discharge Line Connection	(Φmm 0D)	12.7
Oil	(ml)	1700 (FV68S)
Mass(Incl.Oil)	(kg)	39
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-SBS215H38L
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-SBS215H38L
Power Source	3-PH 50Hz 380-415V
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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	5,320	6,680	8,470	10,690	14,640	16,410	19,920	28,210
45.0	5,090	6,310	7,950	10,010	13,720	15,400	18,720	26,630
50.0	4,850	5,920	7,410	9,300	12,760	14,330	17,470	24,970
54.4	4,640	5,600	6,950	8,720	11,960	13,450	16,430	23,590
60.0	4,390	5,210	6,420	8,020	11,020	12,410	15,190	21,940
65.0	4,180	4,890	5,970	7,450	10,240	11,540	14,160	20,560
70.0		4,590	5,560	6,920	9,520	10,740	13,210	19,280
75.0			5,190	6,430	8,860	10,010	12,340	18,090

Input （W）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	2,830	2,830	2,830	2,830	2,840	2,840	2,850	2,880
45.0	3,080	3,090	3,090	3,100	3,110	3,110	3,120	3,130
50.0	3,400	3,420	3,430	3,440	3,450	3,450	3,450	3,450
54.4	3,710	3,740	3,760	3,770	3,780	3,790	3,780	3,760
60.0	4,150	4,200	4,230	4,250	4,260	4,260	4,250	4,190
65.0	4,590	4,650	4,700	4,730	4,740	4,740	4,720	4,620
70.0		5,150	5,210	5,250	5,260	5,260	5,220	5,090
75.0			5,770	5,820	5,830	5,820	5,780	5,590

Current （A）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.1
45.0	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
50.0	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.9
54.4	7.2	7.3	7.3	7.3	7.3	7.3	7.3	7.3
60.0	7.8	7.8	7.9	7.9	8.0	7.9	7.9	7.8
65.0	8.3	8.4	8.5	8.5	8.5	8.5	8.5	8.3
70.0		9.0	9.1	9.1	9.2	9.2	9.1	8.9
75.0			9.7	9.8	9.8	9.8	9.8	9.5

Coefficients of Polynominal Formula

380V-50Hz	Capacity （W）	Input （W）	Current （A）
C1	1.837469E+04	1.974348E+03	3.820386E+00
C2	8.553049E+02	1.143672E+00	-6.418516E-04
C3	-2.256596E+02	-1.407106E+01	2.401665E-02
C4	1.011283E+01	7.487938E-01	1.121369E-03
C5	-1.086156E+01	-1.088724E-01	-8.245470E-05
C6	8.851898E-01	8.682915E-01	7.428248E-04
C7	-5.444298E-04	-5.254716E-04	-1.043913E-06
C8	-3.766916E-02	-1.675745E-02	-2.574407E-05
C9	4.342613E-02	2.435254E-03	3.099436E-06
C10	-3.486738E-09	2.780799E-09	-7.716818E-13

Note: The polynomial coefficients subject to change without notice.

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

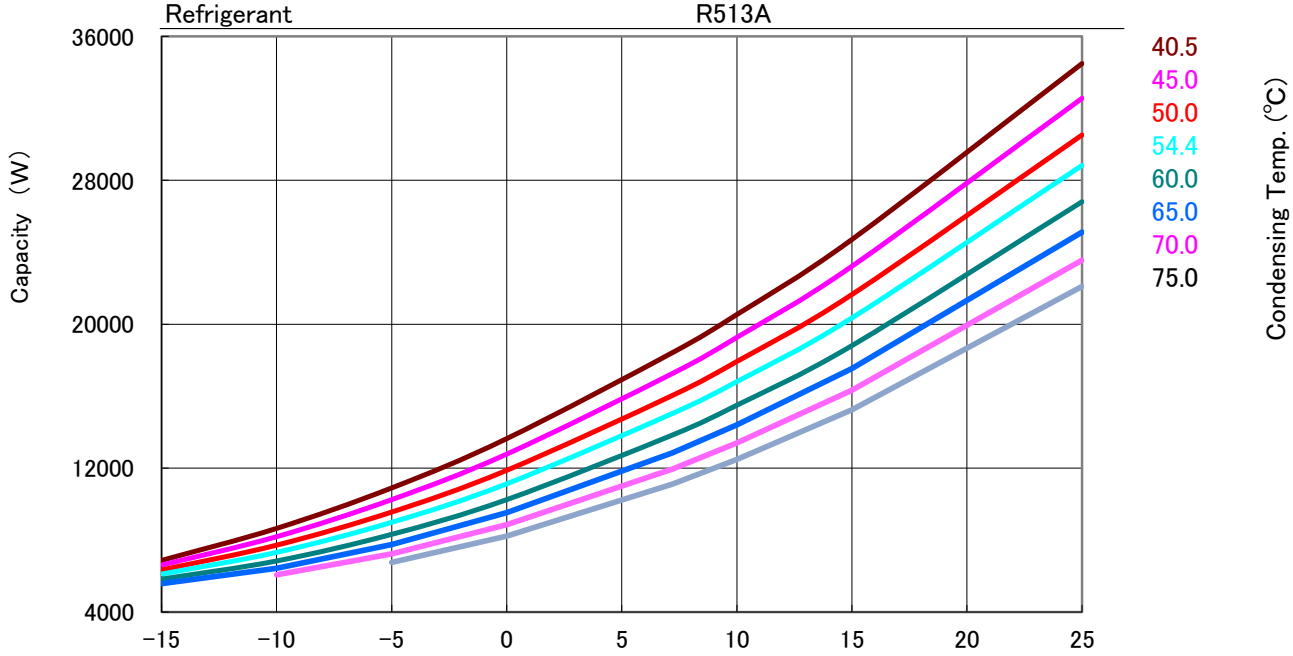
X——CAPACITY(W) OR POWER(W) OR CURRENT(A)

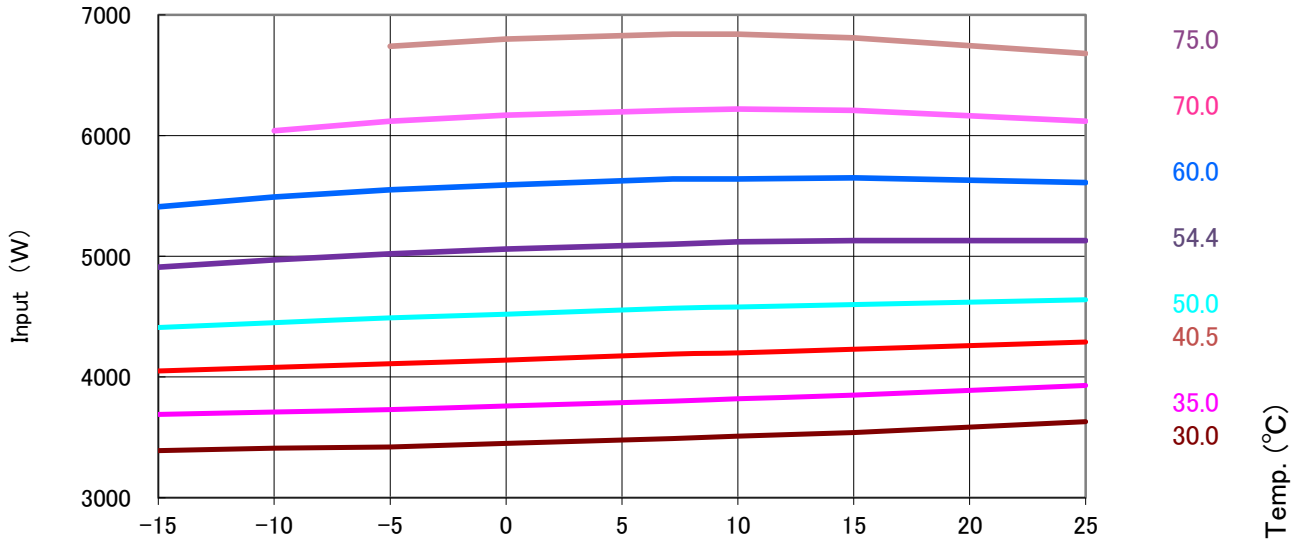
S——EVAPORATING TEMP, °C

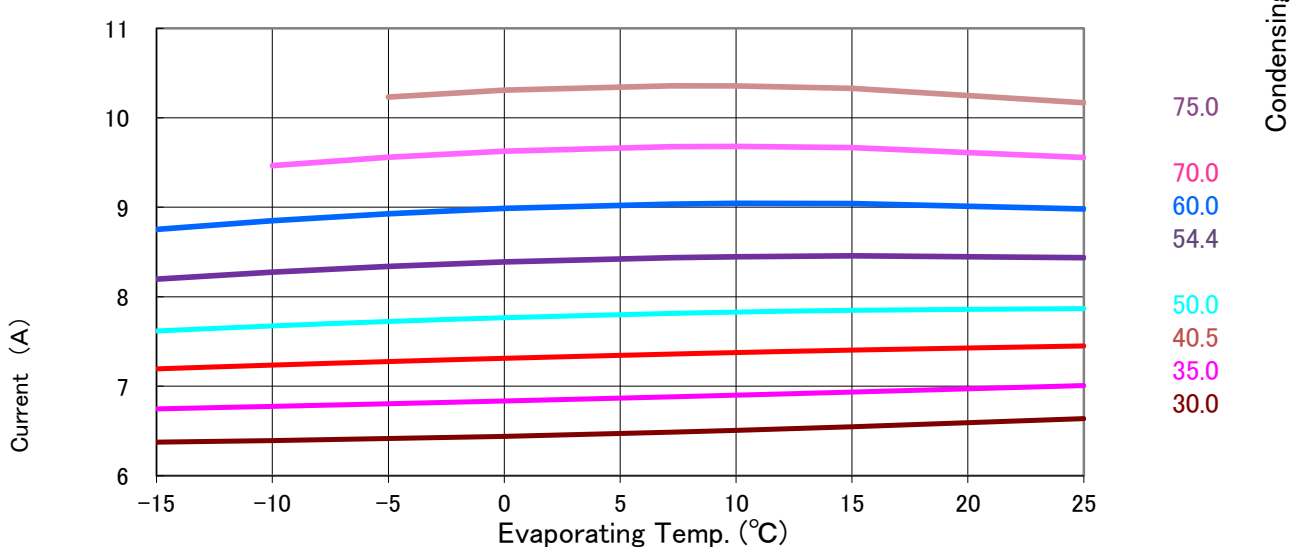
D——CONDENSING TEMP, °C

PERFORMANCE CURVE

Code No.	C-SBS215H38L
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-SBS215H38L
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	6,870	8,650	10,900	13,640	18,420	20,540	24,710	34,490
45.0	6,610	8,190	10,250	12,780	17,260	19,270	23,220	32,560
50.0	6,340	7,720	9,560	11,880	16,040	17,930	21,650	30,520
54.4	6,110	7,320	8,990	11,130	15,040	16,810	20,350	28,830
60.0	5,830	6,840	8,320	10,250	13,840	15,500	18,810	26,810
65.0	5,580	6,440	7,760	9,520	12,860	14,410	17,530	25,120
70.0		6,070	7,240	8,850	11,950	13,400	16,340	23,560
75.0			6,760	8,230	11,120	12,480	15,250	22,100

Input （W）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	3,390	3,410	3,420	3,450	3,490	3,510	3,540	3,630
45.0	3,690	3,710	3,730	3,760	3,800	3,820	3,850	3,930
50.0	4,050	4,080	4,110	4,140	4,190	4,200	4,230	4,290
54.4	4,410	4,450	4,490	4,520	4,570	4,580	4,600	4,640
60.0	4,910	4,970	5,020	5,060	5,100	5,120	5,130	5,130
65.0	5,410	5,490	5,550	5,590	5,640	5,640	5,650	5,610
70.0		6,040	6,120	6,170	6,210	6,220	6,210	6,120
75.0			6,740	6,800	6,840	6,840	6,810	6,680

Current （A）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	5.9	5.9	5.9	5.9	6.0	6.0	6.0	6.1
45.0	6.2	6.3	6.3	6.3	6.4	6.4	6.4	6.5
50.0	6.7	6.7	6.8	6.8	6.9	6.9	6.9	7.0
54.4	7.1	7.2	7.2	7.3	7.3	7.3	7.3	7.4
60.0	7.7	7.8	7.8	7.9	7.9	7.9	8.0	7.9
65.0	8.3	8.4	8.4	8.5	8.5	8.5	8.5	8.5
70.0		9.0	9.1	9.1	9.2	9.2	9.2	9.1
75.0			9.7	9.8	9.9	9.9	9.8	9.7

Coefficients of Polynominal Formula

440V-60Hz	Capacity （W）	Input （W）	Current （A）
C1	2.444540E+04	2.348775E+03	3.793079E+00
C2	1.116254E+03	-4.432402E-01	6.775699E-04
C3	-2.978719E+02	-1.056902E+01	2.115487E-02
C4	1.092649E+01	7.431929E-01	9.370949E-04
C5	-1.454867E+01	1.402712E-01	9.614173E-05
C6	1.155775E+00	9.300586E-01	7.855198E-04
C7	1.894951E-04	-1.479600E-04	-3.278367E-07
C8	-2.218552E-02	-1.552674E-02	-2.035010E-05
C9	5.824424E-02	-1.847911E-04	6.487092E-07
C10	-2.928483E-09	4.659630E-09	1.788665E-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**