SPECIFICATIONS OF COMPRESSOR

Model No: C-SBN263H8A

Output : 3.5 HP

Temporary

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

08/Nov/17

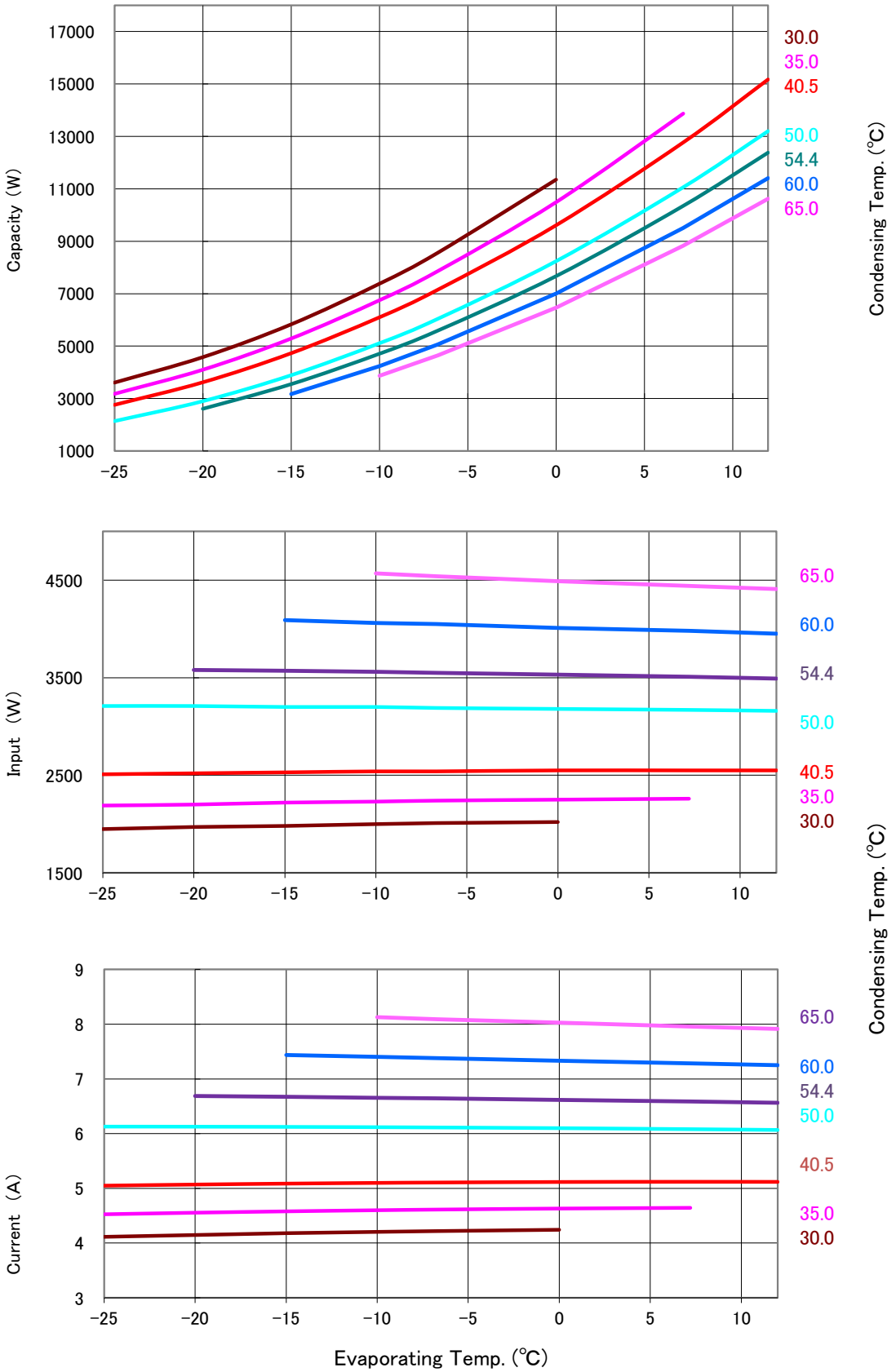
GENERAL SPECIFICATIONS

Model No:		C-SBN263H8A
Application		
Evaporating Temp Range	(℃)	-25 ～ 12
Refrigerant		R449A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	10350 / 12700
Input	(W)	3510 / 4260
Current	(A)	6.6 / 6.7
Revolution	(min^{-1})	2950 / 3450
Sound Level	(dB(A))	62max / 65max
Rating Conditions		
Power Source		3-PH 50Hz 380-415V / 60Hz 440-460V
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)	38
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 380V
Condensing Temp.(℃)	30、35、40.5、50、54.4、60、65
Super Heating (K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R449A



PERFORMANCE DATA

Code No.	C-SBN263H8A
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Condensing Temp.(℃)	30、35、40.5、50、54.4、60、65
Super Heating (K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R449A

Capacity (W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.7	0	7.2	12
30.0	3,610	4,580	5,830	7,380	8,560	11,350		
35.0	3,180	4,100	5,290	6,750	7,860	10,490	13,870	
40.5	2,760	3,620	4,730	6,100	7,150	9,610	12,770	15,170
50.0	2,140	2,900	3,890	5,110	6,040	8,240	11,060	13,200
54.4		2,610	3,550	4,710	5,590	7,670	10,350	12,380
60.0			3,170	4,240	5,060	7,010	9,510	11,410
65.0				3,870	4,650	6,470	8,830	10,620

Input (W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.7	0	7.2	12
30.0	1,950	1,970	1,980	2,000	2,010	2,020		
35.0	2,190	2,200	2,220	2,230	2,240	2,250	2,260	
40.5	2,510	2,520	2,530	2,540	2,540	2,550	2,550	2,550
50.0	3,210	3,210	3,200	3,200	3,190	3,180	3,170	3,160
54.4		3,580	3,570	3,560	3,550	3,530	3,510	3,490
60.0			4,090	4,060	4,050	4,010	3,980	3,950
65.0				4,570	4,540	4,490	4,440	4,410

Current (A)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.7	0	7.2	12
30.0	4.1	4.1	4.2	4.2	4.2	4.2		
35.0	4.5	4.6	4.6	4.6	4.6	4.6	4.6	
40.5	5.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1
50.0	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
54.4		6.7	6.7	6.7	6.6	6.6	6.6	6.6
60.0			7.4	7.4	7.4	7.3	7.3	7.3
65.0				8.1	8.1	8.0	8.0	7.9

Coefficients of Polynominal Formula

	Capacity (W)	Input (W)	Current (A)
C1	1.771021E+04	1.547813E+03	2.995413E+00
C2	6.301831E+02	-1.684137E+00	6.532332E-06
C3	-2.455051E+02	-9.381345E+00	1.083293E-02
C4	7.540224E+00	-9.070531E-02	-1.578947E-04
C5	-6.499913E+00	2.977976E-01	3.153360E-04
C6	1.120040E+00	8.415610E-01	1.024644E-03
C7	1.153526E-03	-1.752955E-04	2.369795E-07
C8	-5.815414E-02	1.390078E-03	2.507915E-06
C9	2.148744E-02	-5.898616E-03	-7.176175E-06
C10	-3.503281E-08	-9.910840E-09	-5.529863E-12

Note:The polynomial coefficients subject to change without notice.

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

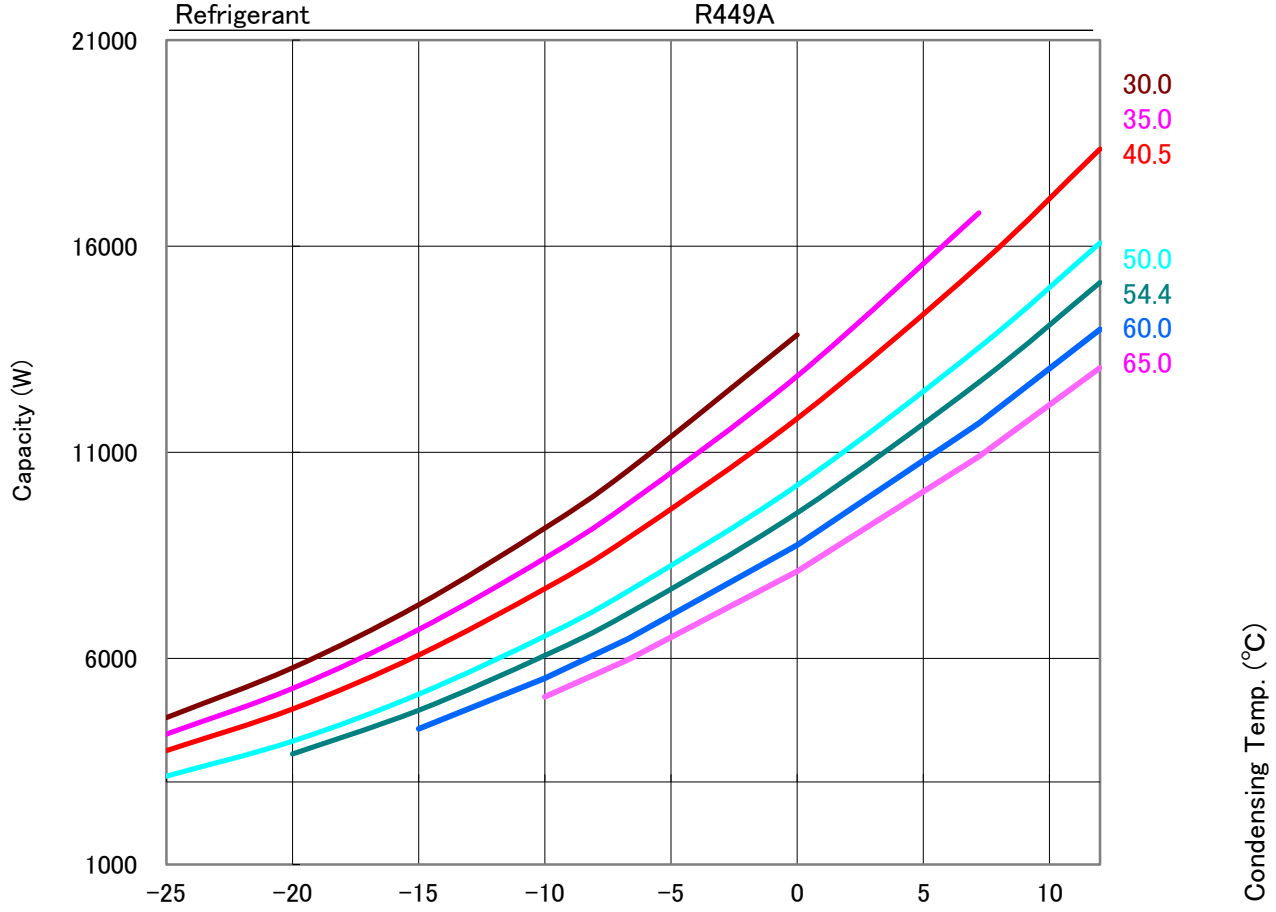
X——CAPACITY(W) OR POWER(W) OR CURRENT(A)

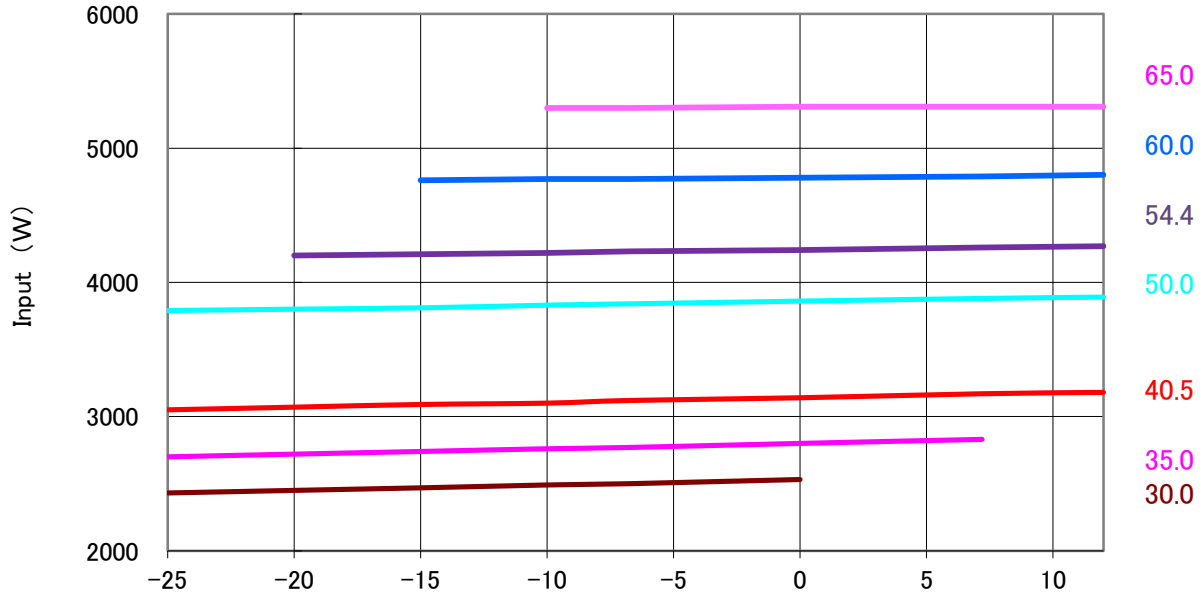
S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C

PERFORMANCE CURVE

Code No.	C-SBN263H8A
Power Source	3-PH 60Hz 440V
Condensing Temp.(℃)	30、35、40.5、50、54.4、60、65
Super Heating (K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R449A

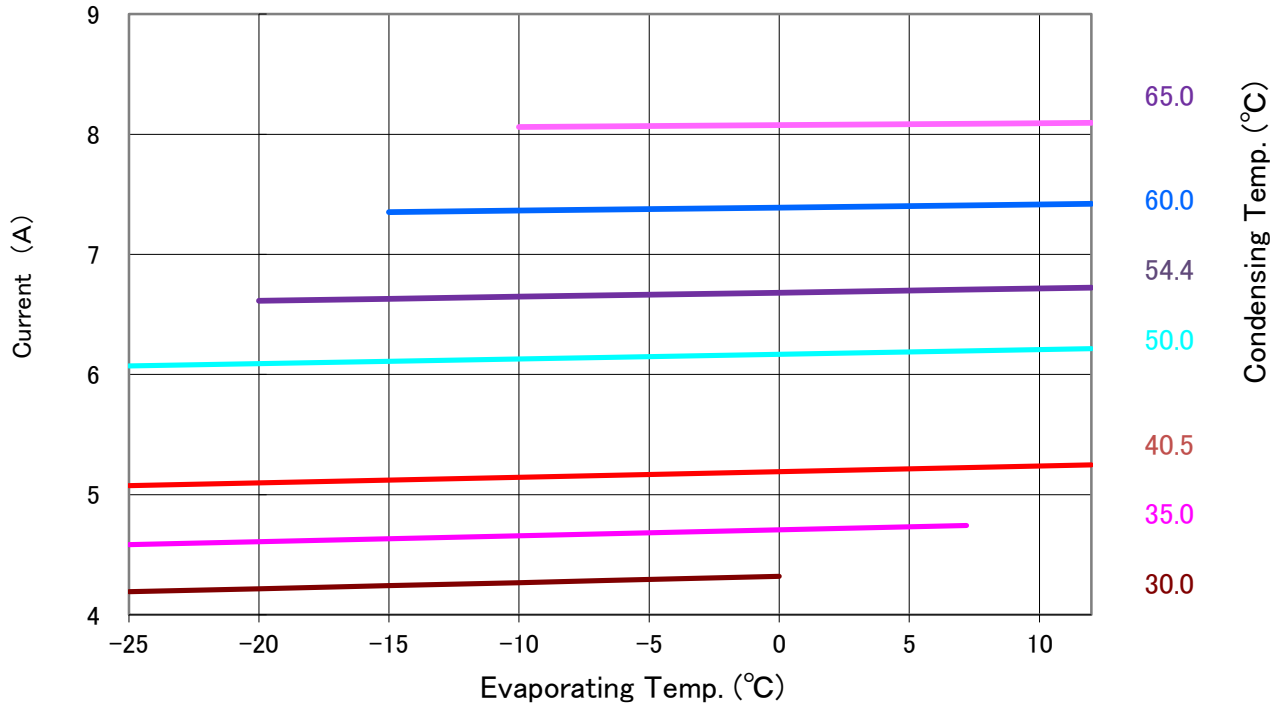




Evaporating Temp. (℃)

PERFORMANCE CURVE

Code No.	C-SBN263H8A
Power Source	3-PH 60Hz 440V
Condensing Temp.(℃)	30、35、40.5、50、54.4、60、65
Super Heating (K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R449A



PERFORMANCE DATA

Code No.	C-SBN263H8A
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Condensing Temp.(℃)	30、35、40.5、50、54.4、60、65
Super Heating (K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R449A

Capacity (W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.7	0	7.2	12
30.0	4,560	5,770	7,300	9,160	10,560	13,850		
35.0	4,160	5,270	6,700	8,430	9,750	12,850	16,810	
40.5	3,760	4,770	6,080	7,690	8,920	11,820	15,530	18,360
50.0	3,140	3,990	5,130	6,540	7,630	10,200	13,540	16,080
54.4		3,680	4,740	6,070	7,090	9,530	12,700	15,120
60.0			4,290	5,520	6,470	8,750	11,710	13,980
65.0				5,070	5,970	8,110	10,900	13,050

Input （W）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.7	0	7.2	12
30.0	2,430	2,450	2,470	2,490	2,500	2,530		
35.0	2,700	2,720	2,740	2,760	2,770	2,800	2,830	
40.5	3,050	3,070	3,090	3,100	3,120	3,140	3,170	3,180
50.0	3,790	3,800	3,810	3,830	3,840	3,860	3,880	3,890
54.4		4,200	4,210	4,220	4,230	4,240	4,260	4,270
60.0			4,760	4,770	4,770	4,780	4,790	4,800
65.0				5,300	5,300	5,310	5,310	5,310

Current （A）

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.7	0	7.2	12
30.0	4.2	4.2	4.2	4.3	4.3	4.3		
35.0	4.6	4.6	4.6	4.7	4.7	4.7	4.7	
40.5	5.1	5.1	5.1	5.1	5.2	5.2	5.2	5.2
50.0	6.1	6.1	6.1	6.1	6.1	6.2	6.2	6.2
54.4		6.6	6.6	6.6	6.7	6.7	6.7	6.7
60.0			7.4	7.4	7.4	7.4	7.4	7.4
65.0				8.1	8.1	8.1	8.1	8.1

Coefficients of Polynominal Formula

	Capacity(W)	Input （W）	Current （A）
C1	2.115061E+04	1.832687E+03	3.031075E+00
C2	7.439005E+02	2.366258E+00	3.579218E-03
C3	-2.798784E+02	-2.577877E+00	1.320924E-02
C4	7.921375E+00	3.609564E-03	9.375960E-06
C5	-7.796794E+00	1.354111E-01	1.240913E-04
C6	1.219260E+00	8.619137E-01	9.905891E-04
C7	8.188403E-04	-2.392825E-04	5.612677E-09
C8	-4.628080E-02	-1.422436E-04	-1.789089E-07
C9	2.729304E-02	-2.518679E-03	-2.363142E-06
C10	-9.526459E-09	-4.361752E-11	4.172612E-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

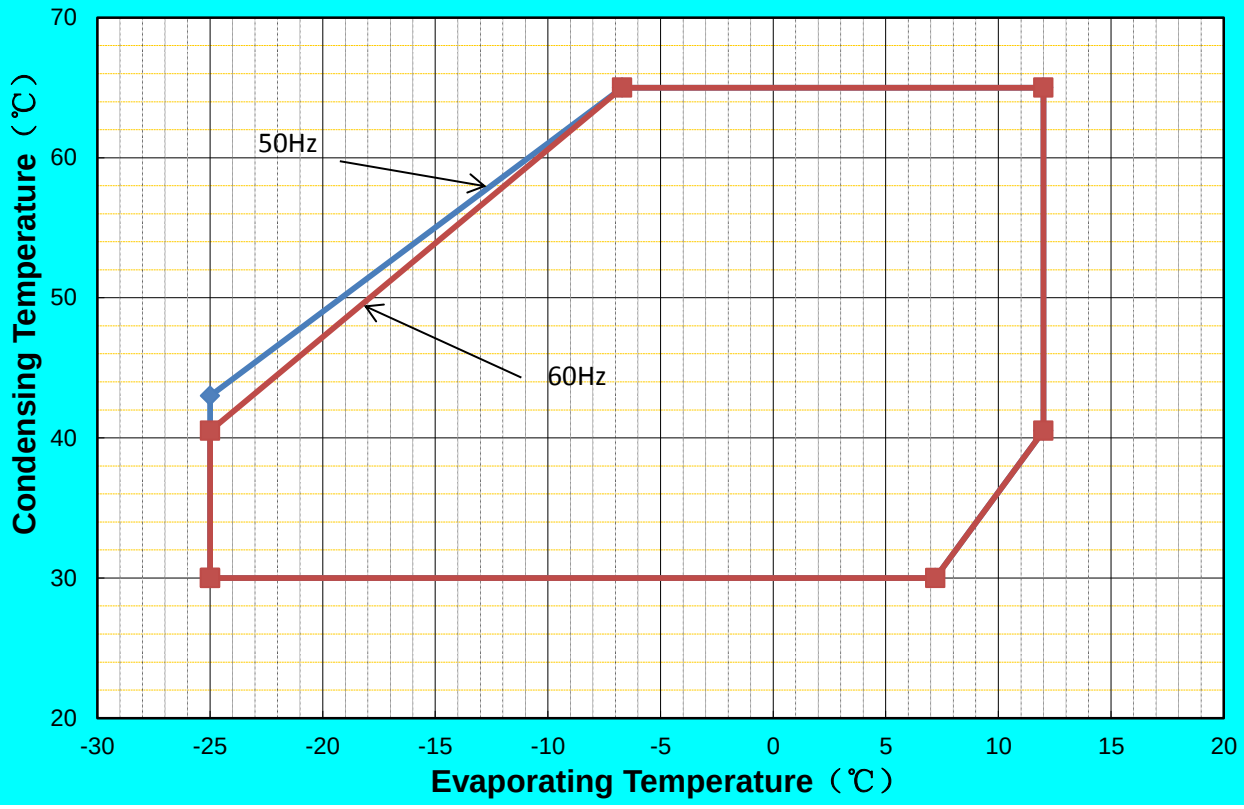
D——CONDENSING TEMP, °C

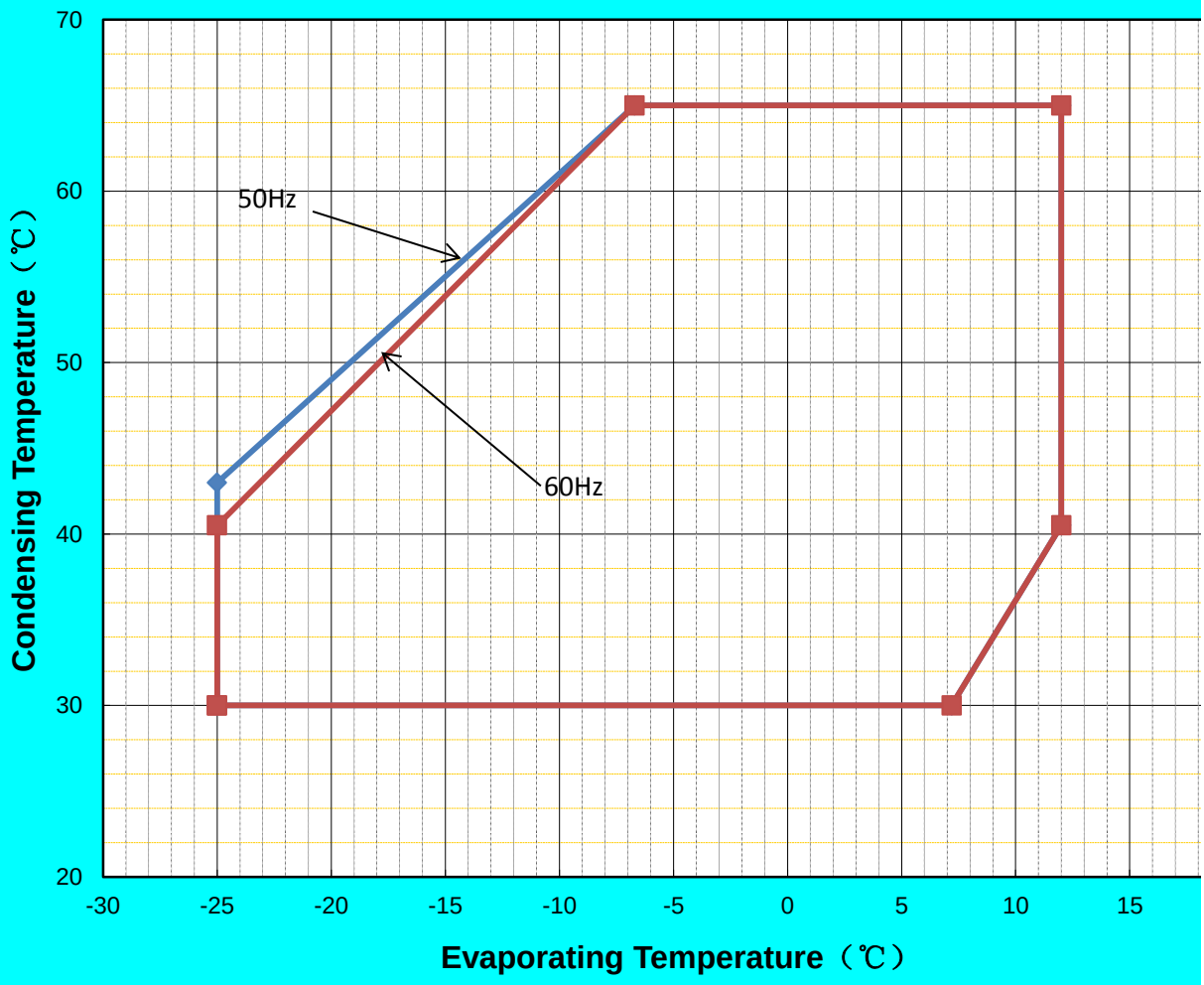
Operating Envelope

Suction Gas Superheat: **11.1K**

Sub cooled: **8.3 k**

Refrigerant: **R449A**



Operating Envelope

Suction Gas Superheat: **11.1K**
Sub cooled: **8.3 k**
Refrigerant: **R449A**