SPECIFICATIONS OF COMPRESSOR

Model No: C-SBS145H15A

Output : 4 HP

Panasonic Appliances Compressor (dalian) Co.,Ltd.

29/Jan/21

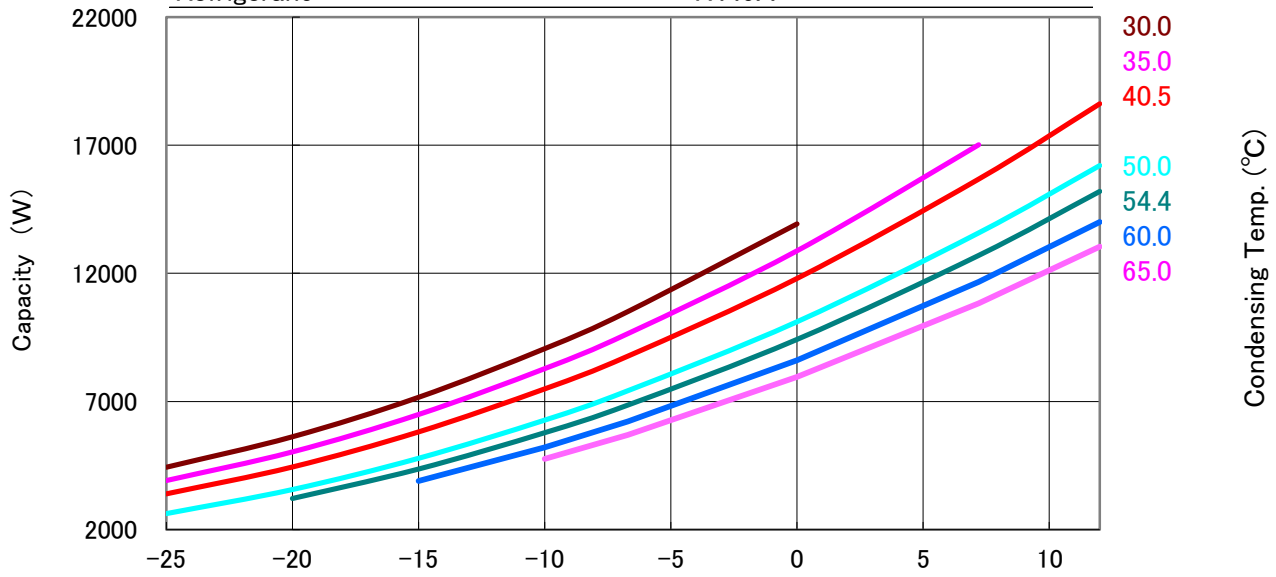
GENERAL SPECIFICATIONS

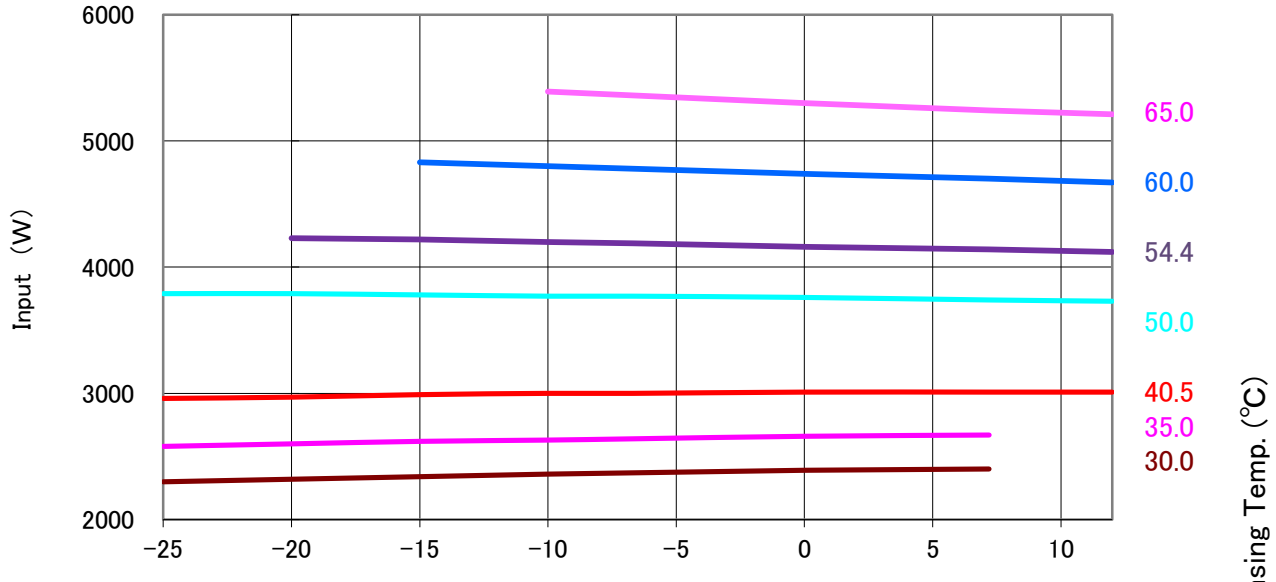
Model No:		C-SBS145H15A
Application		
Evaporating Temp Range	(℃)	-25 ～ 12
Refrigerant		R449A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	12,700
Input	(W)	4,140
Current	(A)	19.4
Revolution	(min^{-1})	2950
Sound Level	(dB(A))	62max
Rating Conditions		
Power Source		1-PH 50Hz 220V
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)	66.8
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		1-PH Induction Motor(PSC)
Pole		2
Rated Power Source		1-PH 50Hz 220-240V
Voltage Range	(V)	198～264
Starting Current	(A)	-

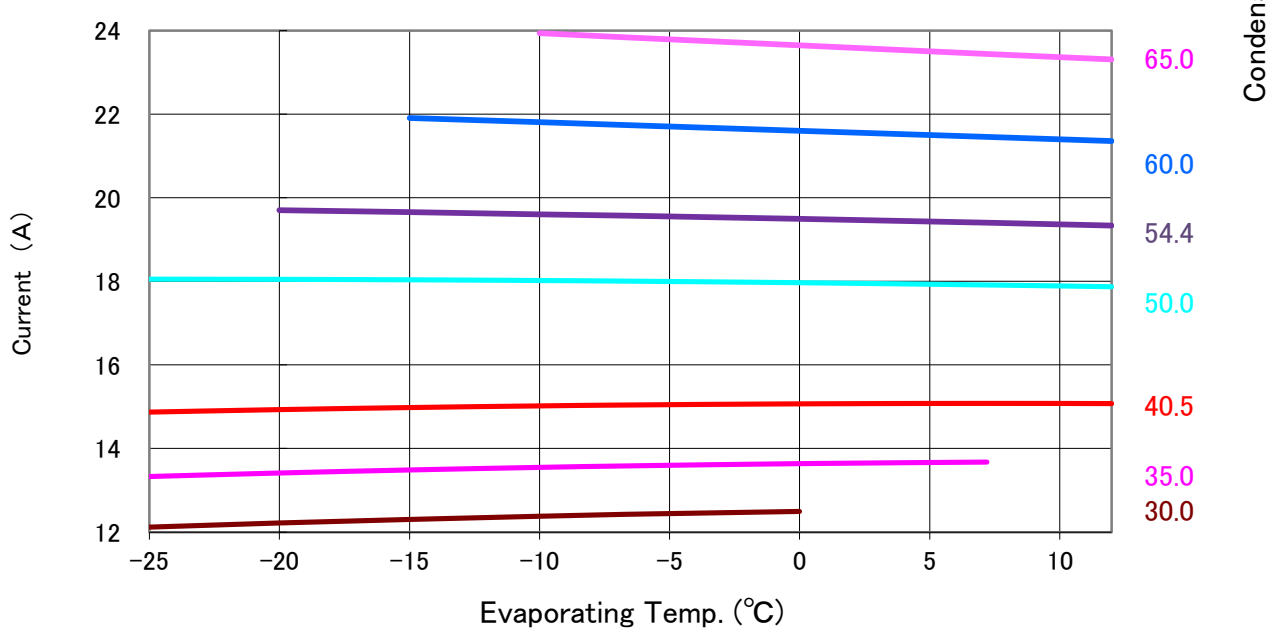
Panasonic Appliances Compressor (dalian) Co.,Ltd.

PERFORMANCE CURVE

Code No.	C-SBS145H15A
Power Source	1-PH 50Hz 220V
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-SBS145H15A
Power Source	1-PH 50Hz 220V
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	4,430	5,620	7,160	9,060	10,510	13,930		
35.0	3,910	5,030	6,490	8,280	9,650	12,880	17,020	
40.5	3,390	4,440	5,810	7,490	8,770	11,800	15,680	18,620
50.0	2,620	3,560	4,780	6,270	7,420	10,110	13,580	16,210
54.4		3,210	4,360	5,780	6,860	9,420	12,700	15,200
60.0			3,890	5,210	6,220	8,600	11,670	14,010
65.0				4,760	5,700	7,950	10,830	13,040

Input (W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.7	0	7.2	12
30.0	2,300	2,320	2,340	2,360	2,370	2,390	2,400	
35.0	2,580	2,600	2,620	2,630	2,640	2,660	2,670	
40.5	2,960	2,970	2,990	3,000	3,000	3,010	3,010	3,010
50.0	3,790	3,790	3,780	3,770	3,770	3,760	3,740	3,730
54.4		4,230	4,220	4,200	4,190	4,160	4,140	4,120
60.0			4,830	4,800	4,780	4,740	4,700	4,670
65.0				5,390	5,360	5,300	5,240	5,210

Current (A)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.7	0	7.2	12
30.0	12.1	12.2	12.3	12.4	12.4	12.5		
35.0	13.3	13.4	13.5	13.5	13.6	13.6	13.7	
40.5	14.9	14.9	15.0	15.0	15.0	15.1	15.1	15.1
50.0	18.1	18.0	18.0	18.0	18.0	18.0	17.9	17.9
54.4		19.7	19.7	19.6	19.6	19.5	19.4	19.3
60.0			21.9	21.8	21.7	21.6	21.5	21.4
65.0				23.9	23.8	23.6	23.4	23.3

Flow(kg/H)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.7	0	7.2	12
30.0	136	162	182	230	269	297		
35.0	133	159	179	226	264	292	322	
40.5	131	157	176	223	260	288	317	341
50.0	129	154	173	219	256	283	312	335
54.4		152	171	216	253	279	308	331
60.0			168	212	248	274	303	325
65.0				209	244	270	298	320

Coefficients of Polynominal Formula

	Capacity(W)	Input （W）	Current （A）	Flow(kg/H)
C1	2.172104E+04	1.828687E+03	8.822412E+00	2.597896E+02
C2	7.710241E+02	-1.866643E+00	3.940191E-05	9.083907E+00
C3	-3.006276E+02	-1.115339E+01	3.191540E-02	-9.178680E-01
C4	9.252609E+00	-1.223062E-01	-4.645094E-04	1.631962E-01
C5	-7.870029E+00	3.418137E-01	9.278376E-04	-2.937532E-02
C6	1.367772E+00	9.942442E-01	3.017887E-03	2.112249E-03
C7	1.945141E-03	2.122187E-04	7.051674E-07	1.798727E-03
C8	-7.104861E-02	2.161497E-03	7.376423E-06	-4.369795E-04
C9	2.523611E-02	-6.833435E-03	-2.112656E-05	4.656851E-05
C10	-3.784368E-08	-1.661160E-08	-2.290077E-11	-2.300089E-10

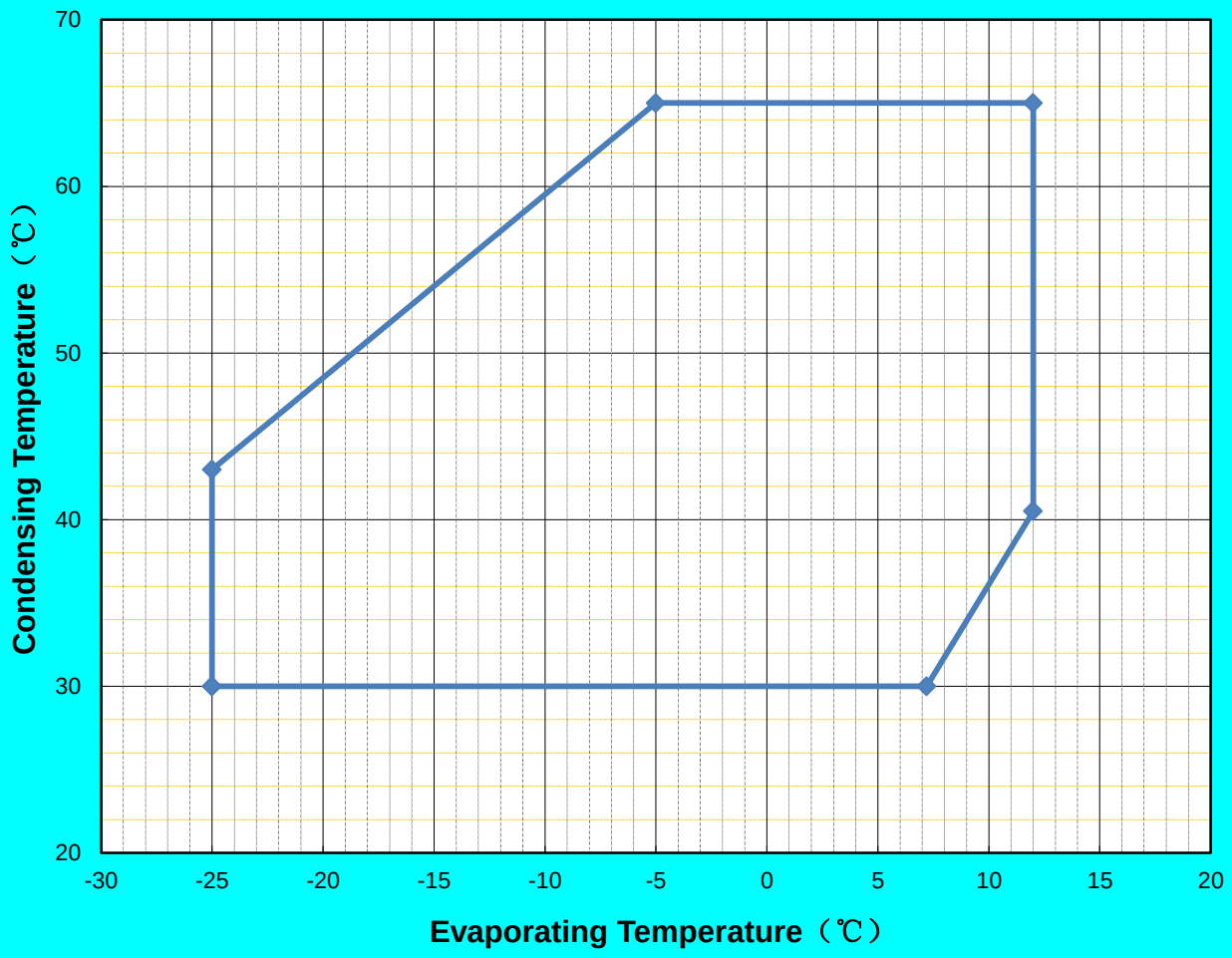
Note:The polynomial coefficients subject to change without notice.

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

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**