SPECIFICATIONS OF COMPRESSOR

Model No: C-SBS145H15A

Output : 4 HP

Temporary

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

19/Jul/19

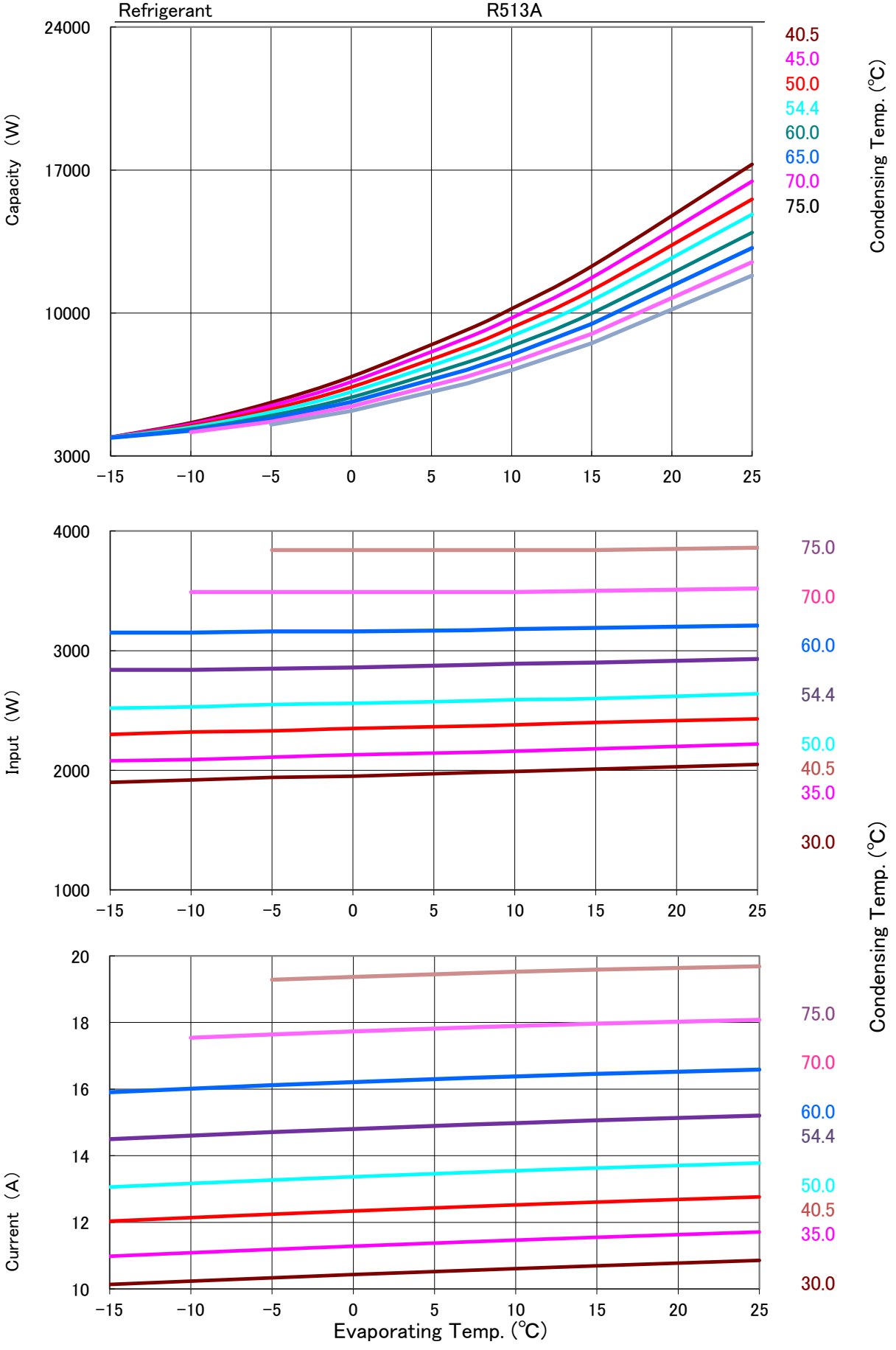
GENERAL SPECIFICATIONS

Model No:		C-SBS145H15A
Application		
Evaporating Temp Range	(℃)	-15 ～ 25
Refrigerant		R513A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	8010
Input	(W)	2580
Current	(A)	13.5
Revolution	(min^{-1})	2900
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.(℃)	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-SBS145H15A
Power Source	1-PH 50Hz 220V
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	3,920	4,630	5,620	6,880	9,170	10,210	12,290	17,280
45.0	3,920	4,560	5,460	6,630	8,780	9,760	11,730	16,450
50.0	3,910	4,480	5,290	6,370	8,360	9,280	11,120	15,570
54.4	3,910	4,410	5,150	6,140	8,010	8,870	10,610	14,830
60.0	3,900	4,320	4,980	5,870	7,580	8,380	9,990	13,940
65.0	3,890	4,240	4,830	5,640	7,220	7,960	9,470	13,190
70.0		4,170	4,680	5,420	6,880	7,570	8,980	12,490
75.0			4,540	5,210	6,550	7,200	8,520	11,830

Input (W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	1,900	1,920	1,940	1,950	1,980	1,990	2,010	2,050
45.0	2,080	2,090	2,110	2,130	2,150	2,160	2,180	2,220
50.0	2,300	2,320	2,330	2,350	2,370	2,380	2,400	2,430
54.4	2,520	2,530	2,550	2,560	2,580	2,590	2,600	2,640
60.0	2,840	2,840	2,850	2,860	2,880	2,890	2,900	2,930
65.0	3,150	3,150	3,160	3,160	3,170	3,180	3,190	3,210
70.0		3,490	3,490	3,490	3,490	3,490	3,500	3,520
75.0			3,840	3,840	3,840	3,840	3,840	3,860

Current (A)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	10.1	10.2	10.3	10.4	10.6	10.6	10.7	10.9
45.0	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7
50.0	12.0	12.1	12.2	12.3	12.5	12.5	12.6	12.8
54.4	13.1	13.2	13.3	13.4	13.5	13.5	13.6	13.8
60.0	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2
65.0	15.9	16.0	16.1	16.2	16.3	16.4	16.5	16.6
70.0		17.5	17.6	17.7	17.9	17.9	18.0	18.1
75.0			19.3	19.4	19.5	19.5	19.6	19.7

Mass Flow(kg/H)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	109	128	151	178	225	246	290	403
45.0	111	130	153	179	226	247	290	400
50.0	113	133	155	182	228	249	291	398
54.4	116	135	157	184	229	250	291	396
60.0	119	138	160	186	231	251	291	393
65.0	122	141	163	188	232	252	292	390
70.0		143	165	191	234	253	292	388
75.0			168	193	235	254	292	385

COP(W/W)

Condensing Temp. (℃) \ Evaporating Temp. (℃)	-15	-10	-5	0	7.2	10	15	25
40.5	2.06	2.41	2.90	3.53	4.63	5.13	6.11	8.43
45.0	1.88	2.18	2.59	3.11	4.08	4.52	5.38	7.41
50.0	1.70	1.93	2.27	2.71	3.53	3.90	4.63	6.41
54.4	1.55	1.74	2.02	2.40	3.10	3.42	4.08	5.62
60.0	1.37	1.52	1.75	2.05	2.63	2.90	3.44	4.76
65.0	1.23	1.35	1.53	1.78	2.28	2.50	2.97	4.11
70.0		1.19	1.34	1.55	1.97	2.17	2.57	3.55
75.0			1.18	1.36	1.71	1.88	2.22	3.06

Coefficients of Polynominal Formula

	Capacity (W)	Input (W)	Current (A)	Mass Flow(kg/H)
C1	9.556653E+03	1.376677E+03	6.984651E+00	1.611002E+02
C2	4.863355E+02	-2.831348E+00	8.829703E-03	6.450422E+00
C3	-7.581890E+01	-7.574820E+00	-8.849002E-03	3.716229E-01
C4	6.812828E+00	-3.612204E-02	5.375544E-05	1.297474E-01
C5	-5.944731E+00	3.094805E-01	4.024328E-04	-1.556422E-02
C6	2.396245E-01	5.390911E-01	2.319789E-03	7.150177E-04
C7	1.348730E-03	4.298779E-04	-9.721205E-08	1.109867E-03
C8	-3.368175E-02	9.899652E-04	-2.882877E-06	-7.474563E-04
C9	2.031945E-02	-3.807182E-03	-3.936888E-06	-1.636800E-06
C10	1.790552E-09	1.210913E-09	8.018575E-12	-8.467806E-11

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