

# SPECIFICATIONS OF COMPRESSOR

Model No: C-SBS180H15A

Output : 5 HP



**Panasonic Appliances Compressor (dalian) Co.,Ltd.**

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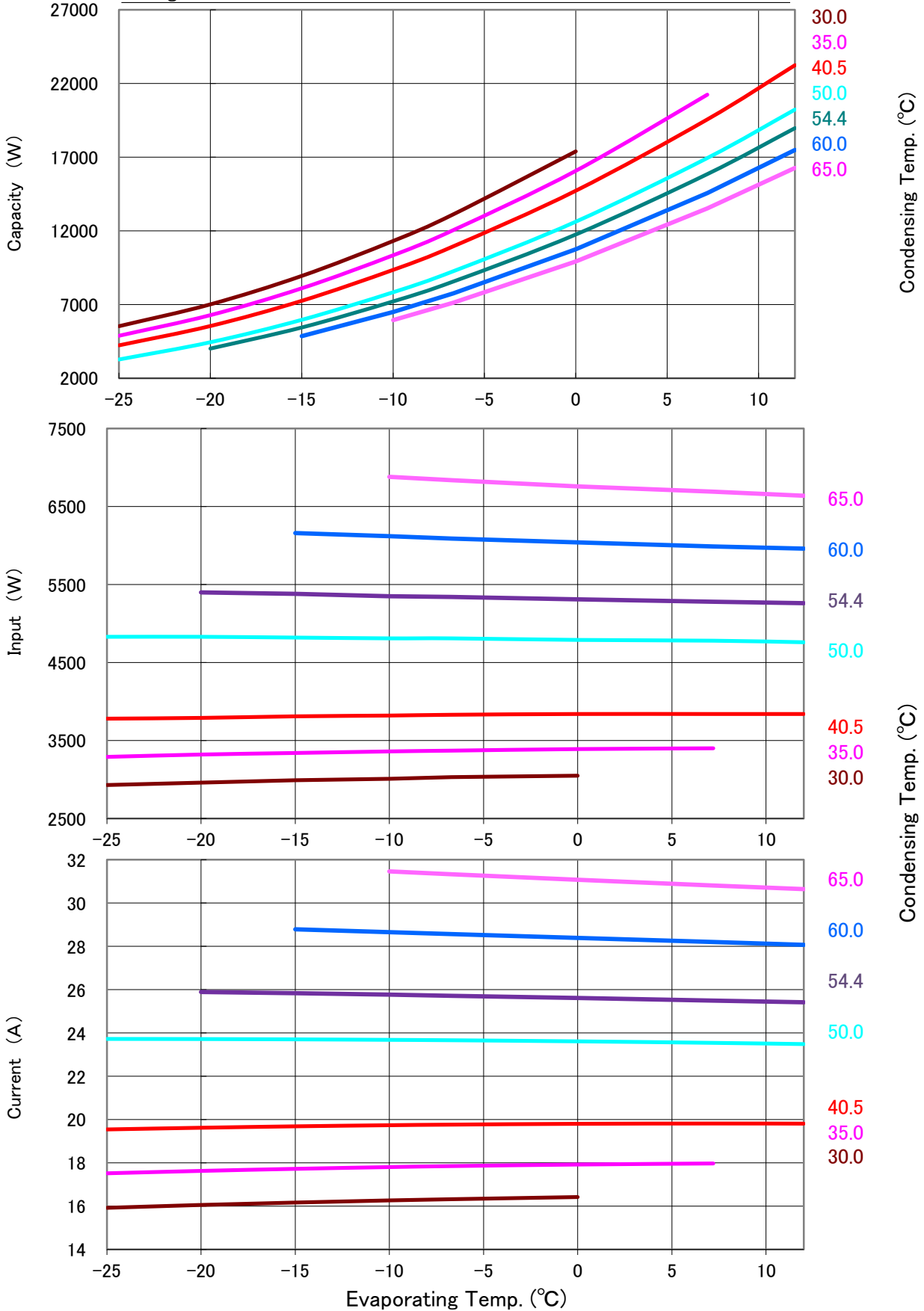
# GENERAL SPECIFICATIONS

Model No:	C-SBS180H15A	
<b>Application</b>		
Evaporating Temp Range	(°C)	-25 ~ 12
Refrigerant		R449A
Compressor Cooling		Natural Cooling
<b>Rated Performance</b>		
Capacity	(W)	15850
Input	(W)	5,280
Current	(A)	25.5
Revolution	(min <sup>-1</sup> )	2950
Sound Level	(dB(A))	62max
<b>Rating Conditions</b>		
Power Source		1-PH 50Hz 220V
Evaporating Temp	(°C)	7.2
Condensing Temp	(°C)	54.4
Suction Gas Temp	(°C)	18.3
Liquid Temp	(°C)	46.1
Ambient Temp	(°C)	35.0
<b>Measuring Point of Sound Level</b>		
Distance from the Compressor	(m)	1.0
<b>Compressor</b>		
Design		Hermetic Scroll
Displacement	(cm <sup>3</sup> )	83.2
Suction Line Connection	(Φ mm OD)	22.22
Discharge Line Connection	(Φ mm OD)	12.7
Oil	(ml)	1400 (FV68S )
Mass(Incl.Oil)	(kg)	40.7
<b>Motor</b>		
Type		1-PH Induction Motor(PSC)
Pole		2
Rated Power Source		1-PH 50Hz 220V
Voltage Range	(V)	198~264
Starting Current	(A)	-

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# PERFORMANCE CURVE

Code No.	C-SBS180H15A
Power Source	1-PH 50Hz 220V
Condensing Temp.(°C)	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-SBS180H15A
Power Source	1-PH 50Hz 220V
Condensing Temp.(°C)	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)							
		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.7	0	7.2	12
Condensing Temp. (°C)	30.0	5,530	7,010	8,940	11,310	13,120	17,390		
	35.0	4,880	6,280	8,100	10,340	12,050	16,070	21,240	
	40.5	4,230	5,540	7,250	9,350	10,950	14,720	19,560	23,240
	50.0	3,270	4,440	5,960	7,830	9,260	12,620	16,940	20,230
	54.4		4,010	5,440	7,210	8,560	11,750	15,850	18,970
	60.0			4,850	6,500	7,760	10,740	14,570	17,480
	65.0				5,940	7,120	9,920	13,520	16,270

		Input (W)							
		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.7	0	7.2	12
Condensing Temp. (°C)	30.0	2,930	2,960	2,990	3,010	3,030	3,050		
	35.0	3,290	3,320	3,340	3,360	3,370	3,390	3,400	
	40.5	3,780	3,790	3,810	3,820	3,830	3,840	3,840	3,840
	50.0	4,830	4,830	4,820	4,810	4,810	4,790	4,780	4,760
	54.4		5,400	5,380	5,350	5,340	5,310	5,280	5,260
	60.0			6,160	6,120	6,090	6,040	5,990	5,960
	65.0				6,880	6,840	6,760	6,690	6,640

		Current (A)							
		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.7	0	7.2	12
Condensing Temp. (°C)	30.0	15.9	16.1	16.2	16.3	16.3	16.4		
	35.0	17.5	17.6	17.7	17.8	17.9	17.9	18.0	
	40.5	19.5	19.6	19.7	19.7	19.8	19.8	19.8	19.8
	50.0	23.7	23.7	23.7	23.7	23.7	23.6	23.5	23.5
	54.4		25.9	25.8	25.8	25.7	25.6	25.5	25.4
	60.0			28.8	28.7	28.6	28.4	28.2	28.1
	65.0				31.5	31.3	31.1	30.8	30.6

		Flow(kg/H)							
		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.7	0	7.2	12
Condensing Temp. (°C)	30.0	169	201	226	286	335	369		
	35.0	166	198	222	281	329	363	401	
	40.5	163	195	219	277	324	358	395	424
	50.0	161	192	215	273	319	352	389	417
	54.4		189	212	269	314	347	383	411
	60.0			208	264	309	341	376	404
	65.0				260	304	335	370	397

### Coefficients of Polynomial Formula

	Capacity(W)	Input (W)	Current (A)	Flow(kg/H)
C1	2.713415E+04	2.355749E+03	1.159643E+01	3.183923E+02
C2	9.626423E+02	-3.114353E+00	-2.085651E-05	1.147647E+01
C3	-3.762548E+02	-1.513218E+01	4.195417E-02	-9.452110E-01
C4	1.152781E+01	-1.659949E-01	-6.114324E-04	2.102191E-01
C5	-9.848329E+00	4.756214E-01	1.222906E-03	-4.120976E-02
C6	1.717616E+00	1.276360E+00	3.966759E-03	6.764431E-04
C7	2.241463E-03	4.457415E-04	9.188817E-07	1.891305E-03
C8	-8.846827E-02	3.191049E-03	9.714124E-06	-7.273477E-04
C9	3.182419E-02	-9.158879E-03	-2.780468E-05	9.788225E-05
C10	-4.086063E-08	-1.613641E-08	-2.418119E-11	1.421924E-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: **8.3K**

Refrigerant: **R449A**

