

# PERFORMANCE DATA

Code No.	C-SBS110H38K
Power Source	3-PH 50Hz 380V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60, 65
Suction Gas Superheat(K)	9
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R407C

Heating Capacity (W)

		Evaporating Temp. (°C)							
		-25	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30	4,660	6,590	7,840	8,800	11,110	12,940	14,270	16,860
	35	4,630	6,500	7,710	8,620	10,830	12,580	13,830	16,290
	40.5	4,600	6,410	7,560	8,430	10,530	12,190	13,370	15,680
	45.0	4,570	6,330	7,440	8,280	10,290	11,880	13,010	15,200
	50.0		6,240	7,310	8,120	10,040	11,540	12,610	14,680
	54.4		6,160	7,200	7,970	9,820	11,250	12,270	14,240
	60.0			7,060	7,800	9,540	10,890	11,850	13,700
	65.0				7,640	9,300	10,590	11,490	13,230

Input (W)

		Evaporating Temp. (°C)							
		-25	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30	1,710	1,780	1,810	1,830	1,880	1,910	1,930	1,970
	35	1,860	1,930	1,970	1,990	2,040	2,080	2,100	2,140
	40.5	2,040	2,120	2,160	2,190	2,250	2,290	2,310	2,360
	45.0	2,200	2,290	2,340	2,370	2,430	2,480	2,500	2,550
	50.0		2,500	2,550	2,580	2,660	2,700	2,730	2,790
	54.4		2,700	2,750	2,790	2,870	2,920	2,960	3,010
	60.0			3,030	3,070	3,160	3,220	3,260	3,320
	65.0				3,340	3,440	3,510	3,550	3,620

Current (A)

		Evaporating Temp. (°C)							
		-25	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30	4.3	4.3	4.4	4.4	4.4	4.5	4.5	4.5
	35	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.8
	40.5	4.7	4.8	4.8	4.9	4.9	5.0	5.0	5.0
	45.0	4.9	5.0	5.1	5.1	5.2	5.2	5.2	5.3
	50.0		5.2	5.3	5.4	5.4	5.5	5.5	5.6
	54.4		5.5	5.5	5.6	5.7	5.8	5.8	5.9
	60.0			5.9	5.9	6.0	6.1	6.2	6.3
	65.0				6.2	6.4	6.5	6.5	6.6

MassFlow(kg/H)

		Evaporating Temp. (°C)							
		-25	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30	66.2	97.3	117.9	133.8	173.1	205.0	228.2	274.5
	35	66.0	96.6	116.9	132.5	171.1	202.3	225.1	270.3
	40.5	65.7	95.8	115.8	131.1	168.9	199.4	221.7	265.8
	45.0	65.4	95.2	114.9	130.0	167.1	197.1	218.9	262.1
	50.0		94.6	113.9	128.8	165.2	194.6	215.9	258.1
	54.4		94.0	113.0	127.7	163.5	192.3	213.3	254.7
	60.0			111.9	126.3	161.4	189.6	210.0	250.3
	65.0				125.1	159.5	187.1	207.1	246.5

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		Evaporating Temp. (°C)							
		-25	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30	2.73	3.70	4.33	4.81	5.91	6.77	7.39	8.56
	35	2.49	3.37	3.91	4.33	5.31	6.05	6.59	7.61
	40.5	2.25	3.02	3.50	3.85	4.68	5.32	5.79	6.64
	45.0	2.08	2.76	3.18	3.49	4.23	4.79	5.20	5.96
	50.0		2.50	2.87	3.15	3.77	4.27	4.62	5.26
	54.4		2.28	2.62	2.86	3.42	3.85	4.15	4.73
	60.0			2.33	2.54	3.02	3.38	3.63	4.13
	65.0				2.29	2.70	3.02	3.24	3.65

Coefficients of Polynomial Formula

	Heating Capacity (W)	Input (W)	Current (A)	MassFlow (kg/h)
C1	1.305460E+04	1.252632E+03	3.261209E+00	1.865109E+02
C2	5.257009E+02	6.411103E+00	1.911092E-03	7.675541E+00
C3	-7.091481E+01	1.005431E+01	3.129298E-02	-4.759465E-01
C4	8.774371E+00	3.541546E-02	1.771177E-05	1.463460E-01
C5	-5.125517E+00	-6.728755E-02	3.847094E-05	-3.570990E-02
C6	2.056761E-01	3.616886E-01	2.497141E-04	9.271440E-04
C7	5.558880E-02	4.005116E-04	-8.273352E-08	1.268924E-03
C8	-7.097272E-02	-2.088324E-04	-4.969698E-07	-5.789286E-04
C9	1.926205E-02	3.081552E-03	3.808473E-06	1.080318E-04
C10	-8.760522E-08	6.252778E-08	8.818488E-11	-4.394307E-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