

PERFORMANCE DATA

Code No.	C-SBS120H15Q
Power Source	1-PH 50Hz 220V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60, 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	4
Compressor Cooling	Gas Injection
Refrigerant	R407C

Test Conditions are Mid point.

Heating Capacity (W)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	5,210	6,870	7,900	9,070	11,980	14,630	15,810	16,710
	35	5,410	7,040	8,030	9,170	11,930	14,430	15,540	16,380
	40.5	5,630	7,230	8,180	9,270	11,890	14,220	15,250	16,020
	45.0	5,830	7,380	8,310	9,350	11,850	14,050	15,010	15,740
	50.0	6,050	7,560	8,450	9,450	11,810	13,860	14,760	15,430
	54.4	6,250	7,720	8,580	9,530	11,770	13,700	14,530	15,160
	60.0		7,930	8,740	9,640	11,720	13,500	14,260	14,830
	65.0			8,890	9,740	11,680	13,320	14,010	14,530

Input (W)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	2,340	2,270	2,240	2,200	2,140	2,090	2,070	2,060
	35	2,560	2,500	2,460	2,430	2,370	2,320	2,310	2,300
	40.5	2,840	2,780	2,750	2,720	2,670	2,630	2,610	2,600
	45.0	3,100	3,050	3,020	3,000	2,950	2,910	2,890	2,880
	50.0	3,420	3,380	3,350	3,330	3,290	3,260	3,250	3,240
	54.4	3,720	3,690	3,670	3,660	3,620	3,600	3,590	3,580
	60.0		4,120	4,110	4,110	4,090	4,080	4,070	4,070
	65.0			4,540	4,540	4,550	4,550	4,550	4,550

Current (A)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	10.9	10.6	10.4	10.3	10.0	9.8	9.8	9.7
	35	11.9	11.6	11.5	11.4	11.1	10.9	10.9	10.8
	40.5	13.2	13.0	12.8	12.7	12.5	12.3	12.2	12.2
	45.0	14.4	14.2	14.1	14.0	13.7	13.6	13.5	13.5
	50.0	15.9	15.7	15.6	15.5	15.3	15.2	15.1	15.1
	54.4	17.3	17.1	17.0	17.0	16.8	16.7	16.7	16.6
	60.0		19.1	19.0	19.0	18.9	18.8	18.8	18.8
	65.0			21.0	21.0	21.0	20.9	20.9	20.9

MassFlow(kg/h)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	105.0	130.8	149.7	192.6	224.2	245.7	268.3	285.1
	35	101.8	126.5	144.8	186.7	217.9	239.1	261.5	278.2
	40.5	98.3	121.9	139.5	180.4	211.0	232.0	254.2	270.8
	45.0	95.6	118.3	135.4	175.4	205.6	226.4	248.4	264.9
	50.0	92.7	114.3	130.9	170.0	199.7	220.3	242.1	258.5
	54.4	90.2	111.0	127.0	165.3	194.6	215.0	236.7	253.0
	60.0		106.8	122.3	159.6	188.4	208.5	230.0	246.2
	65.0			118.2	154.6	183.0	202.9	224.2	240.3

EER

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	2.23	3.03	3.53	4.12	5.60	7.00	7.64	8.11
	35	2.11	2.82	3.26	3.77	5.03	6.22	6.73	7.12
	40.5	1.98	2.60	2.97	3.41	4.45	5.41	5.84	6.16
	45.0	1.88	2.42	2.75	3.12	4.02	4.83	5.19	5.47
	50.0	1.77	2.24	2.52	2.84	3.59	4.25	4.54	4.76
	54.4	1.68	2.09	2.34	2.60	3.25	3.81	4.05	4.23
	60.0		1.92	2.13	2.35	2.87	3.31	3.50	3.64
	65.0			1.96	2.15	2.57	2.93	3.08	3.19

Coefficients of Polynomial Formula

	Heating Capacity (W)	Input (W)	Current (A)	MassFlow (kg/h)
C1	1.245707E+04	1.463059E+03	6.805697E+00	2.775667E+02
C2	4.467805E+02	-3.092925E+00	-1.283023E-02	6.597661E+00
C3	-1.741459E+01	1.361841E+00	1.463775E-02	-1.985096E+00
C4	6.113847E+00	1.303316E-02	5.627411E-05	-7.936610E-03
C5	-3.878526E+00	-2.486939E-01	-9.797130E-04	-8.043297E-02
C6	8.141328E-02	7.061211E-01	3.115050E-03	8.746476E-03
C7	2.418978E-02	-2.819507E-04	-5.347126E-07	-1.379363E-03
C8	-5.990080E-02	-4.605139E-04	-1.484334E-06	-4.047040E-04
C9	4.205566E-03	4.528902E-03	1.737719E-05	5.973331E-04
C10	-3.656278E-08	6.950951E-08	3.522604E-10	-3.247188E-09

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