

PERFORMANCE DATA

Code No.	C-SBS235H38A
Power Source	3Ph 50Hz 380V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60, 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R404A

Capacity (W)

		Evaporating Temp. (°C)							
		-15	-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	30	13,840	16,730	18,960	24,450	28,900	32,140	35,740	38,560
	35	12,410	15,040	17,080	22,100	26,180	29,160	32,470	35,070
	40.5	10,980	13,350	15,190	19,730	23,430	26,130	29,150	31,520
	45.0	9,920	12,090	13,780	17,950	21,360	23,860	26,650	28,850
	50.0	8,860	10,830	12,350	16,160	19,270	21,550	24,110	26,120
	54.4		9,820	11,230	14,730	17,600	19,710	22,080	23,950
	60.0			9,960	13,120	15,720	17,630	19,780	21,480
	65.0				11,880	14,260	16,030	18,010	19,570

Input (W)

		Evaporating Temp. (°C)							
		-15	-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	30	3,850	3,920	3,960	4,060	4,120	4,170	4,210	4,240
	35	4,280	4,350	4,390	4,490	4,550	4,590	4,630	4,660
	40.5	4,830	4,900	4,940	5,030	5,090	5,130	5,170	5,200
	45.0	5,350	5,410	5,450	5,540	5,600	5,630	5,670	5,700
	50.0	5,980	6,040	6,080	6,160	6,210	6,250	6,280	6,310
	54.4		6,660	6,690	6,760	6,810	6,840	6,870	6,890
	60.0			7,540	7,600	7,640	7,660	7,690	7,710
	65.0				8,420	8,450	8,460	8,480	8,490

Current (A)

		Evaporating Temp. (°C)							
		-15	-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	30	7.3	7.4	7.5	7.6	7.7	7.8	7.8	7.9
	35	8.0	8.1	8.2	8.3	8.4	8.5	8.5	8.6
	40.5	8.9	9.0	9.0	9.2	9.2	9.3	9.4	9.4
	45.0	9.6	9.7	9.8	9.9	10.0	10.1	10.1	10.2
	50.0	10.6	10.7	10.8	10.9	11.0	11.0	11.1	11.1
	54.4		11.6	11.7	11.8	11.8	11.9	11.9	12.0
	60.0			12.9	13.0	13.1	13.1	13.1	13.2
	65.0				14.2	14.2	14.3	14.3	14.3

MassFlow (kg/H)

		Evaporating Temp. (°C)							
		-15	-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	30	330	390	440	560	650	720	780	830
	35	320	380	430	550	640	700	770	820
	40.5	310	370	420	540	630	690	750	800
	45.0	310	370	410	530	610	670	740	790
	50.0	300	360	400	510	600	660	720	770
	54.4		350	390	500	590	650	710	760
	60.0			380	490	570	630	690	740
	65.0				480	560	620	680	730

EER

		Evaporating Temp. (°C)							
		-15	-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	30	3.59	4.27	4.79	6.02	7.01	7.71	8.49	9.09
	35	2.90	3.46	3.89	4.92	5.75	6.35	7.01	7.53
	40.5	2.27	2.72	3.07	3.92	4.60	5.09	5.64	6.06
	45.0	1.85	2.23	2.53	3.24	3.81	4.24	4.70	5.06
	50.0	1.48	1.79	2.03	2.62	3.10	3.45	3.84	4.14
	54.4		1.47	1.68	2.18	2.58	2.88	3.21	3.48
	60.0			1.32	1.73	2.06	2.30	2.57	2.79
	65.0				1.41	1.69	1.89	2.12	2.31

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)	MassFlow (kg/h)
C1	4.270157E+04	2.863733E+03	5.237185E+00	6.357786E+02
C2	1.515941E+03	6.841105E+00	1.450690E-02	2.159097E+01
C3	-7.218722E+02	7.257594E-01	2.862342E-02	-2.493600E+00
C4	2.328008E+01	7.602046E-02	5.383136E-05	2.097061E-01
C5	-2.256449E+01	4.752024E-01	5.378310E-04	-5.724807E-02
C6	3.811921E+00	1.304214E+00	1.683339E-03	6.735687E-04
C7	1.654660E-01	-2.076911E-04	8.985538E-08	-1.887857E-03
C8	-1.977227E-01	-1.338846E-03	-7.486374E-07	1.308730E-03
C9	1.042644E-01	-7.451790E-03	-9.515767E-06	-7.138040E-05
C10	1.155681E-08	1.504982E-09	1.307781E-12	1.423930E-08

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) OR MassFlow(kg/H)

S—EVAPORATING TEMP, °C

D—CONDENSING TEMP, °C