

PERFORMANCE DATA

Compressor Model(Code)	C-SCN903H8H (809 121 88)
Power Source	3PH 50Hz 380-415V
Suction Gas Superheat(K)	11.1
Sub Cooling(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R134a

**CAPACITY(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
40.5	12,520	15,160	17,210	22,250	26,340	29,320	32,650	35,250
45.0	11,720	14,220	16,160	20,960	24,860	27,710	30,890	33,380
50.0	10,880	13,240	15,070	19,610	23,300	26,010	29,030	31,410
54.4	10,190	12,430	14,170	18,490	22,010	24,600	27,490	29,760
60.0		11,470	13,100	17,150	20,470	22,920	25,650	27,800
65.0			12,220	16,050	19,200	21,520	24,120	26,160
70.0				15,040	18,020	20,230	22,700	24,650

POWER(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
40.5	5,470	5,560	5,600	5,630	5,620	5,590	5,560	5,530
45.0	6,020	6,100	6,140	6,170	6,160	6,150	6,120	6,090
50.0	6,700	6,770	6,810	6,850	6,850	6,840	6,810	6,790
54.4	7,360	7,430	7,470	7,510	7,520	7,510	7,500	7,490
60.0		8,350	8,380	8,430	8,450	8,460	8,460	8,460
65.0			9,290	9,340	9,370	9,390	9,410	9,420
70.0				10,320	10,370	10,400	10,440	10,460

CURRENT(A)

@380V

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
40.5	10.9	11.0	11.0	11.1	11.0	11.0	10.9	10.9
45.0	11.6	11.7	11.8	11.8	11.8	11.8	11.7	11.7
50.0	12.5	12.6	12.7	12.7	12.7	12.7	12.7	12.6
54.4	13.3	13.4	13.5	13.6	13.6	13.6	13.6	13.6
60.0		14.5	14.6	14.8	14.8	14.8	14.8	14.8
65.0			15.7	15.9	16.0	16.0	16.0	16.0
70.0				17.1	17.2	17.2	17.3	17.3

NOTE:

* The performance values subject to change without notice.

PERFORMANCE DATA

Code No.	C-SCN903H8H
Power Source	3-HP 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	24,760	30,120	34,290	44,600	53,000	59,160	66,030	71,420
	35	22,330	27,190	30,970	40,320	47,950	53,540	59,790	64,690
	40.5	19,890	24,240	27,620	36,000	42,850	47,870	53,480	57,880
	45.0	18,070	22,030	25,120	32,770	39,030	43,620	48,750	52,780
	50.0	16,230	19,810	22,590	29,500	35,160	39,310	43,950	47,600
	54.4		18,040	20,580	26,910	32,080	35,890	40,140	43,480
	60.0			18,320	23,980	28,610	32,020	35,830	38,830
	65.0				21,710	25,930	29,030	32,500	35,240

Input (W)

		Evaporating Temp. (°C)							
		-15	-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	30	7,150	7,250	7,320	7,460	7,560	7,620	7,680	7,720
	35	7,860	7,970	8,050	8,210	8,310	8,380	8,450	8,500
	40.5	8,750	8,880	8,970	9,140	9,260	9,340	9,420	9,470
	45.0	9,580	9,720	9,810	10,010	10,140	10,220	10,300	10,370
	50.0	10,590	10,740	10,850	11,060	11,210	11,300	11,390	11,460
	54.4		11,730	11,840	12,080	12,240	12,340	12,440	12,520
	60.0			13,220	13,490	13,670	13,780	13,900	13,980
	65.0				14,860	15,060	15,180	15,310	15,400

Current (A)

		Evaporating Temp. (°C)							
		-15	-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	30	12.5	12.6	12.7	12.9	13.1	13.1	13.2	13.3
	35	13.6	13.8	13.9	14.1	14.3	14.4	14.5	14.6
	40.5	15.1	15.3	15.4	15.6	15.8	15.9	16.1	16.1
	45.0	16.4	16.6	16.7	17.0	17.2	17.4	17.5	17.6
	50.0	17.9	18.2	18.4	18.7	18.9	19.1	19.2	19.3
	54.4		19.7	19.9	20.3	20.6	20.7	20.9	21.0
	60.0			22.1	22.5	22.8	23.0	23.2	23.3
	65.0				24.7	25.0	25.2	25.4	25.6

MassFlow(kg/H)

		Evaporating Temp. (°C)							
		-15	-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	30	600	720	810	1,030	1,190	1,310	1,440	1,530
	35	590	700	790	1,000	1,170	1,280	1,400	1,500
	40.5	580	690	770	980	1,140	1,250	1,370	1,460
	45.0	560	670	760	960	1,120	1,230	1,340	1,430
	50.0	550	660	740	940	1,090	1,200	1,310	1,400
	54.4		640	730	920	1,070	1,180	1,290	1,370
	60.0			710	900	1,050	1,150	1,260	1,340
	65.0				880	1,020	1,120	1,230	1,310

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		Evaporating Temp. (°C)							
		-15	-10	-6.7	0	4.4	7.2	10	12
Condensing Temp. (°C)	30	3.46	4.15	4.68	5.98	7.01	7.76	8.60	9.25
	35	2.84	3.41	3.85	4.91	5.77	6.39	7.08	7.61
	40.5	2.27	2.73	3.08	3.94	4.63	5.13	5.68	6.11
	45.0	1.89	2.27	2.56	3.27	3.85	4.27	4.73	5.09
	50.0	1.53	1.84	2.08	2.67	3.14	3.48	3.86	4.15
	54.4		1.54	1.74	2.23	2.62	2.91	3.23	3.47
	60.0			1.39	1.78	2.09	2.32	2.58	2.78
	65.0				1.46	1.72	1.91	2.12	2.29

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)	MassFlow (kg/h)
C1	7.802182E+04	5.191020E+03	8.906103E+00	1.165114E+03
C2	2.982085E+03	1.572374E+01	2.139267E-02	4.170166E+01
C3	-1.322705E+03	1.315412E+01	4.107493E-02	-4.835989E+00
C4	4.666943E+01	2.592669E-03	-2.829557E-05	5.742295E-01
C5	-4.771331E+01	-4.305632E-03	-1.076743E-04	-2.164210E-01
C6	7.026614E+00	2.085960E+00	3.096173E-03	6.692608E-03
C7	3.081073E-01	-2.333381E-03	-4.108378E-08	-2.564048E-04
C8	-4.423780E-01	6.617358E-04	2.011058E-06	-2.387291E-03
C9	2.328438E-01	6.907089E-03	1.413433E-05	7.600328E-04
C10	-7.880338E-09	-2.071139E-09	-5.099515E-12	-1.500763E-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

PERFORMANCE DATA

Compressor Model(Code)	C-SCN903H8H (809 121 88)
Power Source	3PH 50Hz 380-415V
Suction Gas Superheat(K)	9
Sub Cooling(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R407C

**CAPACITY(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	19,690	24,030	27,410	35,810	42,680	47,720	53,360	57,790
40.5	18,020	22,000	25,100	32,800	39,100	43,720	48,890	52,960
45.0	16,750	20,450	23,330	30,500	36,360	40,660	45,480	49,260
50.0	15,430	18,840	21,500	28,110	33,520	37,490	41,930	45,430
54.4		17,530	20,010	26,160	31,200	34,900	39,040	42,290
60.0			18,260	23,880	28,490	31,870	35,650	38,630
65.0				22,040	26,290	29,420	32,910	35,660

POWER(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	6,930	7,120	7,220	7,350	7,380	7,380	7,360	7,330
40.5	7,840	8,020	8,120	8,250	8,280	8,290	8,280	8,260
45.0	8,720	8,880	8,970	9,100	9,140	9,150	9,160	9,150
50.0	9,820	9,960	10,040	10,160	10,210	10,240	10,260	10,260
54.4		11,020	11,080	11,200	11,260	11,300	11,330	11,360
60.0			12,560	12,660	12,740	12,800	12,860	12,900
65.0				14,100	14,200	14,270	14,360	14,430

CURRENT(A)

@380V

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	12.0	12.4	12.6	12.8	12.9	12.9	12.8	12.8
40.5	13.5	13.8	14.0	14.2	14.3	14.3	14.3	14.2
45.0	14.9	15.2	15.3	15.6	15.6	15.6	15.6	15.6
50.0	16.7	16.9	17.0	17.2	17.3	17.3	17.3	17.3
54.4		18.6	18.6	18.7	18.8	18.9	19.0	19.0
60.0			20.9	20.9	21.0	21.1	21.3	21.4
65.0				23.1	23.2	23.3	23.5	23.6

NOTE:

- * The performance values are based on MID point method.
- * The performance values subject to change without notice.