

SPECIFICATIONS OF COMPRESSOR

Model No: C-SCP315H38Q

Output : 10 HP

Temporary

DALIAN SANYO COMPRESSOR Co.,Ltd.

26-Nov-12

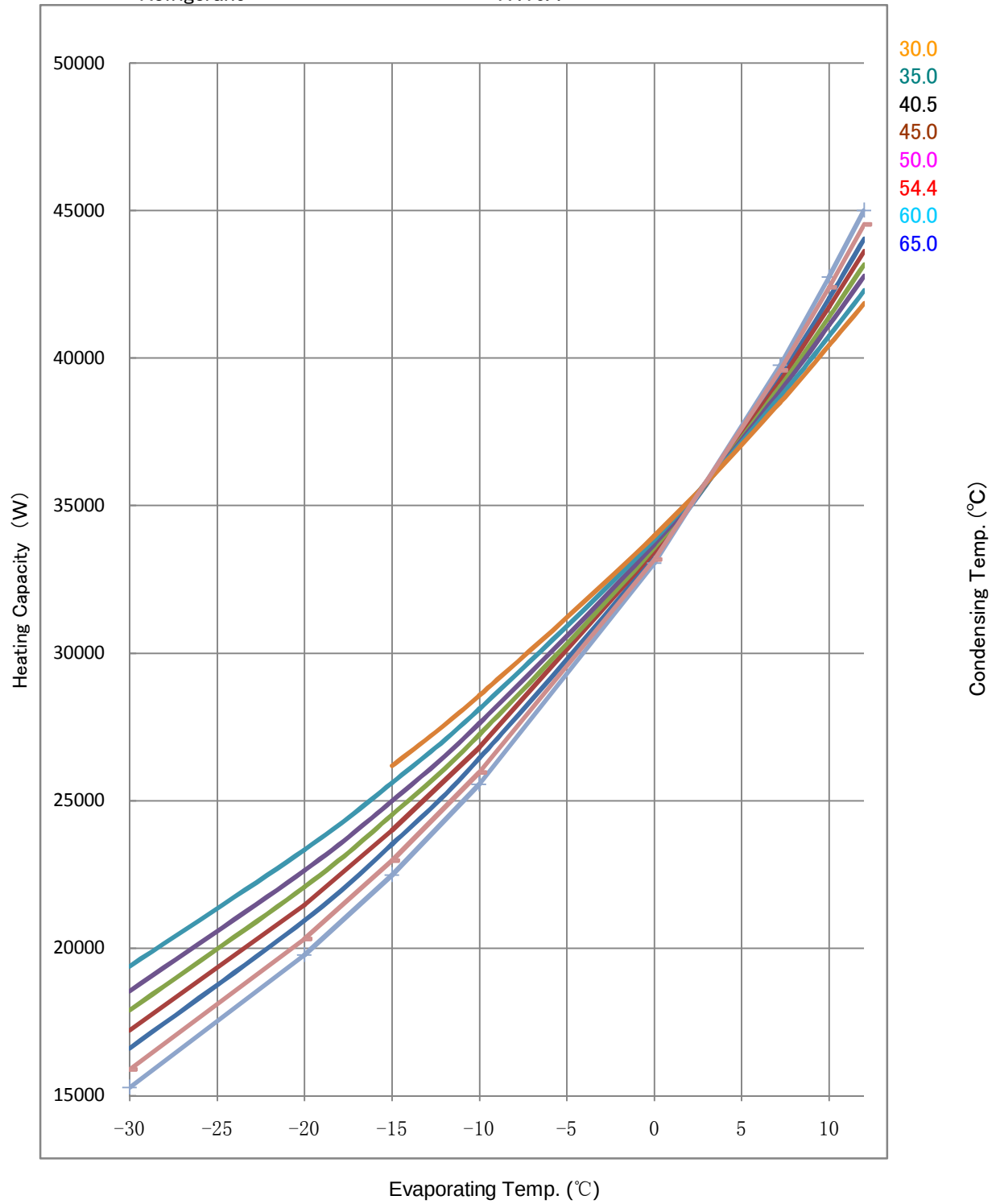
GENERAL SPECIFICATIONS

Model No:		C-SCP315H38Q		
Application				
Evaporating Temp Range		(°C)	-30.0 ~ 15.0	
Refrigerant		R410A		
Compressor Cooling		Gas Injection		
Rated Performance				
Heating Capacity		(W)	28970	
Input		(W)	9110	
Current		(A)	16.2	
Revolution		(min ⁻¹)	2900	
Sound Level		(dB(A))		
Rating Conditions				
Power Source			3-PH	50Hz 380V
Evaporating Temp		(°C)	-7.0	
Condensing Temp		(°C)	50.0	
Suction Gas Temp		(°C)	4.1	
Liquid Temp		(°C)	48.0	
Ambient Temp		(°C)	35.0	
Measuring Point of Sound Level				
Distance from the Compressor		(m)	1.0	
Compressor				
Design			Hermetic Scroll	
Displacement		(cm3)	104.1	
Suction Line Connection		(Φ mm OD)	25.4	
Discharge Line Connection		(Φ mm OD)	19.05	
Oil		(ml)	2800 (FV68S)	
Mass(Incl.Oil)		(kg)	70	
Motor				
Type			3-PH Induction Motor(3IR)	
Pole			2	
Rated Power Source			3-PH 50Hz 380-415V	
Voltage Range		(V)	342~456	
Starting Current		(A)	-	

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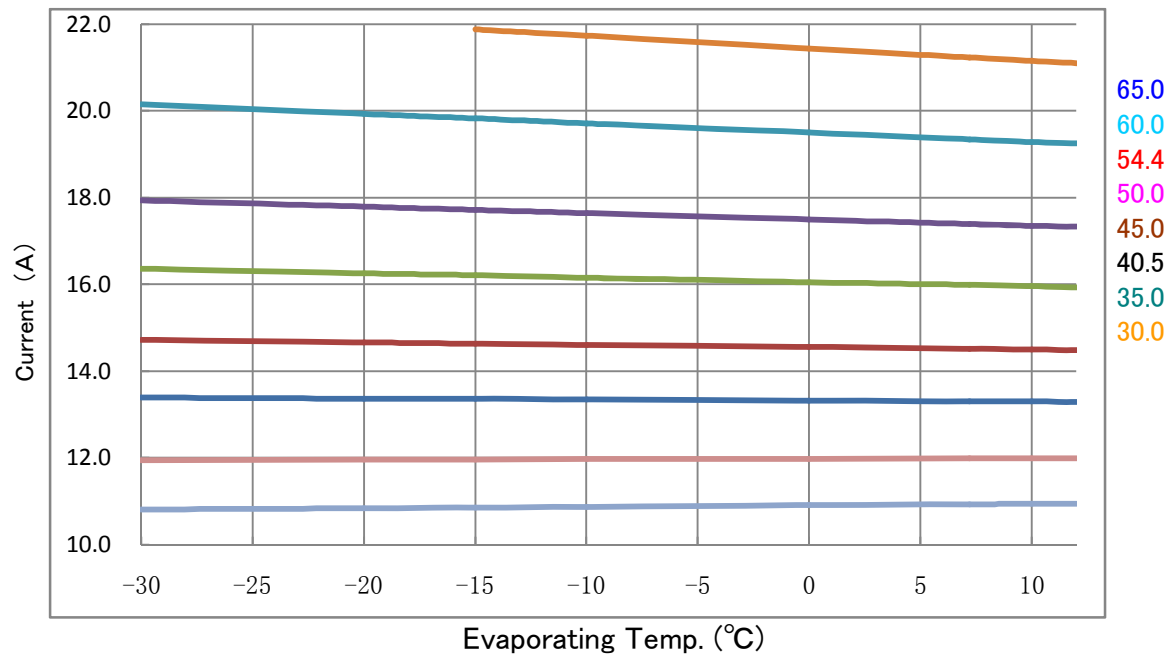
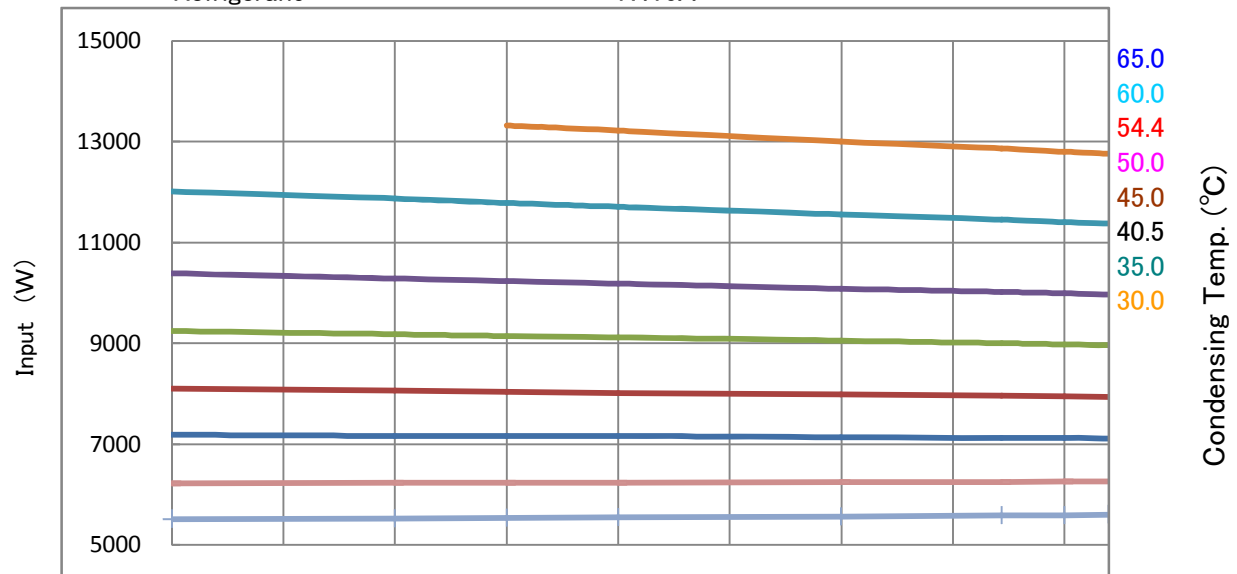
PERFORMANCE CURVE

Code No.	C-SCP315H38Q
Power Source	3-PH 50Hz 380V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60, 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	2
Compressor Cooling	Gas Injection
Refrigerant	R410A



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PERFORMANCE DATA

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Heating Capacity (W)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	15,270	19,760	22,470	25,550	33,050	39,770	42,750	45,000
	35	15,890	20,310	22,960	25,960	33,180	39,590	42,410	44,540
	40.5	16,600	20,940	23,520	26,420	33,330	39,390	42,040	44,040
	45.0	17,210	21,470	23,990	26,800	33,440	39,230	41,740	43,630
	50.0	17,900	22,080	24,520	27,230	33,580	39,050	41,410	43,180
	54.4	18,540	22,630	24,990	27,610	33,700	38,890	41,120	42,790
	60.0	19,380	23,340	25,610	28,110	33,850	38,690	40,760	42,300
	65.0			26,180	28,560	33,980	38,510	40,440	41,870

Input (W)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	5,510	5,530	5,540	5,550	5,570	5,590	5,590	5,600
	35	6,230	6,240	6,240	6,240	6,250	6,250	6,260	6,260
	40.5	7,190	7,170	7,160	7,160	7,140	7,130	7,130	7,120
	45.0	8,100	8,060	8,040	8,020	7,990	7,960	7,950	7,940
	50.0	9,250	9,180	9,150	9,120	9,050	9,000	8,980	8,970
	54.4	10,390	10,290	10,240	10,190	10,090	10,020	9,990	9,970
	60.0	12,020	11,870	11,790	11,710	11,560	11,450	11,410	11,380
	65.0			13,320	13,220	13,010	12,860	12,800	12,760

Current (A)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	10.8	10.8	10.9	10.9	10.9	10.9	10.9	11.0
	35	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
	40.5	13.4	13.4	13.4	13.3	13.3	13.3	13.3	13.3
	45.0	14.7	14.7	14.6	14.6	14.6	14.5	14.5	14.5
	50.0	16.4	16.3	16.2	16.2	16.1	16.0	16.0	15.9
	54.4	17.9	17.8	17.7	17.7	17.5	17.4	17.4	17.3
	60.0	20.2	19.9	19.8	19.7	19.5	19.4	19.3	19.3
	65.0			21.9	21.7	21.4	21.2	21.2	21.1

MassFlow(kg/H)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	155.3	234.2	287.3	349.5	501.2	633.0	689.3	731.3
	35	154.9	230.3	282.1	343.4	494.2	626.1	682.6	724.8
	40.5	154.5	226.1	276.6	336.8	486.5	618.6	675.4	717.8
	45.0	154.1	222.7	272.1	331.5	480.4	612.5	669.5	712.1
	50.0	153.7	219.1	267.2	325.7	473.7	605.8	663.0	705.8
	54.4	153.4	215.9	263.0	320.7	467.8	600.0	657.3	700.3
	60.0	153.0	211.9	257.7	314.4	460.5	592.7	650.2	693.4
	65.0			253.1	308.9	454.1	586.2	643.9	687.2

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		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	2.77	3.57	4.06	4.60	5.93	7.11	7.65	8.04
	35	2.55	3.25	3.68	4.16	5.31	6.33	6.77	7.12
	40.5	2.31	2.92	3.28	3.69	4.67	5.52	5.90	6.19
	45.0	2.12	2.66	2.98	3.34	4.19	4.93	5.25	5.49
	50.0	1.94	2.41	2.68	2.99	3.71	4.34	4.61	4.81
	54.4	1.78	2.20	2.44	2.71	3.34	3.88	4.12	4.29
	60.0	1.61	1.97	2.17	2.40	2.93	3.38	3.57	3.72
	65.0			1.97	2.16	2.61	2.99	3.16	3.28

Coefficients of Polynomial Formula

	Heating Capacity (W)	Input (W)	Current (A)	MassFlow (kg/h)
C1	3.269002E+04	4.043348E+03	7.292497E+00	5.458422E+02
C2	1.066509E+03	-3.464372E+00	1.370689E-03	1.727022E+01
C3	1.042918E+01	-2.265731E+01	3.873801E-02	-1.563508E+00
C4	1.395259E+01	-2.747594E-03	-2.997379E-05	1.467023E-01
C5	-6.951011E+00	5.557610E-01	4.902393E-04	-1.025019E-02
C6	1.344910E-01	2.462556E+00	2.742657E-03	2.364668E-03
C7	5.344139E-02	-1.343261E-04	-2.182093E-07	-1.562024E-06
C8	-1.246006E-01	2.607443E-05	5.563829E-07	1.194109E-03
C9	-5.699450E-03	-1.247104E-02	-1.444687E-05	4.007567E-05
C10	5.872348E-08	2.934935E-07	4.128963E-10	-1.173303E-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

WIRING DIAGRAM

C-SC Series 3 phase

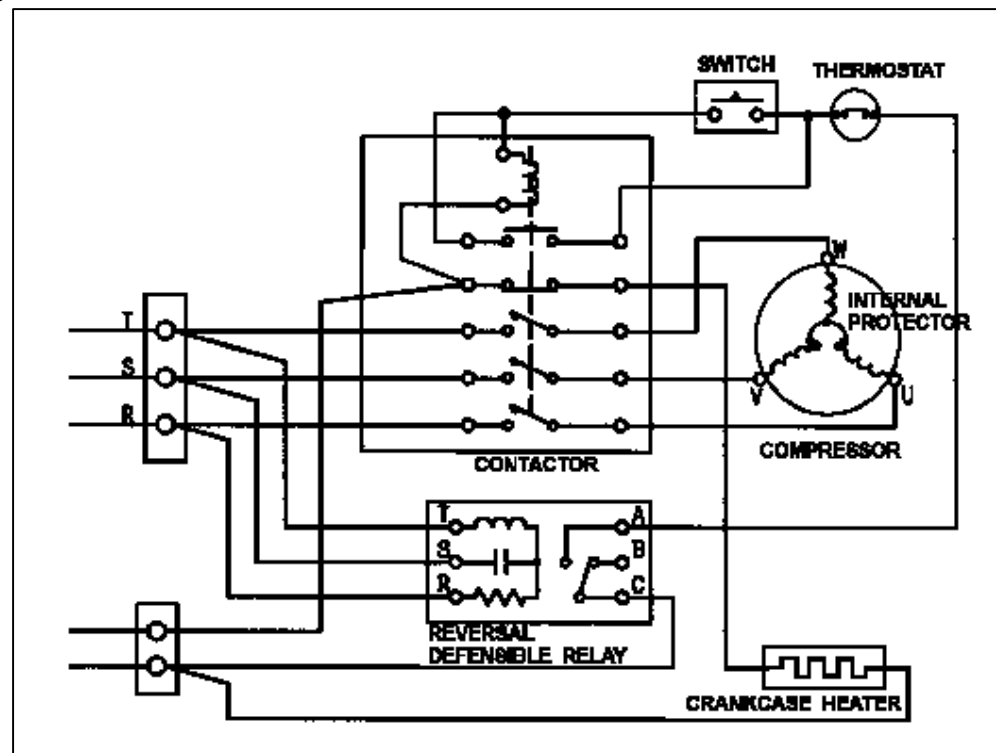
6-8.25kw

China and Europe

power supply

specifications

models



Operating Envelope

