

SPECIFICATIONS OF COMPRESSOR

Model No: C-SCP270H38Q

Output : 8 HP

Temporary

DALIAN SANYO COMPRESSOR Co.,Ltd.

26-Nov-12

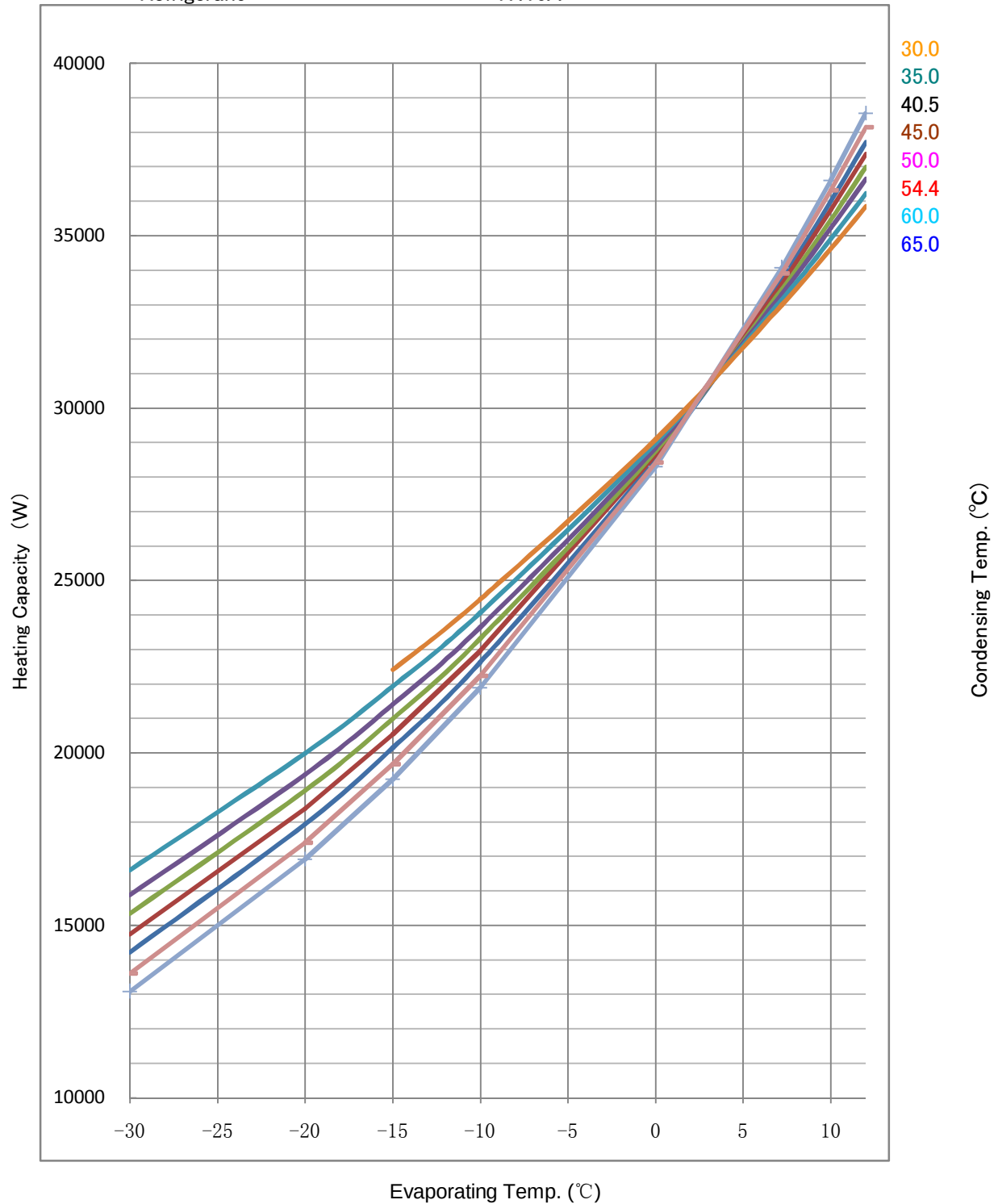
GENERAL SPECIFICATIONS

Model No:		C-SCP270H38Q		
Application				
Evaporating Temp Range		(°C)	-30.0 ~ 15.0	
Refrigerant		R410A		
Compressor Cooling		Gas Injection		
Rated Performance				
Heating Capacity		(W)	24820	
Input		(W)	7790	
Current		(A)	13.2	
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)	89.2	
Suction Line Connection		(Φ mm OD)	25.4	
Discharge Line Connection		(Φ mm OD)	19.05	
Oil		(ml)	2800 (FV68S)	
Mass(Incl.Oil)		(kg)	69.5	
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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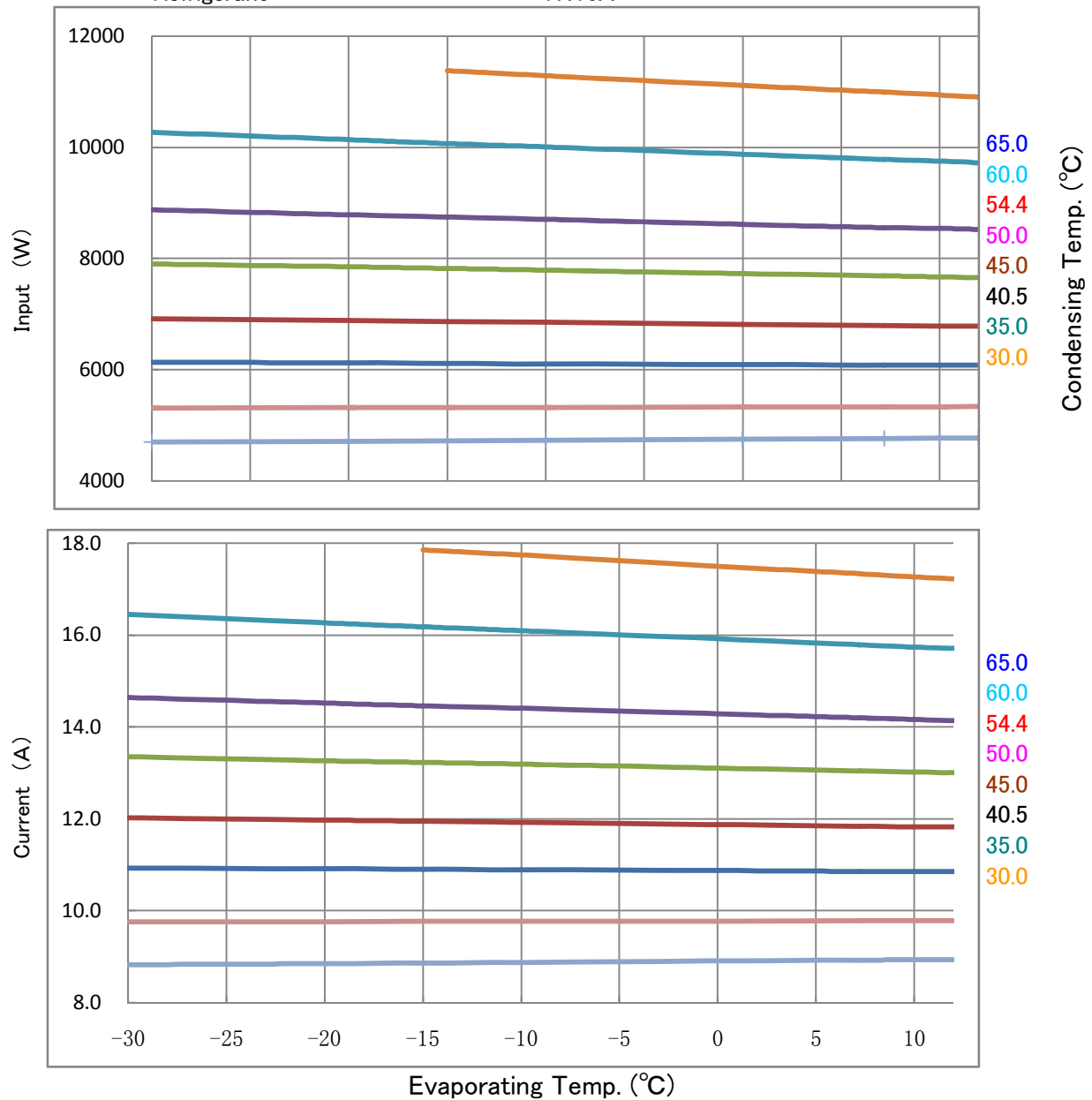
PERFORMANCE CURVE

Code No.	C-SCP270H38Q
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	13,080	16,920	19,240	21,890	28,310	34,070	36,610	38,550
	35	13,610	17,400	19,670	22,240	28,420	33,910	36,320	38,150
	40.5	14,220	17,940	20,150	22,630	28,540	33,740	36,010	37,720
	45.0	14,740	18,390	20,550	22,950	28,650	33,600	35,750	37,370
	50.0	15,340	18,910	21,000	23,320	28,760	33,450	35,470	36,990
	54.4	15,880	19,380	21,410	23,650	28,860	33,310	35,220	36,650
	60.0	16,600	19,990	21,940	24,070	28,990	33,140	34,910	36,230
	65.0			22,420	24,460	29,100	32,990	34,630	35,860

Input (W)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	4,710	4,720	4,730	4,740	4,760	4,770	4,780	4,780
	35	5,320	5,330	5,330	5,330	5,340	5,340	5,340	5,350
	40.5	6,140	6,130	6,120	6,110	6,100	6,090	6,090	6,090
	45.0	6,920	6,890	6,870	6,860	6,820	6,800	6,790	6,790
	50.0	7,900	7,850	7,820	7,790	7,730	7,690	7,670	7,660
	54.4	8,880	8,790	8,750	8,710	8,620	8,560	8,540	8,520
	60.0	10,270	10,140	10,070	10,010	9,880	9,780	9,750	9,720
	65.0			11,380	11,290	11,110	10,990	10,940	10,900

Current (A)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	8.8	8.9	8.9	8.9	8.9	8.9	8.9	8.9
	35	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
	40.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
	45.0	12.0	12.0	11.9	11.9	11.9	11.8	11.8	11.8
	50.0	13.4	13.3	13.2	13.2	13.1	13.0	13.0	13.0
	54.4	14.6	14.5	14.5	14.4	14.3	14.2	14.2	14.1
	60.0	16.5	16.3	16.2	16.1	15.9	15.8	15.7	15.7
	65.0			17.9	17.7	17.5	17.3	17.3	17.2

MassFlow(kg/H)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	133.0	200.6	246.1	299.4	429.3	542.2	590.5	626.5
	35	132.7	197.3	241.7	294.2	423.3	536.3	584.8	620.9
	40.5	132.3	193.7	236.9	288.5	416.8	529.9	578.6	614.9
	45.0	132.0	190.8	233.1	284.0	411.5	524.7	573.5	610.0
	50.0	131.7	187.7	228.9	279.0	405.8	519.0	568.0	604.6
	54.4	131.4	184.9	225.3	274.7	400.8	514.0	563.1	599.9
	60.0	131.0	181.5	220.8	269.3	394.5	507.7	557.0	594.0
	65.0			216.8	264.6	389.0	502.2	551.6	588.7

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		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	2.78	3.58	4.07	4.62	5.95	7.14	7.66	8.06
	35	2.56	3.26	3.69	4.17	5.32	6.35	6.80	7.13
	40.5	2.32	2.93	3.29	3.70	4.68	5.54	5.91	6.19
	45.0	2.13	2.67	2.99	3.35	4.20	4.94	5.27	5.50
	50.0	1.94	2.41	2.69	2.99	3.72	4.35	4.62	4.83
	54.4	1.79	2.20	2.45	2.72	3.35	3.89	4.12	4.30
	60.0	1.62	1.97	2.18	2.40	2.93	3.39	3.58	3.73
	65.0			1.97	2.17	2.62	3.00	3.17	3.29

Coefficients of Polynomial Formula

	Heating Capacity (W)	Input (W)	Current (A)	MassFlow (kg/h)
C1	2.800280E+04	3.450958E+03	5.951839E+00	4.675993E+02
C2	9.140720E+02	-2.285146E+00	1.142626E-03	1.479426E+01
C3	8.891179E+00	-1.935487E+01	3.159291E-02	-1.339164E+00
C4	1.194026E+01	2.220545E-03	-2.500067E-05	1.256796E-01
C5	-5.985168E+00	4.388411E-01	3.987701E-04	-8.752995E-03
C6	1.144389E-01	2.105281E+00	2.238476E-03	2.023116E-03
C7	4.587311E-02	1.105568E-05	-1.813200E-07	-1.288978E-06
C8	-1.063795E-01	-5.799770E-05	4.633787E-07	1.022884E-03
C9	-4.488475E-03	-1.025251E-02	-1.177371E-05	3.400396E-05
C10	6.324166E-08	2.438767E-07	3.279519E-10	-8.673286E-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

WIRING DIAGRAM

C-SC Series 3 phase

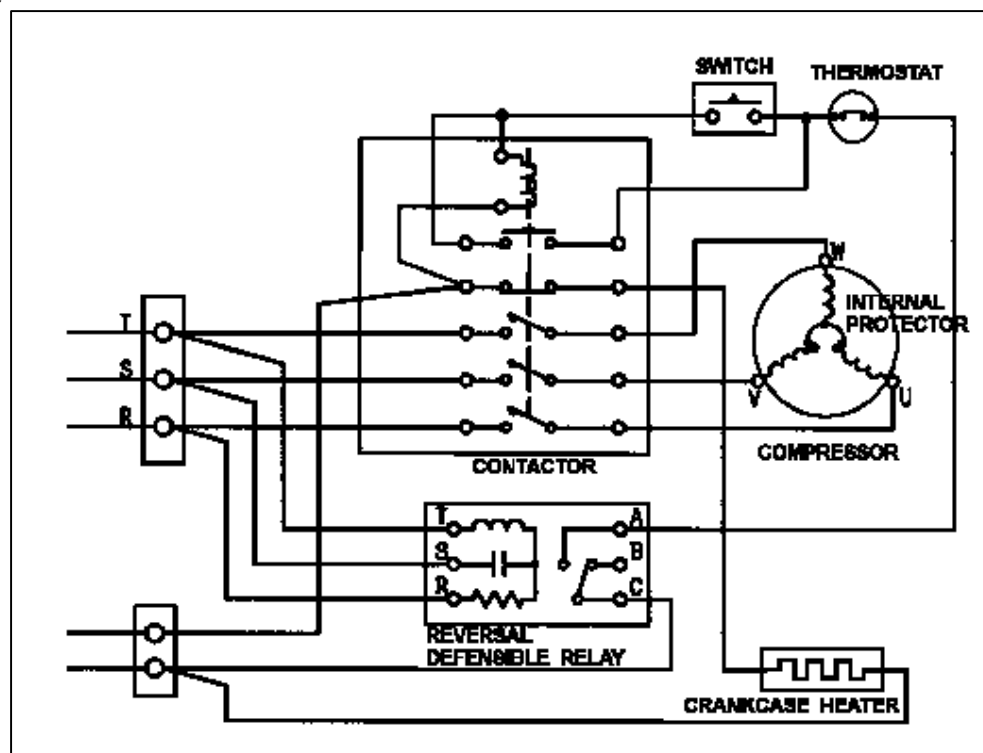
6-8.25kw

China and Europe

power supply

specifications

models



Operating Envelope

