

SPECIFICATIONS OF COMPRESSOR

Model No: C-SCP360H38Q

Output : 11 HP

Temporary

DALIAN SANYO COMPRESSOR Co.,Ltd.

26-Nov-12

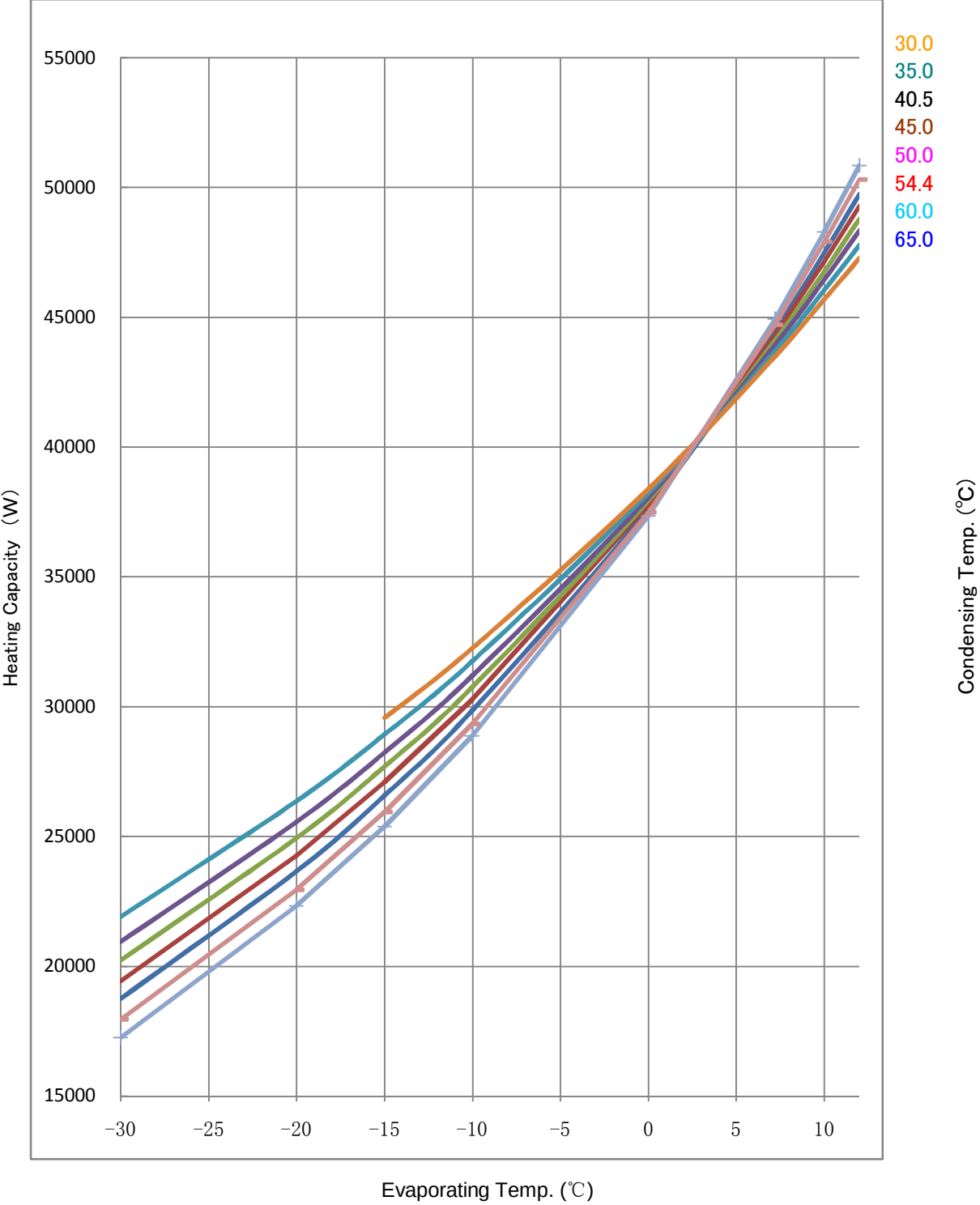
GENERAL SPECIFICATIONS

Model No:		C-SCP360H38Q		
Application				
Evaporating Temp Range		(°C)	-30.0 ~ 15.0	
Refrigerant		R410A		
Compressor Cooling		Gas Injection		
Rated Performance				
Heating Capacity		(W)	32740	
Input		(W)	10340	
Current		(A)	17.1	
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)	120.2	
Suction Line Connection		(Φ mm OD)	25.4	
Discharge Line Connection		(Φ mm OD)	19.05	
Oil		(ml)	2800 (FV68S)	
Mass(Incl.Oil)		(kg)	70.3	
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)	-	

DALIAN SANYO COMPRESSOR Co.,Ltd.

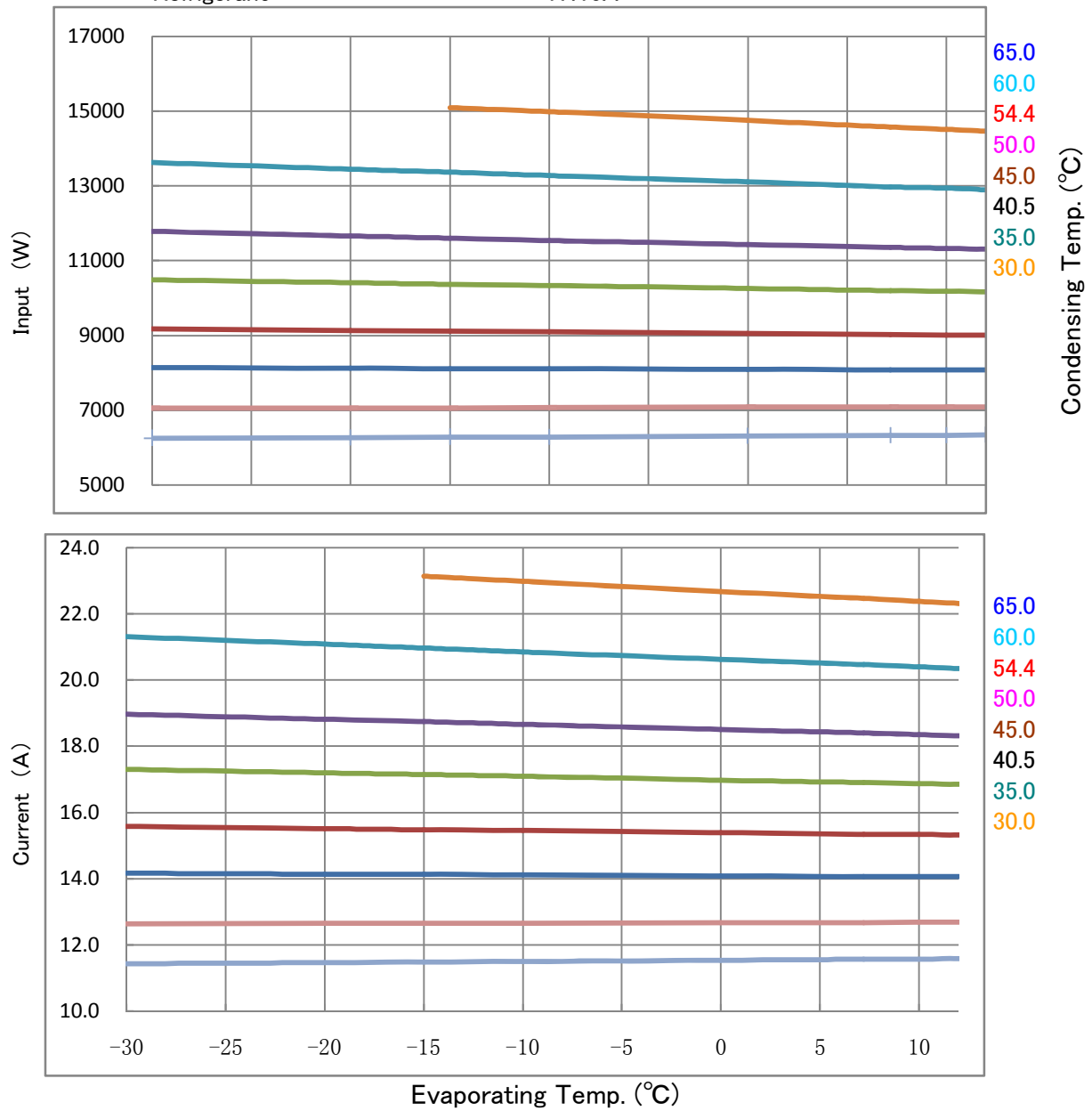
PERFORMANCE CURVE

Code No.	C-SCP360H38Q
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



PERFORMANCE CURVE

Code No.	C-SCP360H38Q
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



PERFORMANCE DATA

Code No.	C-SCP360H38Q
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

Heating Capacity (W)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	17,260	22,320	25,380	28,870	37,340	44,940	48,300	50,850
	35	17,960	22,950	25,950	29,330	37,490	44,730	47,910	50,320
	40.5	18,760	23,660	26,580	29,850	37,650	44,510	47,500	49,750
	45.0	19,440	24,260	27,100	30,280	37,790	44,320	47,160	49,290
	50.0	20,230	24,950	27,700	30,760	37,940	44,120	46,780	48,790
	54.4	20,950	25,560	28,240	31,200	38,070	43,940	46,460	48,350
	60.0	21,900	26,370	28,940	31,760	38,240	43,710	46,050	47,790
	65.0			29,580	32,260	38,390	43,510	45,690	47,300

Input (W)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	6,250	6,270	6,280	6,290	6,320	6,340	6,340	6,350
	35	7,060	7,070	7,070	7,080	7,090	7,090	7,090	7,090
	40.5	8,150	8,130	8,120	8,110	8,100	8,090	8,080	8,080
	45.0	9,180	9,140	9,120	9,100	9,060	9,030	9,010	9,010
	50.0	10,490	10,410	10,370	10,340	10,260	10,210	10,190	10,170
	54.4	11,780	11,670	11,610	11,550	11,440	11,360	11,330	11,310
	60.0	13,630	13,450	13,370	13,280	13,110	12,980	12,940	12,900
	65.0			15,100	14,990	14,750	14,580	14,520	14,470

Current (A)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	11.4	11.5	11.5	11.5	11.5	11.6	11.6	11.6
	35	12.6	12.6	12.7	12.7	12.7	12.7	12.7	12.7
	40.5	14.2	14.1	14.1	14.1	14.1	14.1	14.1	14.1
	45.0	15.6	15.5	15.5	15.5	15.4	15.3	15.3	15.3
	50.0	17.3	17.2	17.1	17.1	17.0	16.9	16.9	16.9
	54.4	19.0	18.8	18.7	18.7	18.5	18.4	18.4	18.3
	60.0	21.3	21.1	21.0	20.9	20.6	20.5	20.4	20.4
	65.0			23.1	23.0	22.7	22.5	22.4	22.3

MassFlow(kg/H)

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	179.4	270.5	331.8	403.6	578.9	731.1	796.1	844.6
	35	178.9	266.0	325.9	396.6	570.8	723.1	788.4	837.2
	40.5	178.4	261.2	319.4	389.0	562.0	714.4	780.0	829.1
	45.0	178.0	257.3	314.3	382.9	554.9	707.4	773.2	822.5
	50.0	177.6	253.0	308.6	376.2	547.1	699.7	765.7	815.2
	54.4	177.2	249.3	303.7	370.4	540.4	693.0	759.2	808.8
	60.0	176.7	244.7	297.6	363.1	531.9	684.6	751.0	800.8
	65.0			292.3	356.8	524.5	677.1	743.7	793.8

EER

		Evaporating Temp. (°C)							
		-30	-20	-15	-10	0	7.2	10	12
Condensing Temp. (°C)	30	2.76	3.56	4.04	4.59	5.91	7.09	7.62	8.01
	35	2.54	3.25	3.67	4.14	5.29	6.31	6.76	7.10
	40.5	2.30	2.91	3.27	3.68	4.65	5.50	5.88	6.16
	45.0	2.12	2.65	2.97	3.33	4.17	4.91	5.23	5.47
	50.0	1.93	2.40	2.67	2.97	3.70	4.32	4.59	4.80
	54.4	1.78	2.19	2.43	2.70	3.33	3.87	4.10	4.27
	60.0	1.61	1.96	2.16	2.39	2.92	3.37	3.56	3.70
	65.0			1.96	2.15	2.60	2.98	3.15	3.27

Coefficients of Polynomial Formula

	Heating Capacity (W)	Input (W)	Current (A)	MassFlow (kg/h)
C1	3.693738E+04	4.584395E+03	7.712996E+00	6.304657E+02
C2	1.205456E+03	-4.034673E+00	1.485433E-03	1.994758E+01
C3	1.168600E+01	-2.557694E+01	4.090079E-02	-1.806644E+00
C4	1.578325E+01	-2.582823E-02	-3.201749E-05	1.694323E-01
C5	-7.863302E+00	6.351578E-01	5.165995E-04	-1.186250E-02
C6	1.524837E-01	2.790763E+00	2.900974E-03	2.739690E-03
C7	6.021324E-02	-6.133465E-04	-2.318204E-07	-1.916630E-06
C8	-1.412189E-01	2.145458E-04	5.944646E-07	1.379301E-03
C9	-6.455540E-03	-1.416243E-02	-1.525584E-05	4.656014E-05
C10	7.732224E-08	3.233719E-07	4.198601E-10	-1.618930E-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

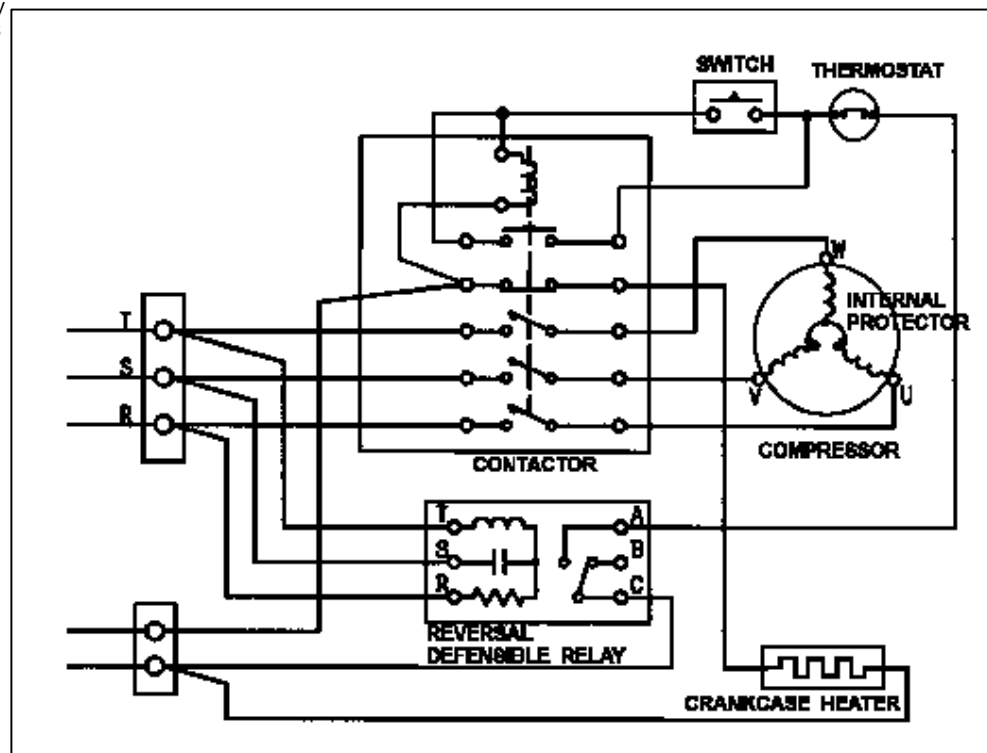
6-8.25kw

China and Europe

power supply

specifications

models



Operating Envelope

