

SPECIFICATIONS OF COMPRESSOR

Model No: C-SBN373H8A

Output : 5 HP



DALIAN SANYO COMPRESSOR Co.,Ltd.

12-Nov-13

GENERAL SPECIFICATIONS

Model No:		C-SBN373H8A
Application		
Evaporating Temp Range	(°C)	-15.0 ~ 12.0
Refrigerant	R404A	
Compressor Cooling	Natural Cooling	
Rated Performance		
		50Hz-380V / 60Hz-440V
Capacity	(W)	14710 / 17650
Input	(W)	5260 / ---
Current	(A)	9.1 / ---
Revolution	(min ⁻¹)	2900 / 3450
Sound Level	(dB(A))	62 / 67
Rating Conditions		
Power Source		50Hz-380V / 60Hz-440V
Evaporating Temp	(°C)	7.2
Condensing Temp	(°C)	54.4
Suction Gas Temp	(°C)	18.3
Liquid Temp	(°C)	46.1
Ambient Temp	(°C)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design	Hermetic Scroll	
Displacement	(cm3)	83.2
Suction Line Connection	(Φ mm OD)	22.22
Discharge Line Connection	(Φ mm OD)	12.7
Oil	(ml)	1700(FV68S)
Mass(Incl.Oil)	(kg)	38
Motor		
Type	3-PH Induction Motor(3IR)	
Pole	2	
Rated Power Source	3Ph 50Hz 380-415V/ 3Ph 60Hz 440-460V	
Voltage Range	(V)	342~456/396~506
Starting Current	(A)	48 / 52

DALIAN SANYO COMPRESSOR Co.,Ltd.

PERFORMANCE DATA

Compressor Model(Code)	C-SBN373H8A (809 950 88)
Power Source	3PH 50Hz 380-415V
Suction Gas Superheat(K)	11.1
Sub Cooling(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R404A

**CAPACITY(W)**

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	9,010	10,900	12,360	15,960	18,870	21,000	23,370	25,220
40.5	8,170	9,880	11,200	14,460	17,090	19,020	21,150	22,830
45.0	7,530	9,100	10,320	13,320	15,740	17,510	19,480	21,020
50.0	6,870	8,310	9,420	12,140	14,350	15,960	17,750	19,150
54.4		7,660	8,680	11,190	13,230	14,710	16,360	17,650
60.0			7,830	10,100	11,930	13,260	14,750	15,910
65.0				9,220	10,890	12,110	13,460	14,520

POWER(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	3,480	3,440	3,420	3,380	3,350	3,330	3,310	3,300
40.5	3,910	3,880	3,860	3,820	3,790	3,770	3,750	3,730
45.0	4,320	4,300	4,290	4,250	4,220	4,190	4,170	4,150
50.0	4,830	4,830	4,820	4,790	4,760	4,730	4,700	4,680
54.4		5,340	5,340	5,320	5,290	5,260	5,230	5,210
60.0			6,080	6,070	6,040	6,020	5,980	5,950
65.0				6,820	6,790	6,760	6,720	6,690

CURRENT(A)

@380V

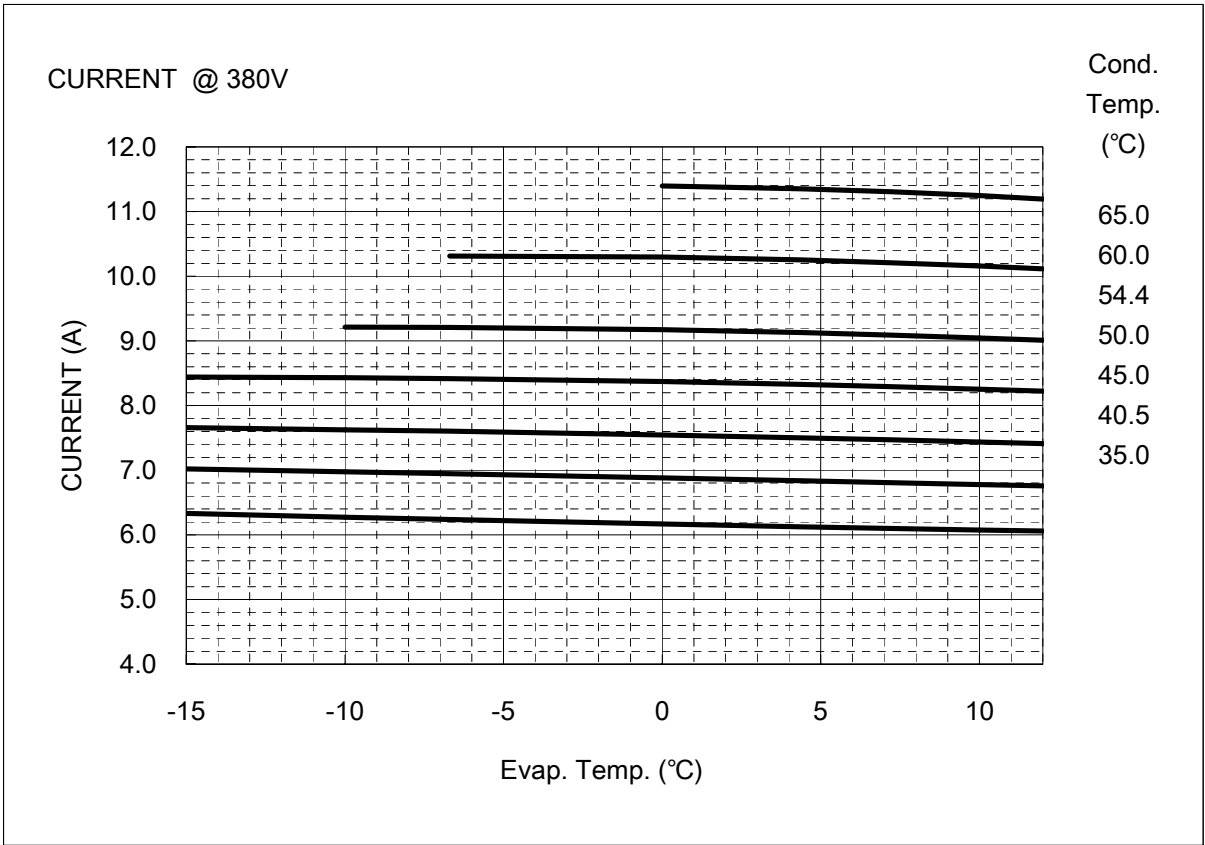
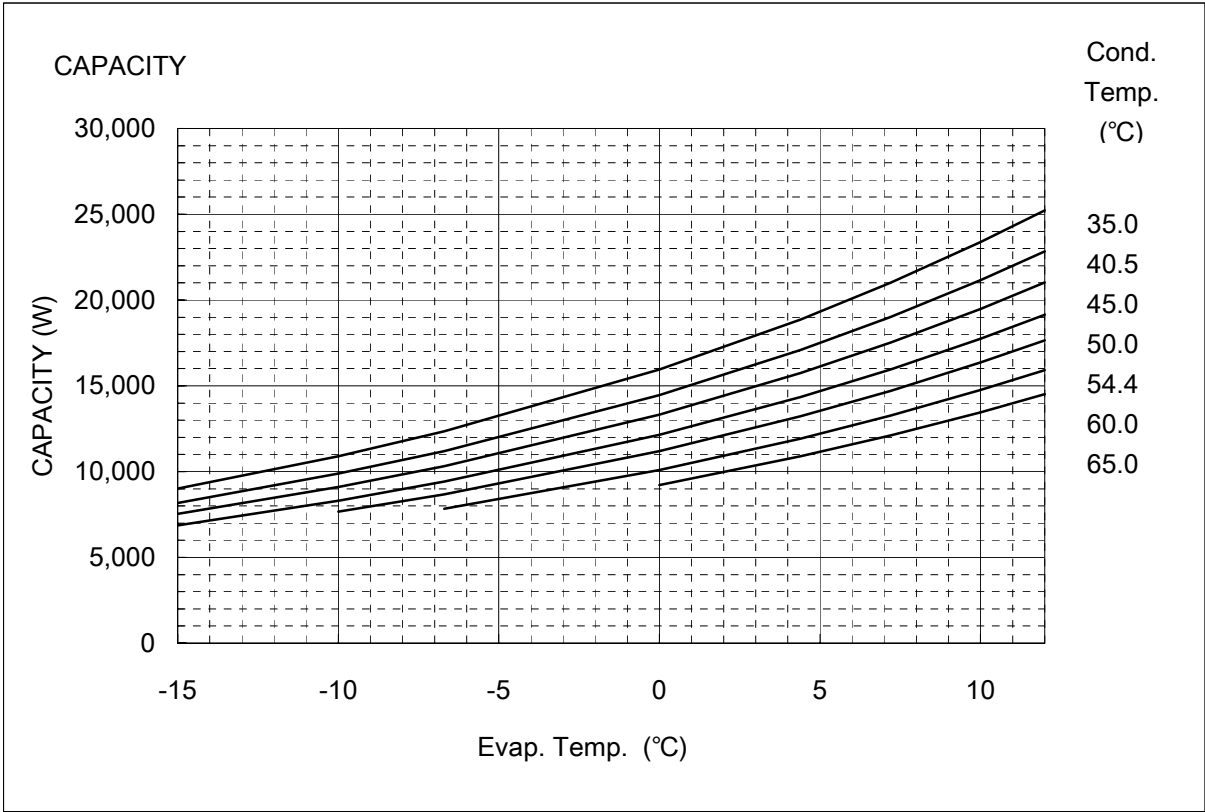
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	6.3	6.3	6.2	6.2	6.1	6.1	6.1	6.1
40.5	7.0	7.0	6.9	6.9	6.8	6.8	6.8	6.8
45.0	7.7	7.6	7.6	7.5	7.5	7.5	7.4	7.4
50.0	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.2
54.4		9.2	9.2	9.2	9.1	9.1	9.0	9.0
60.0			10.3	10.3	10.3	10.2	10.2	10.1
65.0				11.4	11.4	11.3	11.2	11.2

NOTE:

* The performance values subject to change without notice.

Compressor Model(Code)
Power Source

C-SBN373H8A (809 950 88)
3PH 50Hz 380-415V



COEFFICIENTS OF PERFORMANCE CURVES



Compressor Model **C-SBN373H8A (809 950 88)**
 Power Source **3PH 50Hz 380-415V**
 Suction Gas Superheat(K) **11.1**
 Sub Cooling (K) **8.3**
 Compressor Cooling **Natural Cooling**
 Refrigerant **R404A**

$$X = C1 + C2*(S) + C3*D + C4*(S^2) + C5*(S*D) + C6*(D^2) + C7*(S^3) + C8*(D*S^2) + C9*(S*D^2) + C10*(D^3)$$

X—CAPACITY(W) OR POWER(W) OR CURRENT(A) OR FLOW(kg/h)

S—EVAPORATING TEMP, °C

D—CONDENSING TEMP, °C

380V-50Hz	CAPACITY (W)	POWER (W)	CURRENT (A)
C1	2.841940E+04	2.445044E+03	4.168241E+00
C2	1.123302E+03	1.174388E+00	-6.872934E-03
C3	-4.271126E+02	-2.088158E+01	-6.120123E-03
C4	1.816068E+01	6.746644E-01	1.123166E-03
C5	-1.775097E+01	-3.775896E-01	-1.767192E-04
C6	2.029281E+00	1.355350E+00	1.804009E-03
C7	1.217151E-01	-1.969645E-03	-1.792353E-06
C8	-1.834705E-01	-1.845950E-02	-2.872743E-05
C9	8.967355E-02	4.684864E-03	2.756819E-06
C10	-1.903989E-08	6.078062E-10	3.994953E-12

Note: The polynomial coefficients subject to change without notice.

WIRING DIAGRAM
C-SB/C Series 3 phase

