



SPECIFICATIONS OF COMPRESSOR

Model No: C-SBN373L8A

Output : 5 HP



Reference Picture

Temporary

DALIAN SANYO COMPRESSOR Co.,Ltd.

19-Nov-10

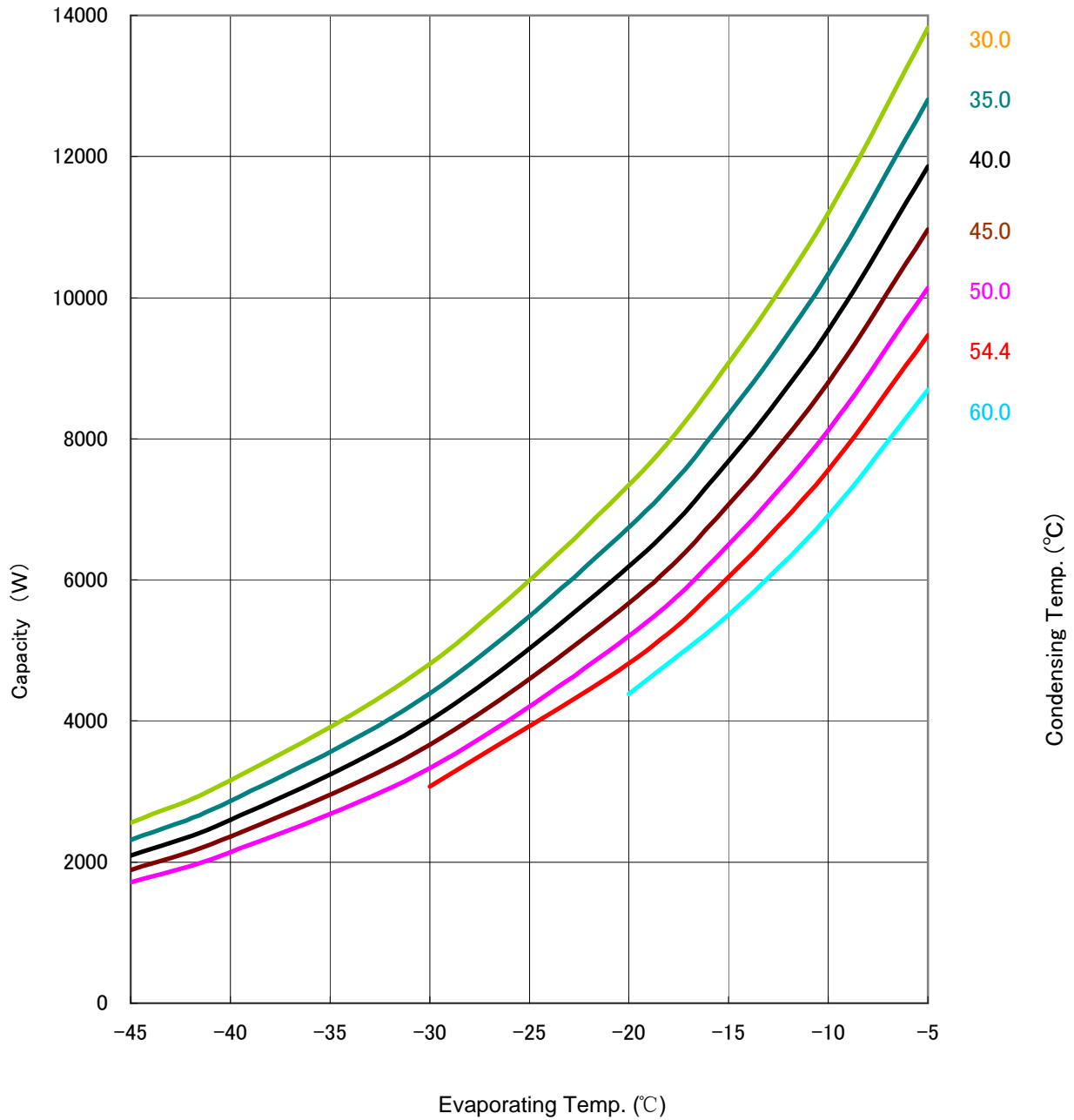
GENERAL SPECIFICATIONS

Model No:		C-SBN373L8A
Application		
Evaporating Temp Range	(°C)	-45 ~ -5
Refrigerant		R404A
Compressor Cooling		Liquid Injection
Rated Performance		
Capacity	(W)	6500
Input	(W)	4900
Current	(A)	8.54
Revolution	(min ⁻¹)	2900
Sound Level	(dB(A))	
Rating Conditions		
Power Source		3-PH 50Hz 380V
Evaporating Temp	(°C)	-15
Condensing Temp	(°C)	50
Suction Gas Temp	(°C)	18.3
Liquid Temp	(°C)	50
Ambient Temp	(°C)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm ³)	83.2
Suction Line Connection	(Φ mm OD)	22.22
Discharge Line Connection	(Φ mm OD)	12.7
Oil	(ml)	1700 (FV32S)
Mass(Incl.Oil)	(kg)	39
Motor		
Type		3-PH Induction Motor(3IR)
Pole		2
Rated Power Source		3-PH 50Hz 380~415V/60 Hz 440~460V
Voltage Range	(V)	342~418/396~484
Starting Current	(A)	109

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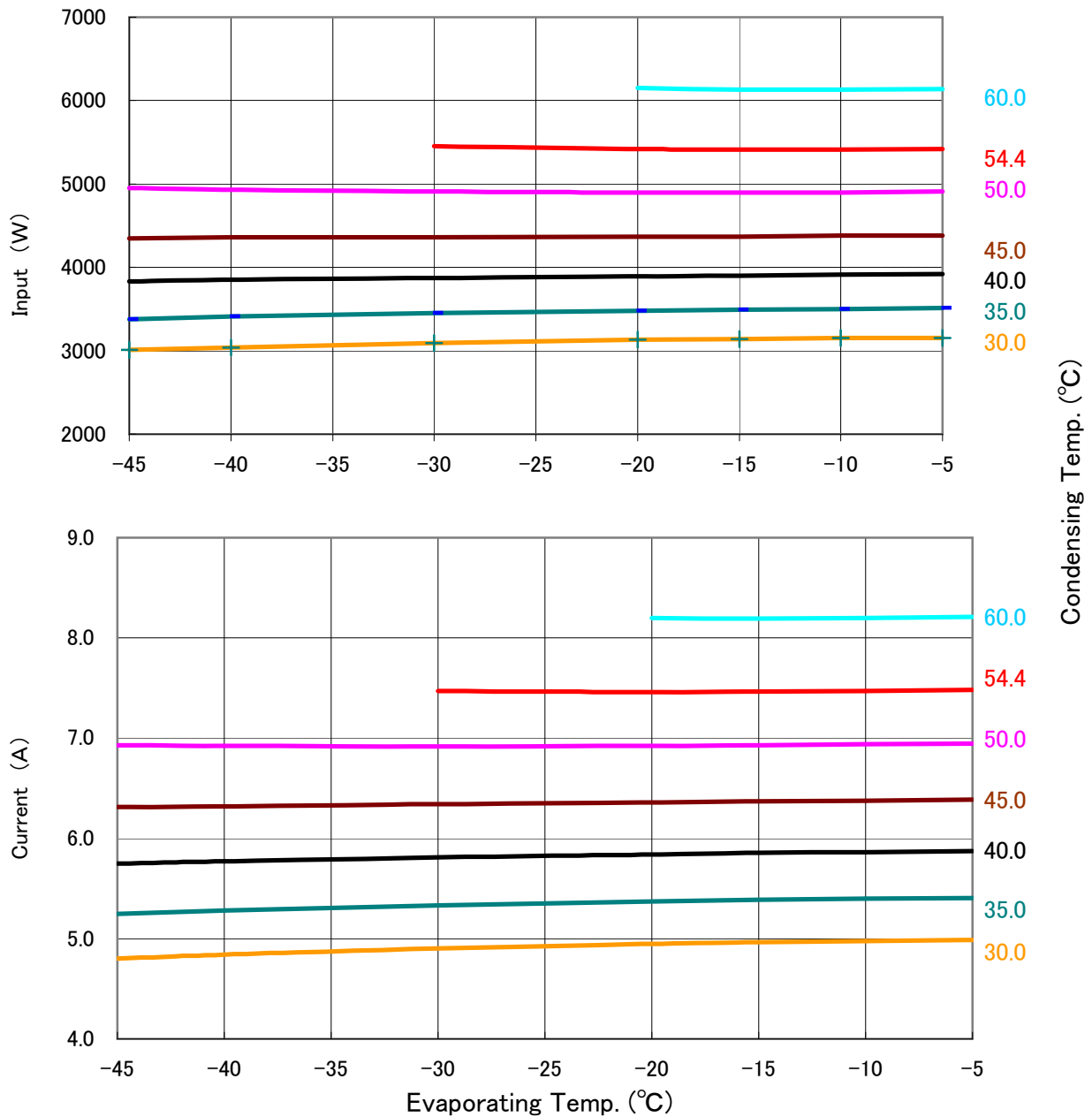
PERFORMANCE CURVE

Model	C-SBN373L8A
Power Source	3-PH 50Hz 380V
Condensing Temp.(°C)	30、35、40、45、50、54.4、60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
Compressor Cooling	Liquid Injection
Refrigerant	R404A



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Refrigerant	R404A

Capacity (W)

		Evaporating Temp. (°C)						
		-45	-40	-30	-20	-15	-10	-5
Condensing Temp. (°C)	30	2,560	3,160	4,810	7,340	9,070	11,200	13,830
	35	2,310	2,870	4,390	6,740	8,350	10,340	12,810
	40.0	2,090	2,600	4,010	6,190	7,680	9,540	11,860
	45.0	1,890	2,360	3,660	5,670	7,070	8,800	10,970
	50.0	1,710	2,140	3,330	5,200	6,500	8,120	10,140
	54.4			3,070	4,820	6,040	7,560	9,470
	60.0				4,380	5,500	6,910	8,690

Input (W)

		Evaporating Temp. (°C)						
		-45	-40	-30	-20	-15	-10	-5
Condensing Temp. (°C)	30	3,010	3,040	3,090	3,130	3,140	3,150	3,150
	35	3,380	3,410	3,450	3,480	3,490	3,500	3,510
	40.0	3,830	3,850	3,870	3,890	3,900	3,910	3,920
	45.0	4,350	4,360	4,360	4,370	4,370	4,380	4,380
	50.0	4,950	4,930	4,910	4,900	4,900	4,900	4,910
	54.4			5,450	5,420	5,410	5,410	5,420
	60.0				6,150	6,130	6,130	6,140

Current (A)

		Evaporating Temp. (°C)						
		-45	-40	-30	-20	-15	-10	-5
Condensing Temp. (°C)	30	4.8	4.8	4.9	4.9	5.0	5.0	5.0
	35	5.2	5.3	5.3	5.4	5.4	5.4	5.4
	40.0	5.8	5.8	5.8	5.8	5.9	5.9	5.9
	45.0	6.3	6.3	6.3	6.4	6.4	6.4	6.4
	50.0	6.9	6.9	6.9	6.9	6.9	6.9	6.9
	54.4			7.5	7.5	7.5	7.5	7.5
	60.0				8.2	8.2	8.2	8.2

Coefficients of Polynominal Formula

	Capacity (W)	Input (W)	Current (A)
C1	2.574424E+04	2.097437E+03	3.326012E+00
C2	9.341276E+02	-1.951021E+01	-1.325605E-02
C3	-3.345808E+02	2.591835E+00	2.903518E-02
C4	1.356603E+01	-3.417366E-01	-3.240602E-04
C5	-9.153999E+00	8.669134E-01	5.880161E-04
C6	1.451466E+00	1.080862E+00	8.755773E-04
C7	7.721274E-02	4.488995E-04	2.023275E-07
C8	-6.716549E-02	9.137370E-03	7.894470E-06
C9	2.810896E-02	-8.032178E-03	-5.032398E-06
C10	-8.807910E-08	1.598629E-09	4.224698E-14

Note: The polynomial coefficients subject to change without notice.

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

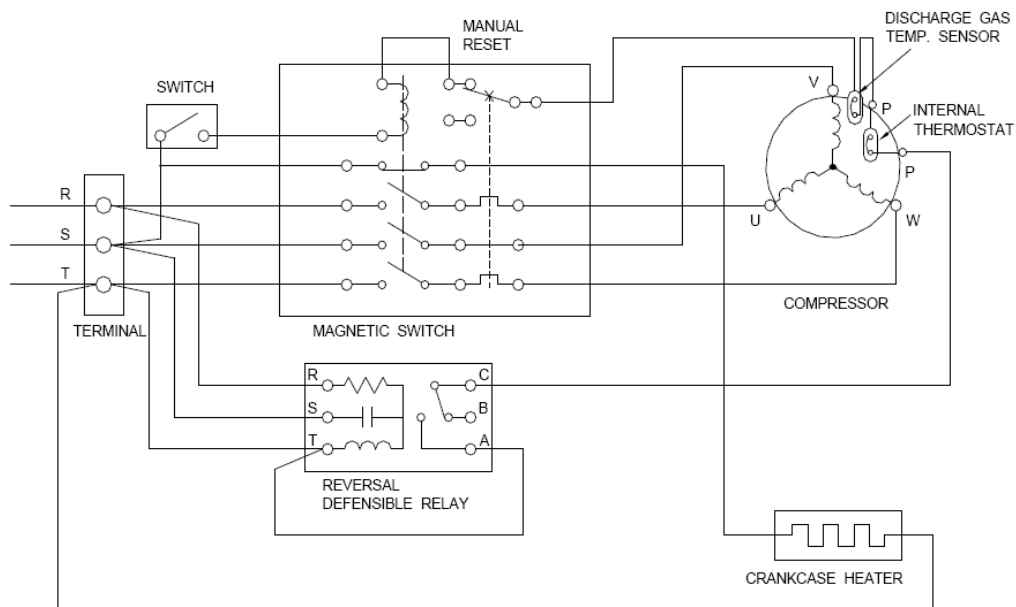
X—CAPACITY(W) OR POWER(W) OR CURRENT(A)

S—EVAPORATING TEMP, °C

D—CONDENSING TEMP, °C

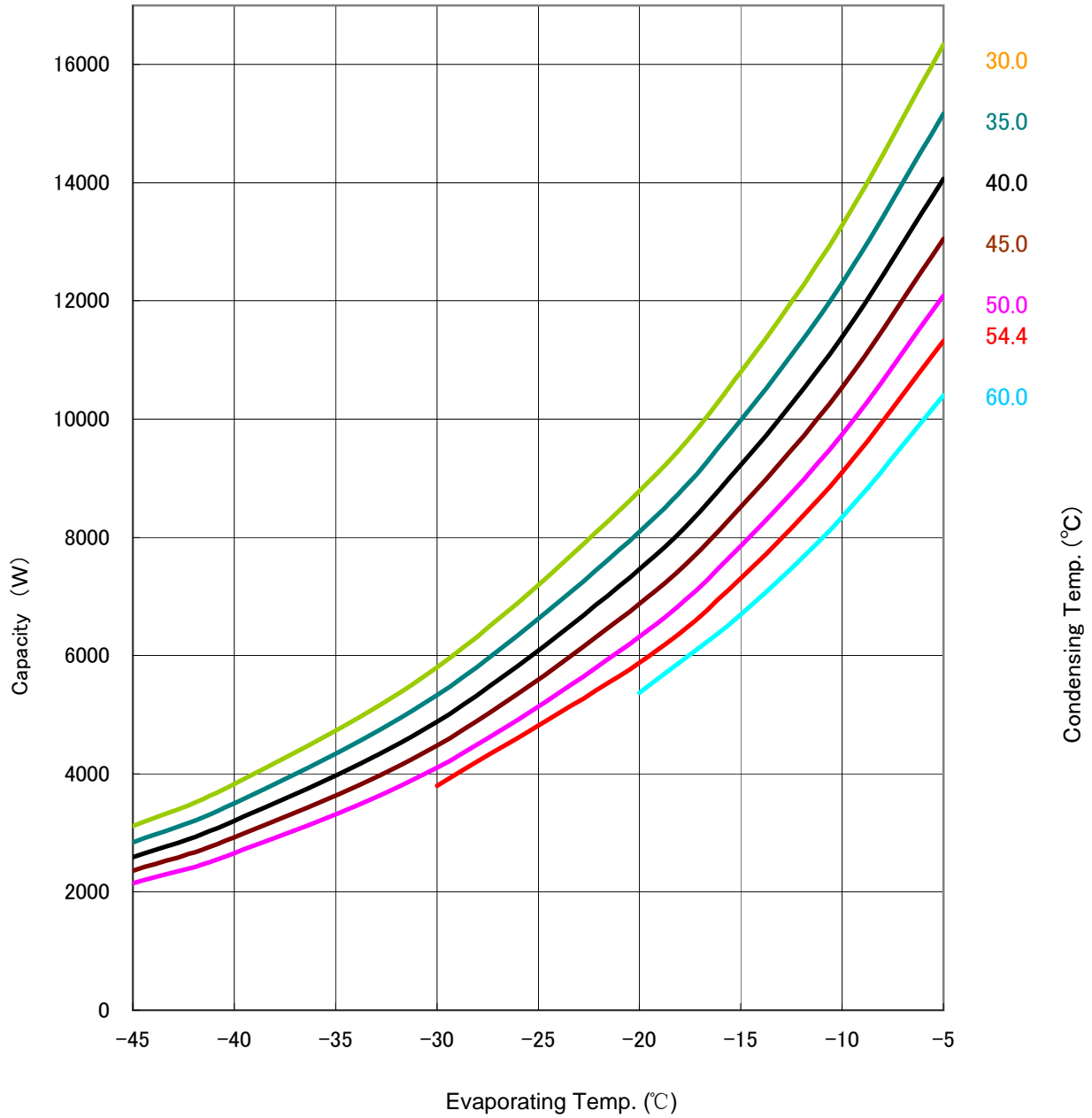
WIRING DIAGRAM

C-SB Series 3 phase
2.6-3.75kw
chinese and Europe
power supply
specifications
models



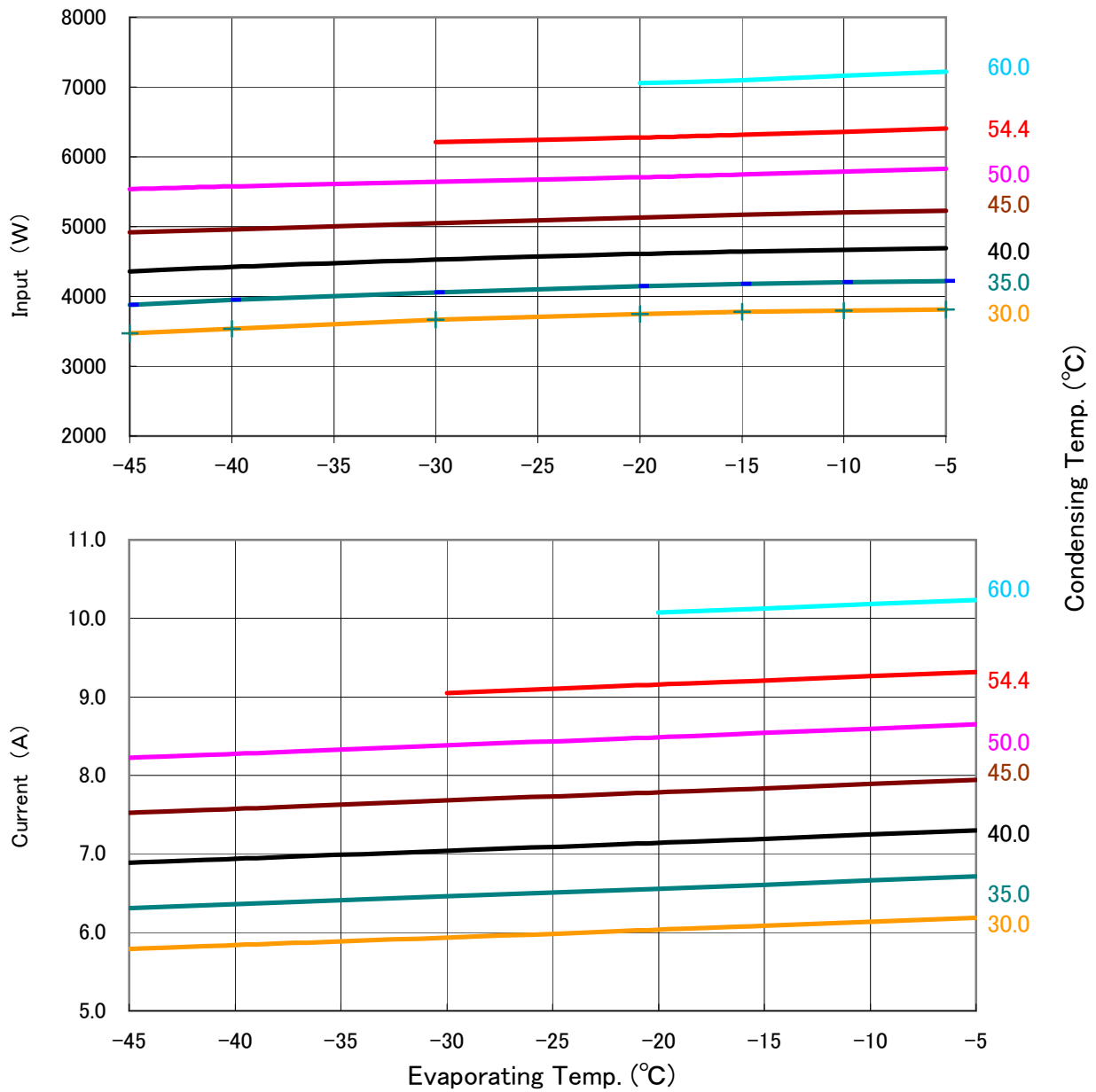
PERFORMANCE CURVE

Model	C-SBN373L8A
Power Source	3-PH 60Hz 440V
Condensing Temp.(°C)	30、35、40、45、50、54.4、60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
Compressor Cooling	Liquid Injection
Refrigerant	R404A



PERFORMANCE CURVE

Model	C-SBN373L8A
Power Source	3-PH 60Hz 440V
Condensing Temp.(°C)	30、35、40、45、50、54.4、60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
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PERFORMANCE DATA

Model	C-SBN373L8A
Power Source	3-PH 60Hz 440V
Condensing Temp.(°C)	30、35、40、45、50、54.4、60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
Compressor Cooling	Liquid Injection
Refrigerant	R404A

Capacity (W)

		Evaporating Temp. (°C)						
		-45	-40	-30	-20	-15	-10	-5
Condensing Temp. (°C)	30	3,120	3,830	5,800	8,780	10,800	13,280	16,340
	35	2,840	3,500	5,330	8,090	9,980	12,300	15,170
	40.0	2,590	3,200	4,880	7,460	9,220	11,390	14,070
	45.0	2,360	2,920	4,480	6,870	8,510	10,540	13,050
	50.0	2,150	2,660	4,100	6,320	7,850	9,740	12,090
	54.4			3,800	5,880	7,310	9,100	11,320
	60.0				5,370	6,690	8,340	10,400

Input (W)

		Evaporating Temp. (°C)						
		-45	-40	-30	-20	-15	-10	-5
Condensing Temp. (°C)	30	3,470	3,540	3,670	3,750	3,780	3,800	3,810
	35	3,880	3,950	4,060	4,150	4,180	4,200	4,220
	40.0	4,360	4,420	4,530	4,610	4,640	4,670	4,690
	45.0	4,920	4,960	5,050	5,130	5,170	5,200	5,230
	50.0	5,540	5,580	5,640	5,710	5,750	5,790	5,830
	54.4			6,210	6,280	6,320	6,360	6,410
	60.0				7,060	7,100	7,160	7,220

Current (A)

		Evaporating Temp. (°C)						
		-45	-40	-30	-20	-15	-10	-5
Condensing Temp. (°C)	30	5.8	5.8	5.9	6.0	6.1	6.1	6.2
	35	6.3	6.4	6.5	6.6	6.6	6.7	6.7
	40.0	6.9	6.9	7.0	7.1	7.2	7.2	7.3
	45.0	7.5	7.6	7.7	7.8	7.8	7.9	7.9
	50.0	8.2	8.3	8.4	8.5	8.5	8.6	8.6
	54.4			9.0	9.2	9.2	9.3	9.3
	60.0				10.1	10.1	10.2	10.2

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)
C1	3.000761E+04	2.475415E+03	4.298308E+00
C2	1.079843E+03	-2.578348E+01	7.683937E-03
C3	-3.812220E+02	8.213331E+00	2.925712E-02
C4	1.547037E+01	-6.013209E-01	1.323557E-05
C5	-1.057519E+01	9.146250E-01	1.190959E-04
C6	1.616945E+00	1.197314E+00	1.176177E-03
C7	8.639727E-02	7.651445E-05	2.464607E-08
C8	-7.823063E-02	1.303866E-02	-1.065567E-07
C9	3.210675E-02	-4.181226E-03	-1.108005E-06
C10	-9.319388E-08	-1.721301E-08	7.712249E-12

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

Operating Envelope

Suction Gas Temp: 18.3°C

Refrigerant: R404A

