

SPECIFICATIONS OF COMPRESSOR

Model No: C-SBVN373L0B

Output : 5 HP

Temporary

Panasonic Appliances Compressor (Dalian) Co., Ltd.

28/Jun/15

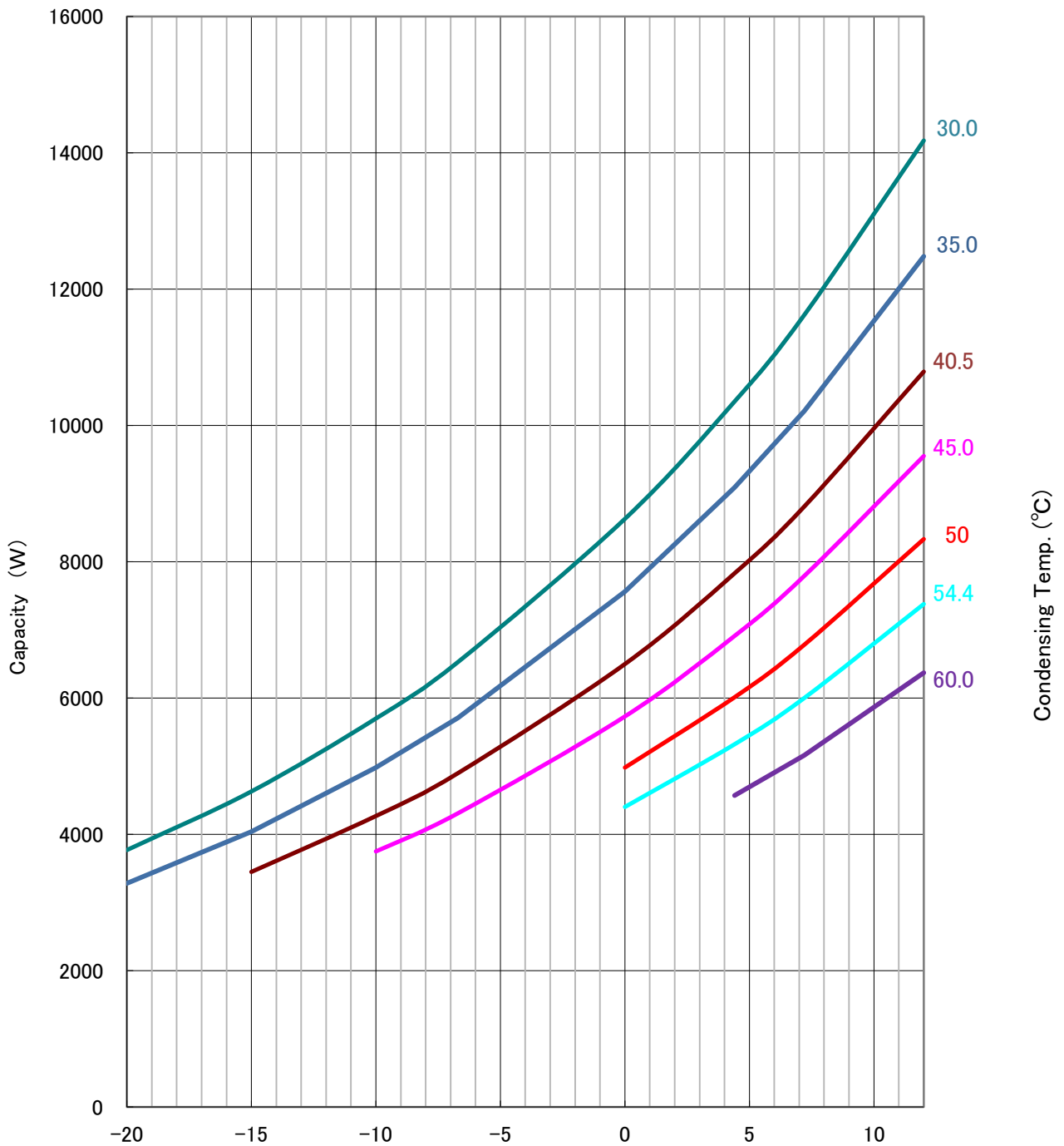
GENERAL SPECIFICATIONS

Model No:	C-SBVN373L0B	
Application		
Evaporating Temp Range	(°C)	-20 ~ 12
Refrigerant		R404A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	9590
Input	(W)	4300
Current	(A)	8.66
Revolution	(min ⁻¹)	3000
Sound Level	(dB(A))	
Rating Conditions		
Power Source		3-PH 50Hz 380V
Evaporating Temp	(°C)	-10
Condensing Temp	(°C)	43.7
Suction Gas Temp	(°C)	18.3
Liquid Temp	(°C)	43.7
Ambient Temp	(°C)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm ³)	85.5
Suction Line Connection	(Φ mm OD)	22.22
Discharge Line Connection	(Φ mm OD)	12.7
Oil	(ml)	2000 (FV32S)
Mass(Incl.Oil)	(kg)	39
Motor		
Type		Inverter 3-PH Induction Motor(3IR)
Pole		2
Rated Power Source		3-PH 50Hz 380~415V
Voltage Range	(V)	342~456

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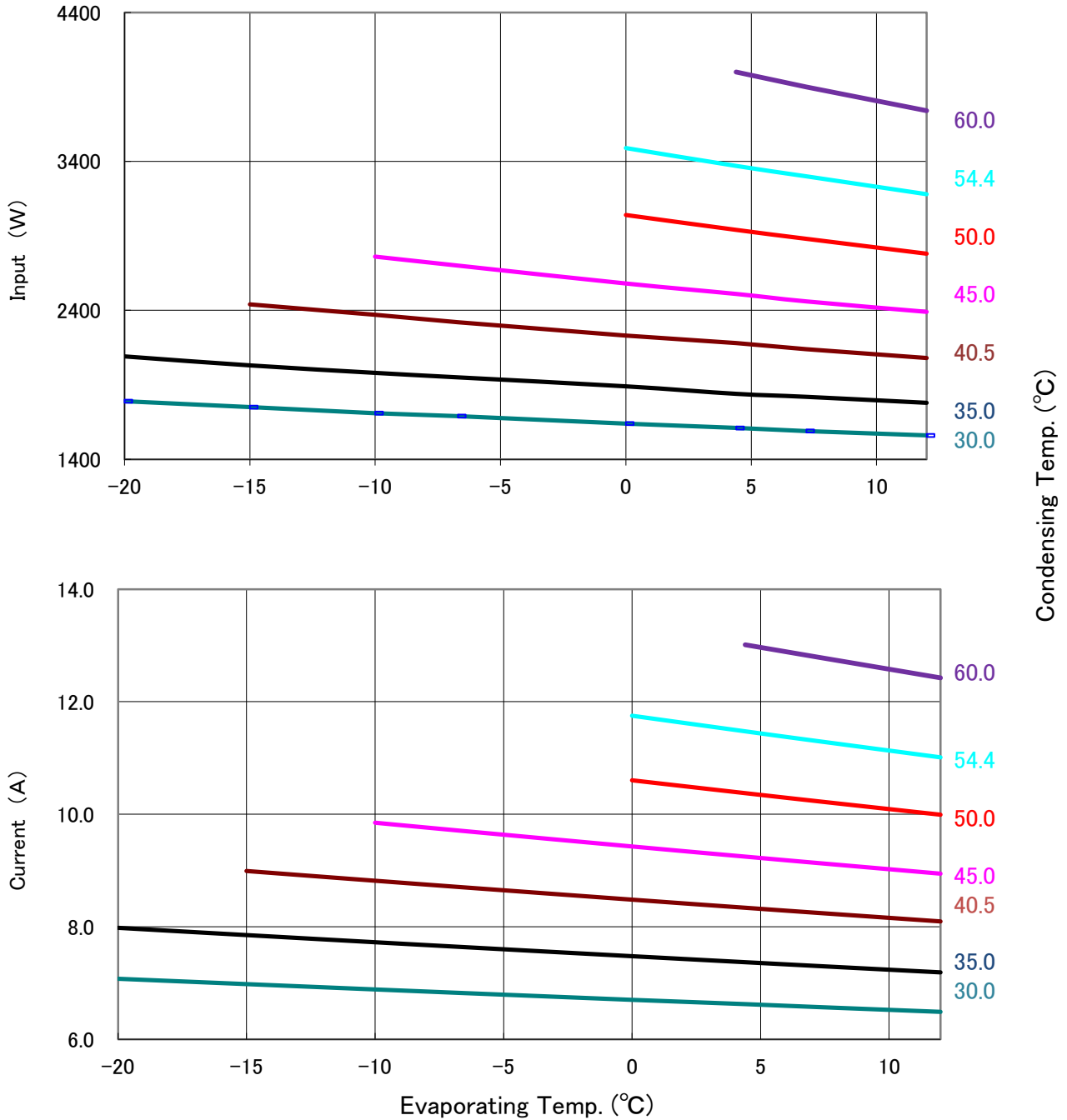
PERFORMANCE CURVE

Code No.	C-SBVN373L0B
Power Source	Inverter 3-PH 25Hz 189V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A



PERFORMANCE CURVE

Code No.	C-SBVN373L0B
Power Source	Inverter 3-PH 25Hz 189V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A



Capacity (W) (25Hz 189V)

		Evaporating Temp. (°C)							
		-20	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30.0	3,770	4,630	5,700	6,530	8,630	10,350	11,620	14,180
	35.0	3,280	4,040	4,980	5,710	7,560	9,090	10,210	12,480
	40.5		3,450	4,270	4,900	6,500	7,830	8,810	10,790
	45.0			3,750	4,310	5,730	6,910	7,790	9,550
	50.0					4,980	6,010	6,780	8,330
	54.4					4,400	5,320	6,000	7,380
	60.0						4,570	5,160	6,370

Input (W)

		Evaporating Temp. (°C)							
		-20	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30.0	1,790	1,750	1,710	1,690	1,640	1,610	1,590	1,560
	35.0	2,090	2,030	1,980	1,950	1,890	1,840	1,820	1,780
	40.5		2,440	2,370	2,320	2,230	2,180	2,140	2,080
	45.0			2,760	2,700	2,580	2,510	2,460	2,390
	50.0					3,040	2,940	2,880	2,780
	54.4					3,490	3,370	3,300	3,180
	60.0						4,000	3,900	3,740

Current (A)

		Evaporating Temp. (°C)							
		-20	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30.0	7.1	7.0	6.9	6.8	6.7	6.6	6.6	6.5
	35.0	8.0	7.9	7.7	7.6	7.5	7.4	7.3	7.2
	40.5		9.0	8.8	8.7	8.5	8.3	8.2	8.1
	45.0			9.8	9.7	9.4	9.2	9.1	8.9
	50.0					10.6	10.4	10.2	10.0
	54.4					11.8	11.5	11.3	11.0
	60.0						13.0	12.8	12.4

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)
C1	1.741864E+04	1.664904E+03	4.924774E+00
C2	6.764003E+02	-1.879483E+01	-2.580109E-02
C3	-3.575283E+02	-4.301711E+01	-2.193519E-02
C4	1.050709E+01	-1.114940E-01	-1.912292E-04
C5	-1.252300E+01	1.062403E+00	1.411772E-03
C6	2.165091E+00	1.408123E+00	2.709470E-03
C7	7.283676E-02	4.473228E-05	6.388952E-07
C8	-1.082748E-01	4.179186E-03	7.107593E-06
C9	6.588905E-02	-2.254960E-02	-3.888192E-05
C10	-1.288746E-08	2.431209E-08	3.384698E-11

Note: The polynomial coefficients subject to change without notice.

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

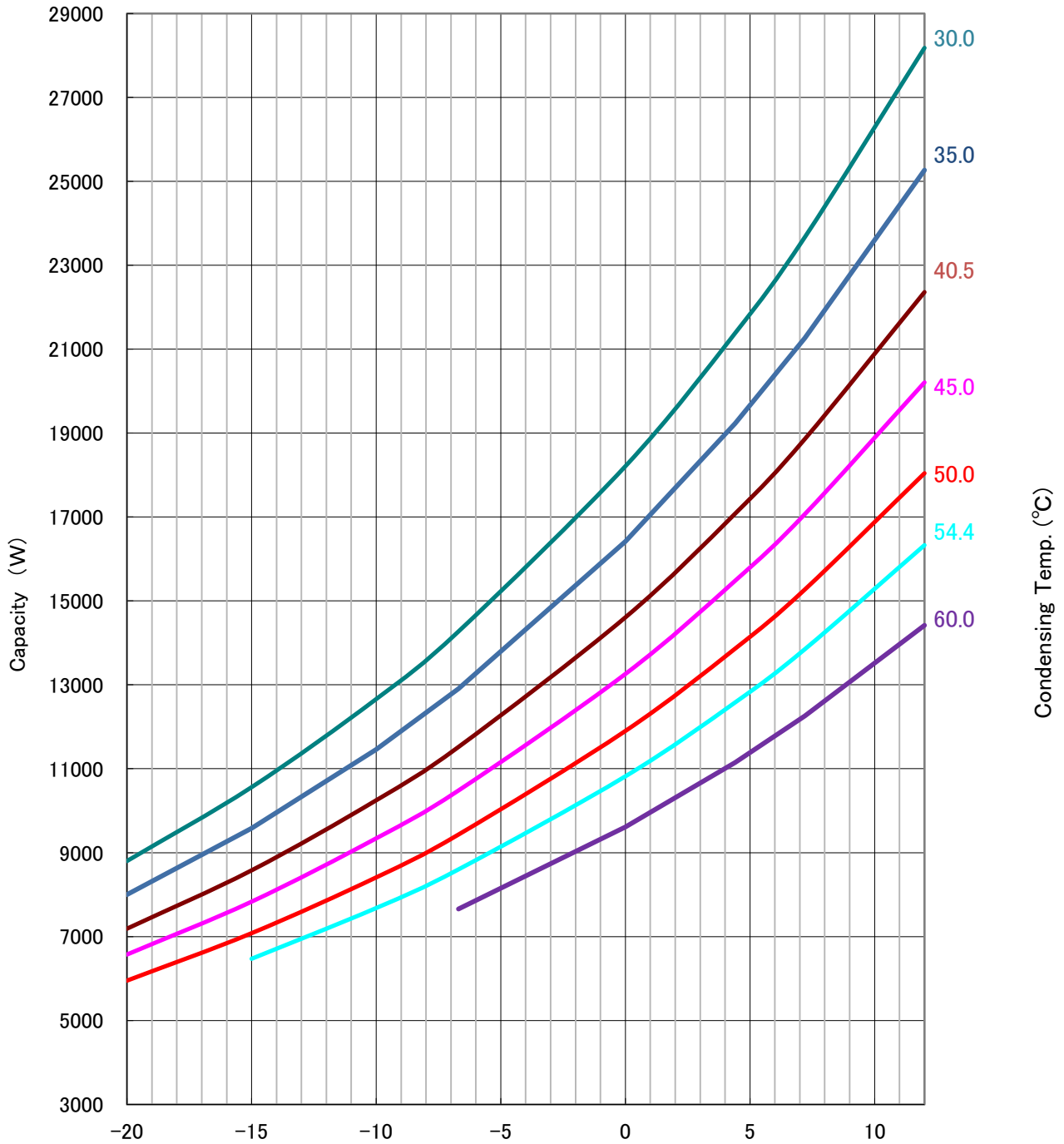
X—CAPACITY(W) OR POWER(W) OR CURRENT(A)

S—EVAPORATING TEMP, °C

D—CONDENSING TEMP, °C

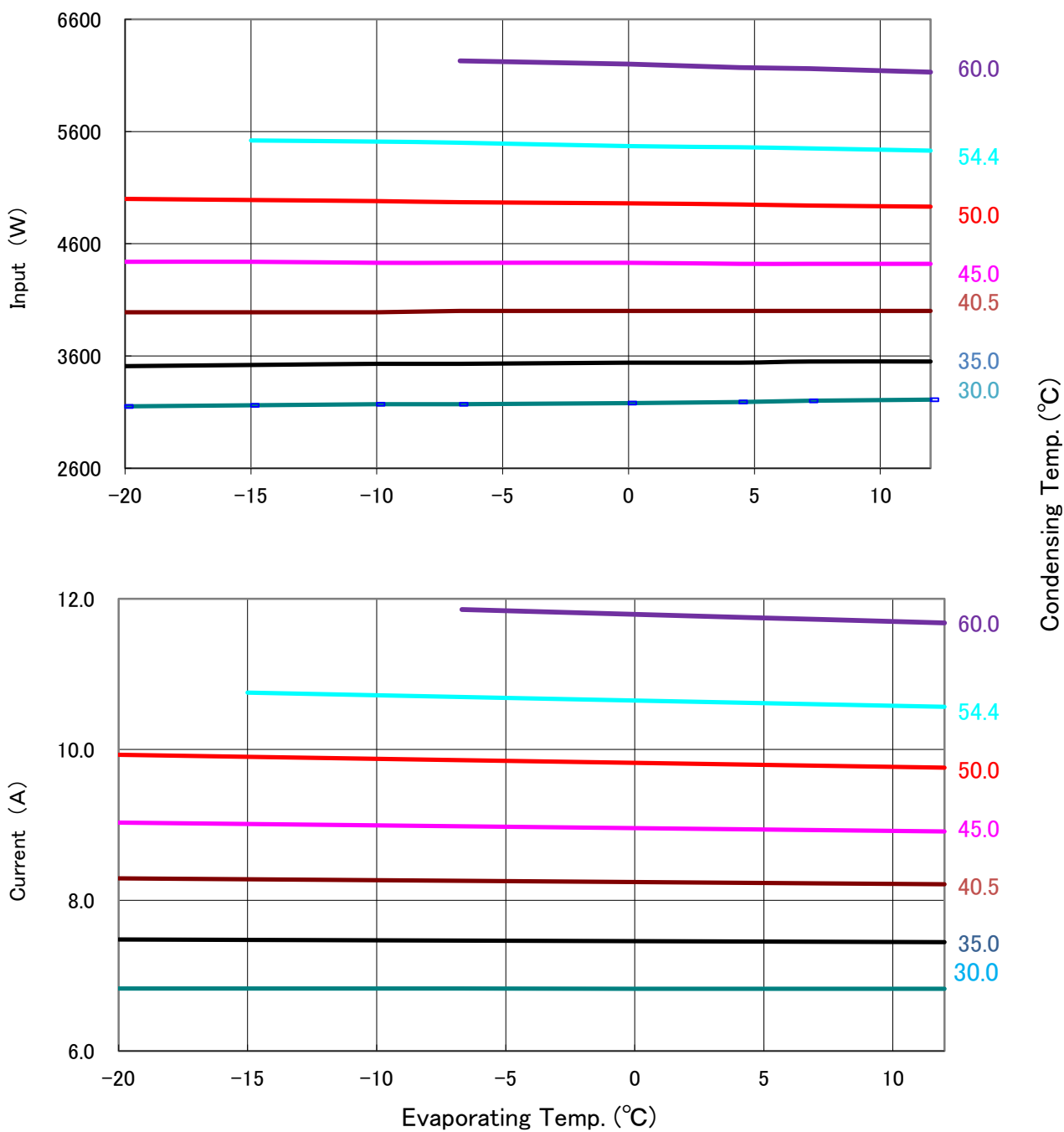
PERFORMANCE CURVE

Code No.	C-SBVN373L0B
Power Source	Inverter 3-PH 50Hz 380V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A



PERFORMANCE CURVE

Code No.	C-SBVN373L0B
Power Source	Inverter 3-PH 50Hz 380V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A



Capacity (W) (50Hz 380V)

		Evaporating Temp. (°C)							
		-20	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30.0	8,800	10,560	12,660	14,270	18,210	21,380	23,670	28,180
	35.0	8,000	9,580	11,460	12,910	16,420	19,230	21,270	25,270
	40.5	7,190	8,580	10,250	11,520	14,610	17,080	18,860	22,360
	45.0	6,570	7,830	9,340	10,480	13,260	15,480	17,070	20,210
	50.0	5,950	7,080	8,410	9,430	11,900	13,860	15,270	18,040
	54.4		6,470	7,680	8,600	10,820	12,580	13,850	16,330
	60.0				7,660	9,610	11,150	12,260	14,420

Input (W)

		Evaporating Temp. (°C)							
		-20	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30.0	3,150	3,160	3,170	3,170	3,180	3,190	3,200	3,210
	35.0	3,510	3,520	3,530	3,530	3,540	3,540	3,550	3,550
	40.5	3,990	3,990	3,990	4,000	4,000	4,000	4,000	4,000
	45.0	4,440	4,440	4,430	4,430	4,430	4,420	4,420	4,420
	50.0	5,000	4,990	4,980	4,970	4,960	4,950	4,940	4,930
	54.4		5,520	5,510	5,500	5,470	5,460	5,450	5,430
	60.0				6,230	6,200	6,170	6,160	6,130

Current (A)

		Evaporating Temp. (°C)							
		-20	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
	35.0	7.5	7.5	7.5	7.5	7.5	7.5	7.4	7.4
	40.5	8.3	8.3	8.3	8.3	8.2	8.2	8.2	8.2
	45.0	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.9
	50.0	9.9	9.9	9.9	9.9	9.8	9.8	9.8	9.8
	54.4		10.8	10.7	10.7	10.7	10.6	10.6	10.6
	60.0				11.9	11.8	11.8	11.7	11.7

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)
C1	3.243900E+04	2.287238E+03	4.698269E+00
C2	1.202626E+03	-6.386520E-01	-4.823123E-05
C3	-5.655096E+02	-5.392653E+00	2.364908E-02
C4	1.728200E+01	1.304507E-02	-1.816909E-06
C5	-2.110361E+01	2.414529E-01	1.456141E-04
C6	3.078699E+00	1.175727E+00	1.576416E-03
C7	1.049504E-01	7.906992E-04	5.595692E-08
C8	-1.846776E-01	7.520890E-05	9.641678E-08
C9	1.067623E-01	-5.375523E-03	-5.024138E-06
C10	-1.148577E-08	-6.367050E-09	8.910913E-12

Note: The polynomial coefficients subject to change without notice.

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

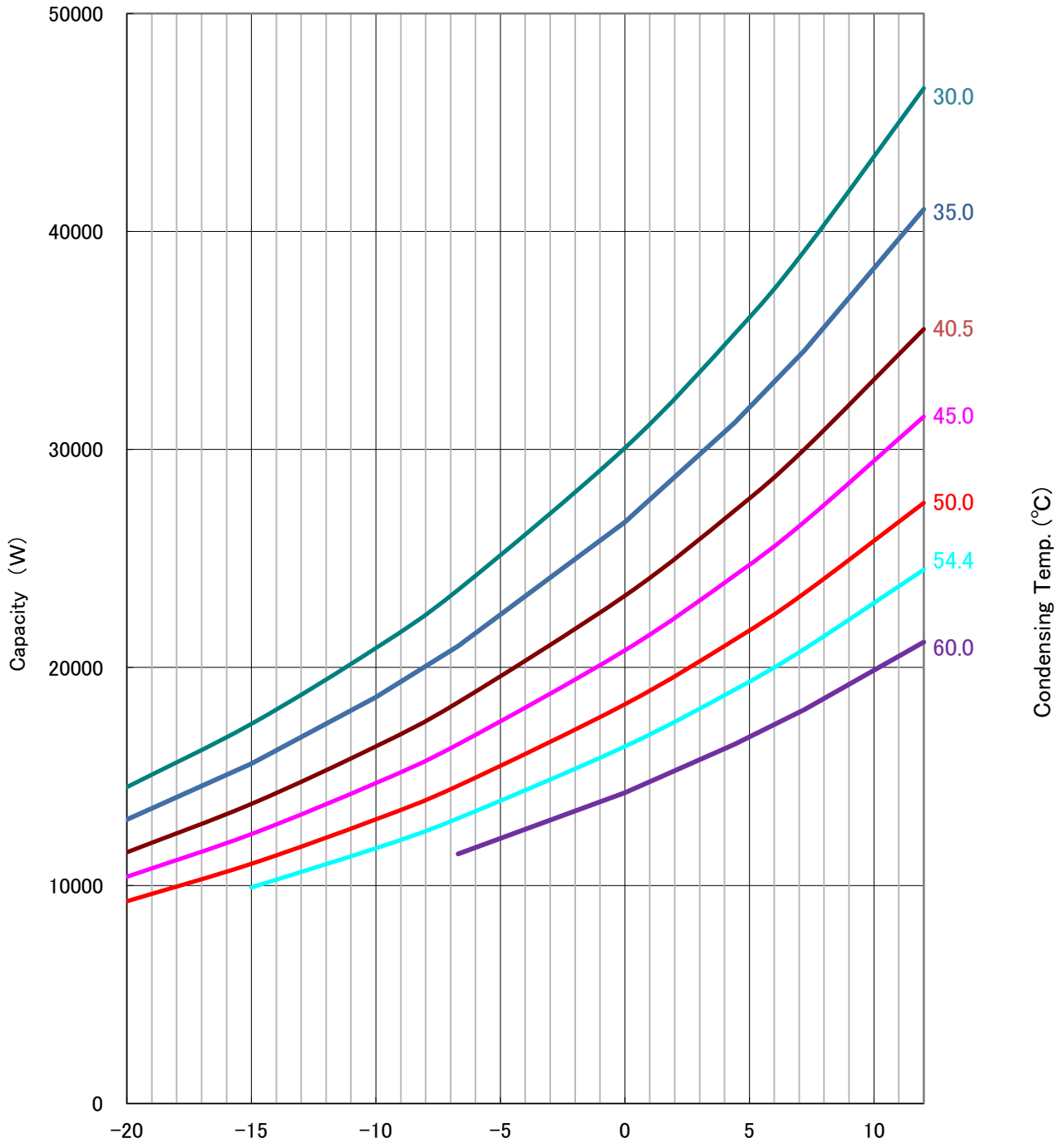
X—CAPACITY(W) OR POWER(W) OR CURRENT(A)

S—EVAPORATING TEMP, °C

D—CONDENSING TEMP, °C

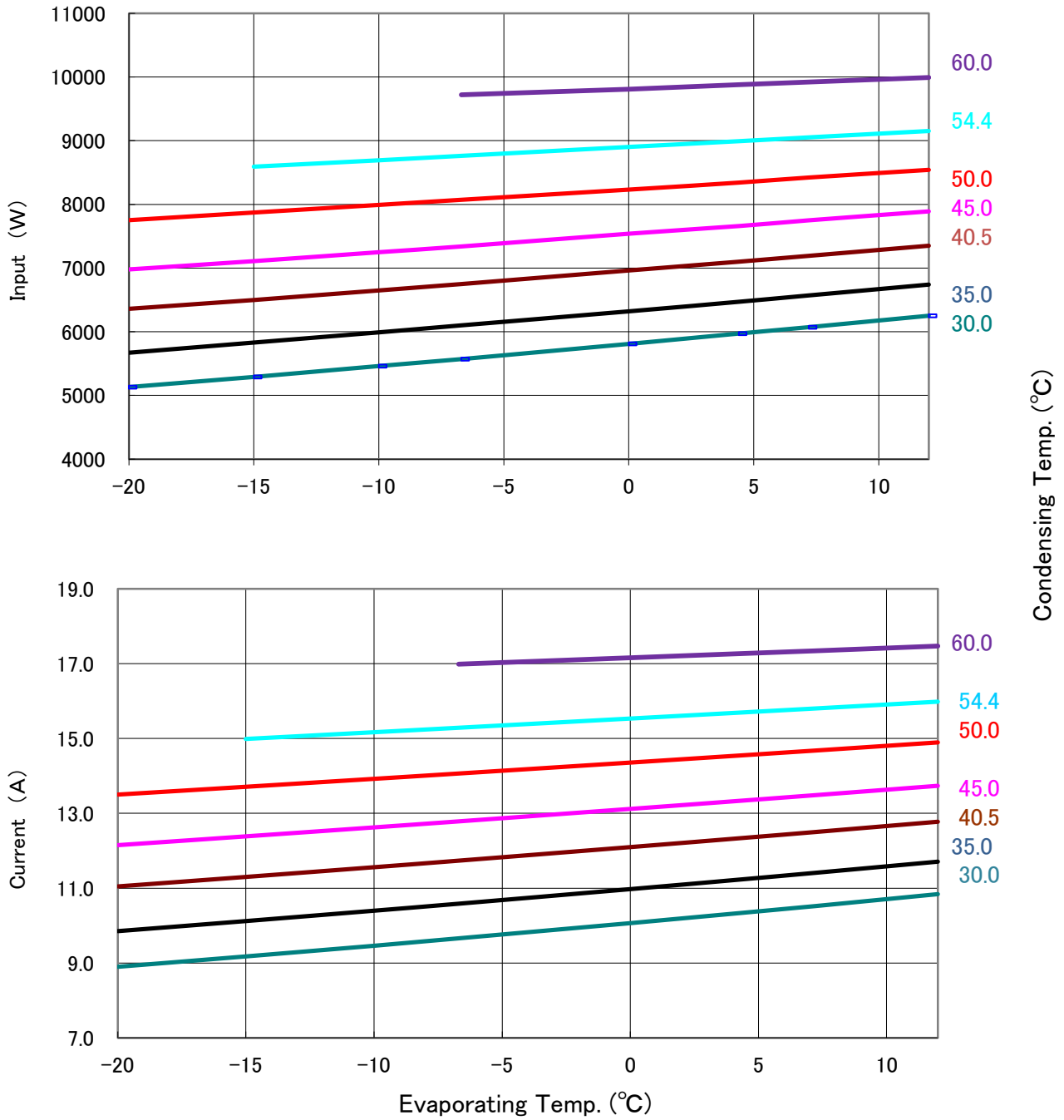
PERFORMANCE CURVE

Code No.	C-SBVN373L0B
Power Source	Inverter 3-PH 80Hz 380V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A



PERFORMANCE CURVE

Code No.	C-SBVN373L0B
Power Source	Inverter 3-PH 80Hz 380V
Condensing Temp.(°C)	30, 35, 40.5, 45, 50, 54.4, 60
Suction Gas Temp(°C)	18.3
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A



Capacity (W) (80Hz 380V)

		Evaporating Temp. (°C)							
		-20	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	30.0	14,510	17,410	20,890	23,560	30,070	35,300	39,100	46,570
	35.0	13,020	15,580	18,640	20,980	26,670	31,230	34,530	41,010
	40.5	11,520	13,740	16,380	18,400	23,290	27,190	30,000	35,520
	45.0	10,400	12,360	14,700	16,480	20,790	24,220	26,680	31,510
	50.0	9,270	10,990	13,030	14,570	18,310	21,270	23,400	27,550
	54.4		9,910	11,710	13,080	16,380	18,980	20,850	24,490
	60.0				11,450	14,260	16,480	18,070	21,160

Input (W)

		Evaporating Temp. (°C)							
		-20	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	35.0	5,130	5,290	5,460	5,570	5,810	5,970	6,070	6,250
	40.5	5,670	5,830	5,990	6,100	6,320	6,470	6,570	6,740
	45.0	6,360	6,500	6,650	6,750	6,960	7,100	7,190	7,350
	50.0	6,980	7,110	7,250	7,340	7,540	7,660	7,750	7,890
	54.4	7,750	7,870	7,990	8,070	8,230	8,340	8,420	8,540
	60.0		8,590	8,690	8,760	8,900	8,990	9,050	9,150
	65.0				9,720	9,810	9,880	9,920	9,990

Current (A)

		Evaporating Temp. (°C)							
		-20	-15	-10	-6.7	0	4.4	7.2	12
Condensing Temp. (°C)	35.0	8.9	9.2	9.5	9.7	10.1	10.3	10.5	10.8
	40.5	9.9	10.1	10.4	10.6	11.0	11.2	11.4	11.7
	45.0	11.0	11.3	11.6	11.7	12.1	12.3	12.5	12.8
	50.0	12.1	12.4	12.6	12.8	13.1	13.3	13.5	13.7
	54.4	13.5	13.7	13.9	14.1	14.4	14.5	14.7	14.9
	60.0		15.0	15.2	15.3	15.5	15.7	15.8	16.0
	65.0				17.0	17.2	17.3	17.3	17.5

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)
C1	5.774718E+04	4.009985E+03	6.928712E+00
C2	2.157064E+03	2.734909E+01	4.575871E-02
C3	-1.115757E+03	2.312139E+01	3.870801E-02
C4	2.972160E+01	1.714863E-01	3.704035E-04
C5	-4.214359E+01	7.672395E-01	1.408122E-03
C6	6.509162E+00	1.226811E+00	2.195626E-03
C7	1.719445E-01	1.005198E-04	5.759854E-07
C8	-3.462481E-01	-2.495818E-03	-5.785915E-06
C9	2.308534E-01	-1.629897E-02	-2.899837E-05
C10	-3.005431E-08	1.818873E-08	2.930906E-11

Note: The polynomial coefficients subject to change without notice.

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

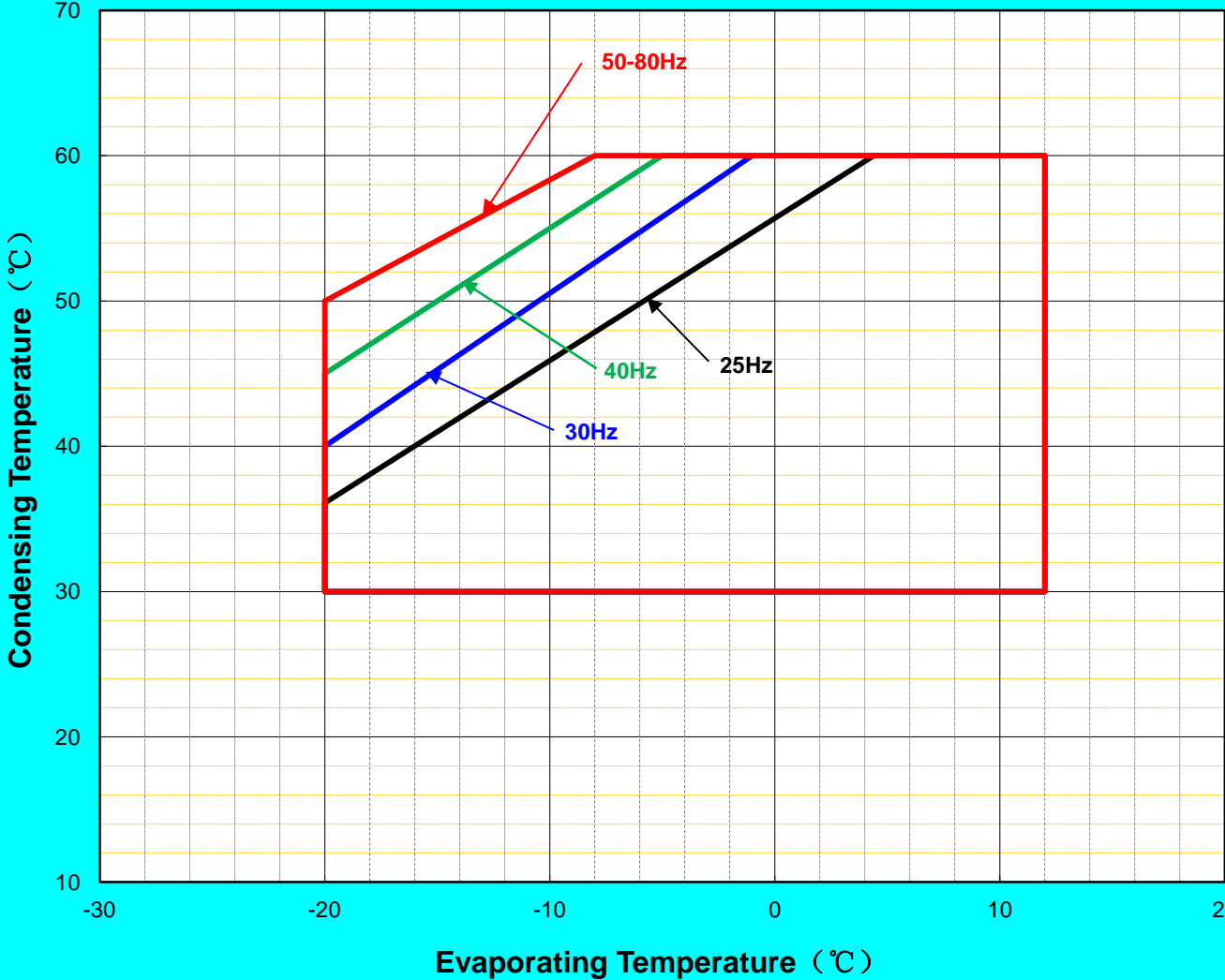
X—CAPACITY(W) OR POWER(W) OR CURRENT(A)

S—EVAPORATING TEMP, °C

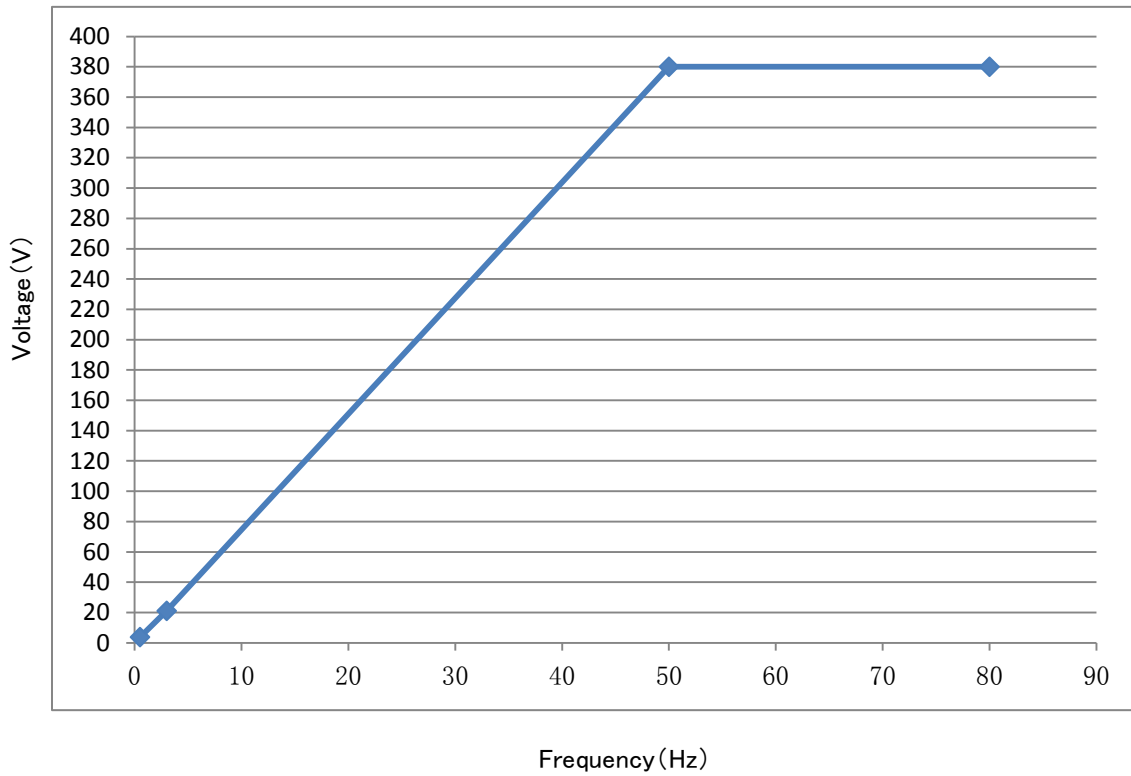
D—CONDENSING TEMP, °C

Operating Envelope

Suction Gas Superheat: 18.3°C
Refrigerant: R404A



Voltage-Frequency Curve



Outline Graph

