

# SPECIFICATIONS OF COMPRESSOR

Model No: 3CB110SA0M

Output : 7 HP



**Panasonic Appliances Compressor (Dalian) Co.,Ltd.**

02/Sep/19

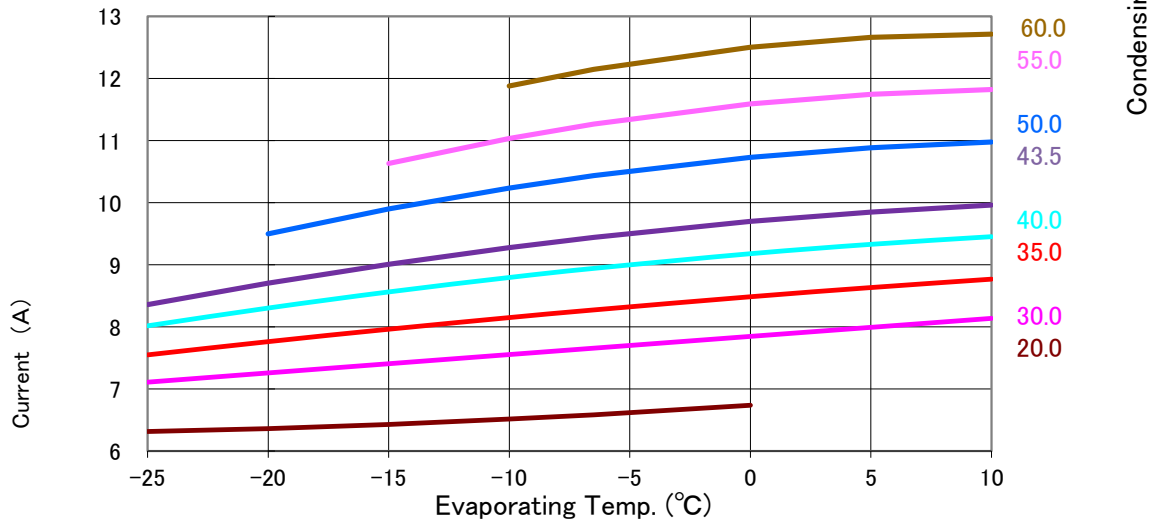
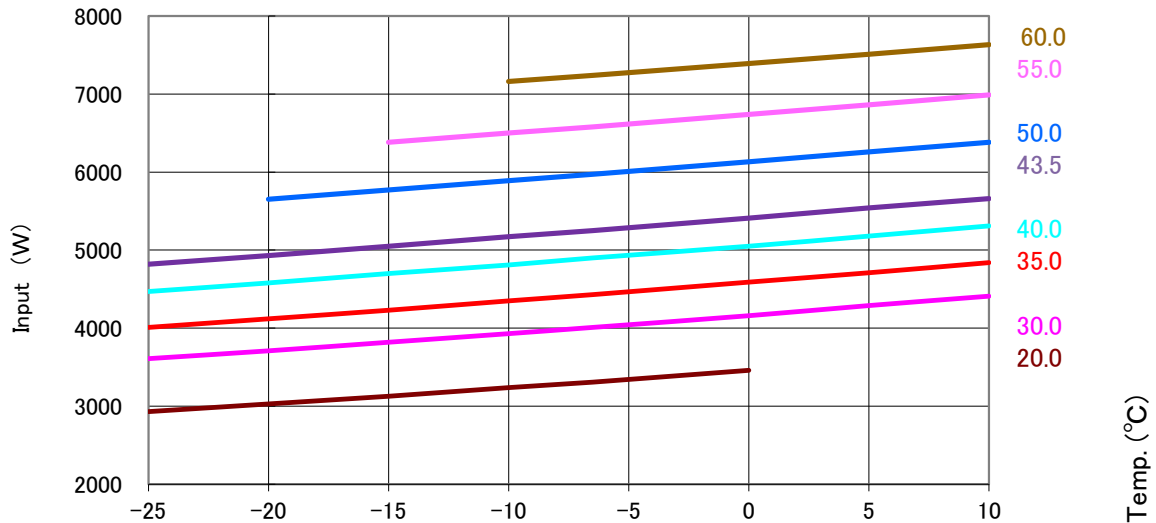
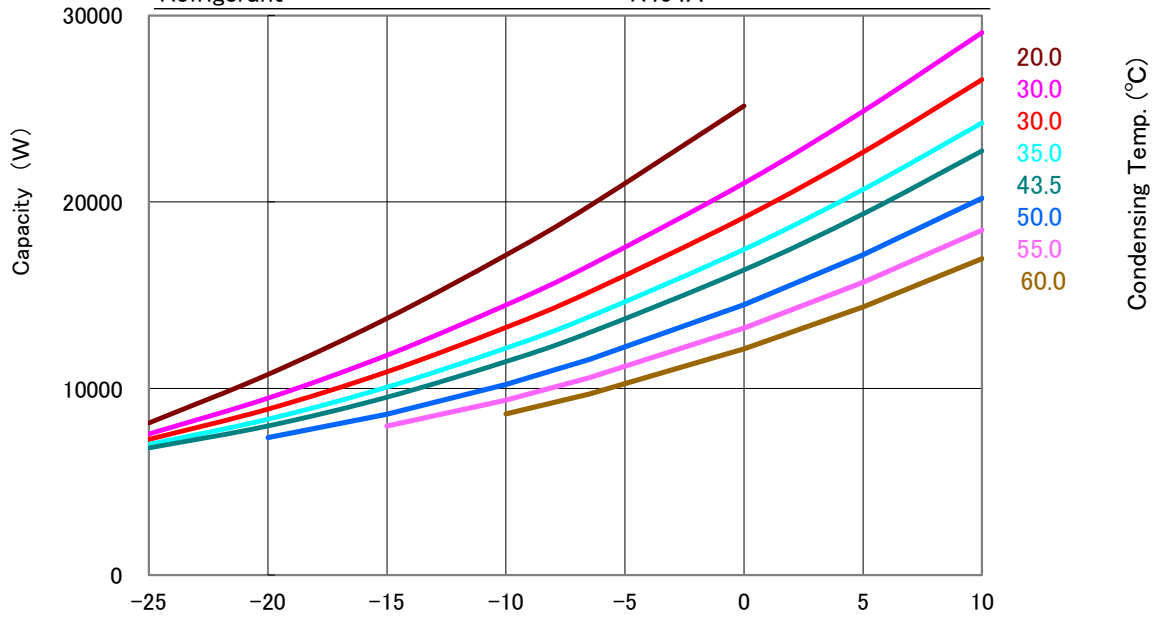
# GENERAL SPECIFICATIONS

Model No:	3CB110SA0M	
<b>Application</b>		
Evaporating Temp Range	(°C)	-25 ~ 10
Refrigerant	R404A	
Compressor Cooling	Natural Cooling	
<b>Rated Performance</b>		
Capacity	(W)	13,000
Input	(W)	5,250
Current	(A)	9.4
Revolution	(min <sup>-1</sup> )	2950
Sound Level	(dB(A))	65max
<b>Rating Conditions</b>		
Power Source	3-PH 50Hz 380-415V	
Evaporating Temp	(°C)	-6.5
Condensing Temp	(°C)	43.5
Suction Gas Temp	(°C)	18.5
Liquid Temp	(°C)	43.5
Ambient Temp	(°C)	35.0
<b>Measuring Point of Sound Level</b>		
Distance from the Compressor	(m)	1.0
<b>Compressor</b>		
Design	Hermetic Scroll	
Displacement	(cm <sup>3</sup> )	110.2
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
<b>Motor</b>		
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.	3CB110SA0M
Power Source	3-PH 50Hz 380-415V
Condensing Temp.(°C)	20、30、35、40、43.5、50、55、60
Suction Gas Temp.(°C)	18.5
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A



# PERFORMANCE DATA

Code No.	3CB110SA0M
Power Source	3-PH 50Hz 380-415V
Condensing Temp.(°C)	20、30、35、40、43.5、50、55、60
Suction Gas Temp.(°C)	18.5
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A

Capacity (W)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp. (°C)	20.0	8,160	10,760	13,760	17,160	19,780	25,150		
	30.0	7,570	9,490	11,790	14,480	16,590	21,010	24,860	29,080
	35.0	7,280	8,900	10,900	13,280	15,170	19,170	22,670	26,560
	40.0	7,010	8,360	10,080	12,170	13,850	17,460	20,670	24,240
	43.5	6,820	8,000	9,540	11,450	13,000	16,360	19,360	22,740
	50.0		7,370	8,620	10,220	11,560	14,500	17,170	20,200
	55.0			7,990	9,390	10,580	13,240	15,690	18,490
	60.0				8,640	9,710	12,130	14,380	16,970

Input (W)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp. (°C)	20.0	2,930	3,030	3,130	3,240	3,310	3,460		
	30.0	3,610	3,710	3,820	3,930	4,010	4,160	4,290	4,410
	35.0	4,010	4,120	4,230	4,350	4,430	4,590	4,710	4,840
	40.0	4,470	4,580	4,700	4,810	4,900	5,050	5,180	5,310
	43.5	4,820	4,930	5,050	5,170	5,250	5,410	5,540	5,660
	50.0		5,650	5,770	5,890	5,970	6,130	6,260	6,380
	55.0			6,380	6,500	6,580	6,740	6,860	6,990
	60.0				7,160	7,240	7,390	7,510	7,630

Current (A)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp. (°C)	20.0	6.3	6.4	6.4	6.5	6.6	6.7		
	30.0	7.1	7.3	7.4	7.6	7.7	7.8	8.0	8.1
	35.0	7.5	7.8	8.0	8.1	8.3	8.5	8.6	8.8
	40.0	8.0	8.3	8.6	8.8	8.9	9.2	9.3	9.5
	43.5	8.4	8.7	9.0	9.3	9.4	9.7	9.8	10.0
	50.0		9.5	9.9	10.2	10.4	10.7	10.9	11.0
	55.0			10.6	11.0	11.3	11.6	11.7	11.8
	60.0				11.9	12.1	12.5	12.7	12.7

## Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)
C1	3.519027E+04	2.606013E+03	5.201334E+00
C2	1.242664E+03	1.978017E+01	4.032098E-02
C3	-5.607124E+02	2.410621E+01	5.496820E-02
C4	8.525532E+00	1.274394E-01	1.673445E-03
C5	-2.039977E+01	2.205943E-01	-8.375288E-04
C6	2.938347E+00	9.281031E-01	1.110531E-03
C7	-8.968153E-05	1.257325E-04	5.140889E-07
C8	-2.792250E-02	-1.868267E-03	-5.622213E-05
C9	1.105023E-01	-2.467437E-03	1.574767E-05
C10	-8.452700E-11	2.351302E-08	3.839134E-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

Refrigerant : R404A

Suction Gas Temp:18.5°C

Sub Cooled: 0 K

