

# SPECIFICATIONS OF COMPRESSOR

Model No: 3CB052SA0M

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

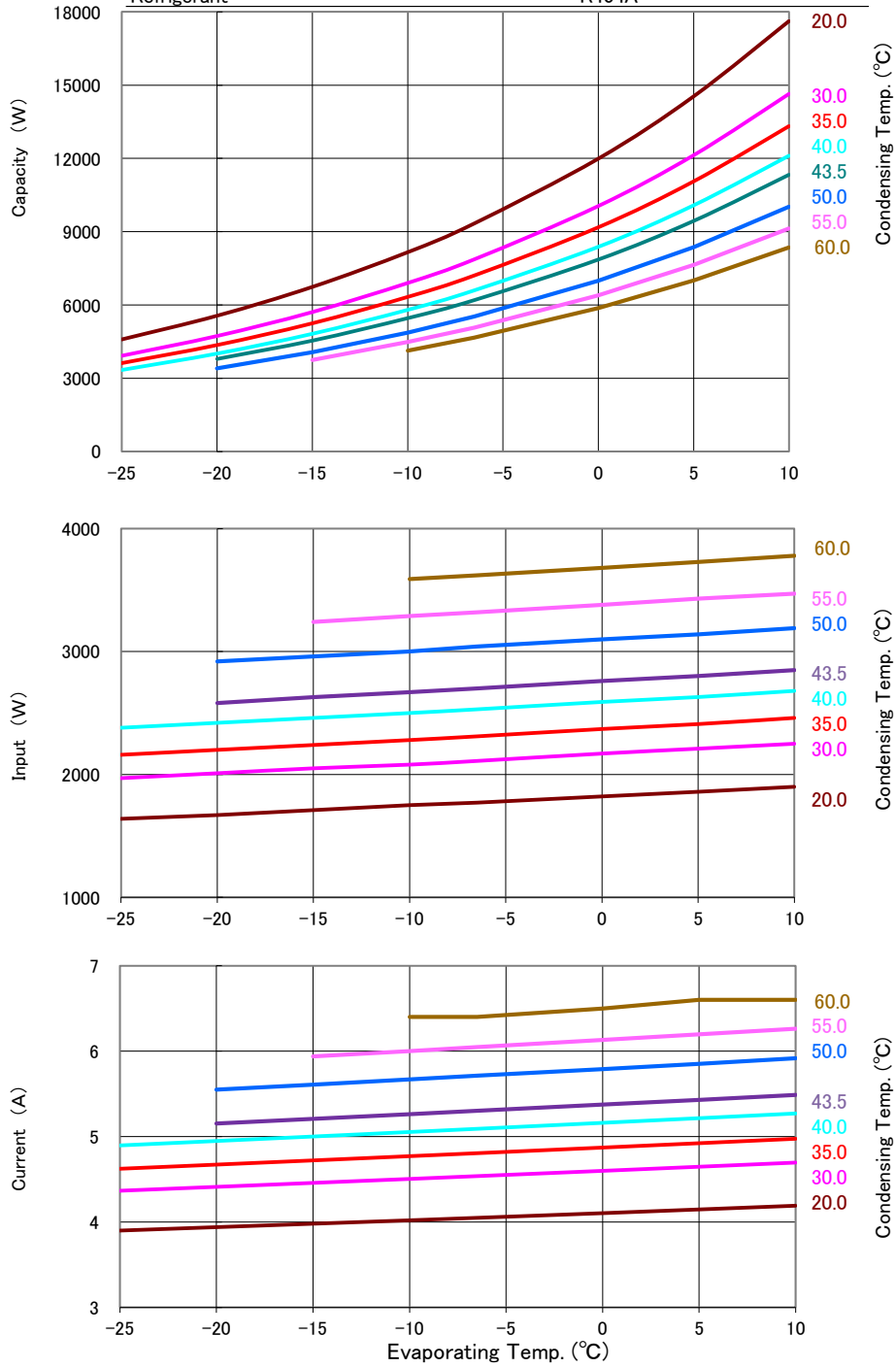
# GENERAL SPECIFICATIONS

Model No:		3CB052SA0M
<b>Application</b>		
Evaporating Temp Range	(°C)	-25 ~ 10
Refrigerant		R404A
Compressor Cooling		Natural Cooling
<b>Rated Performance</b>		
Capacity	(W)	6,200
Input	(W)	2,700
Current	(A)	5.3
Revolution	(min <sup>-1</sup> )	3500
Sound Level	(dB(A))	62
<b>Rating Conditions</b>		
Power Source		3-PH 50Hz 380V
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> )	52.0
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 380V
Voltage Range	(V)	342-418
Starting Current	(A)	-

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# PERFORMANCE CURVE

Code No.	3CB052SA0M
Power Source	3-PH 50Hz 380V
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.	3CB052SA0M
Power Source	3-PH 50Hz 380V
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	4,590	5,560	6,740	8,160	9,340	11,990	14,540	17,620
	30.0	3,920	4,730	5,710	6,900	7,870	10,050	12,130	14,640
	35.0	3,620	4,360	5,250	6,330	7,210	9,180	11,060	13,320
	40.0	3,340	4,010	4,820	5,800	6,600	8,380	10,080	12,110
	43.5	3,150	3,790	4,540	5,460	6,200	7,860	9,440	11,330
	50.0		3,400	4,070	4,870	5,530	6,990	8,370	10,020
	55.0			3,750	4,480	5,070	6,390	7,640	9,130
	60.0				4,130	4,670	5,870	7,000	8,350

Input (W)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp.(°C)	20.0	1,640	1,670	1,710	1,750	1,770	1,820	1,860	1,900
	30.0	1,970	2,010	2,050	2,080	2,110	2,170	2,210	2,250
	35.0	2,160	2,200	2,240	2,280	2,310	2,370	2,410	2,460
	40.0	2,380	2,420	2,460	2,500	2,530	2,590	2,630	2,680
	43.5	2,540	2,580	2,630	2,670	2,700	2,760	2,800	2,850
	50.0		2,920	2,960	3,000	3,040	3,100	3,140	3,190
	55.0			3,240	3,290	3,320	3,380	3,430	3,470
	60.0				3,590	3,620	3,680	3,730	3,780

Current (A)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp.(°C)	20.0	3.9	3.9	4.0	4.0	4.0	4.1	4.1	4.2
	30.0	4.4	4.4	4.5	4.5	4.5	4.6	4.6	4.7
	35.0	4.6	4.7	4.7	4.8	4.8	4.9	4.9	5.0
	40.0	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3
	43.5	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.5
	50.0		5.5	5.6	5.7	5.7	5.8	5.9	5.9
	55.0			5.9	6.0	6.0	6.1	6.2	6.3
	60.0				6.4	6.4	6.5	6.6	6.6

REFRIG FLOW(kg/h)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp.(°C)	20.0	92	112	137	167	192	249	304	370
	30.0	91	111	135	165	189	244	298	363
	35.0	91	110	134	163	188	242	295	359
	40.0	90	110	133	162	186	240	292	355
	43.5	90	109	133	161	185	239	290	353
	50.0		108	132	160	183	236	287	348
	55.0			131	159	182	234	284	345
	60.0				157	180	232	281	341

### Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)	Flow (kg/h)
C1	1.684950E+04	1.383661E+03	3.320483E+00	2.587811E+02
C2	6.479677E+02	6.556148E+00	6.687106E-03	1.052094E+01
C3	-2.693509E+02	1.368311E+01	3.238718E-02	-4.993166E-01
C4	1.028282E+01	2.286156E-02	5.814207E-06	2.013587E-01
C5	-1.018799E+01	6.483692E-02	7.113697E-05	-2.851394E-02
C6	1.434056E+00	4.115917E-01	3.402936E-04	7.993766E-04
C7	6.615634E-02	-1.901897E-04	1.223616E-08	1.790176E-03
C8	-1.024094E-01	-4.094122E-04	1.468066E-07	-4.660535E-04
C9	4.614682E-02	-2.571194E-04	8.285235E-07	4.630863E-05
C10	-3.468776E-08	4.583855E-08	3.274364E-12	1.700431E-10

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

SubCooling: 0K

