SPECIFICATIONS OF COMPRESSOR

Model No: 3CB052SA0M

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

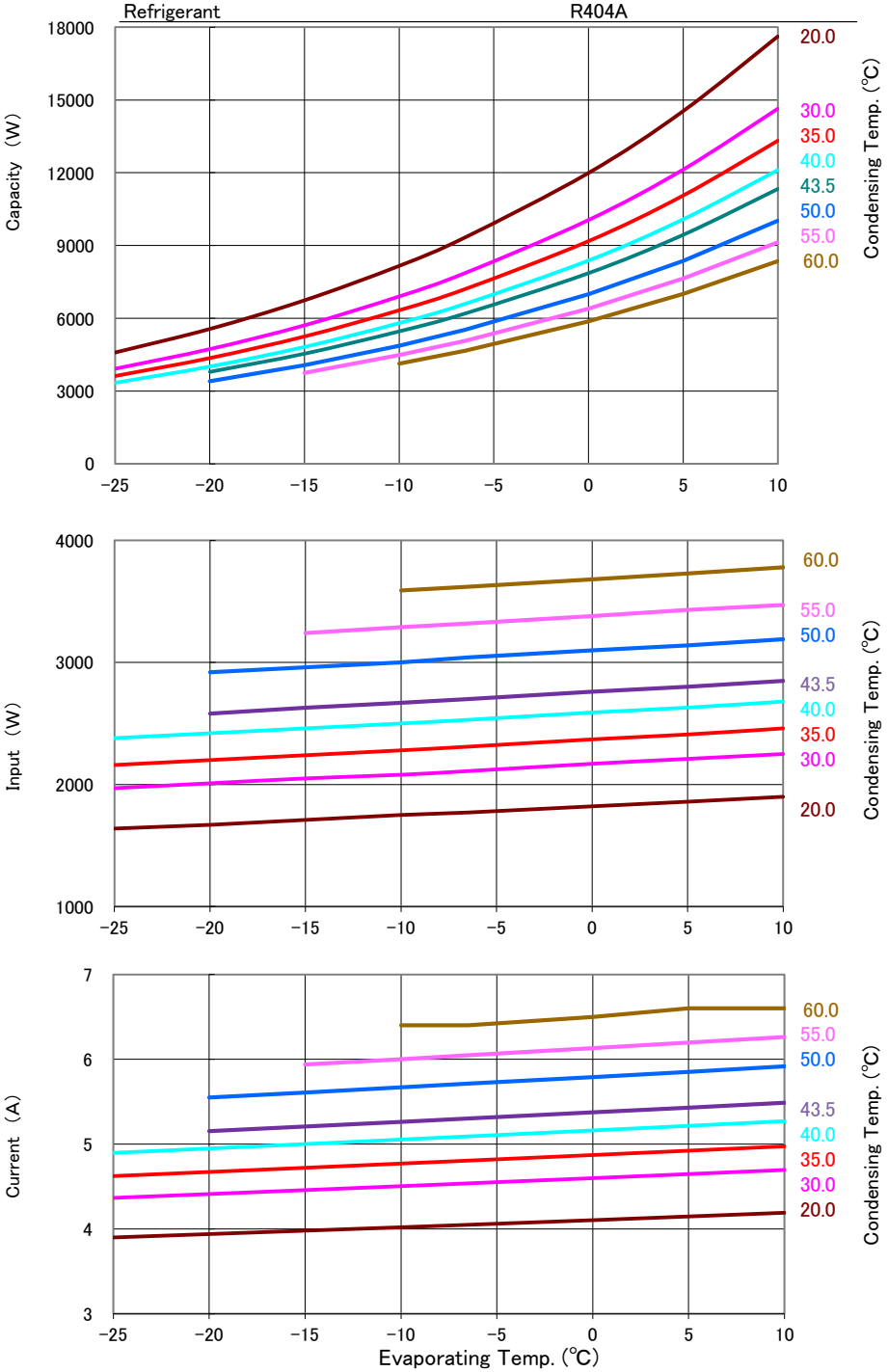
GENERAL SPECIFICATIONS

Model No:		3CB052SA0M
Application		
Evaporating Temp Range	(℃)	−25 ～ 10
Refrigerant		R404A
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	6,200
Input	(W)	2,700
Current	(A)	5.3
Revolution	(min^{-1})	3500
Sound Level	(dB(A))	62
Rating Conditions		
Power Source		3-PH 50Hz 380V
Evaporating Temp	(℃)	−6.5
Condensing Temp	(℃)	43.5
Suction Gas Temp	(℃)	18.5
Liquid Temp	(℃)	43.5
Ambient Temp	(℃)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm3)	52.0
Suction Line Connection	(Φmm 0D)	22.22
Discharge Line Connection	(Φmm 0D)	12.7
Oil	(ml)	1700 (FV68S)
Mass(Incl.Oil)	(kg)	38
Motor		
Type		3-PH Induction Motor(3IR)
Pole		2
Rated Power Source		3-PH 50Hz 380V
Voltage Range	(V)	342-418
Starting Current	(A)	−

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

PERFORMANCE CURVE

Code No.	3CB052SA0M
Power Source	3-PH 50Hz 380V
Condensing Temp.(℃)	20、30、35、40、43.5、50、55、60
Suction Gas Temp.(℃)	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.(℃)	20、30、35、40、43.5、50、55、60
Suction Gas Temp.(℃)	18.5
Sub Cooled(K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A

Capacity （W）

Condensing Temp.(℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.5	0	5	10
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）

Condensing Temp.(℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.5	0	5	10
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）

Condensing Temp.(℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.5	0	5	10
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)

Condensing Temp.(℃) \ Evaporating Temp. (℃)	-25	-20	-15	-10	-6.5	0	5	10
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 Polynominal 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℃

SubCooling: OK

