

SPECIFICATIONS OF COMPRESSOR

Model No: 3CB052EA0M

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

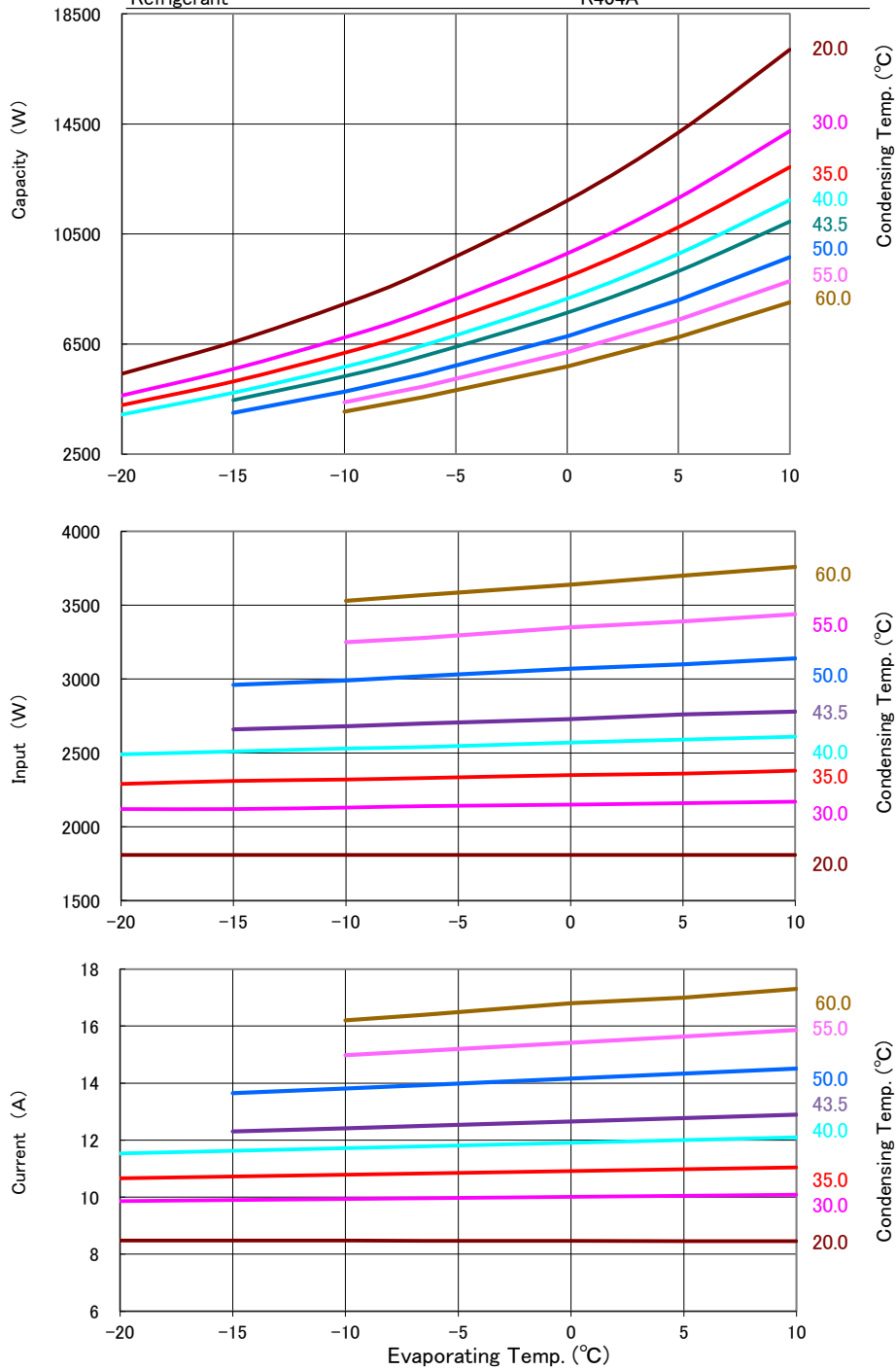
GENERAL SPECIFICATIONS

Model No:	3CB052EA0M	
Application		
Evaporating Temp Range	(°C)	-25 ~ 10
Refrigerant	R404A	
Compressor Cooling	Natural Cooling	
Rated Performance		
Capacity	(W)	6,050
Input	(W)	2,700
Current	(A)	12.5
Revolution	(min ⁻¹)	2900
Sound Level	(dB(A))	59
Rating Conditions		
Power Source	1-PH 50Hz 220V	
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
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design	Hermetic Scroll	
Displacement	(cm ³)	52.0
Suction Line Connection	(Φ mm OD)	22.2
Discharge Line Connection	(Φ mm OD)	12.7
Oil	(ml)	1700 (FV68S)
Mass(Incl.Oil)	(kg)	38.5
Motor		
Type	1-PH Induction Motor(CSR)	
Pole	2	
Rated Power Source	1-PH 50Hz 220V	
Voltage Range	(V)	198-242
Starting Current	(A)	-

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PERFORMANCE CURVE

Code No.	3CB052EA0M
Power Source	1-PH 50Hz 220V
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.	3CB052EA0M
Power Source	1-PH 50Hz 220V
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)						
		-20	-15	-10	-6.5	0	5	10
Condensing Temp.(°C)	20.0	5,420	6,570	7,960	9,110	11,710	14,190	17,200
	30.0	4,630	5,590	6,740	7,680	9,790	11,810	14,240
	35.0	4,280	5,140	6,180	7,030	8,940	10,750	12,930
	40.0	3,940	4,730	5,670	6,440	8,150	9,780	11,730
	43.5	3,720	4,460	5,330	6,050	7,640	9,150	10,950
	50.0		4,000	4,770	5,400	6,780	8,090	9,650
	55.0			4,380	4,950	6,200	7,380	8,780
	60.0			4,040	4,560	5,690	6,750	8,010

Input (W)

		Evaporating Temp. (°C)						
		-20	-15	-10	-6.5	0	5	10
Condensing Temp.(°C)	20.0	1,810	1,810	1,810	1,810	1,810	1,810	1,810
	30.0	2,120	2,120	2,130	2,140	2,150	2,160	2,170
	35.0	2,290	2,310	2,320	2,330	2,350	2,360	2,380
	40.0	2,490	2,510	2,530	2,540	2,570	2,590	2,610
	43.5	2,630	2,660	2,680	2,700	2,730	2,760	2,780
	50.0		2,960	2,990	3,020	3,070	3,100	3,140
	55.0			3,250	3,280	3,350	3,390	3,440
	60.0			3,530	3,570	3,640	3,700	3,760

Current (A)

		Evaporating Temp. (°C)						
		-20	-15	-10	-6.5	0	5	10
Condensing Temp.(°C)	20.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5
	30.0	9.9	9.9	9.9	10.0	10.0	10.0	10.1
	35.0	10.7	10.7	10.8	10.8	10.9	11.0	11.0
	40.0	11.5	11.6	11.7	11.8	11.9	12.0	12.1
	43.5	12.2	12.3	12.4	12.5	12.7	12.8	12.9
	50.0		13.6	13.8	13.9	14.2	14.3	14.5
	55.0			15.0	15.1	15.4	15.6	15.9
	60.0			16.2	16.4	16.8	17.0	17.3

REFRIG FLOW(kg/h)

		Evaporating Temp. (°C)						
		-20	-15	-10	-6.5	0	5	10
Condensing Temp.(°C)	20.0	110	135	164	189	244	297	362
	30.0	109	133	162	186	240	292	355
	35.0	109	132	161	184	238	289	351
	40.0	108	132	160	183	236	286	347
	43.5	108	131	159	182	234	284	345
	50.0		130	158	180	232	281	340
	55.0			157	179	230	278	337
	60.0			155	178	227	275	333

Coefficients of Polynomial Formula

	Capacity (W)	Input (W)	Current (A)	Flow (kg/h)
C1	1.649983E+04	1.369651E+03	6.432477E+00	2.536897E+02
C2	6.402584E+02	-8.462837E-01	-6.767901E-03	1.029624E+01
C3	-2.660351E+02	1.412142E+01	6.644505E-02	-4.902215E-01
C4	1.009722E+01	-1.593691E-02	-3.582822E-05	1.958740E-01
C5	-1.038097E+01	-3.523359E-02	-6.192449E-05	-2.965360E-02
C6	1.425757E+00	3.961661E-01	1.760696E-03	8.968742E-04
C7	6.378096E-02	-4.416847E-04	1.899071E-07	1.726078E-03
C8	-1.043573E-01	2.952598E-04	1.627901E-06	-4.869007E-04
C9	4.804736E-02	3.989416E-03	1.780957E-05	4.970982E-05
C10	1.248675E-08	-1.358325E-08	-7.099131E-11	-9.557321E-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

SubCooling: 0K

