

SPECIFICATIONS OF COMPRESSOR

Model No: 3CC171SA0M

Output : 10 HP



Panasonic Appliances Compressor (Dalian) Co., Ltd.

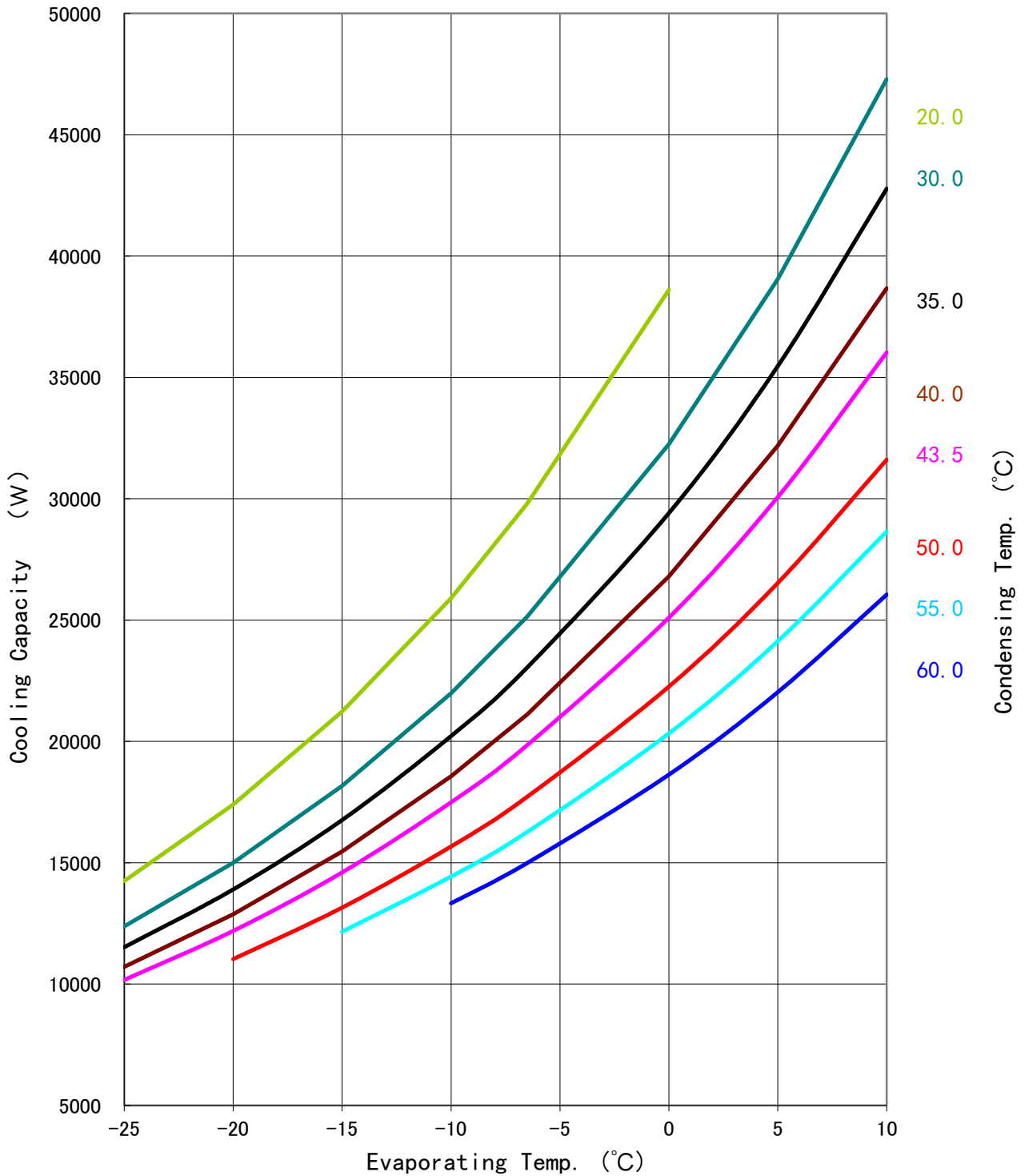
GENERAL SPECIFICATIONS

Model No:	3CC171SA0M		
Application			
Evaporating Temp Range	(°C)	-25.0 ~ 10.0	
Refrigerant		R404A	
Compressor Cooling		Natural Cooling	
Rated Performance			
Cooling Capacity	(W)	19,850	
Input	(W)	8,100	
Current	(A)	14.2	
Revolution	(min ⁻¹)	2,900	
Sound Level	(dB(A))	—	
Rating Conditions			
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	
Measuring Point of Sound Level			
Distance from the Compressor	(m)	1.0	
Compressor			
Design		Hermetic Scroll	
Displacement	(cm ³)	171.2	
Suction Line Connection	(Φ mm OD)	25.4	
Discharge Line Connection	(Φ mm OD)	19.05	
Oil	(ml)	2800 (FV68S)	
Mass(Incl.Oil)	(kg)	69.5	
Motor			
Type		3-PH Induction Motor (3IR)	
Pole		2	
Rated Power Source		3-PH	50Hz 380-415V
Voltage Range	(V)	342~456	
Starting Current	(A)	96	

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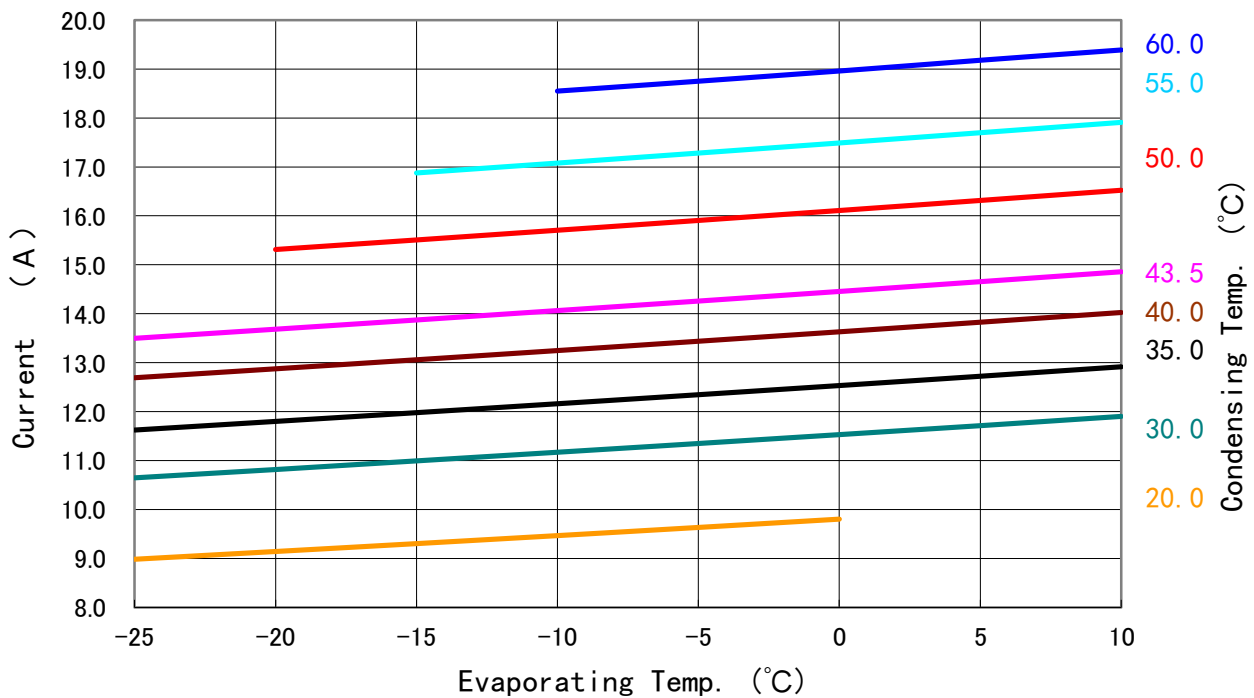
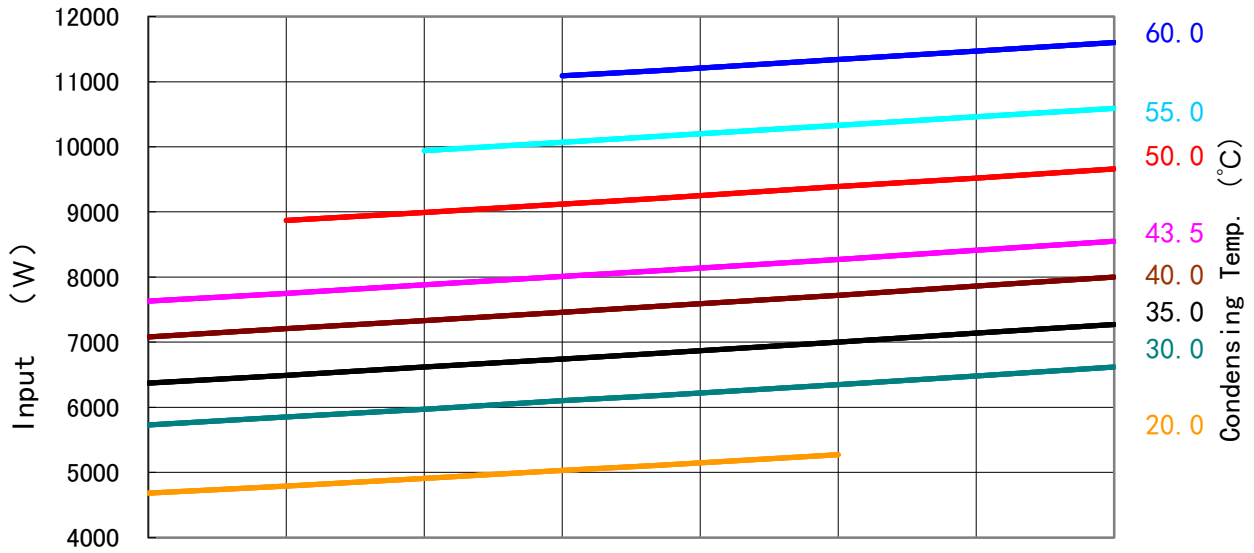
PERFORMANCE CURVE

Code No.	3CC171SA0M
Power Source	3-PH 50Hz 380V
Condensing Temp. (°C)	20, 30, 35, 40, 43.5, 50, 55, 60
Suction Gas Superheat (K)	18.5
Sub Cooled (K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A



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PERFORMANCE DATA

Code No.	3CC171SAOM
Power Source	3-PH 50Hz 380V
Condensing Temp. (°C)	20, 30, 35, 40, 43.5, 50, 55, 60
Suction Gas Superheat (K)	18.5
Sub Cooled (K)	0
Compressor Cooling	Natural Cooling
Refrigerant	R404A

Cooling Capacity (W)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp. (°C)	20.0	14,250	17,390	21,230	25,910	29,800	38,610		
	30.0	12,380	15,000	18,160	21,990	25,140	32,250	39,050	47,290
	35.0	11,520	13,900	16,760	20,220	23,050	29,410	35,470	42,780
	40.0	10,710	12,870	15,460	18,570	21,110	26,800	32,190	38,670
	43.5	10,170	12,190	14,600	17,490	19,850	25,100	30,070	36,030
	50.0		11,030	13,150	15,670	17,720	22,260	26,530	31,610
	55.0			12,160	14,430	16,270	20,330	24,130	28,650
	60.0				13,330	14,990	18,630	22,030	26,050

Input (W)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp. (°C)	20.0	4,680	4,790	4,910	5,030	5,110	5,270		
	30.0	5,730	5,850	5,970	6,100	6,180	6,350	6,480	6,620
	35.0	6,370	6,490	6,620	6,740	6,830	7,000	7,140	7,270
	40.0	7,080	7,210	7,330	7,460	7,550	7,720	7,860	8,000
	43.5	7,630	7,750	7,880	8,010	8,100	8,270	8,410	8,550
	50.0		8,870	8,990	9,120	9,210	9,390	9,520	9,660
	55.0			9,940	10,070	10,160	10,330	10,460	10,590
	60.0				11,090	11,170	11,340	11,470	11,600

Current (A)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp. (°C)	20.0	9.0	9.1	9.3	9.5	9.6	9.8		
	30.0	10.6	10.8	11.0	11.2	11.3	11.5	11.7	11.9
	35.0	11.6	11.8	12.0	12.2	12.3	12.5	12.7	12.9
	40.0	12.7	12.9	13.1	13.2	13.4	13.6	13.8	14.0
	43.5	13.5	13.7	13.9	14.1	14.2	14.5	14.7	14.9
	50.0		15.3	15.5	15.7	15.8	16.1	16.3	16.5
	55.0			16.9	17.1	17.2	17.5	17.7	17.9
	60.0				18.6	18.7	19.0	19.2	19.4

Massflow (kg/H)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp. (°C)	20.0	272	347	438	543	627	801		
	30.0	287	351	433	533	614	787	941	1,114
	35.0	294	353	430	527	607	780	936	1,111
	40.0	302	355	428	522	601	773	930	1,107
	43.5	307	356	426	519	596	768	926	1,105
	50.0		359	423	512	588	759	918	1,101
	55.0			421	507	581	752	912	1,098
	60.0				502	575	745	907	1,095

COP (W/W)

		Evaporating Temp. (°C)							
		-25	-20	-15	-10	-6.5	0	5	10
Condensing Temp. (°C)	20.0	3.04	3.63	4.32	5.15	5.83	7.33		
	30.0	2.16	2.56	3.04	3.60	4.07	5.08	6.03	7.14
	35.0	1.81	2.14	2.53	3.00	3.37	4.20	4.97	5.88
	40.0	1.51	1.79	2.11	2.49	2.80	3.47	4.10	4.83
	43.5	1.33	1.57	1.85	2.18	2.45	3.04	3.58	4.21
	50.0		1.24	1.46	1.72	1.92	2.37	2.79	3.27
	55.0			1.22	1.43	1.60	1.97	2.31	2.71
	60.0				1.20	1.34	1.64	1.92	2.25

Coefficients of Polynomial Formula

	Heating Capacity (W)	Input (W)	Current (A)	Massflow (kg/H)
C1	5.485873E+04	3.976445E+03	7.479969E+00	8.299195E+02
C2	2.282732E+03	1.982443E+01	2.876399E-02	2.841808E+01
C3	-9.036693E+02	3.550681E+01	7.846925E-02	-1.448069E+00
C4	3.676970E+01	5.416573E-02	7.092606E-05	1.996329E-01
C5	-4.109748E+01	3.055398E-01	2.950582E-04	2.257491E-02
C6	5.012994E+00	1.453973E+00	1.882444E-03	6.657112E-04
C7	2.147241E-01	5.247927E-04	1.051360E-07	1.012843E-06
C8	-4.377890E-01	1.954885E-04	-4.046527E-07	5.421434E-03
C9	2.192669E-01	-3.258891E-03	-1.083589E-06	-4.099257E-05
C10	-1.120743E-06	5.901342E-08	2.657553E-11	-5.972162E-10

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

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

