

SPECIFICATIONS OF COMPRESSOR

Model No: 7CE058SA01

Output : 3.5 HP

Temporary

Panasonic Appliances Compressor (Dalian) Co.,Ltd.

11-Oct-22

GENERAL SPECIFICATIONS

Model No:		7CE058SA01
Application		
Evaporating Temp Range	(°C)	-15.0 ~ 12.0
Refrigerant		R290
Compressor Cooling		Natural Cooling
Rated Performance		
Capacity	(W)	8860
Input	(W)	2680
Current	(A)	5.3
Revolution	(min ⁻¹)	
Sound Level	(dB(A))	
Rating Conditions		
Power Source		3-PH 380V 50Hz
Evaporating Temp	(°C)	7.2
Condensing Temp	(°C)	54.4
Suction Gas Temp	(°C)	18.3
Liquid Temp	(°C)	43.8
Ambient Temp	(°C)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm ³)	58.5
Suction Line Connection	(Φ mm OD)	22.22
Discharge Line Connection	(Φ mm OD)	12.7
Oil	(ml)	1700 (PZ68S)
Mass(Incl.Oil)	(kg)	
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)	64

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PERFORMANCE DATA

Compressor Model	7CE058SA01
Power Source	3PH 50Hz 380-415V
Suction Gas Superheat(K)	11.1
Sub Cooling(K)	8.3
Compressor Cooling	Natural Cooling
Refrigerant	R290

CAPACITY(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	4,110	5,150	5,970	8,060	9,820	11,130	12,620	13,800
40.5	3,840	4,810	5,580	7,550	9,200	10,440	11,840	12,950
45.0	3,640	4,560	5,290	7,150	8,720	9,900	11,230	12,290
50.0	3,420	4,280	4,970	6,740	8,220	9,330	10,590	11,600
54.4		4,060	4,710	6,390	7,800	8,860	10,060	11,020
60.0			4,400	5,970	7,300	8,290	9,420	10,320
65.0				5,630	6,880	7,820	8,890	9,740

POWER(W)

Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	1,800	1,830	1,840	1,840	1,830	1,820	1,810	1,800
40.5	2,000	2,030	2,040	2,040	2,040	2,030	2,010	2,000
45.0	2,190	2,210	2,220	2,230	2,230	2,220	2,210	2,200
50.0	2,420	2,440	2,460	2,460	2,460	2,450	2,440	2,430
54.4		2,670	2,680	2,690	2,690	2,680	2,670	2,660
60.0			2,990	3,000	3,000	3,000	2,990	2,980
65.0				3,310	3,310	3,310	3,300	3,300

CURRENT(A)

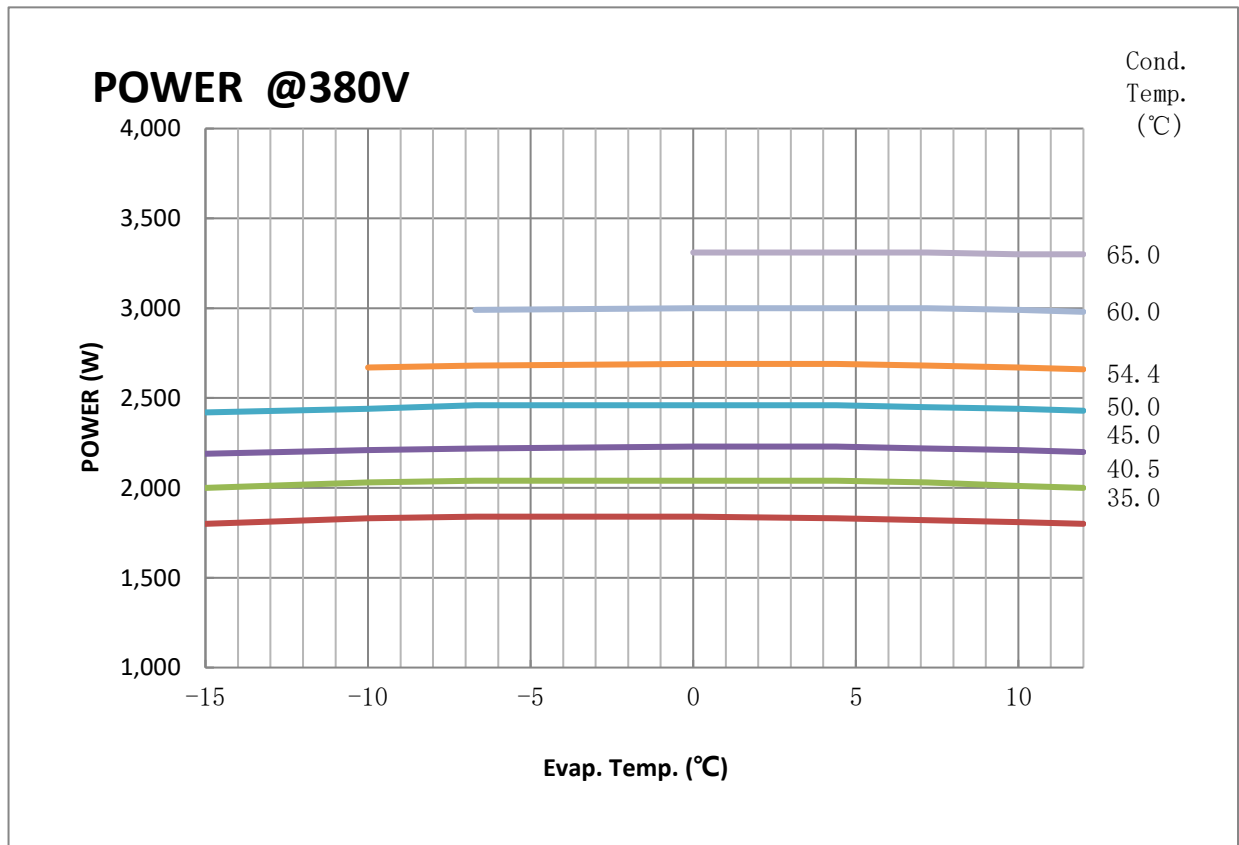
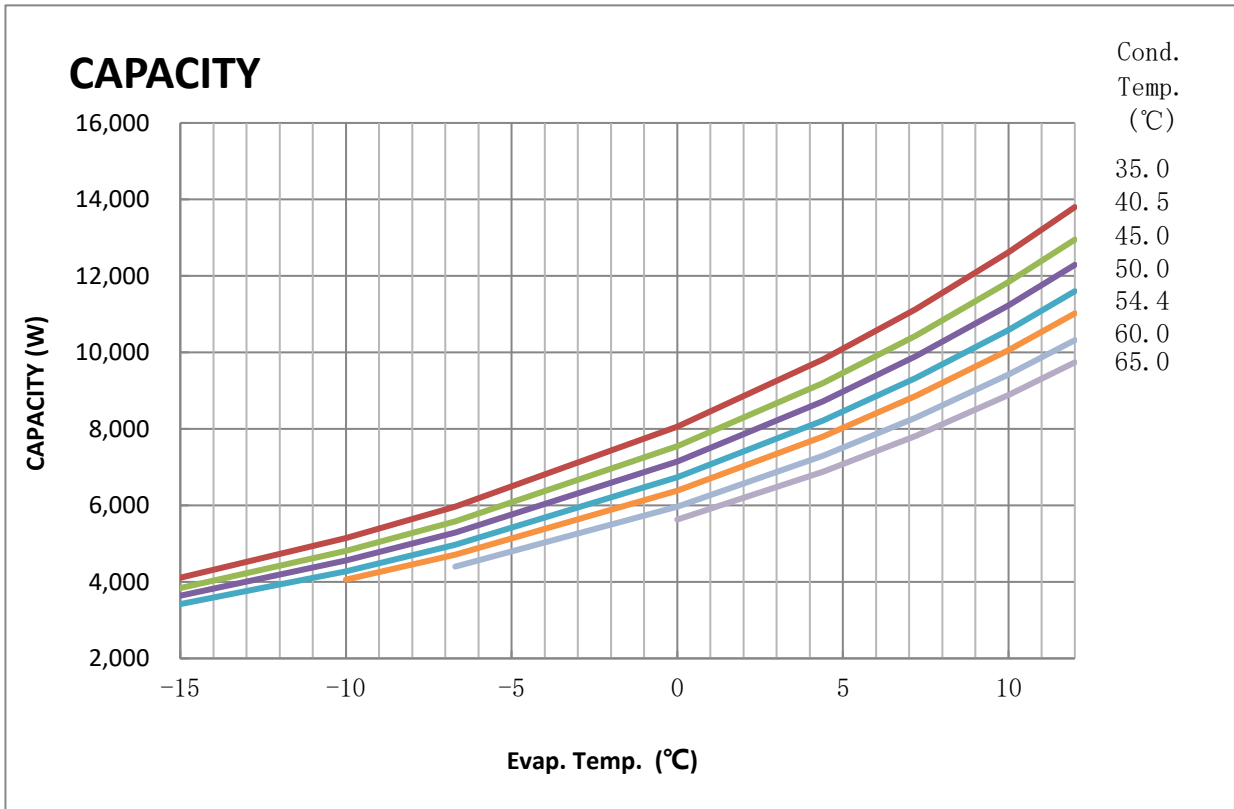
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
40.5	4.6	4.7	4.7	4.7	4.7	4.7	4.6	4.6
45.0	4.8	4.8	4.9	4.9	4.9	4.9	4.8	4.8
50.0	5.0	5.1	5.1	5.1	5.1	5.1	5.1	5.1
54.4		5.3	5.3	5.3	5.3	5.3	5.3	5.3
60.0			5.6	5.6	5.6	5.6	5.6	5.6
65.0				5.8	5.8	5.8	5.8	5.8

REFRIG FLOW(kg/h)

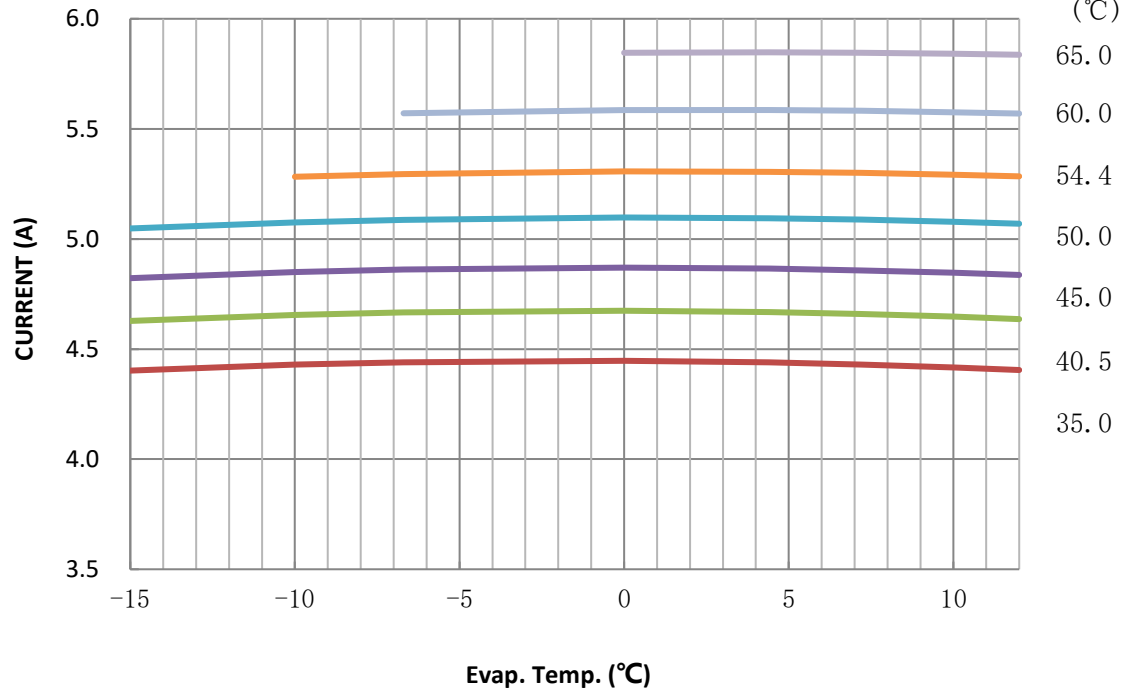
Condensing Temperature(°C)	Evaporating Temperature(°C)							
	-15	-10	-6.7	0	4.4	7.2	10	12
35.0	47.3	58.0	66.4	87.4	104.6	117.3	131.6	142.8
40.5	47.2	57.8	66.1	86.6	103.6	116.0	129.9	140.9
45.0	47.1	57.6	65.7	86.1	102.7	114.9	128.6	139.4
50.0	47.0	57.4	65.4	85.4	101.7	113.7	127.1	137.7
54.4		57.1	65.1	84.8	100.9	112.7	125.9	136.2
60.0			64.7	84.1	99.9	111.4	124.3	134.4
65.0				83.4	98.9	110.3	122.9	132.8

Compressor Model(Code)
Power Source

7CE058SA01
3PH 50Hz 380-415V



CURRENT @ 380V



COEFFICIENTS OF PERFORMANCE CURVES

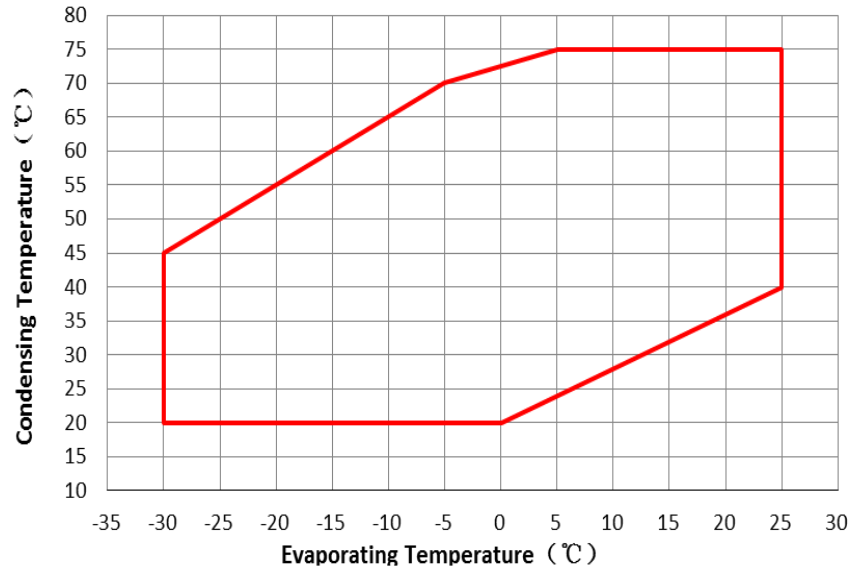
Compressor Model **7CE058SA01**
 Power Source **3PH 50Hz 380-415V**
 Suction Gas Superheat (K) **11.1**
 Sub Cooling (K) **8.3**
 Compressor Cooling **Natural Cooling**
 Refrigerant **R290**

$X=C1+C2*(S)+C3*D+C4*(S^2)+C5*(S*D)+C6*(D^2)+C7*(S^3)+C8*(D*S^2)+C9*(S*D^2)+C10*(D^3)$
 X—CAPACITY(W) OR POWER(W) OR CURRENT(A) OR FLOW(kg/h)
 S—EVAPORATING TEMP, °C
 D—CONDENSING TEMP, °C

380V-50Hz	CAPACITY (W)	POWER (W)	CURRENT (A)	FLOW (kg/h)
1	1.201247E+04	1.264457E+03	3.307750E+00	9.183111E+01
2	5.390343E+02	-1.613911E+00	-1.375269E-03	4.123566E+00
3	-1.303643E+02	-9.731066E-01	2.496362E-02	-1.283325E-01
4	1.100064E+01	-3.118425E-01	-3.242211E-04	8.886750E-02
5	-5.798464E+00	-1.430280E-03	-3.606871E-06	-1.702254E-02
6	4.942774E-01	4.991570E-01	2.166405E-04	-2.059799E-05
7	1.051233E-01	4.069385E-05	9.651092E-08	9.026630E-04
8	-7.752911E-02	2.101591E-03	2.320705E-06	-3.942327E-04
9	2.226641E-02	6.274863E-04	6.864130E-07	5.013148E-05
10	-6.438114E-09	-1.502265E-10	-2.150974E-13	-1.944553E-11

Operating Envelope

Refrigerant : R290



Compressor Outline Drawing

