

SPECIFICATIONS OF COMPRESSOR

Model No: C-SCP435H38Q

Output : 13 HP



Panasonic Appliances Compressor (Dalian) Co., Ltd.

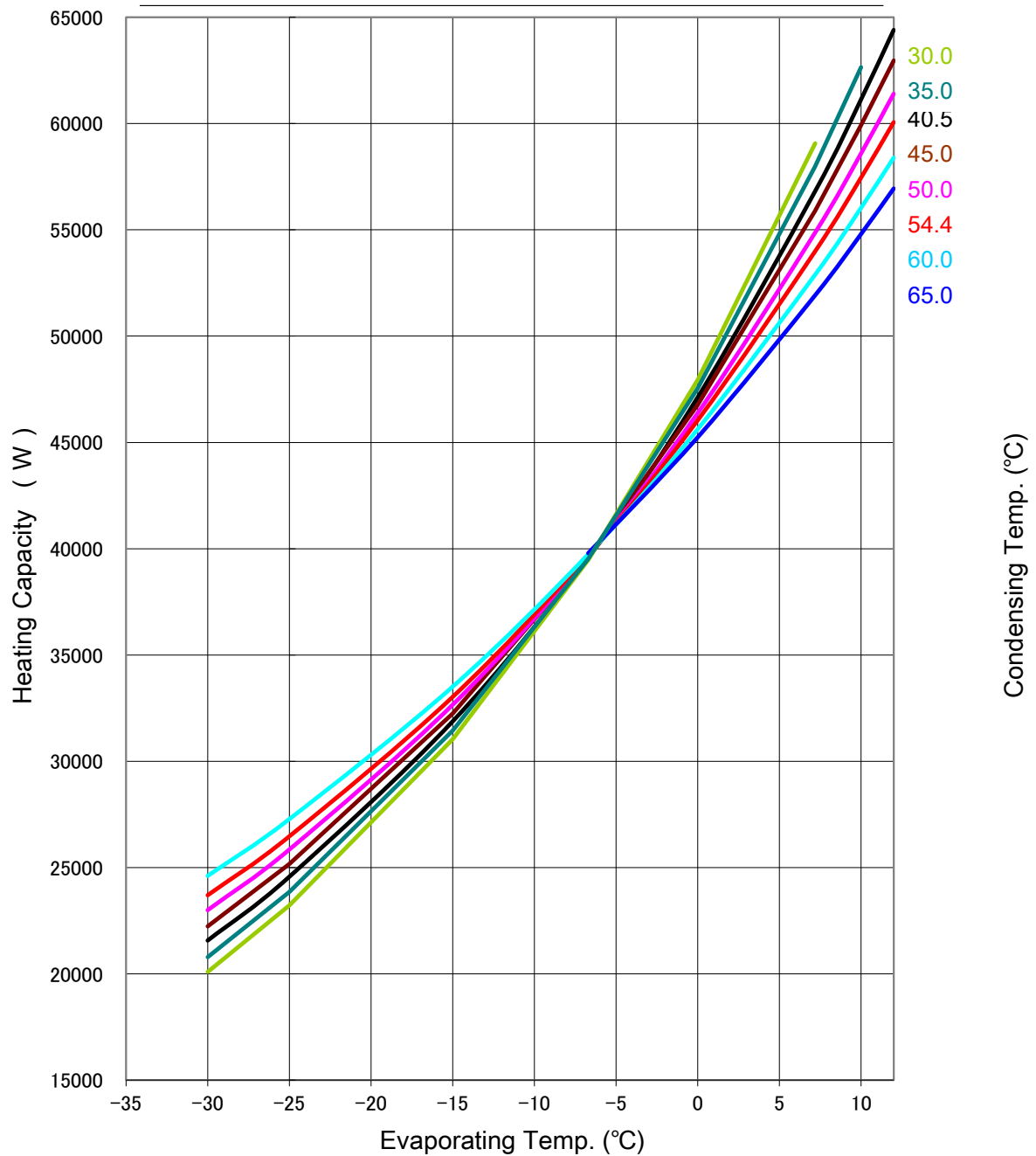
GENERAL SPECIFICATIONS

Model No:		C-SCP435H38Q
Application		
Evaporating Temp Range	(°C)	-35.0 ~ 15.0
Refrigerant		R410A
Compressor Cooling		Gas Injection
Rated Performance		
Heating Capacity	(W)	54,000
Input	(W)	13,800
Current	(A)	22.2
Revolution	(min ⁻¹)	2,900
Sound Level	(dB(A))	-
Rating Conditions		
Power Source		3-PH 50Hz 380V
Evaporating Temp	(°C)	7.2
Condensing Temp	(°C)	54.4
Suction Gas Temp	(°C)	18.3
Liquid Temp	(°C)	-
Ambient Temp	(°C)	35.0
Measuring Point of Sound Level		
Distance from the Compressor	(m)	1.0
Compressor		
Design		Hermetic Scroll
Displacement	(cm ³)	145.4
Suction Line Connection	(Φ mm OD)	25.4
Discharge Line Connection	(Φ mm OD)	19.05
Oil	(ml)	2800 (FV68S)
Mass(Incl.Oil)	(kg)	73.5
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)	130

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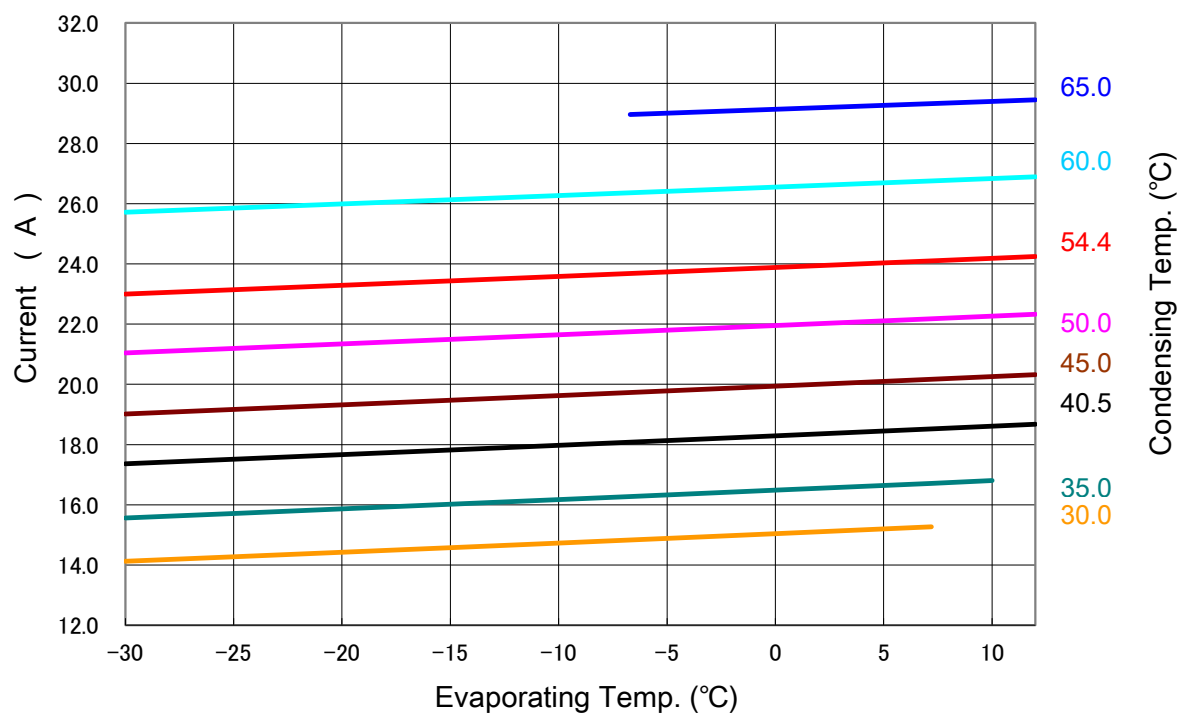
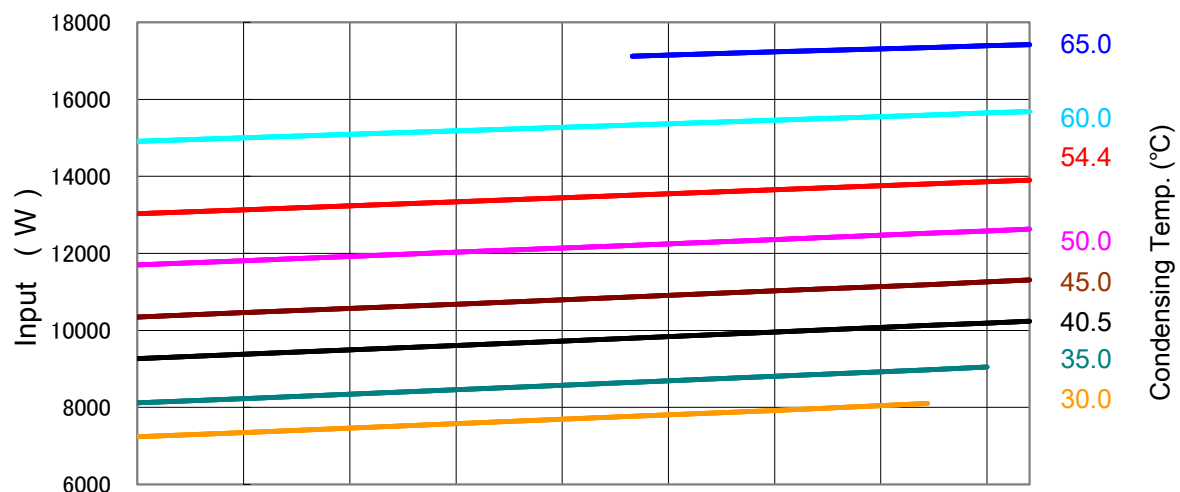
PERFORMANCE CURVE

Code No.	C-SCP435H38Q
Power Source	3-PH 50Hz 380V
Condensing Temp.(°C)	30 , 35 , 40.5 , 45 , 50 , 54.4 , 60 , 65
Suction Gas Superheat(K)	11.1
Sub Cooled(K)	2
Compressor Cooling	Gas Injection
Refrigerant	R410A



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PERFORMANCE DATA

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Heating Capacity (W)

		Evaporating Temp. (°C)							
		-30	-25	-15	-6.7	0	7.2	10	12
Condensing Temp. (°C)	30.0	20,100	23,230	31,040	39,480	47,940	59,070		
	35.0	20,790	23,860	31,440	39,530	47,550	57,990	62,650	
	40.5	21,570	24,570	31,880	39,570	47,120	56,830	61,130	64,400
	45.0	22,240	25,170	32,250	39,610	46,770	55,900	59,920	62,960
	50.0	23,000	25,850	32,660	39,660	46,380	54,880	58,590	61,400
	54.4	23,700	26,470	33,030	39,690	46,040	54,000	57,450	60,060
	60.0	24,610	27,280	33,510	39,740	45,620	52,900	56,030	58,390
	65.0				39,790	45,240	51,930	54,800	56,940

Input (W)

		Evaporating Temp. (°C)							
		-30	-25	-15	-6.7	0	7.2	10	12
Condensing Temp. (°C)	30.0	7,240	7,350	7,580	7,770	7,920	8,100		
	35.0	8,120	8,230	8,460	8,650	8,810	8,980	9,050	
	40.5	9,270	9,380	9,610	9,800	9,960	10,130	10,190	10,240
	45.0	10,350	10,460	10,680	10,870	11,030	11,190	11,260	11,310
	50.0	11,700	11,810	12,030	12,210	12,360	12,520	12,580	12,630
	54.4	13,030	13,130	13,340	13,510	13,650	13,800	13,860	13,900
	60.0	14,910	15,000	15,180	15,330	15,460	15,590	15,650	15,680
	65.0				17,120	17,230	17,340	17,390	17,420

Current (A)

		Evaporating Temp. (°C)							
		-30	-25	-15	-6.7	0	7.2	10	12
Condensing Temp. (°C)	30.0	14.1	14.3	14.6	14.8	15.0	15.3		
	35.0	15.6	15.7	16.0	16.3	16.5	16.7	16.8	
	40.5	17.4	17.5	17.8	18.1	18.3	18.5	18.6	18.7
	45.0	19.0	19.2	19.5	19.7	19.9	20.2	20.3	20.3
	50.0	21.0	21.2	21.5	21.7	22.0	22.2	22.3	22.3
	54.4	23.0	23.1	23.4	23.7	23.9	24.1	24.2	24.2
	60.0	25.7	25.9	26.1	26.4	26.6	26.8	26.8	26.9
	65.0				29.0	29.1	29.3	29.4	29.4

EER (W/W)

		Evaporating Temp. (°C)							
		-30	-25	-15	-6.7	0	7.2	10	12
Condensing Temp. (°C)	30.0	2.78	3.16	4.09	5.08	6.05	7.29		
	35.0	2.56	2.90	3.72	4.57	5.40	6.46	6.92	
	40.5	2.33	2.62	3.32	4.04	4.73	5.61	6.00	6.29
	45.0	2.15	2.41	3.02	3.64	4.24	5.00	5.32	5.57
	50.0	1.97	2.19	2.71	3.25	3.75	4.38	4.66	4.86
	54.4	1.82	2.02	2.48	2.94	3.37	3.91	4.15	4.32
	60.0	1.65	1.82	2.21	2.59	2.95	3.39	3.58	3.72
	65.0					2.63	2.99	3.15	3.27

Coefficients of Polynomial Formula

	Heating Capacity (W)	Input (W)	Current (A)
C1	5.083874E+04	5.703277E+03	1.037778E+01
C2	1.830939E+03	1.150625E+01	2.111110E-02
C3	-9.742667E+01	-1.452366E+01	4.132175E-02
C4	2.570728E+01	2.763337E-02	4.717306E-05
C5	-1.447389E+01	6.681145E-01	5.632325E-04
C6	1.527839E-01	2.952005E+00	3.803852E-03
C7	9.587393E-02	-9.890331E-05	-1.599970E-08
C8	-2.505805E-01	-3.190181E-04	-5.290046E-07
C9	-7.726199E-03	-9.110709E-03	-7.365523E-06
C10	1.176261E-07	9.323172E-09	5.981566E-12

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——HEATING CAPACITY(W) OR POWER(W) OR CURRENT(A)

S——EVAPORATING TEMP, °C

D——CONDENSING TEMP, °C

Operating Envelope

