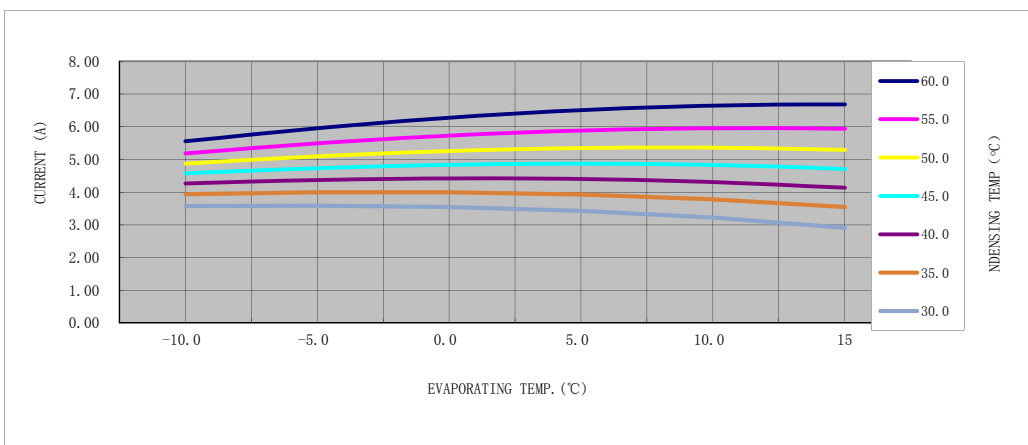
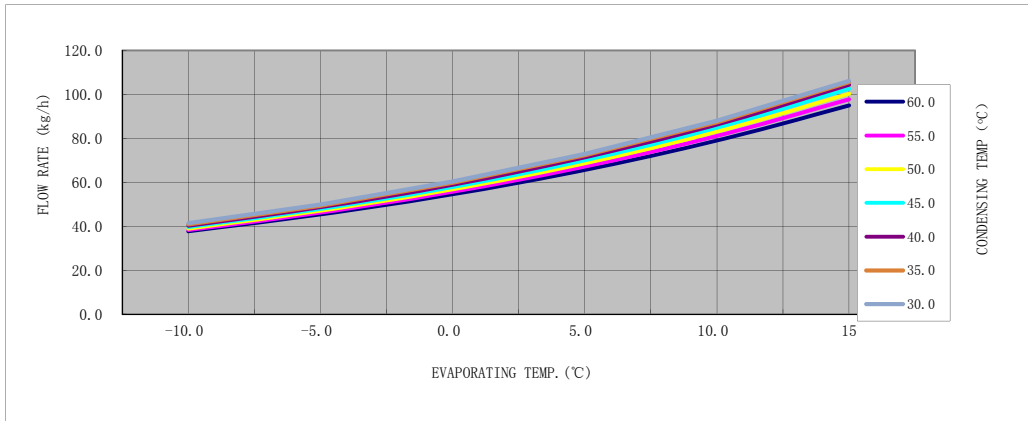
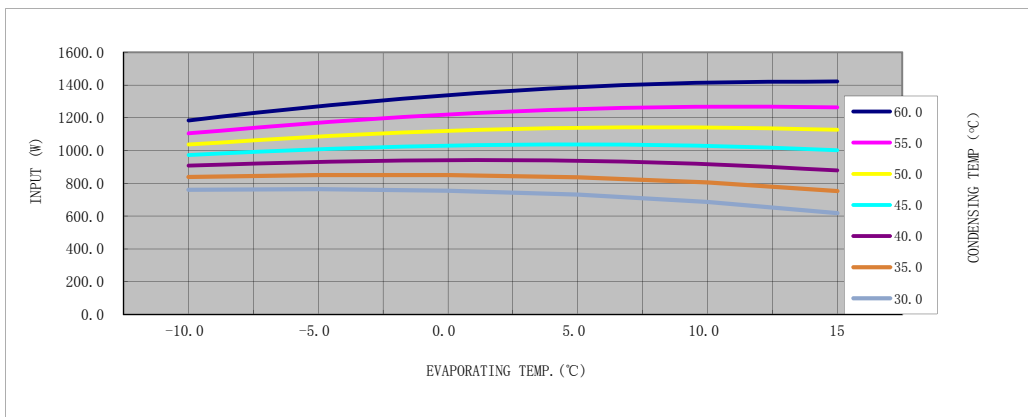
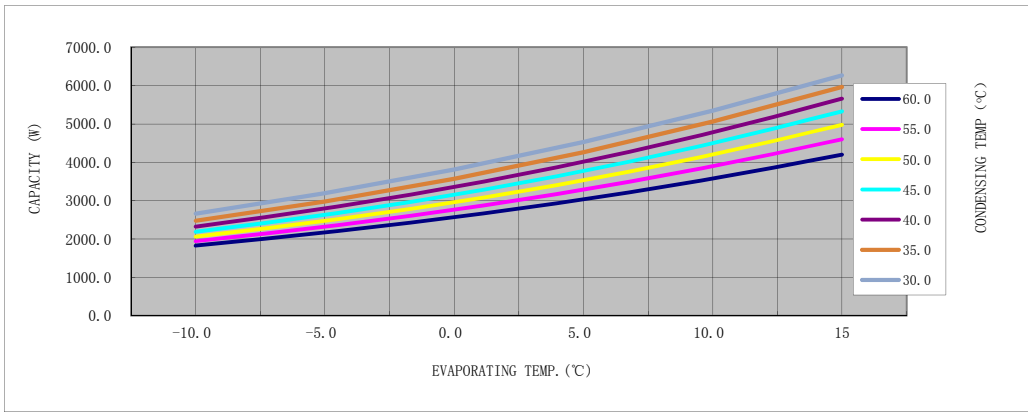


MODEL: PA145G1C-4FT1

R410A 1Φ — 220 V ~ 50 Hz
 RETURN GAS TEMP. — 35 °C
 SUBCOOLING — 8.3 °C
 AMBIENT TEMP. — 35 °C
 RUNNING CAPACITOR — 35 μF

PERFORMANCE CURVE (ASHRAE)



1、Rated condition data

Model	Displacement	Frequency	Power supply	Running capacitor	Capacity	Input power	Flow rate	Current
	cc	Hz	V	uF	W	W	kg/h	A
PA145G1C-4FT1	14.5	50	220	35	3580.0	1240.0	73.3	5.82

2、Data under different condition

Capacity(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	1826.4	2168.2	2567.6	3034.1	3575.7	4199.1
	55.0	1942.6	2320.3	2764.8	3286.5	3896.5	4598.8
	50.0	2060.5	2472.2	2958.7	3532.7	4202.3	4975.4
	45.0	2186.5	2628.4	3154.1	3774.3	4495.7	5328.0
	40.0	2323.5	2795.2	3357.0	4016.2	4780.2	5657.9
	35.0	2478.9	2979.3	3573.6	4265.4	5061.7	5968.6
	30.0	2661.6	3190.1	3812.0	4529.3	5347.6	6269.0

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	1184.4	1270.4	1337.9	1386.9	1415.1	1422.2
	55.0	1104.7	1170.3	1220.5	1253.2	1268.1	1263.6
	50.0	1037.4	1085.9	1120.0	1139.4	1141.6	1126.3
	45.0	973.4	1008.5	1030.4	1037.6	1028.7	1002.1
	40.0	908.3	931.4	941.7	938.1	918.2	879.7
	35.0	838.9	851.1	851.1	836.8	805.8	753.6
	30.0	761.6	764.9	755.5	730.7	687.0	618.0

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	37.6	45.3	54.5	65.6	78.9	95.0
	55.0	38.2	46.1	55.7	67.1	81.0	97.7
	50.0	38.9	47.0	56.8	68.6	83.0	100.3
	45.0	39.6	47.8	57.9	70.0	84.8	102.5
	40.0	40.2	48.6	58.9	71.3	86.3	104.3
	35.0	40.8	49.3	59.7	72.2	87.4	105.6
	30.0	41.4	49.9	60.3	72.9	88.0	106.1

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	5.56	5.96	6.28	6.51	6.65	6.69
	55.0	5.19	5.50	5.73	5.88	5.96	5.94
	50.0	4.88	5.10	5.26	5.35	5.36	5.29
	45.0	4.58	4.74	4.84	4.87	4.83	4.71
	40.0	4.27	4.37	4.42	4.40	4.31	4.13
	35.0	3.94	4.00	3.99	3.93	3.78	3.54
	30.0	3.57	3.59	3.55	3.43	3.23	2.91

3、Ten coefficient method

$$z = p_1 + p_2 * x + p_3 * y + p_4 * x^2 + p_5 * x * y + p_6 * y^2 + p_7 * x^3 + p_8 * x^2 * y + p_9 * x * y^2 + p_{10} * y^3$$
 x——Evaporating Temp.(°C); y——Condensing Temp.(°C)

	Capacity(W)	Input Power(W)	Flow Rate(kg/h)	Current(A)
P1	5.77554012E+03	-3.92652301E+02	5.40683383E+01	-1.79686826E+00
P2	1.32077401E+02	-1.23437468E+01	1.92431017E+00	-5.36988526E-02
P3	-9.07423955E+01	6.24422843E+01	5.62568668E-01	2.89200419E-01
P4	2.61529603E+00	-2.54343937E-01	5.15229325E-02	-1.18944778E-03
P5	8.08945167E-01	1.86109359E-01	2.19494412E-02	6.73902924E-04
P6	1.04570250E+00	-1.05604892E+00	-1.45845996E-02	-4.85339184E-03
P7	9.94512597E-03	-2.67396054E-03	5.38023536E-04	-1.28199548E-05
P8	-1.90344061E-02	-1.37375836E-03	-2.08914529E-04	-5.79399381E-06
P9	-2.63812157E-02	3.52202427E-03	-3.44384139E-04	1.87850499E-05
P10	-7.11585462E-03	8.25482007E-03	8.85587253E-05	3.78777218E-05