

MODEL: PG400G2C-7FTS

R(\$+7 1Φ — 230 V ~ 50 Hz

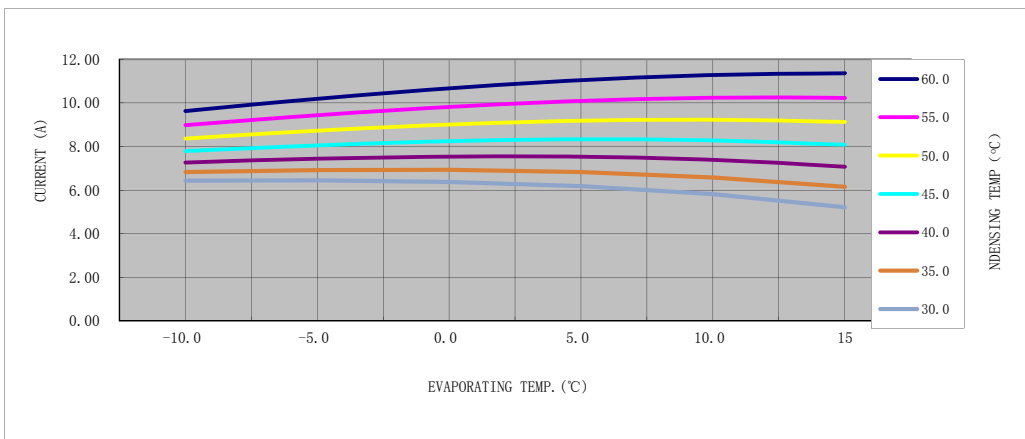
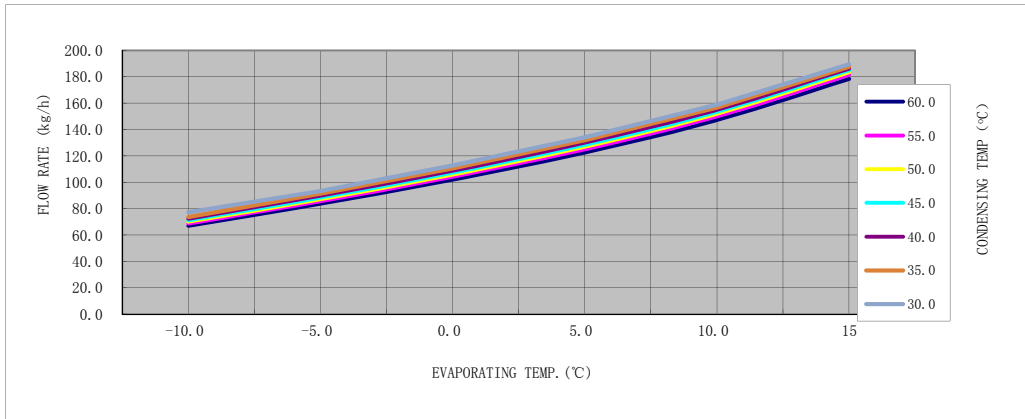
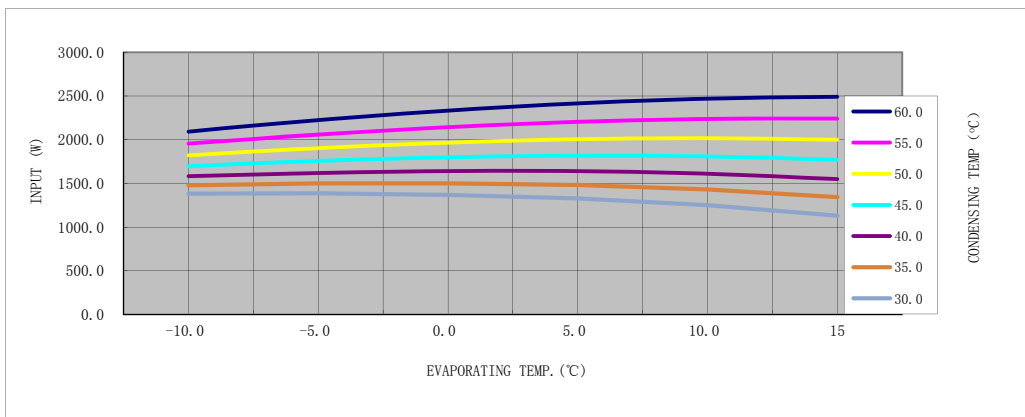
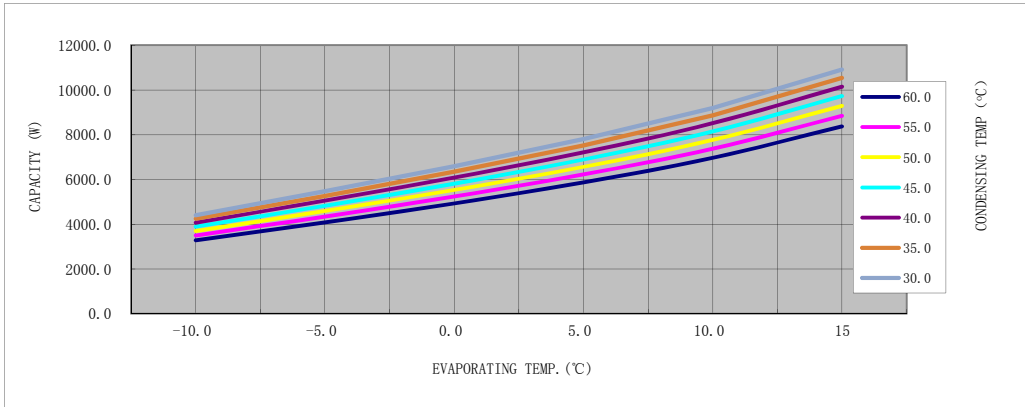
RETURN GAS TEMP. — 35 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

RUNNING CAPACITOR — 60 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
PG400G2C-7FTS	39.78	50	230	60	6816.0	2193.0	136.9	10.05

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	3283.8	4082.2	4931.9	5866.6	6965.1	8368.7
	55.0	3499.7	4343.9	5240.7	6223.3	7373.5	8842.4
	50.0	3700.2	4590.8	5532.9	6561.8	7766.2	9292.8
	45.0	3890.4	4826.8	5814.2	6891.1	8146.3	9728.5
	40.0	4072.0	5054.1	6087.5	7212.9	8514.6	10148.5
	35.0	4242.5	5267.8	6350.0	7518.3	8863.5	10542.8
	30.0	4401.0	5469.9	6596.4	7806.0	9189.7	10911.1

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	2092.7	2224.2	2333.2	2416.3	2469.5	2490.4
	55.0	1954.7	2059.3	2143.1	2204.7	2237.5	2239.6
	50.0	1822.0	1903.4	1965.6	2004.7	2016.8	1998.6
	45.0	1696.5	1756.7	1797.8	1816.2	1808.5	1769.0
	40.0	1581.5	1619.6	1640.7	1639.4	1610.8	1548.1
	35.0	1479.3	1499.6	1501.5	1479.9	1429.6	1342.6
	30.0	1382.4	1386.3	1369.9	1327.9	1252.5	1131.3

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	67.0	83.7	101.9	122.6	147.2	178.4
	55.0	68.7	85.6	104.2	125.1	149.9	181.4
	50.0	70.0	87.1	105.8	126.9	151.9	183.4
	45.0	71.1	88.4	107.2	128.4	153.4	184.9
	40.0	72.3	89.8	108.7	130.0	155.0	186.2
	35.0	73.7	91.3	110.5	131.8	156.7	187.6
	30.0	77.4	93.4	112.8	134.1	158.8	189.5

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	9.63	10.19	10.67	11.04	11.28	11.37
	55.0	8.99	9.44	9.82	10.09	10.24	10.23
	50.0	8.37	8.73	9.01	9.18	9.24	9.13
	45.0	7.79	8.06	8.25	8.33	8.29	8.08
	40.0	7.27	7.44	7.54	7.54	7.39	7.08
	35.0	6.83	6.92	6.93	6.83	6.59	6.16
	30.0	6.43	6.45	6.38	6.18	5.81	5.22

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	7.68831643E+03	8.00237638E+02	1.58981608E+02	4.89229558E+00
P2	2.72021348E+02	-3.04238929E+01	3.42261422E+00	-1.47334297E-01
P3	-2.56647362E+01	1.22808571E+01	-2.88487855E+00	-1.38945108E-02
P4	2.41866839E+00	-5.52816655E-01	4.55904021E-02	-3.06475256E-03
P5	-1.25382939E+00	7.95092562E-01	2.58070067E-02	4.08883963E-03
P6	-4.07447974E-01	2.22813584E-01	5.73772655E-02	2.37957730E-03
P7	1.19962585E-01	-6.66189470E-03	2.01167976E-03	-4.05081341E-05
P8	-6.54664559E-03	1.61677582E-03	1.62037920E-04	1.96420097E-05
P9	-6.77026770E-03	5.30297595E-04	-3.19614142E-04	-3.50642258E-06
P10	1.12649042E-03	-4.31907289E-05	-4.19966457E-04	-9.10356172E-06