

MODEL: PA270G2C-4FT1

R410A 1Φ — 220 V ~ 50 Hz

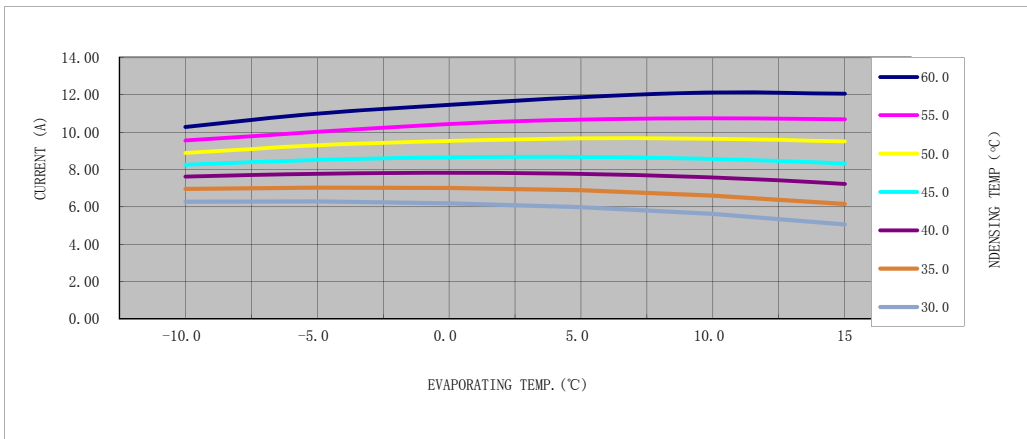
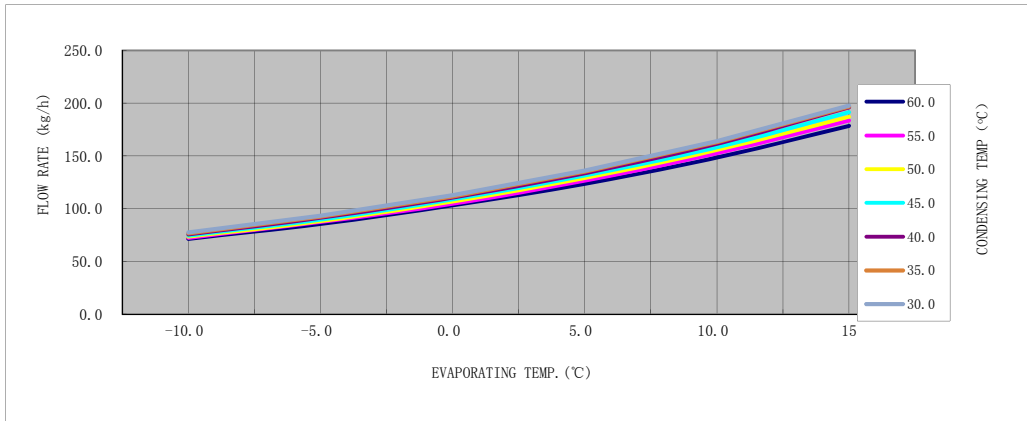
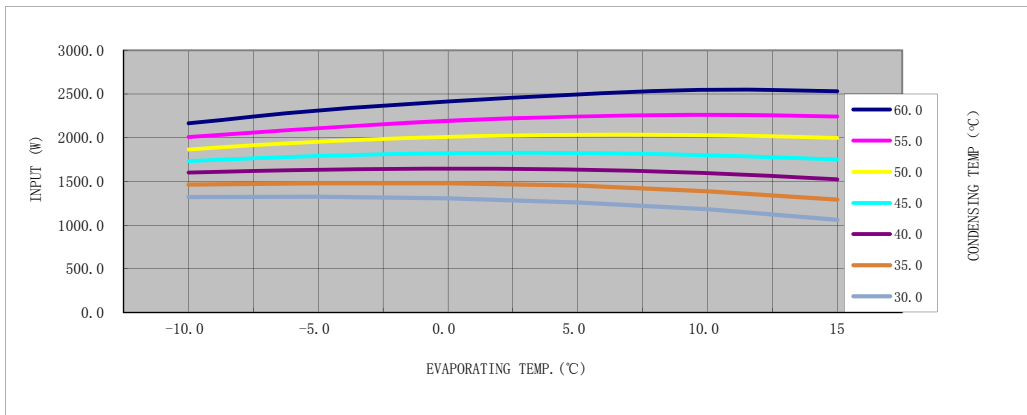
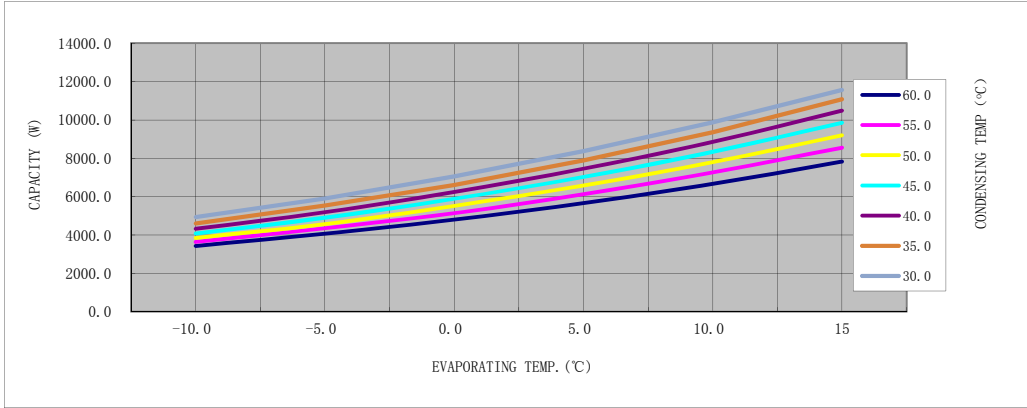
RETURN GAS TEMP. — 35 °C

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
PA270G2C-4FT1	26.9	50	220	60	6665.0	2220.0	137.7	10.55

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	3432.6	4061.1	4802.9	5660.2	6660.4	7825.5
	55.0	3638.2	4352.3	5136.3	6122.6	7261.3	8553.6
	50.0	3848.9	4566.0	5518.6	6582.8	7794.7	9197.3
	45.0	4075.6	4890.1	5889.4	7024.6	8330.6	9852.0
	40.0	4321.8	5185.5	6244.5	7454.6	8853.6	10480.9
	35.0	4603.8	5542.7	6607.6	7886.2	9359.2	11076.2
	30.0	4935.4	5911.2	7053.1	8372.3	9875.9	11568.7

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	2164.2	2311.9	2415.0	2494.3	2548.2	2531.1
	55.0	2007.3	2107.3	2193.9	2241.0	2262.2	2242.8
	50.0	1865.6	1954.9	2009.5	2032.1	2030.5	1995.7
	45.0	1733.0	1791.4	1821.8	1824.9	1799.2	1752.0
	40.0	1601.4	1632.8	1645.4	1633.8	1594.6	1521.9
	35.0	1465.0	1478.8	1477.2	1451.2	1387.0	1292.4
	30.0	1321.3	1323.2	1304.0	1258.7	1181.0	1060.2

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	71.4	85.4	103.1	123.6	148.4	178.5
	55.0	72.3	87.3	104.5	126.5	152.6	183.5
	50.0	73.3	88.1	106.7	128.9	155.5	187.0
	45.0	74.4	89.5	108.7	131.3	158.1	191.4
	40.0	75.5	91.2	110.5	133.5	161.4	196.0
	35.0	76.5	92.4	111.3	135.3	163.2	196.8
	30.0	77.3	93.3	112.6	136.0	164.0	197.6

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	10.28	10.99	11.46	11.86	12.12	12.05
	55.0	9.55	10.02	10.43	10.67	10.74	10.68
	50.0	8.88	9.30	9.53	9.67	9.65	9.51
	45.0	8.25	8.51	8.65	8.67	8.56	8.32
	40.0	7.62	7.77	7.83	7.76	7.58	7.23
	35.0	6.97	7.03	7.01	6.90	6.61	6.16
	30.0	6.28	6.29	6.20	5.98	5.62	5.05

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	1.02422894E+04	-3.07445274E+02	9.25570334E+01	-1.50760392E+00
P2	2.42488453E+02	-1.94615147E+01	3.57871314E+00	-8.34663948E-02
P3	-1.38391702E+02	7.88060534E+01	1.61087355E+00	3.77285435E-01
P4	4.85736590E+00	-3.79144053E-01	9.53364566E-02	-1.80621892E-03
P5	1.51893744E+00	2.09502323E-01	4.11663431E-02	5.76599864E-04
P6	1.30240843E+00	-1.12399904E+00	-3.93688444E-02	-5.39210739E-03
P7	1.79575450E-02	-5.32067764E-03	9.37756999E-04	-2.68435287E-05
P8	-3.61411498E-02	-3.93885065E-03	-3.76795846E-04	-1.70440944E-05
P9	-4.86100768E-02	7.11166439E-03	-6.38833156E-04	3.85176972E-05
P10	-8.51218289E-03	9.44158302E-03	2.56132781E-04	4.51468979E-05