

**MODEL: PA108M1C-4DZDE2**

R410A 1Φ — 220 V ~ 50 Hz

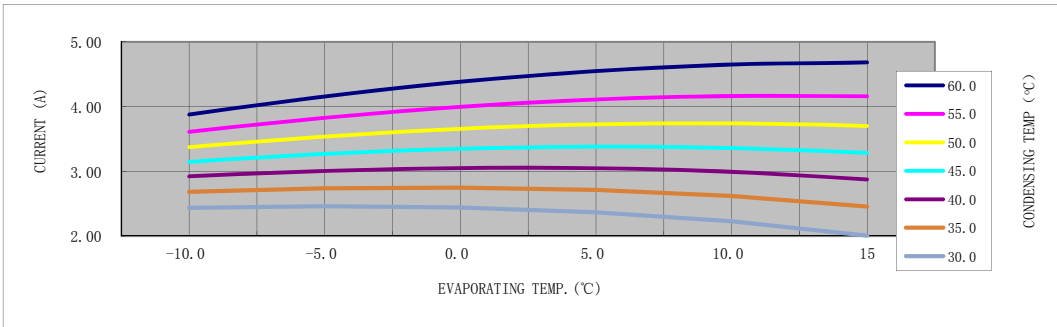
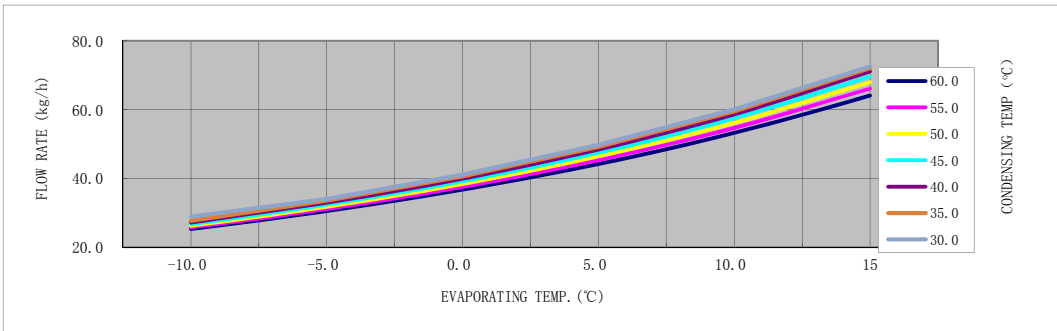
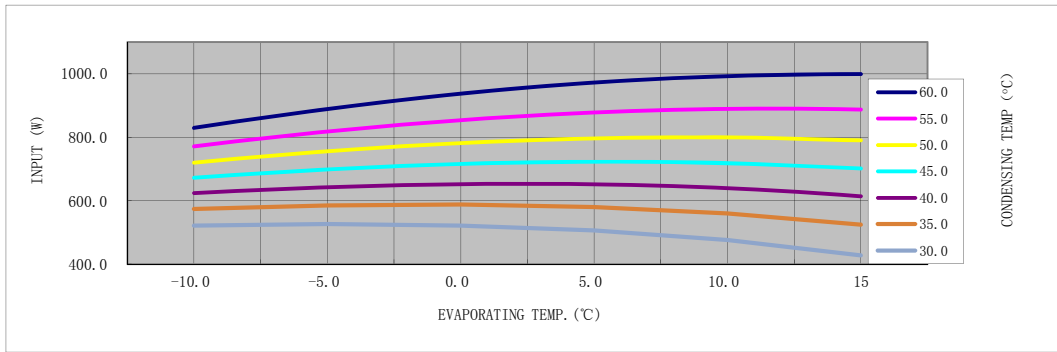
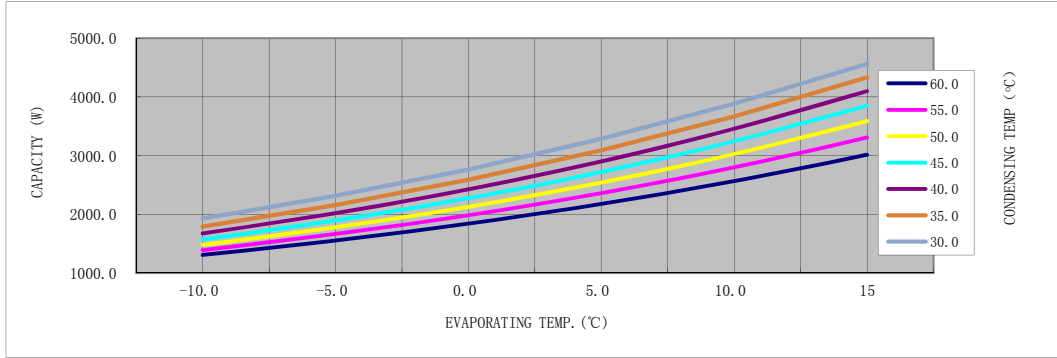
RETURN GAS TEMP. — 35 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

RUNNING CAPACITOR — 25 μF

**PERFORMANCE CURVE**



## 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
PA108M1C-4DZDE2	10.8	50	220	25	2573.0	870.0	51.2	4.07

## 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	1308.2	1553.7	1841.0	2177.0	2565.3	3014.4
	55.0	1393.2	1665.7	1986.2	2362.1	2799.1	3309.3
	50.0	1479.9	1777.9	2129.2	2542.2	3025.3	3588.1
	45.0	1573.3	1893.9	2274.2	2721.8	3244.2	3850.7
	40.0	1675.4	2018.8	2425.4	2902.6	3457.3	4098.5
	35.0	1792.3	2157.1	2587.3	3088.6	3668.7	4334.3
	30.0	1928.8	2314.2	2764.9	3286.4	3883.4	4560.8

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	829.2	889.1	937.1	972.0	992.8	998.8
	55.0	771.1	818.0	854.0	878.1	889.5	887.5
	50.0	719.8	755.7	781.4	796.3	799.4	789.9
	45.0	672.0	698.5	715.7	722.5	718.2	701.2
	40.0	623.9	642.4	651.9	651.6	639.6	613.9
	35.0	573.7	585.3	587.9	580.1	559.9	524.3
	30.0	521.2	526.1	521.8	506.2	476.1	427.9

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	25.3	30.5	36.8	44.2	53.2	64.1
	55.0	25.8	31.1	37.6	45.3	54.7	66.1
	50.0	26.2	31.8	38.4	46.4	56.2	68.0
	45.0	26.7	32.4	39.2	47.5	57.5	69.7
	40.0	27.2	33.0	40.0	48.4	58.6	71.0
	35.0	27.7	33.6	40.6	49.2	59.5	72.1
	30.0	28.9	34.0	41.1	49.7	60.1	72.6

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	3.88	4.16	4.38	4.55	4.65	4.68
	55.0	3.61	3.83	4.00	4.11	4.16	4.16
	50.0	3.37	3.54	3.66	3.73	3.74	3.70
	45.0	3.15	3.27	3.35	3.38	3.36	3.28
	40.0	2.92	3.01	3.05	3.05	2.99	2.87
	35.0	2.69	2.74	2.75	2.71	2.62	2.46
	30.0	2.44	2.46	2.44	2.37	2.23	2.01

## 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	Input Power	Flow Rate	Current
P1	4.21416909E+03	-2.06195453E+02	4.01771995E+01	-8.99792517E-01
P2	9.74931924E+01	-9.19764910E+00	1.21346400E+00	-3.93996504E-02
P3	-6.61505692E+01	3.82927120E+01	1.86498115E-01	1.74258050E-01
P4	1.95923696E+00	-2.08171769E-01	3.90858844E-02	-9.36366211E-04
P5	5.23471429E-01	1.83258163E-01	1.90913265E-02	6.71071426E-04
P6	7.32395919E-01	-6.17808390E-01	-6.29070305E-03	-2.77201814E-03
P7	9.53439154E-03	-1.98730158E-03	3.93650794E-04	-8.04232804E-06
P8	-1.52959184E-02	-3.60204066E-04	-2.23979592E-04	-2.29591842E-06
P9	-1.87774150E-02	1.76462585E-03	-2.80544218E-04	1.03945579E-05
P10	-4.84444445E-03	4.94444444E-03	3.70370378E-05	2.22222222E-05