

MODEL: PA170M2C-4ET2

R410A 1Φ — 220 V ~ 50 Hz

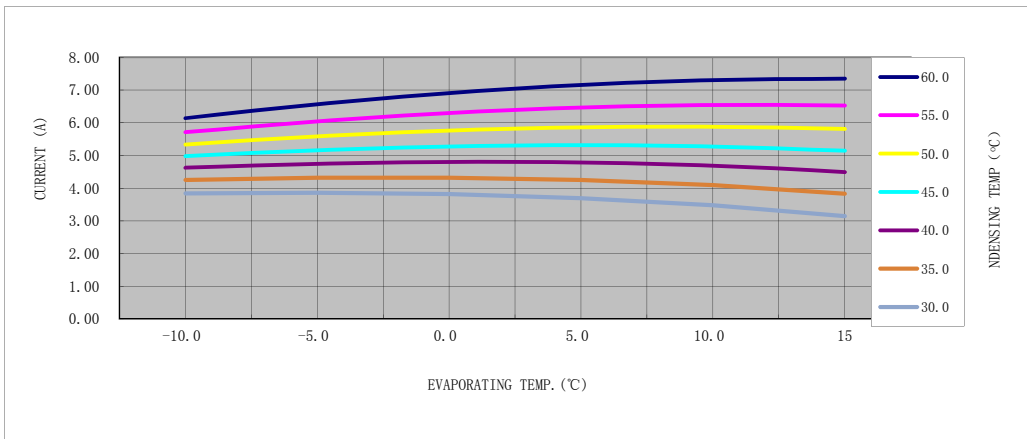
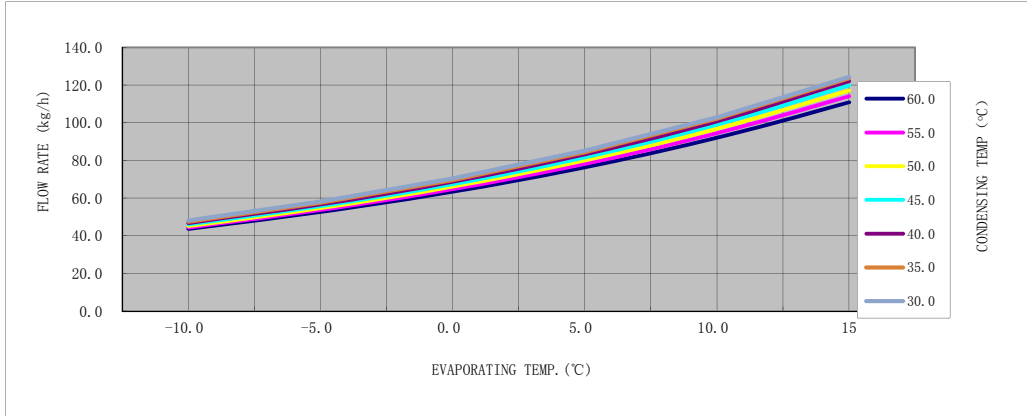
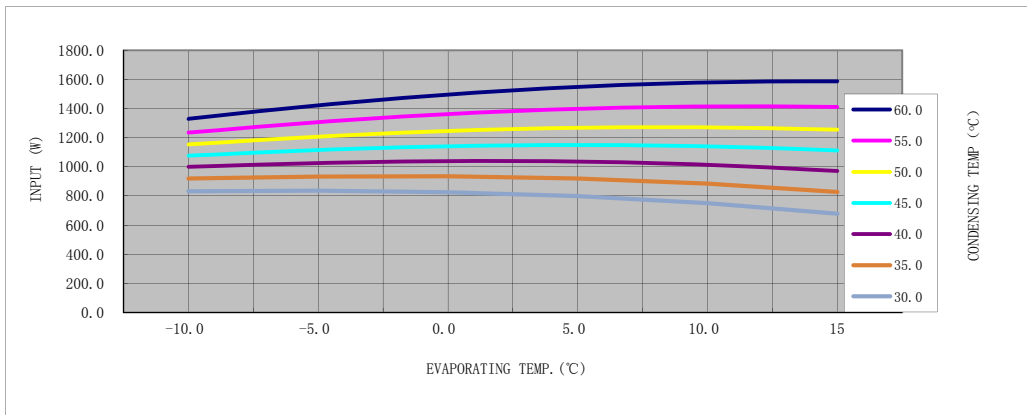
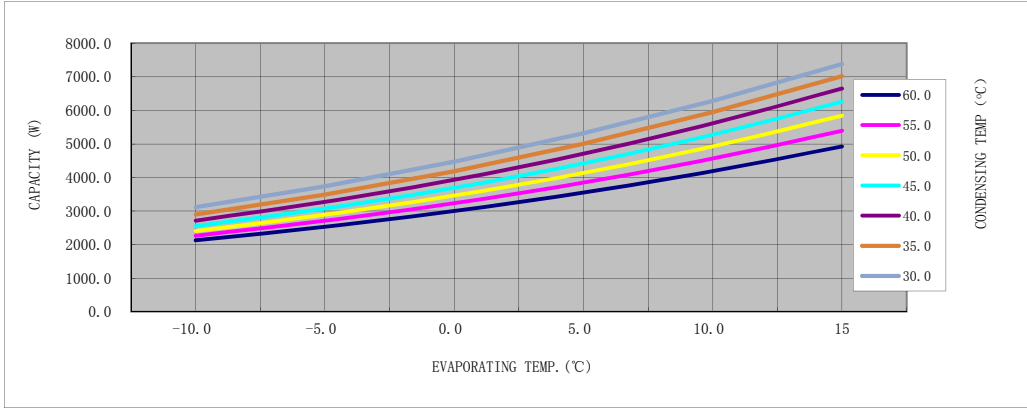
RETURN GAS TEMP. — 35 °C

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
PA170M2C-4ET2	17.1	50	220	35	4190.0	1385.0	85.2	6.40

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	2128.5	2529.1	2999.1	3547.7	4186.6	4923.1
	55.0	2264.3	2708.5	3231.4	3845.0	4563.4	5394.5
	50.0	2402.9	2888.0	3460.1	4135.4	4925.3	5839.4
	45.0	2552.5	3073.1	3690.3	4421.1	5273.5	6257.0
	40.0	2714.5	3270.6	3928.9	4708.4	5611.6	6649.4
	35.0	2899.7	3489.7	4185.7	5004.0	5946.2	7021.5
	30.0	3117.0	3739.3	4468.0	5317.7	6285.8	7379.0

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	1329.1	1422.3	1495.9	1548.8	1579.7	1587.6
	55.0	1235.1	1307.5	1362.3	1398.6	1414.8	1410.4
	50.0	1152.8	1207.5	1246.4	1268.2	1271.5	1255.1
	45.0	1076.1	1116.1	1141.0	1150.1	1141.2	1112.1
	40.0	999.4	1026.2	1038.6	1035.6	1014.2	971.6
	35.0	918.9	933.9	934.7	919.6	885.0	827.7
	30.0	831.8	835.9	826.0	798.6	751.4	678.7

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	43.7	52.6	63.4	76.4	92.0	110.8
	55.0	44.4	53.6	64.7	78.2	94.5	114.1
	50.0	45.1	54.6	66.1	80.0	96.8	117.2
	45.0	46.0	55.6	67.4	81.7	99.0	119.9
	40.0	46.7	56.6	68.6	83.2	100.8	122.1
	35.0	47.5	57.5	69.6	84.4	102.1	123.6
	30.0	48.2	58.2	70.4	85.2	102.9	124.3

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	6.14	6.57	6.91	7.16	7.31	7.35
	55.0	5.71	6.04	6.30	6.47	6.54	6.53
	50.0	5.33	5.58	5.76	5.86	5.88	5.81
	45.0	4.98	5.16	5.27	5.32	5.28	5.15
	40.0	4.62	4.74	4.80	4.79	4.69	4.49
	35.0	4.25	4.32	4.32	4.25	4.09	3.83
	30.0	3.84	3.86	3.82	3.69	3.48	3.14

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	6.79029353E+03	-3.62274530E+02	6.27142244E+01	-1.62003722E+00
P2	1.56725774E+02	-1.45610253E+01	2.29600185E+00	-6.27629418E-02
P3	-1.06771840E+02	6.25609937E+01	6.95196834E-01	2.84646955E-01
P4	3.15735838E+00	-2.86450389E-01	6.09259550E-02	-1.32543032E-03
P5	9.09111287E-01	2.62511411E-01	2.41721970E-02	1.00005574E-03
P6	1.21359545E+00	-1.00761435E+00	-1.81452745E-02	-4.53951271E-03
P7	1.27066680E-02	-2.73275303E-03	6.58257301E-04	-1.28781112E-05
P8	-2.36300349E-02	-1.41925882E-03	-2.51091446E-04	-5.68748441E-06
P9	-3.07191813E-02	3.14896370E-03	-3.90749227E-04	1.69538651E-05
P10	-8.16763994E-03	8.00549800E-03	1.11997041E-04	3.60223716E-05