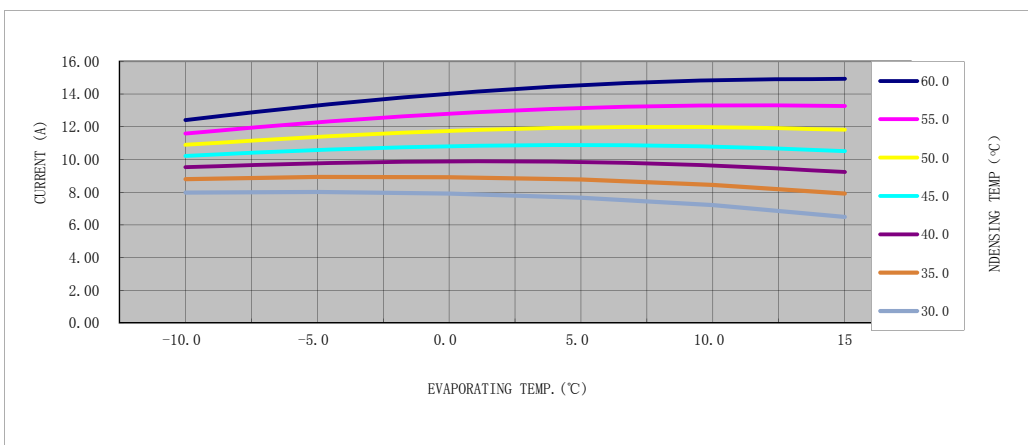
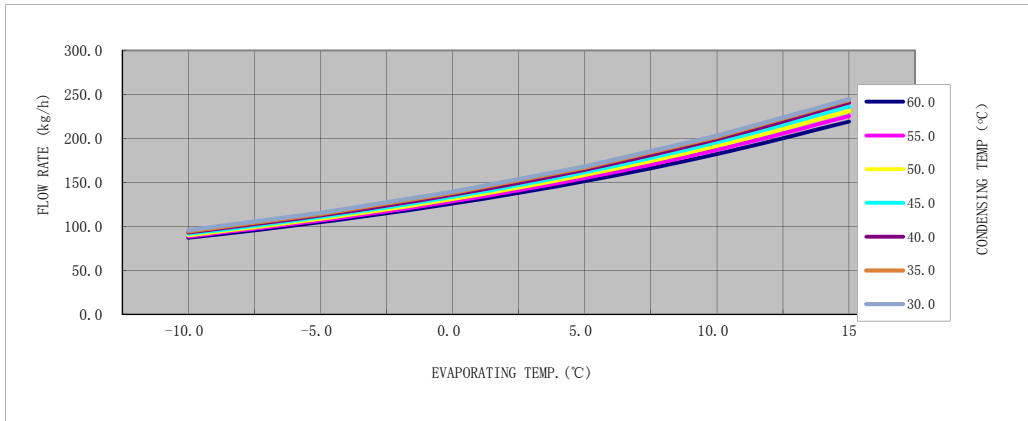
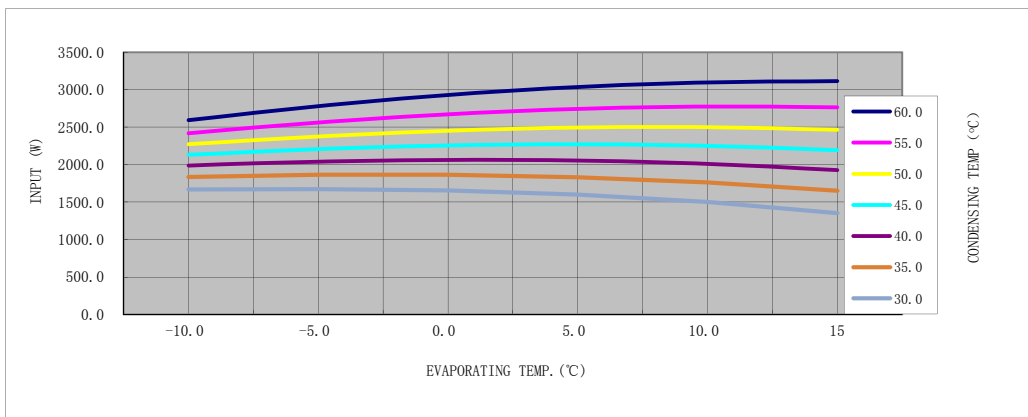
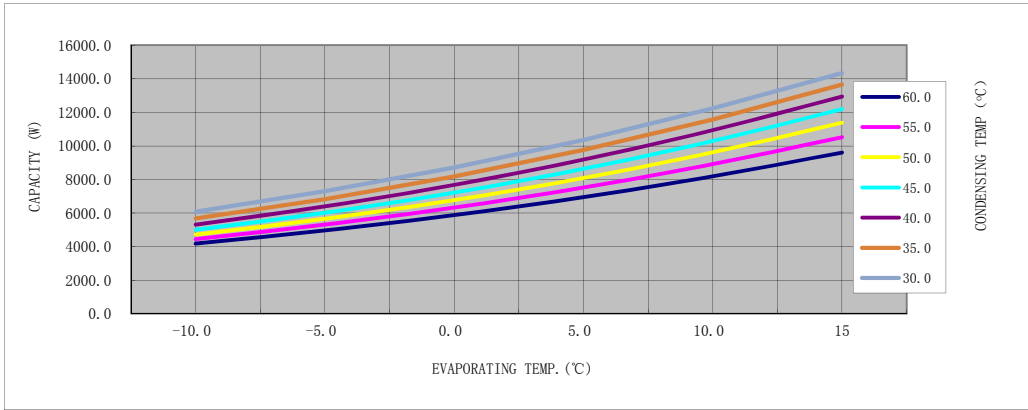


**MODEL: PA331X3CS-4MU1**

R410A 1Φ — 220 V ~ 50 Hz  
 RETURN GAS TEMP. — 35 °C  
 SUBCOOLING — 8.3 °C  
 AMBIENT TEMP. — 35 °C  
 RUNNING CAPACITOR — 55 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
PA331X3CS-4MU1	32.6	50	220	55	8190.0	2715.0	169.0	13.00

## 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	4178.3	4960.2	5874.0	6941.2	8180.2	9606.3
	55.0	4444.2	5308.2	6325.0	7518.5	8914.0	10520.8
	50.0	4713.8	5655.7	6768.5	8081.8	9613.5	11382.3
	45.0	5002.0	6013.0	7215.8	8634.5	10284.8	12188.9
	40.0	5315.6	6394.6	7679.7	9187.8	10935.8	12943.6
	35.0	5671.1	6815.8	8175.5	9757.9	11579.7	13654.5
	30.0	6089.0	7298.0	8720.7	10361.8	12233.8	14341.8

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	2593.3	2781.6	2929.3	3036.6	3098.3	3113.9
	55.0	2418.8	2562.5	2672.3	2744.0	2776.6	2766.6
	50.0	2271.3	2377.5	2452.2	2494.7	2499.5	2466.0
	45.0	2131.4	2208.0	2256.0	2271.8	2252.4	2194.1
	40.0	1988.6	2039.4	2061.8	2053.9	2010.5	1926.1
	35.0	1836.8	1863.5	1863.5	1832.1	1764.2	1650.0
	30.0	1667.6	1674.7	1654.2	1599.8	1504.2	1353.0

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	86.8	104.5	125.7	151.3	182.0	219.0
	55.0	88.2	106.4	128.3	154.8	186.8	225.4
	50.0	89.6	108.3	130.9	158.3	191.3	231.3
	45.0	91.2	110.2	133.4	161.5	195.4	236.4
	40.0	92.7	112.0	135.7	164.3	198.9	240.6
	35.0	94.1	113.7	137.7	166.6	201.4	243.4
	30.0	95.5	115.0	139.1	168.1	202.9	244.7

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	12.41	13.31	14.02	14.54	14.85	14.94
	55.0	11.59	12.27	12.80	13.14	13.31	13.27
	50.0	10.89	11.39	11.75	11.95	11.98	11.82
	45.0	10.22	10.58	10.81	10.88	10.79	10.52
	40.0	9.53	9.77	9.87	9.84	9.63	9.23
	35.0	8.80	8.92	8.92	8.77	8.45	7.91
	30.0	7.98	8.02	7.92	7.66	7.21	6.49

## 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	1.32127580E+04	-8.59718545E+02	1.24659607E+02	-4.01362325E+00
P2	3.02154724E+02	-2.70268327E+01	4.43667693E+00	-1.19945891E-01
P3	-2.07592240E+02	1.36718389E+02	1.29705464E+00	6.45980318E-01
P4	5.98303757E+00	-5.56890151E-01	1.18790936E-01	-2.65684213E-03
P5	1.85063154E+00	4.07489444E-01	5.06064880E-02	1.50528144E-03
P6	2.39226353E+00	-2.31223614E+00	-3.36261573E-02	-1.08409096E-02
P7	2.27515591E-02	-5.85467973E-03	1.24046354E-03	-2.86356379E-05
P8	-4.35451916E-02	-3.00786608E-03	-4.81671970E-04	-1.29419106E-05
P9	-6.03525577E-02	7.71152894E-03	-7.94009817E-04	4.19597335E-05
P10	-1.62790082E-02	1.80740617E-02	2.04180417E-04	8.46065952E-05