

MODEL: YA331X3CS-9MU

R410A 3Φ — 380 V ~ 50 Hz

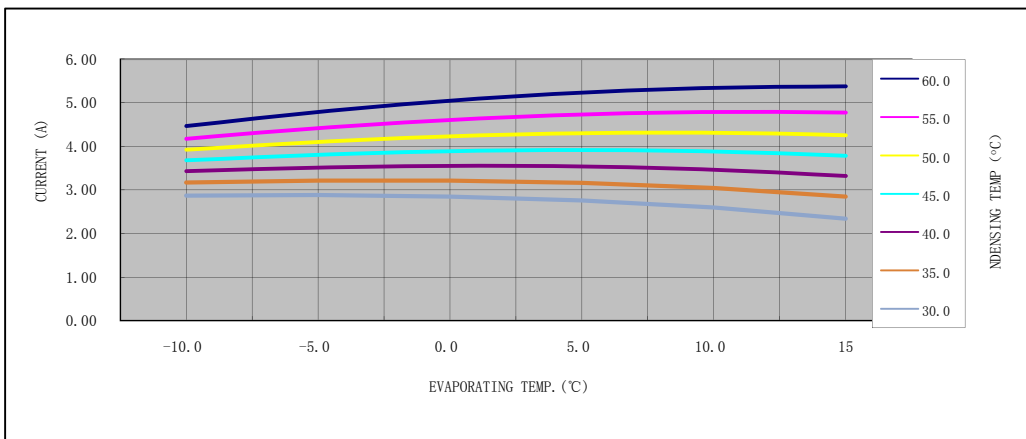
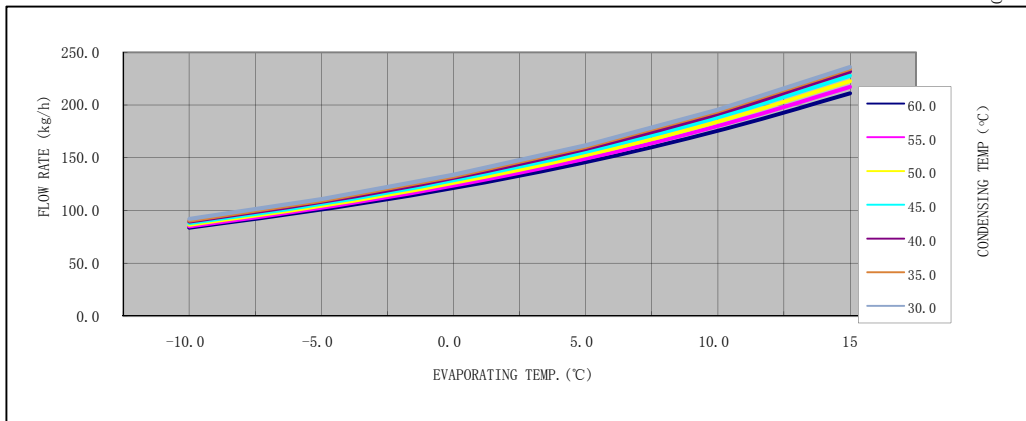
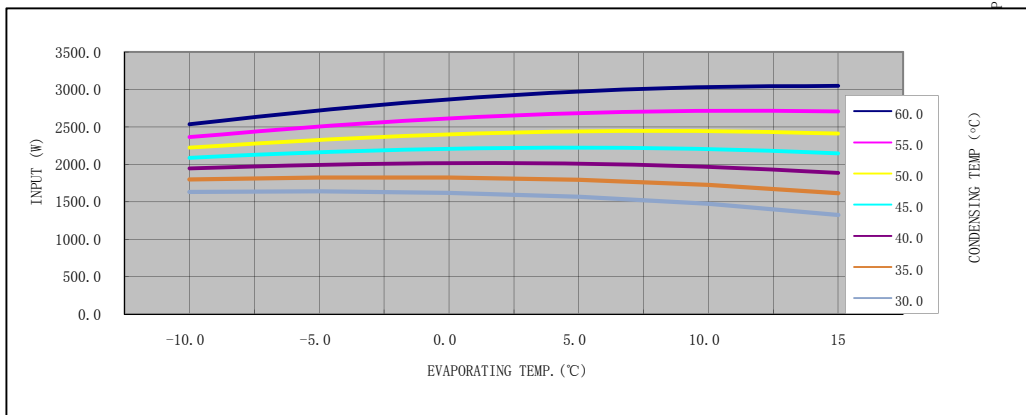
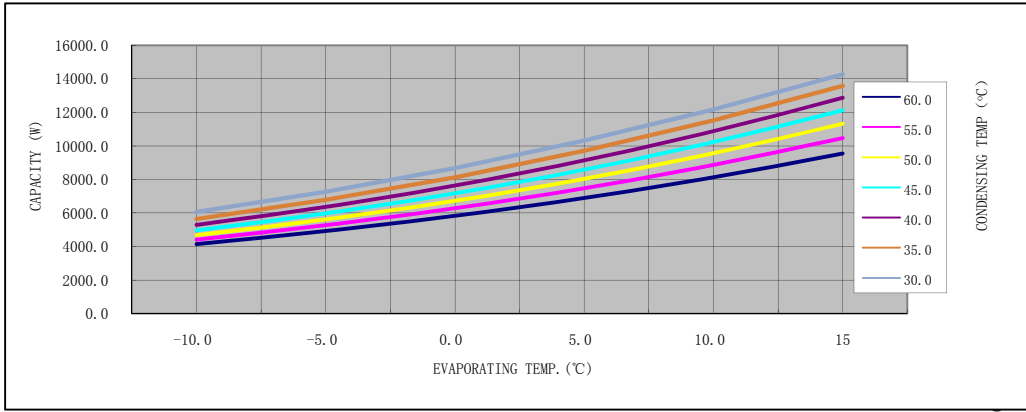
RETURN GAS TEMP. — 35 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

RUNNING CAPACITOR — 0 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
YA331X3CS-9MU	33.1	50	380	0	8146.9	2655.2	162.8	4.68

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	4156.3	4934.1	5843.0	6904.6	8137.2	9555.8
	55.0	4420.8	5280.3	6291.7	7478.9	8867.1	10465.5
	50.0	4689.0	5625.9	6732.9	8039.2	9562.9	11322.4
	45.0	4975.7	5981.3	7177.8	8589.1	10230.7	12124.8
	40.0	5287.6	6361.0	7639.3	9139.5	10878.2	12875.5
	35.0	5641.2	6779.9	8132.4	9706.6	11518.8	13582.6
	30.0	6056.9	7259.6	8674.8	10307.2	12169.4	14266.3

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	2536.1	2720.4	2864.7	2969.7	3030.1	3045.3
	55.0	2365.5	2506.1	2613.5	2683.6	2715.5	2705.7
	50.0	2221.3	2325.1	2398.2	2439.8	2444.4	2411.7
	45.0	2084.4	2159.4	2206.3	2221.8	2202.7	2145.8
	40.0	1944.8	1994.4	2016.4	2008.7	1966.2	1883.7
	35.0	1796.3	1822.5	1822.5	1791.8	1725.4	1613.7
	30.0	1630.9	1637.9	1617.7	1564.6	1471.0	1323.2

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	83.6	100.7	121.1	145.7	175.3	211.0
	55.0	84.9	102.5	123.6	149.1	180.0	217.1
	50.0	86.3	104.3	126.1	152.5	184.3	222.8
	45.0	87.8	106.2	128.5	155.6	188.3	227.8
	40.0	89.3	107.9	130.7	158.3	191.6	231.8
	35.0	90.6	109.5	132.6	160.5	194.0	234.5
	30.0	92.0	110.8	134.0	161.9	195.4	235.7

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	4.47	4.79	5.05	5.24	5.35	5.38
	55.0	4.17	4.42	4.61	4.73	4.79	4.78
	50.0	3.92	4.10	4.23	4.30	4.31	4.26
	45.0	3.68	3.81	3.89	3.92	3.88	3.79
	40.0	3.43	3.52	3.55	3.54	3.47	3.32
	35.0	3.17	3.21	3.21	3.16	3.04	2.85
	30.0	2.87	2.89	2.85	2.76	2.60	2.34

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	1.31432256E+04	-8.40782571E+02	1.20086296E+02	-1.44490437E+00
P2	3.00564630E+02	-2.64315455E+01	4.27391127E+00	-4.31805207E-02
P3	-2.06499783E+02	1.33707059E+02	1.24947038E+00	2.32552914E-01
P4	5.95155175E+00	-5.44624210E-01	1.14432925E-01	-9.56463167E-04
P5	1.84089256E+00	3.98514170E-01	4.87499186E-02	5.41901320E-04
P6	2.37967421E+00	-2.26130733E+00	-3.23925350E-02	-3.90272746E-03
P7	2.26318287E-02	-5.72572582E-03	1.19495541E-03	-1.03088296E-05
P8	-4.33160344E-02	-2.94161548E-03	-4.64001164E-04	-4.65908780E-06
P9	-6.00349515E-02	7.54167648E-03	-7.64880462E-04	1.51055041E-05
P10	-1.61933397E-02	1.76759663E-02	1.96689775E-04	3.04583743E-05