

**MODEL: KSG280V1VMU**

R32 1Φ — 220 V ~ 50 Hz

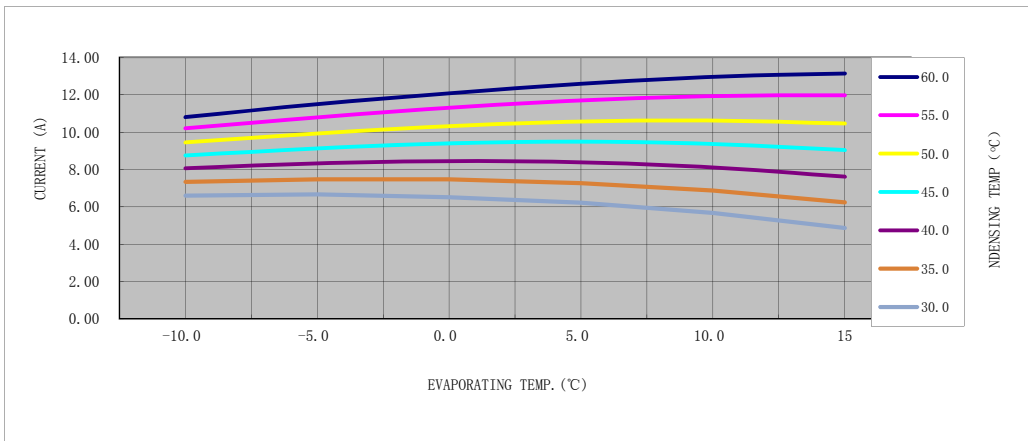
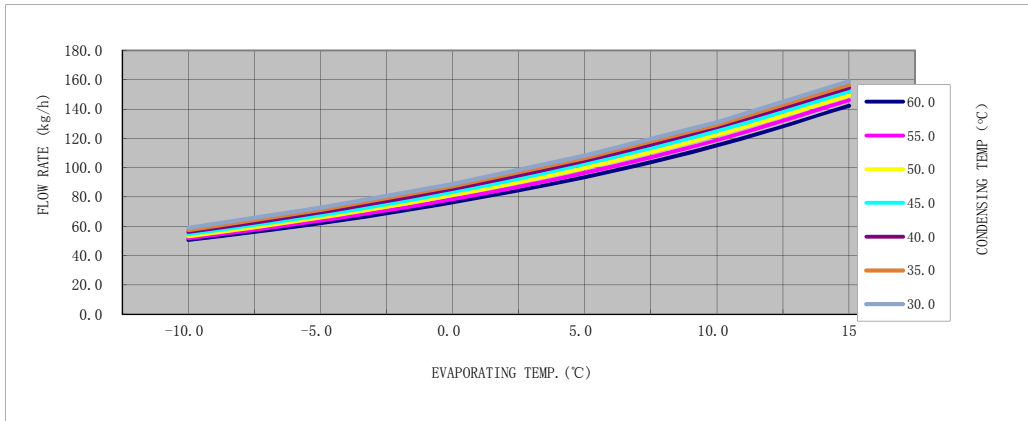
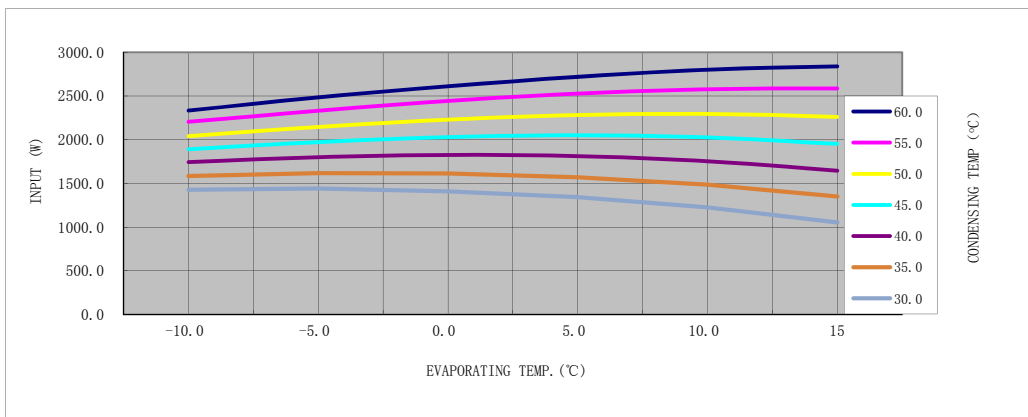
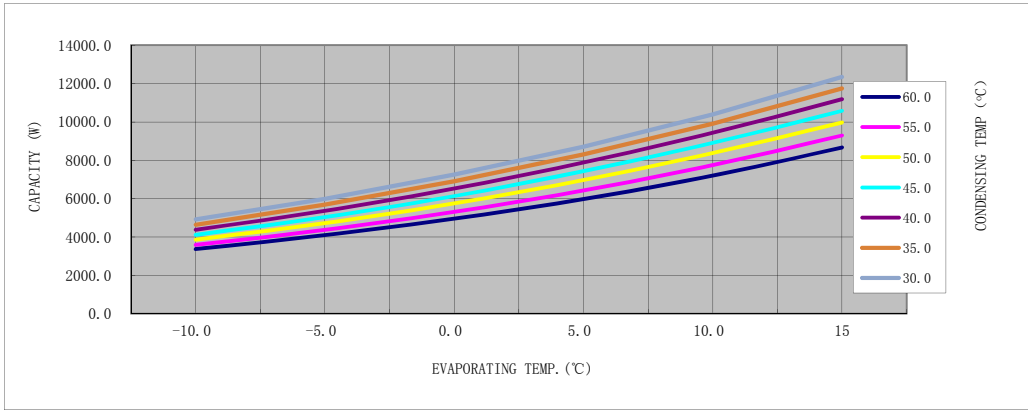
RETURN GAS TEMP. — 18.3 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

RUNNING CAPACITOR — 65 μF

**PERFORMANCE CURVE (ARI)**



## 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
KSG280V1VMU	27.85	50	220	65	7105.0	2501.4	106.6	11.58

## 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	3371.3	4091.2	4954.2	5975.5	7195.5	8666.5
	55.0	3585.4	4367.9	5311.5	6419.8	7744.4	9290.9
	50.0	3855.5	4725.1	5753.4	6967.5	8375.6	9972.1
	45.0	4110.5	5036.1	6130.1	7441.4	8904.1	10578.8
	40.0	4378.1	5360.9	6527.0	7890.9	9430.2	11183.1
	35.0	4642.1	5683.1	6897.8	8307.5	9906.2	11753.4
	30.0	4911.2	5992.6	7257.0	8714.9	10387.4	12343.0

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	2333.1	2484.6	2609.9	2718.8	2799.9	2838.9
	55.0	2204.7	2330.5	2443.9	2527.4	2577.6	2586.5
	50.0	2040.8	2145.2	2230.4	2281.8	2295.9	2259.8
	45.0	1891.2	1972.1	2030.4	2050.4	2024.9	1952.1
	40.0	1743.6	1800.3	1825.3	1811.2	1753.1	1645.0
	35.0	1585.2	1615.9	1614.2	1570.9	1486.1	1348.9
	30.0	1427.8	1439.8	1408.7	1343.4	1226.2	1051.6

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	50.5	62.1	76.2	93.6	115.1	142.2
	55.0	51.7	63.7	78.5	96.5	118.8	146.1
	50.0	53.1	65.8	81.1	99.9	122.4	149.2
	45.0	54.5	67.5	83.2	102.6	124.9	151.9
	40.0	56.0	69.3	85.4	104.8	127.5	154.5
	35.0	57.4	71.0	87.2	106.5	129.2	156.6
	30.0	58.9	72.5	88.8	108.1	131.1	158.9

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	10.80	11.50	12.08	12.58	12.96	13.14
	55.0	10.20	10.78	11.31	11.70	11.93	11.97
	50.0	9.44	9.93	10.32	10.56	10.62	10.46
	45.0	8.75	9.13	9.40	9.49	9.37	9.03
	40.0	8.07	8.33	8.45	8.38	8.11	7.61
	35.0	7.34	7.48	7.47	7.27	6.88	6.24
	30.0	6.61	6.66	6.52	6.22	5.67	4.87

## 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	8.57461292E+03	8.12214275E+02	9.44875881E+01	3.75874549E+00
P2	3.11120343E+02	-4.25794499E+01	3.26681173E+00	-1.97048144E-01
P3	-1.12296901E+01	-5.70132581E+00	-4.30928151E-02	-2.63844571E-02
P4	4.38595312E+00	-1.23255406E+00	5.17988488E-02	-5.70398372E-03
P5	-5.54774978E-01	1.08998678E+00	1.97477658E-02	5.04421432E-03
P6	-1.35373316E+00	1.12294178E+00	-5.11940293E-03	5.19672270E-03
P7	2.45235680E-02	-9.64181227E-03	8.63361543E-04	-4.46201446E-05
P8	-1.58036242E-02	1.25053960E-02	2.85676675E-04	5.78721679E-05
P9	-2.45053902E-02	5.52660704E-04	-3.57307095E-04	2.55758978E-06
P10	8.85813341E-03	-8.77959484E-03	1.19438200E-05	-4.06299957E-05