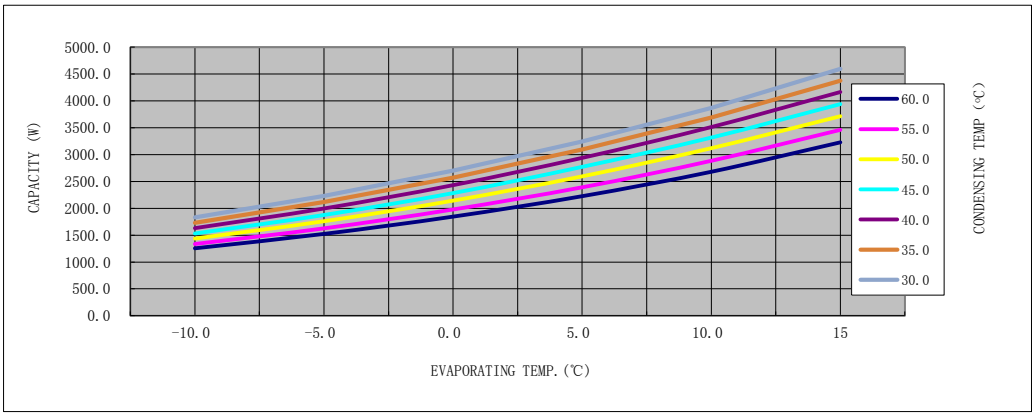
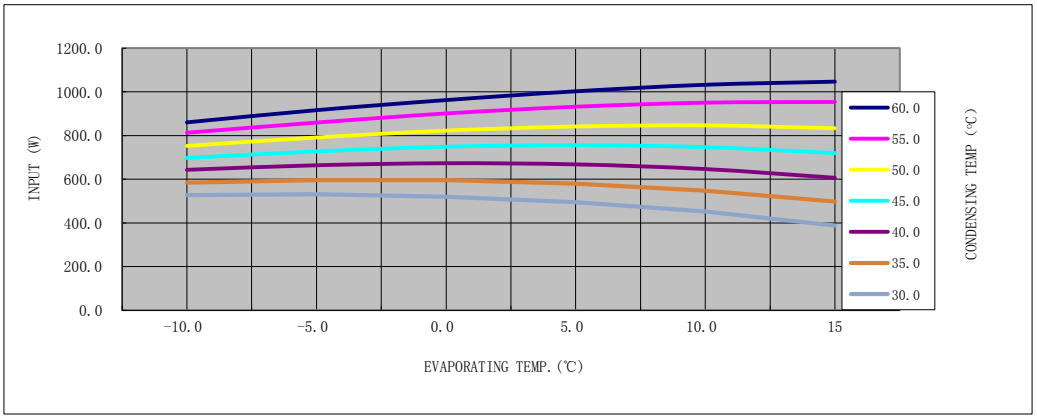
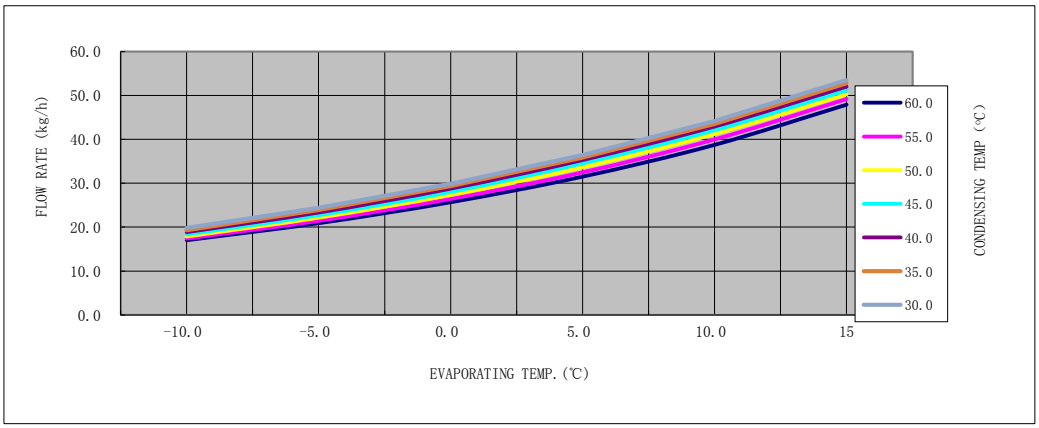
MODEL： KSM106V1VFT

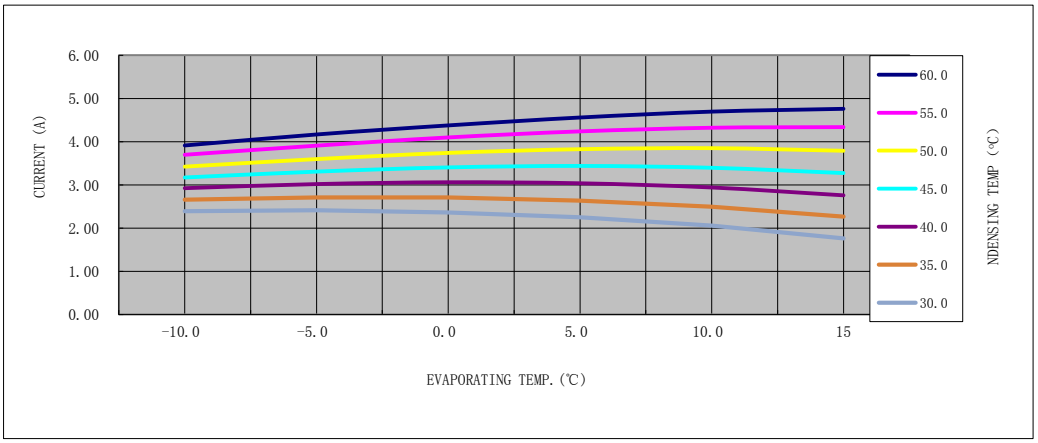
R32 1Φ — 220 V ～ 50 Hz	
RETURN GAS TEMP. ———	18.3 ℃
SUBCOOLING ———	8.3 ℃
AMBIENT TEMP. ———	35 ℃
RUNNING CAPACITOR ———	25 uF

PERFORMANCE CURVE(ARI)









1、Rated condition data

Model	Displacement	Frequency	Power supply	Running capacitor	Capacity	Input power	Flow rate
	cc	Hz	V	uF	W	W	kg/h
KSM106V1VFT	10.6	50	220	25	2646.5	922.6	35.9

2、Data under different condition

Capacity(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	1255.7	1523.9	1845.3	2225.8	2680.2	3228.1
	55.0	1335.5	1627.0	1978.4	2391.3	2884.7	3460.7
	50.0	1436.1	1760.0	2143.0	2595.3	3119.8	3714.4
	45.0	1531.1	1875.9	2283.4	2771.8	3316.6	3940.4
	40.0	1630.8	1996.8	2431.2	2939.2	3512.6	4165.5
	35.0	1729.1	2116.9	2569.3	3094.4	3689.9	4377.9
	30.0	1829.4	2232.1	2703.1	3246.1	3869.1	4597.6

Input Power(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	860.5	916.4	962.6	1002.8	1032.7	1047.1
	55.0	813.2	859.6	901.4	932.2	950.7	954.0
	50.0	752.7	791.2	822.7	841.6	846.8	833.5
	45.0	697.5	727.4	748.9	756.3	746.9	720.0
	40.0	643.1	664.0	673.2	668.0	646.6	606.8
	35.0	584.7	596.0	595.4	579.4	548.1	497.5
	30.0	526.6	531.0	519.6	495.5	452.3	387.9

Flow Rate(kg/h)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	17.0	20.9	25.7	31.5	38.8	47.9
	55.0	17.4	21.4	26.4	32.5	40.0	49.2
	50.0	17.9	22.2	27.3	33.6	41.2	50.3
	45.0	18.4	22.7	28.0	34.5	42.1	51.2
	40.0	18.9	23.3	28.8	35.3	42.9	52.0
	35.0	19.3	23.9	29.4	35.9	43.5	52.8
	30.0	19.8	24.4	29.9	36.4	44.1	53.5

Current(A)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	3.91	4.17	4.38	4.56	4.70	4.76
	55.0	3.70	3.91	4.10	4.24	4.32	4.34
	50.0	3.42	3.60	3.74	3.83	3.85	3.79
	45.0	3.17	3.31	3.41	3.44	3.40	3.27
	40.0	2.92	3.02	3.06	3.04	2.94	2.76
	35.0	2.66	2.71	2.71	2.64	2.49	2.26
	30.0	2.40	2.42	2.36	2.25	2.06	1.76

3、Ten coefficient method

z=p1+p2*x+p3*y+p4*x^2+p5*x*y+P6*y^2+p7*x^3+p8*x^2*y+P9*x*y^2+P10*y^3

x——Evaporating Temp.(℃)； y——Condensing Temp.(℃)

	Capacity(W)	Input Power(W)	Flow Rate(kg/h)	Current(A)
P1	3.19389410E+03	2.99573013E+02	3.18242077E+01	1.36254524E+00
P2	1.15886914E+02	-1.57047893E+01	1.10028944E+00	-7.14299521E-02
P3	-4.18286413E+00	-2.10284823E+00	-1.45140195E-02	-9.56436569E-03
P4	1.63369122E+00	-4.54609015E-01	1.74462843E-02	-2.06769410E-03
P5	-2.06644026E-01	4.02025219E-01	6.65121221E-03	1.82852769E-03
P6	-5.04242046E-01	4.14180178E-01	-1.72425760E-03	1.88381198E-03
P7	9.13460233E-03	-3.55623736E-03	2.90787368E-04	-1.61748024E-05
P8	-5.88657503E-03	4.61242713E-03	9.62182866E-05	2.09786609E-05
P9	-9.12783144E-03	2.03840584E-04	-1.20344009E-04	9.27126296E-07
P10	3.29950055E-03	-3.23822144E-03	4.02277819E-06	-1.47283734E-05

Current
A
4. 20