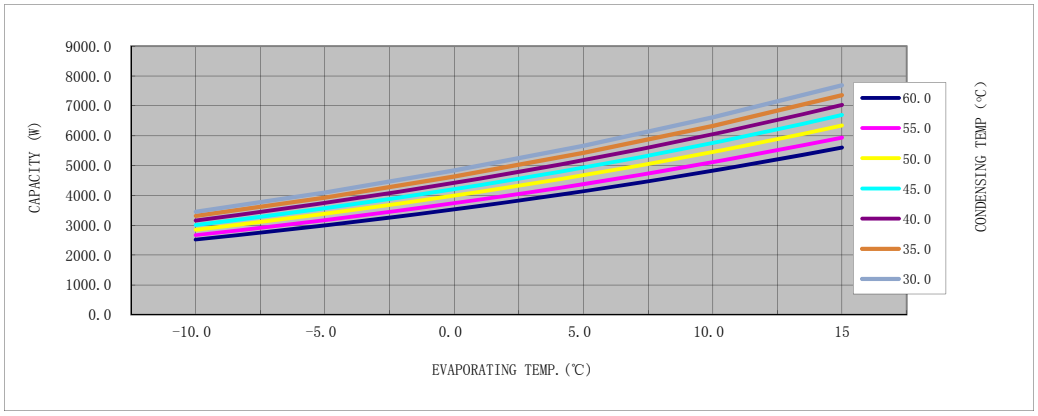
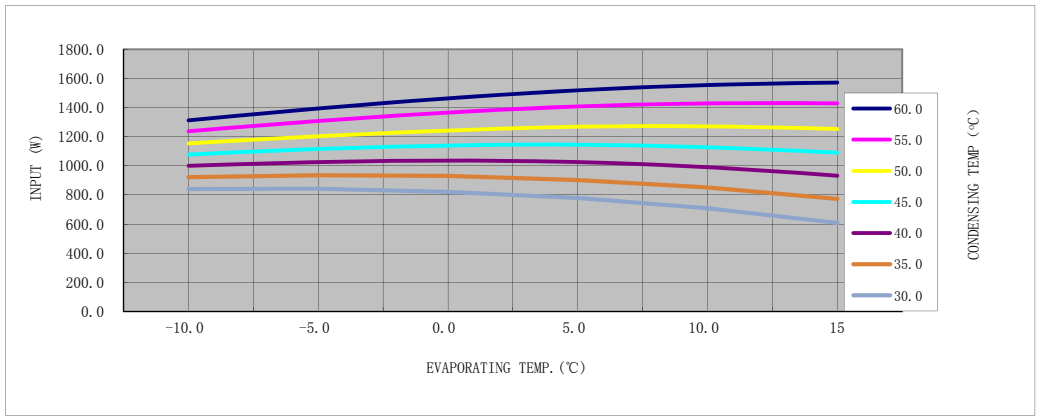
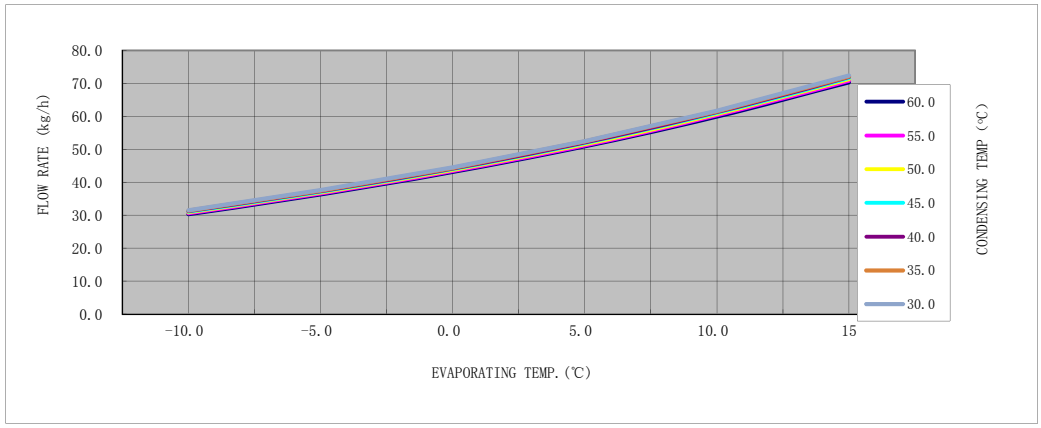
MODEL： DSG320S1UFT

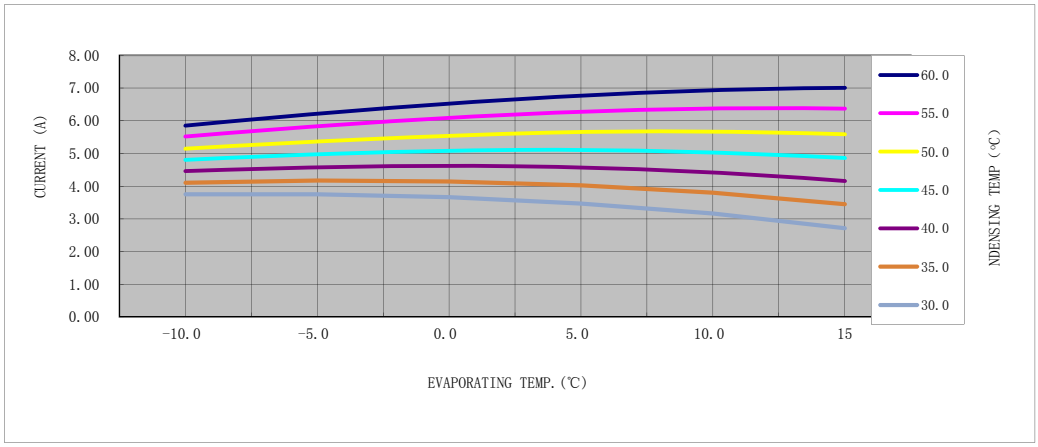
R290 1Φ	— 230 V ～	50	Hz
RETURN GAS TEMP.	———	35	℃
SUBCOOLING	———————	8.3	℃
AMBIENT TEMP.	———————	35	℃
RUNNING CAPACITOR	———	55	uF

PERFORMANCE CURVE(ASHRE)









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
DSG320S1UFT	31.8	50	230	55	4755.0	1390.0	55.1	6.20

2、Data under different condition

Capacity(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	2518.0	2994.7	3532.8	4137.5	4825.6	5604.8
	55.0	2668.4	3171.6	3740.5	4381.0	5111.0	5940.1
	50.0	2849.0	3384.5	3990.6	4674.0	5454.9	6343.5
	45.0	3006.4	3569.2	4207.4	4932.6	5755.1	6695.0
	40.0	3159.0	3748.9	4421.3	5182.6	6046.8	7033.3
	35.0	3308.7	3926.6	4628.6	5426.9	6333.0	7361.8
	30.0	3455.4	4098.3	4831.7	5666.0	6612.9	7689.9

Input Power(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	1311.7	1393.6	1462.7	1517.6	1554.8	1571.3
	55.0	1237.1	1308.0	1365.5	1407.1	1429.5	1428.7
	50.0	1153.0	1203.5	1242.4	1267.6	1272.3	1251.9
	45.0	1076.9	1115.6	1138.9	1144.3	1128.1	1089.6
	40.0	999.6	1026.0	1035.6	1024.8	991.4	932.0
	35.0	921.2	935.7	929.8	903.0	851.6	772.1
	30.0	841.4	841.8	821.9	778.5	708.6	608.6

Flow Rate(kg/h)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	30.3	36.3	43.1	50.9	59.9	70.3
	55.0	30.6	36.5	43.4	51.2	60.3	70.8
	50.0	30.8	36.8	43.7	51.6	60.7	71.2
	45.0	31.1	37.1	43.9	51.9	61.0	71.6
	40.0	31.2	37.2	44.2	52.1	61.3	71.9
	35.0	31.4	37.4	44.4	52.4	61.5	72.1
	30.0	31.5	37.6	44.5	52.5	61.7	72.4

Current(A)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	5.85	6.22	6.52	6.77	6.93	7.01
	55.0	5.52	5.83	6.09	6.28	6.38	6.37
	50.0	5.14	5.37	5.54	5.65	5.68	5.58
	45.0	4.80	4.98	5.08	5.10	5.03	4.86
	40.0	4.46	4.58	4.62	4.57	4.42	4.16
	35.0	4.11	4.17	4.15	4.03	3.80	3.44
	30.0	3.75	3.75	3.67	3.47	3.16	2.71

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	5.52545701E+03	2.94227983E+02	4.50785883E+01	1.31238381E+00
P2	1.90843582E+02	-2.58600880E+01	1.47494989E+00	-1.15347155E-01
P3	-4.69154689E+00	1.35335481E+01	-1.20418815E-02	6.03654664E-02
P4	2.68934648E+00	-6.36503886E-01	2.15706927E-02	-2.83908208E-03
P5	-1.01946926E+00	6.59476943E-01	9.74710546E-04	2.94155183E-03
P6	-7.60470856E-01	1.72878772E-01	-7.46668264E-05	7.71113949E-04
P7	1.70041091E-02	-4.25784333E-03	2.56685180E-04	-1.89918192E-05
P8	-2.15113093E-02	5.91364022E-03	-1.77629416E-05	2.63773880E-05
P9	-4.55086819E-03	-2.69474691E-04	-2.26094599E-05	-1.20197344E-06
P10	4.72393499E-03	-1.22398730E-03	-4.83153240E-06	-5.45951169E-06