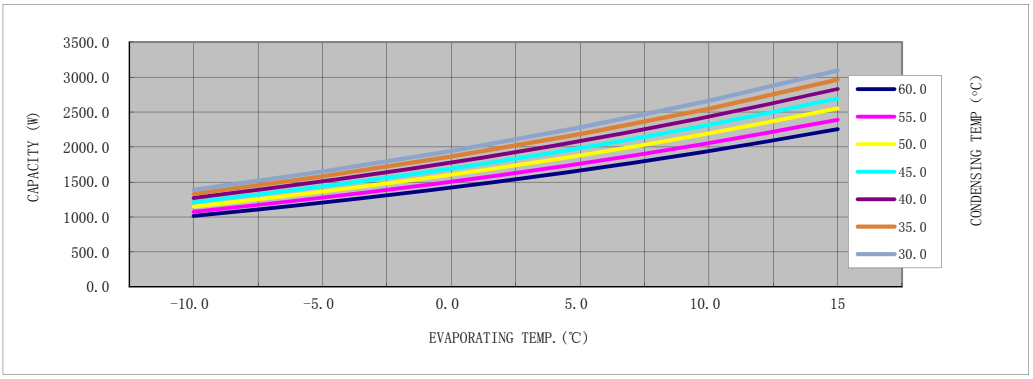
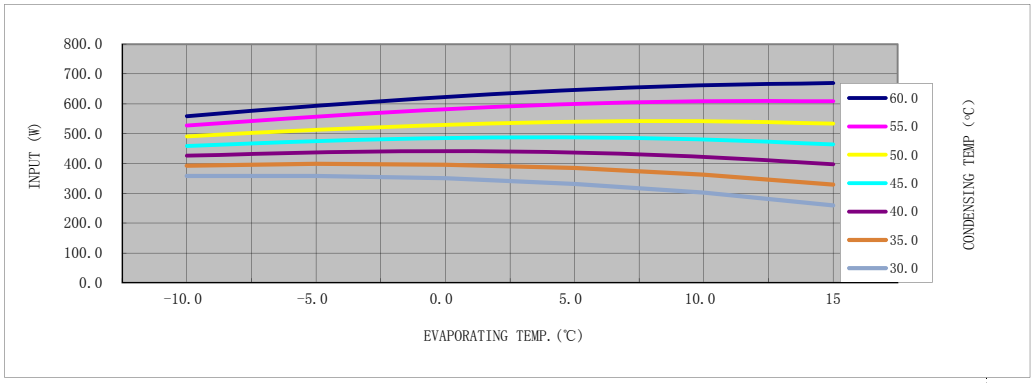
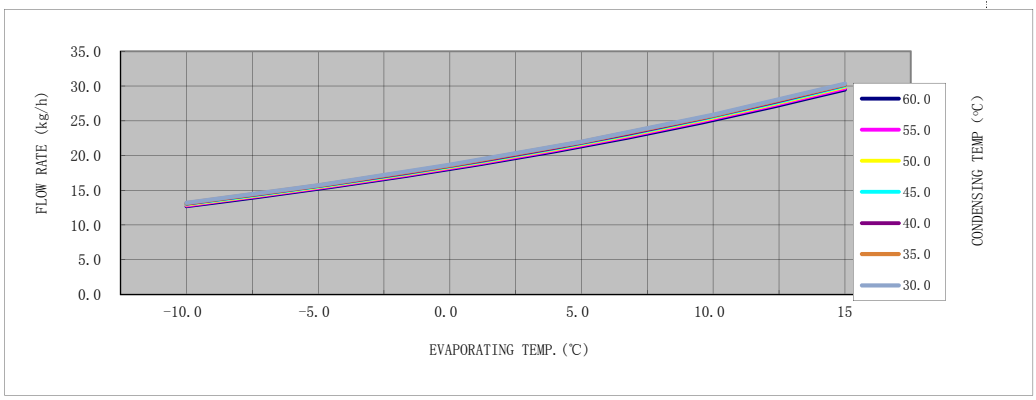
MODEL： DSM135V11VDZ

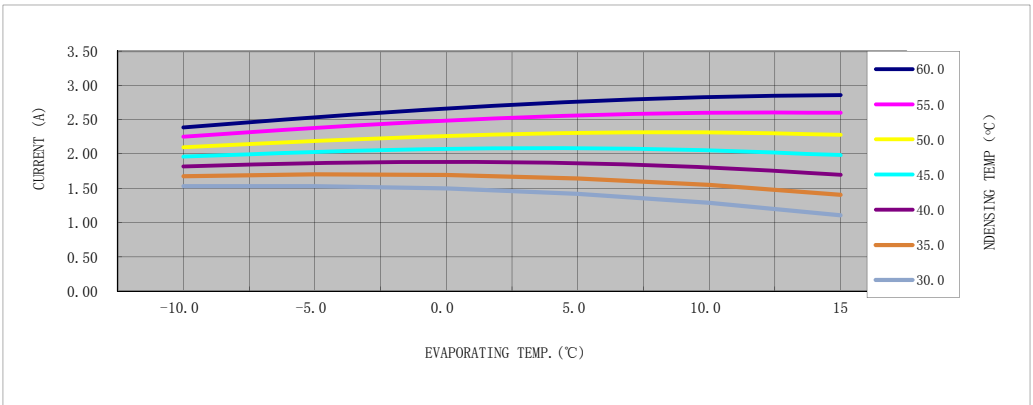
R290 1Φ — 240 V ～	50	Hz
RETURN GAS TEMP. ———	35	℃
SUBCOOLING———————	8.3	℃
AMBIENT TEMP. ———————	35	℃
RUNNING CAPACITOR———	20	uF

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
DSM135V11VDZ	13.3	50	240	20	1912.6	592.1	23.1	2.53

2、Data under different condition

Capacity(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	1012.8	1204.5	1421.0	1664.2	1941.0	2254.4
	55.0	1073.3	1275.7	1504.5	1762.2	2055.8	2389.3
	50.0	1145.9	1361.3	1605.1	1880.0	2194.1	2551.5
	45.0	1209.3	1435.6	1692.3	1984.1	2314.9	2692.9
	40.0	1270.6	1507.9	1778.4	2084.6	2432.2	2829.0
	35.0	1330.8	1579.4	1861.7	2182.9	2547.3	2961.1
	30.0	1389.9	1648.4	1943.5	2279.0	2659.9	3093.1

Input Power(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	558.7	593.6	623.1	646.5	662.3	669.3
	55.0	527.0	557.2	581.7	599.4	608.9	608.6
	50.0	491.1	512.6	529.2	540.0	542.0	533.3
	45.0	458.7	475.2	485.2	487.4	480.6	464.2
	40.0	425.8	437.0	441.1	436.5	422.3	397.0
	35.0	392.4	398.6	396.1	384.6	362.8	328.9
	30.0	358.4	358.6	350.1	331.6	301.9	259.2

Flow Rate(kg/h)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	12.7	15.2	18.1	21.3	25.1	29.5
	55.0	12.8	15.3	18.2	21.5	25.3	29.7
	50.0	12.9	15.4	18.3	21.6	25.4	29.9
	45.0	13.0	15.5	18.4	21.8	25.6	30.0
	40.0	13.1	15.6	18.5	21.8	25.7	30.1
	35.0	13.2	15.7	18.6	22.0	25.8	30.2
	30.0	13.2	15.8	18.7	22.0	25.9	30.3

Current(A)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	2.39	2.54	2.66	2.76	2.83	2.86
	55.0	2.25	2.38	2.49	2.56	2.60	2.60
	50.0	2.10	2.19	2.26	2.31	2.32	2.28
	45.0	1.96	2.03	2.07	2.08	2.05	1.98
	40.0	1.82	1.87	1.88	1.87	1.80	1.70
	35.0	1.68	1.70	1.69	1.64	1.55	1.41
	30.0	1.53	1.53	1.50	1.42	1.29	1.11

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	2.22250033E+03	1.25332654E+02	1.88986459E+01	5.35537264E-01
P2	7.67628673E+01	-1.10156533E+01	6.18354674E-01	-4.70690810E-02
P3	-1.88707731E+00	5.76490204E+00	-5.04841131E-03	2.46330048E-02
P4	1.08173377E+00	-2.71132339E-01	9.04324866E-03	-1.15852865E-03
P5	-4.10060337E-01	2.80918200E-01	4.08635456E-04	1.20034293E-03
P6	-3.05883609E-01	7.36413821E-02	-3.13031522E-05	3.14664240E-04
P7	6.83954977E-03	-1.81371873E-03	1.07612117E-04	-7.74988751E-06
P8	-8.65247742E-03	2.51904056E-03	-7.44689566E-06	1.07636761E-05
P9	-1.83049222E-03	-1.14788464E-04	-9.47873910E-06	-4.90482711E-07
P10	1.90010474E-03	-5.21383367E-04	-2.02556077E-06	-2.22783300E-06