

MODEL: ATQ420D1UMU

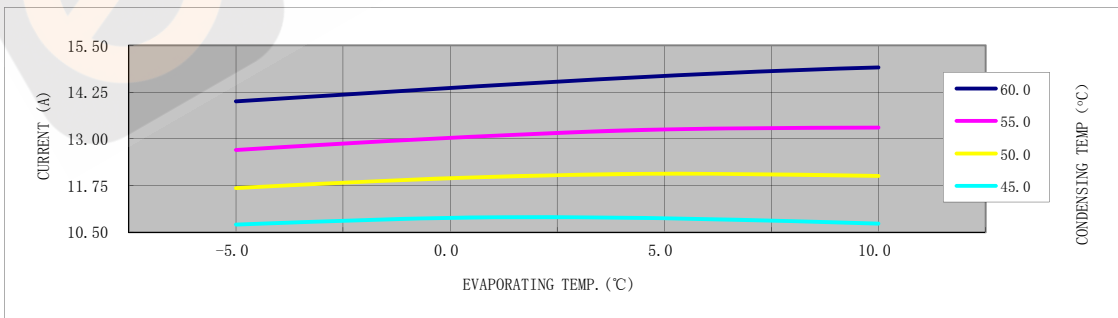
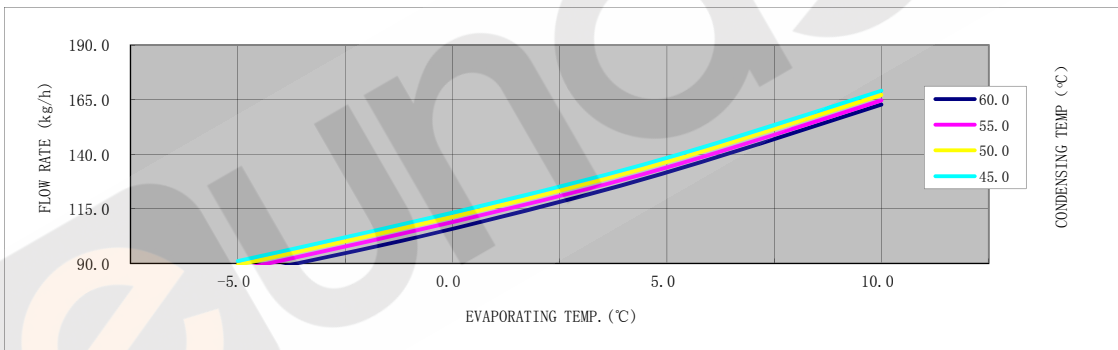
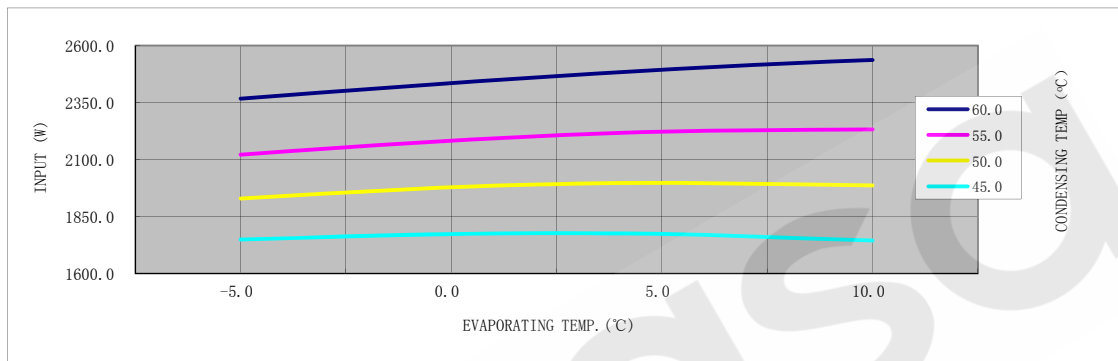
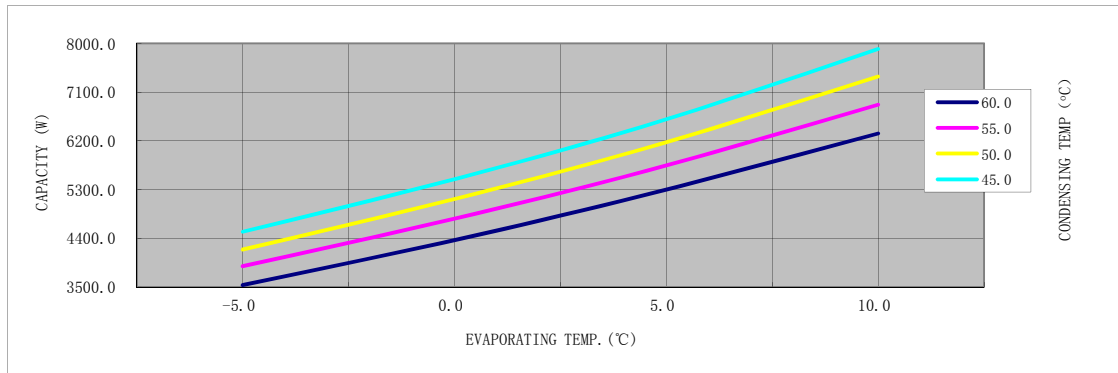
R410A DC — 380 V ~ 30 Hz

RETURN GAS TEMP. — 18 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

PERFORMANCE CURVE



1、 Rated condition data

Model	Displacement	Frequency	Power supply	Capacity	Input power	Flow rate	Current
	cc	Hz	V	W	W	kg/h	A
ATQ420D1UMU	42	30	380	6266.0	2194.0	147.9	13.09

2、 Data under different condition

Capacity(W)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	3535.7	4366.1	5300.0	6338.0
	55.0	3885.4	4762.1	5745.7	6870.1
	50.0	4192.5	5124.5	6176.2	7389.4
	45.0	4521.0	5492.5	6599.2	7898.8

Input Power(W) (with converter)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	2368.0	2435.4	2495.2	2536.9
	55.0	2121.9	2183.3	2222.7	2232.8
	50.0	1929.2	1978.3	1997.7	1986.2
	45.0	1748.6	1773.3	1773.5	1744.3

Flow Rate(kg/h)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	84.0	105.8	131.7	162.8
	55.0	86.9	108.9	133.9	164.7
	50.0	89.3	111.2	136.4	167.1
	45.0	91.1	113.2	138.3	169.1

Current(A) (with converter)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	14.00	14.36	14.69	14.91
	55.0	12.70	13.03	13.25	13.30
	50.0	11.68	11.95	12.06	12.00
	45.0	10.71	10.88	10.87	10.73

MODEL: ATQ420D1UMU

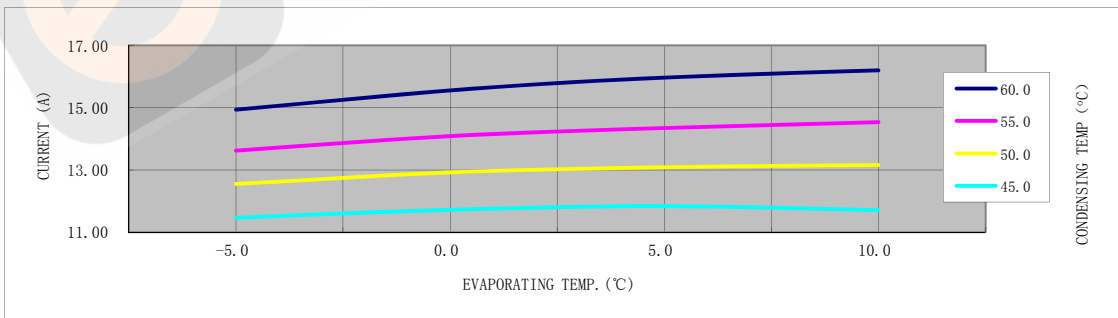
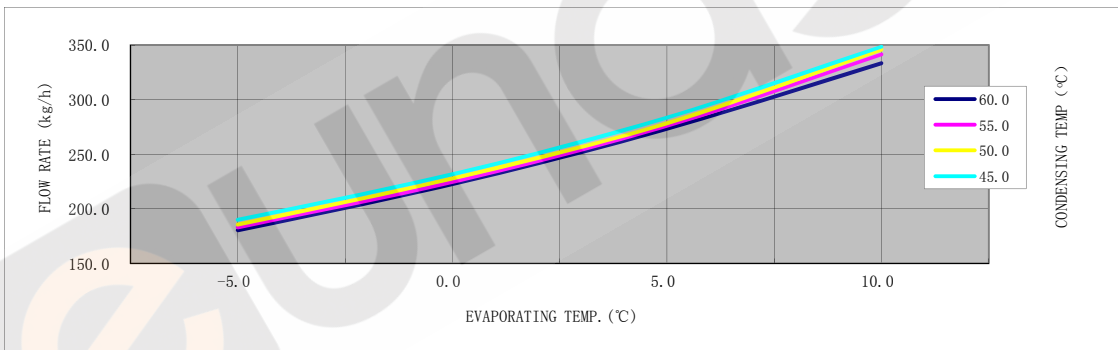
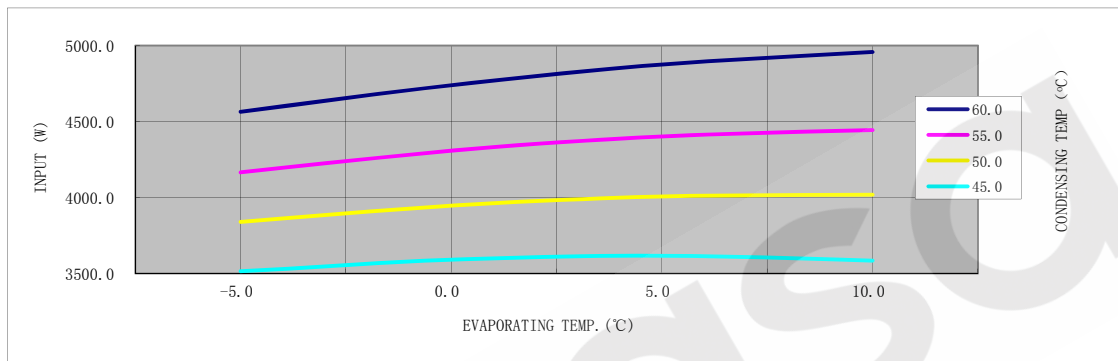
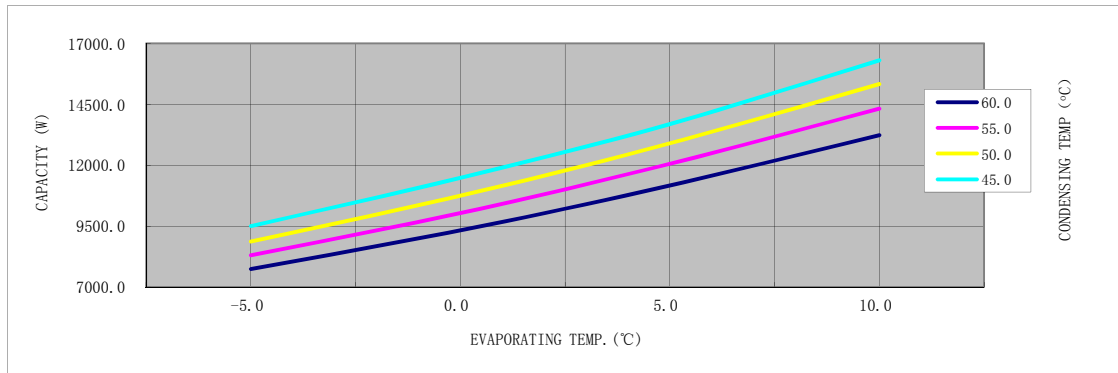
R410A DC — 380 V ~ 60 Hz

RETURN GAS TEMP. — 18 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

PERFORMANCE CURVE



1、 Rated condition data

Model	Displacement	Frequency	Power supply	Capacity	Input power	Flow rate	Current
	cc	Hz	V	W	W	kg/h	A
ATQ420D1UMU	42	60	380	13132.0	4364.0	295.8	14.29

2、 Data under different condition

Capacity(W)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	7738.3	9326.9	11167.1	13237.3
	55.0	8301.3	10037.9	12058.2	14322.4
	50.0	8869.2	10750.3	12900.2	15334.9
	45.0	9502.4	11481.7	13690.6	16309.2

Input Power(W) (with converter)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	4564.8	4739.9	4876.1	4958.3
	55.0	4165.4	4308.5	4402.2	4444.8
	50.0	3839.5	3946.3	4007.3	4018.4
	45.0	3514.5	3590.6	3616.8	3585.1

Flow Rate(kg/h)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	180.2	222.5	273.2	333.3
	55.0	182.9	224.5	276.0	341.5
	50.0	185.5	227.7	278.3	345.9
	45.0	189.8	231.6	283.5	348.4

Current(A) (with converter)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	14.93	15.55	15.97	16.20
	55.0	13.62	14.09	14.35	14.53
	50.0	12.55	12.92	13.09	13.16
	45.0	11.46	11.72	11.84	11.70

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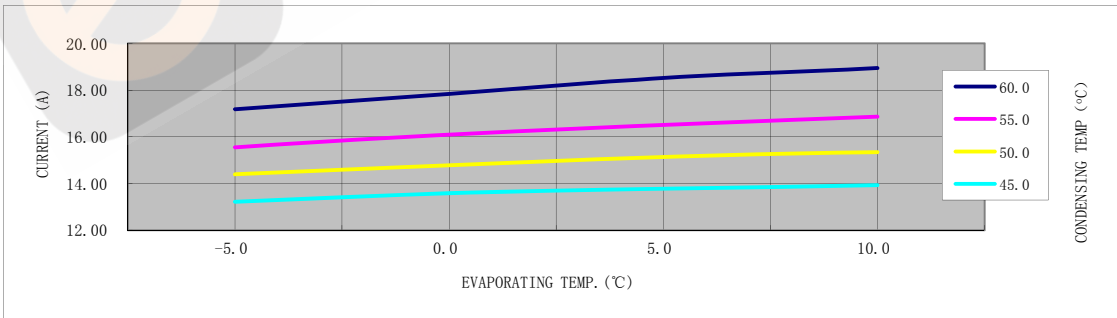
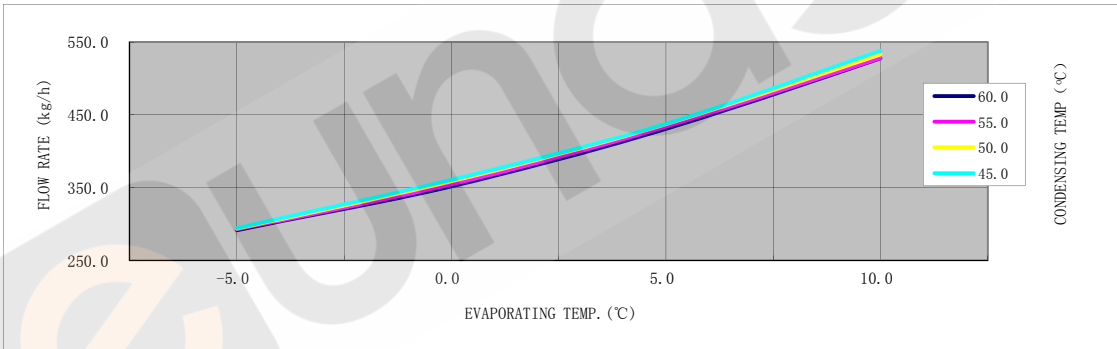
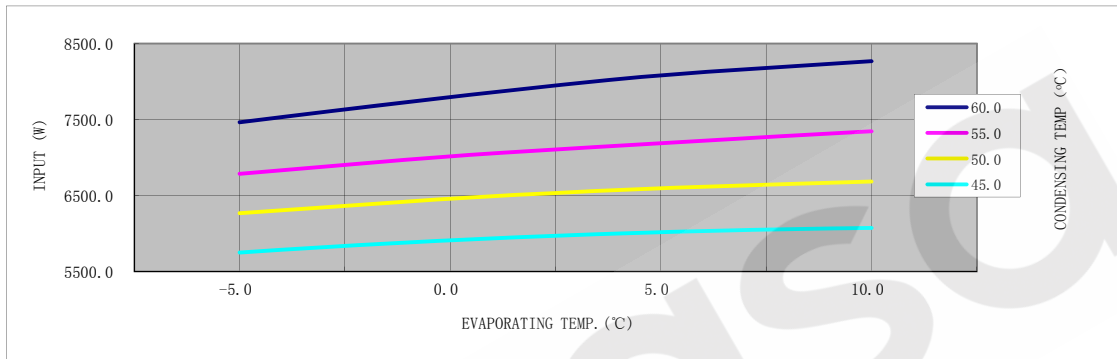
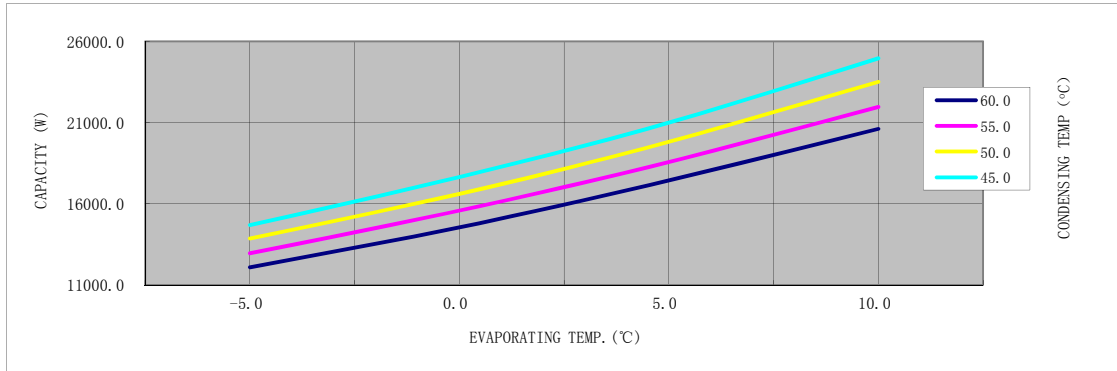
R410A DC — 380 V ~ 90 Hz

RETURN GAS TEMP. — 18 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

PERFORMANCE CURVE



1、 Rated condition data

Model	Displacement	Frequency	Power supply	Capacity	Input power	Flow rate	Current
	cc	Hz	V	W	W	kg/h	A
ATQ420D1UMU	42	90	380	20242.0	7150.0	456.9	16.39

2、 Data under different condition

Capacity(W)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	12094.4	14553.2	17441.8	20620.0
	55.0	12951.4	15583.2	18574.4	21968.5
	50.0	13867.1	16610.9	19823.8	23519.8
	45.0	14695.2	17649.6	21001.1	24966.1

Input Power(W) (with converter)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	7466.1	7797.6	8082.6	8269.0
	55.0	6787.9	7015.9	7190.5	7345.6
	50.0	6266.6	6458.9	6597.7	6684.1
	45.0	5750.0	5911.3	6018.9	6072.6

Flow Rate(kg/h)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	291.5	351.7	430.5	527.6
	55.0	292.4	354.4	433.6	528.1
	50.0	293.5	358.5	437.1	532.8
	45.0	294.3	360.6	437.7	538.1

Current(A) (with converter)		Evaporating Temp.(°C)			
		-5.0	0.0	5.0	10.0
Condensing Temp.(°C)	60.0	17.18	17.84	18.52	18.94
	55.0	15.55	16.10	16.51	16.86
	50.0	14.39	14.78	15.14	15.34
	45.0	13.21	13.59	13.77	13.92