

MODEL: PA150M2A-7F5T1

R410A 1ϕ — 230 V ~ 50 Hz

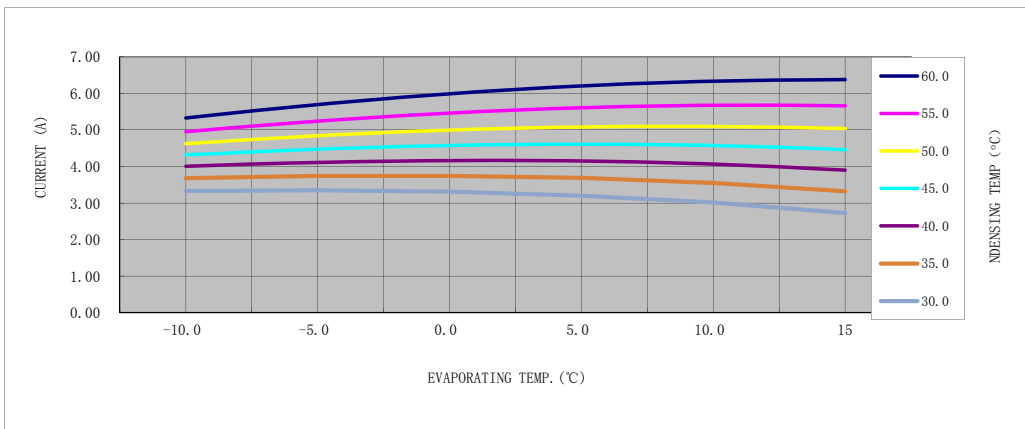
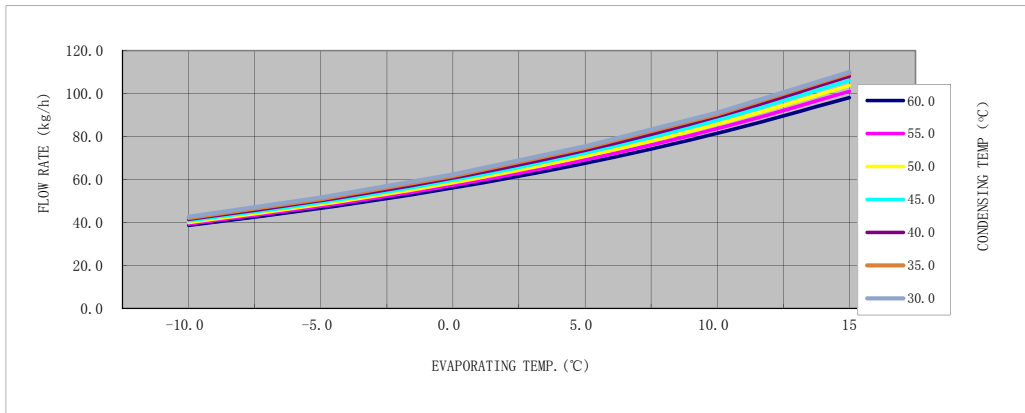
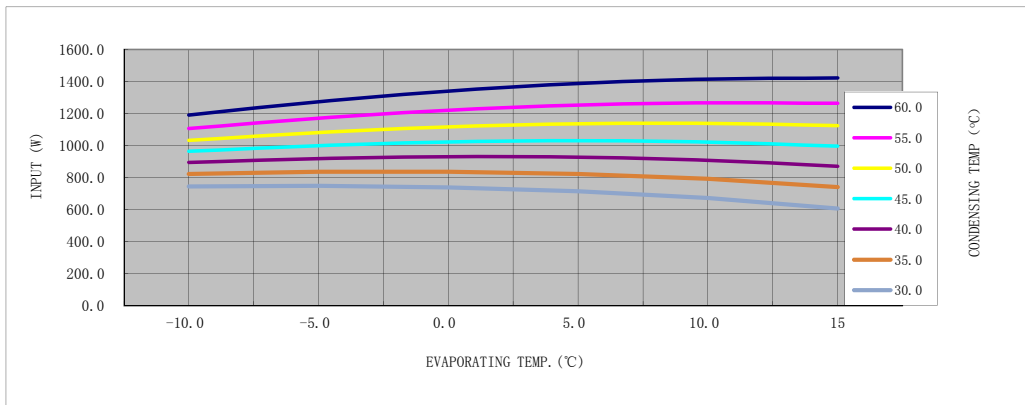
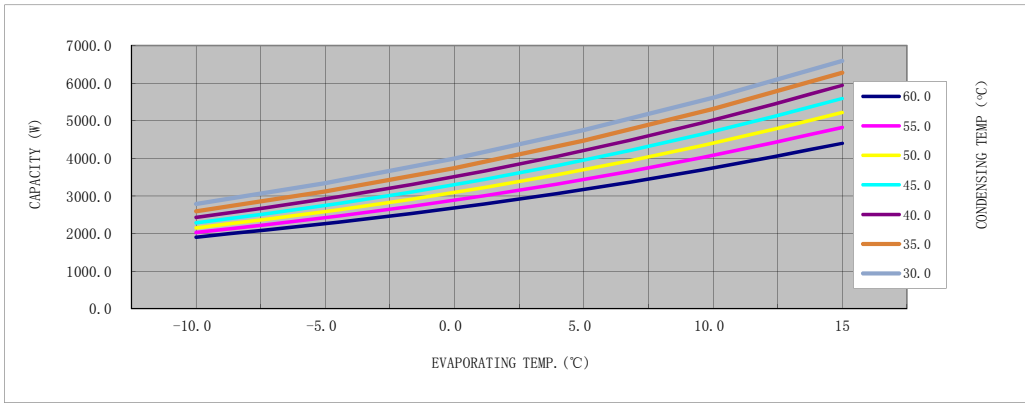
RETURN GAS TEMP. — 35 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

RUNNING CAPACITOR — 35 μF

PERFORMANCE CURVE(ASHRAE)



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
PA150M2A-7FTS	14.96	50	230	35	3745.0	1240.0	75.4	5.55

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	1902.5	2260.5	2680.6	3170.9	3742.0	4400.3
	55.0	2023.8	2420.9	2888.2	3436.6	4078.8	4821.6
	50.0	2147.7	2581.2	3092.6	3696.2	4402.2	5219.2
	45.0	2281.4	2746.7	3298.4	3951.5	4713.4	5592.4
	40.0	2426.2	2923.3	3511.6	4208.4	5015.6	5943.2
	35.0	2591.7	3119.0	3741.1	4472.5	5314.7	6275.8
	30.0	2785.9	3342.1	3993.5	4752.9	5618.2	6595.3

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	1189.9	1273.4	1339.3	1386.7	1414.3	1421.4
	55.0	1105.8	1170.6	1219.7	1252.1	1266.7	1262.7
	50.0	1032.1	1081.0	1115.9	1135.4	1138.4	1123.7
	45.0	963.5	999.3	1021.5	1029.7	1021.8	995.6
	40.0	894.8	918.8	929.9	927.2	908.1	869.9
	35.0	822.7	836.1	836.9	823.3	792.4	741.0
	30.0	744.7	748.4	739.5	715.0	672.8	607.6

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	38.6	46.6	56.1	67.6	81.4	98.1
	55.0	39.3	47.4	57.3	69.2	83.6	101.0
	50.0	39.9	48.3	58.5	70.8	85.7	103.7
	45.0	40.7	49.2	59.6	72.3	87.6	106.1
	40.0	41.4	50.1	60.7	73.6	89.2	108.0
	35.0	42.0	50.9	61.6	74.7	90.4	109.4
	30.0	42.6	51.5	62.3	75.4	91.1	110.0

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	5.32	5.70	5.99	6.21	6.34	6.37
	55.0	4.95	5.24	5.46	5.61	5.67	5.66
	50.0	4.63	4.84	5.00	5.08	5.10	5.04
	45.0	4.32	4.48	4.57	4.61	4.58	4.46
	40.0	4.01	4.11	4.16	4.15	4.07	3.90
	35.0	3.68	3.74	3.75	3.69	3.55	3.32
	30.0	3.33	3.35	3.31	3.20	3.01	2.73

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	6.06912870E+03	-3.24346872E+02	5.55006164E+01	-1.40487602E+00
P2	1.40080674E+02	-1.30365858E+01	2.03190774E+00	-5.44272386E-02
P3	-9.54321100E+01	5.60112868E+01	6.15232879E-01	2.46842281E-01
P4	2.82203034E+00	-2.56460998E-01	5.39180400E-02	-1.14939661E-03
P5	8.12558895E-01	2.35028267E-01	2.13918269E-02	8.67235834E-04
P6	1.08470524E+00	-9.02124038E-01	-1.60581420E-02	-3.93660868E-03
P7	1.13571532E-02	-2.44665253E-03	5.82542259E-04	-1.11677370E-05
P8	-2.11204012E-02	-1.27067216E-03	-2.22210036E-04	-4.93211539E-06
P9	-2.74566430E-02	2.81928880E-03	-3.45803893E-04	1.47021799E-05
P10	-7.30019369E-03	7.16737727E-03	9.91147521E-05	3.12381503E-05