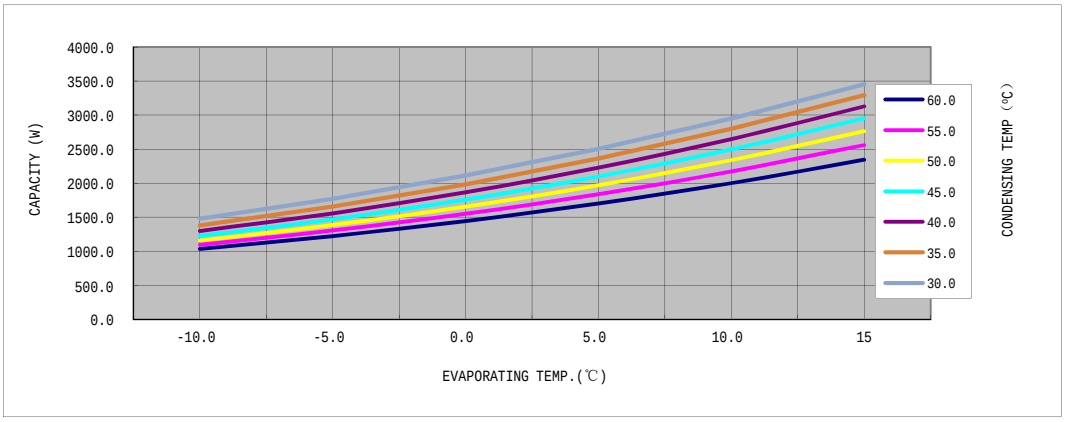
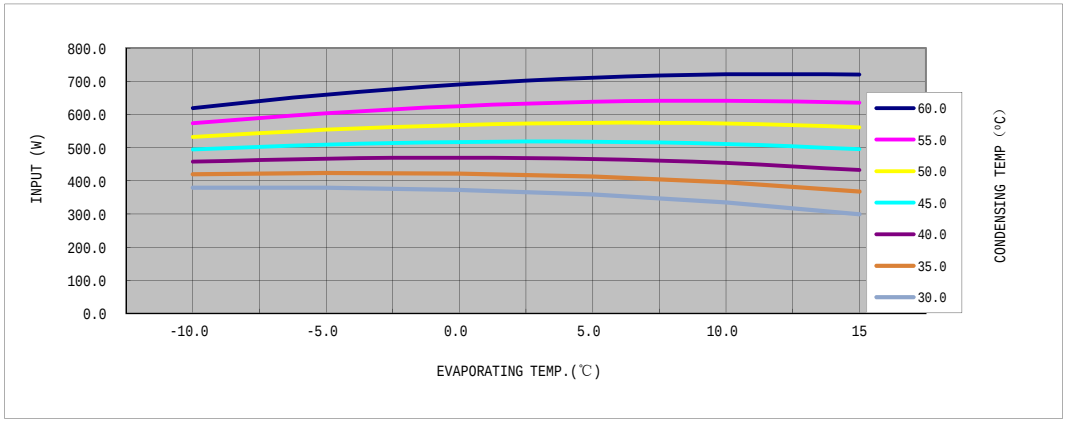
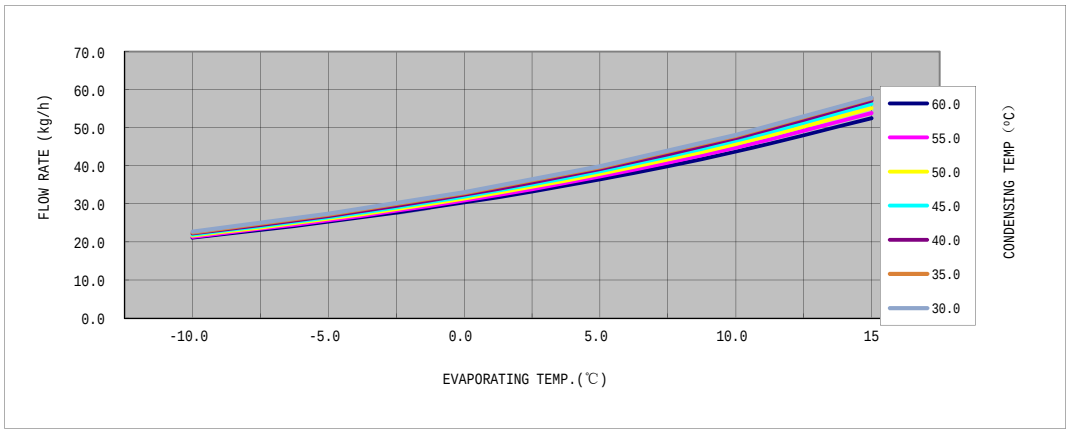
MODEL： ATN130D42UFZ

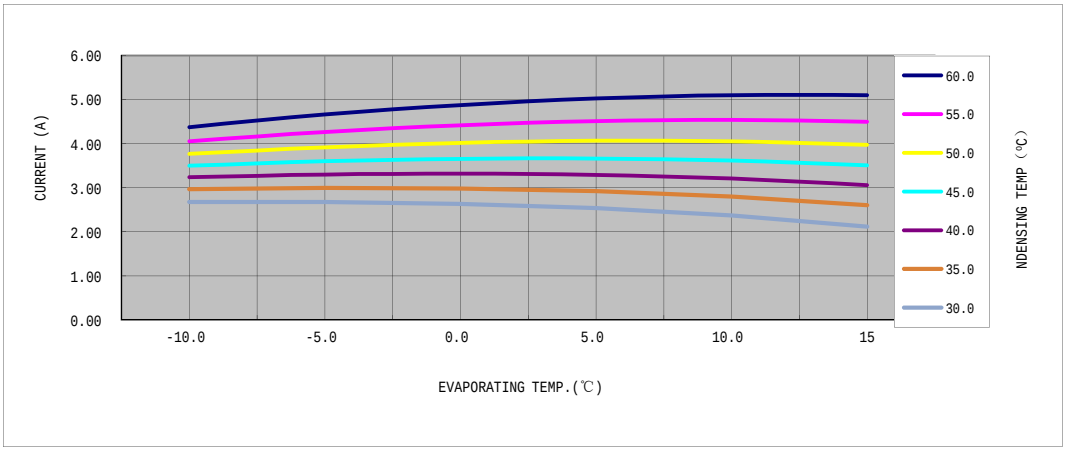
R410A 1Φ —	220	V ～	30 Hz
RETURN GAS TEMP.———	35		℃
SUBCOOLING———————	8.3		℃
AMBIENT TEMP.———————	35		℃

PERFORMANCE CURVE(ASHRAE)









1、Rated condition data

Model	Displacement	Frequency	Power supply	Capacity	Input power	Flow rate	Current
	cc	Hz	V	W	W	kg/h	A
ATN130D42UFZ	13.1	30	220	2000.8	630.1	40.2	4.45

2、Data under different condition

Capacity(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	1035.3	1224.2	1444.7	1702.5	2000.8	2344.4
	55.0	1096.3	1305.3	1550.7	1838.2	2173.8	2560.2
	50.0	1158.7	1386.1	1654.2	1969.9	2338.7	2763.3
	45.0	1225.4	1469.3	1758.5	2099.5	2496.5	2952.5
	40.0	1298.1	1557.8	1867.0	2229.1	2648.7	3128.5
	35.0	1381.1	1657.2	1982.7	2362.3	2799.1	3295.0
	30.0	1479.7	1771.2	2111.2	2503.6	2951.1	3454.6

Input Power(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	619.2	659.8	690.1	710.9	721.2	720.4
	55.0	573.3	603.3	625.1	638.1	641.5	635.4
	50.0	532.0	553.8	568.2	574.9	572.7	561.4
	45.0	494.2	508.8	517.0	518.0	511.1	495.4
	40.0	457.6	466.6	469.5	465.6	453.6	432.4
	35.0	419.6	423.8	421.9	413.0	395.7	367.9
	30.0	378.7	378.6	372.3	358.5	335.1	299.0

Flow Rate(kg/h)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	21.1	25.3	30.4	36.4	43.7	52.5
	55.0	21.4	25.7	30.9	37.2	44.7	53.9
	50.0	21.6	26.1	31.4	37.9	45.7	55.1
	45.0	21.9	26.4	31.9	38.6	46.6	56.2
	40.0	22.2	26.8	32.4	39.1	47.3	57.1
	35.0	22.5	27.1	32.8	39.6	47.8	57.7
	30.0	22.7	27.4	33.1	39.9	48.1	57.9

Current(A)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	4.38	4.66	4.88	5.03	5.10	5.10
	55.0	4.06	4.27	4.42	4.51	4.54	4.50
	50.0	3.77	3.92	4.02	4.07	4.05	3.97
	45.0	3.50	3.60	3.66	3.66	3.61	3.51
	40.0	3.24	3.30	3.32	3.29	3.21	3.06
	35.0	2.97	3.00	2.98	2.92	2.80	2.60
	30.0	2.68	2.68	2.63	2.53	2.37	2.12

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

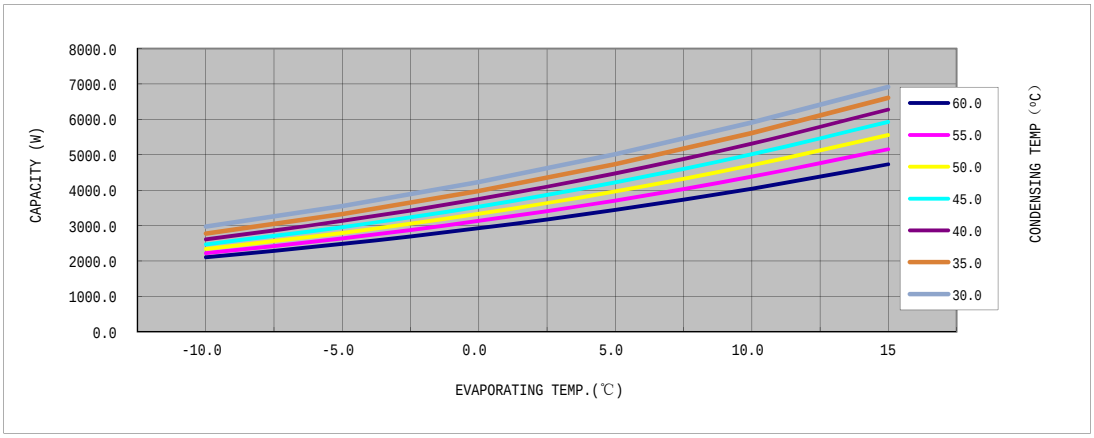
x——Evaporating Temp.(℃)； y——Condensing Temp.(℃)

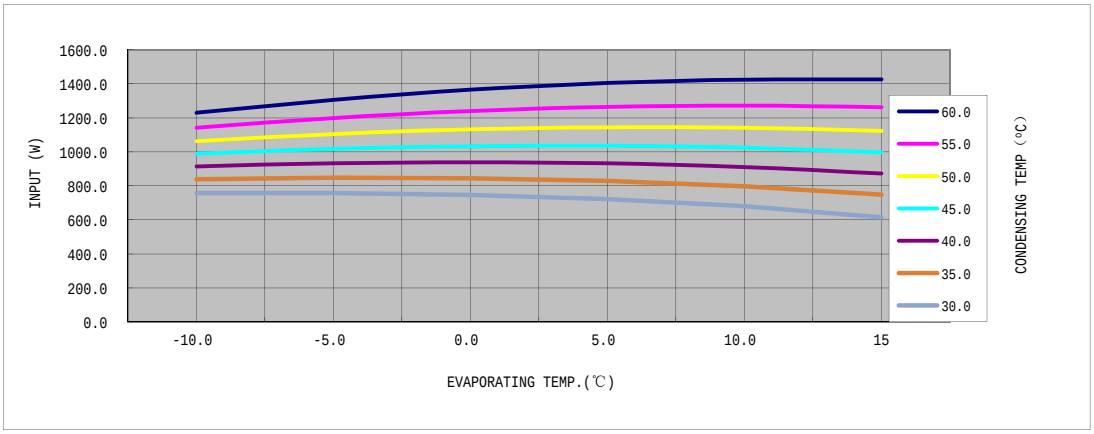
	Capacity(W)	Input Power(W)	Flow Rate(kg/h)	Current(A)
P1	3.17974360E+03	-1.73221784E+02	2.90685045E+01	-1.19407161E+00
P2	7.11426085E+01	-6.05294767E+00	1.04380132E+00	-3.96110081E-02
P3	-4.98095783E+01	2.90521012E+01	3.33619385E-01	2.02714373E-01
P4	1.40810872E+00	-1.13594236E-01	2.72055079E-02	-8.00596900E-04
P5	4.97562030E-01	7.78358205E-02	1.18943292E-02	4.00435004E-04
P6	5.87577361E-01	-4.82368529E-01	-8.29421612E-03	-3.33768653E-03
P7	5.41640989E-03	-1.33753387E-03	2.95680598E-04	-9.62556537E-06
P8	-9.99443083E-03	-1.03029239E-03	-9.92456789E-05	-6.78003474E-06
P9	-1.49211030E-02	1.78653769E-03	-1.83957588E-04	1.43221346E-05
P10	-4.01199485E-03	3.96115582E-03	5.13692013E-05	2.73863004E-05

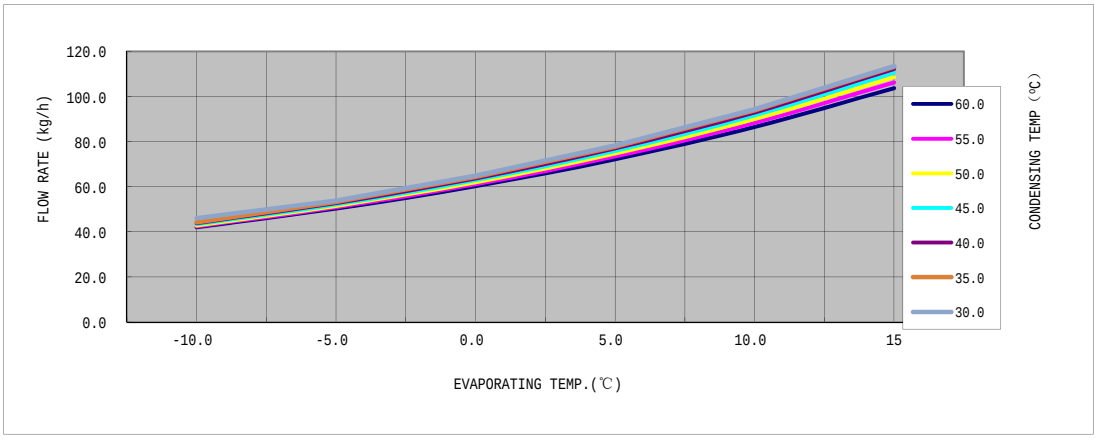
MODEL： ATN130D42UFZ

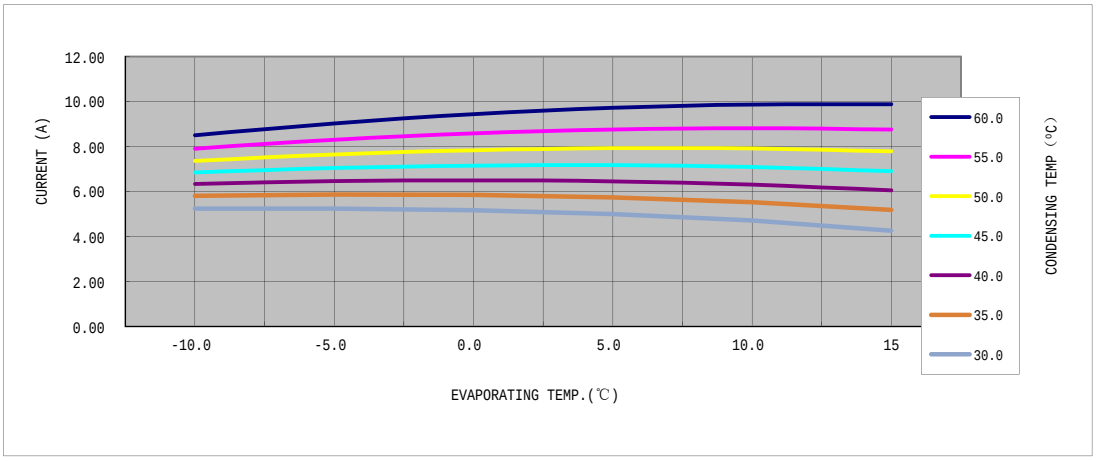
R410A 1Φ — 220 V ～ 60 Hz		
RETURN GAS TEMP.———	35	℃
SUBCOOLING———————	8.3	℃
AMBIENT TEMP.———————	35	℃

PERFORMANCE CURVE(ASHRAE)









1、Rated condition data

Model	Displacement	Frequency	Power supply	Capacity	Input power	Flow rate	Current
	cc	Hz	V	W	W	kg/h	A
ATN130D42UFZ	13.1	60	220	4033.5	1249.1	81.4	8.64

2、Data under different condition

Capacity(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	2105.7	2484.0	2926.5	3443.6	4042.0	4730.7
	55.0	2221.2	2639.8	3132.2	3709.5	4381.4	5156.5
	50.0	2340.2	2796.3	3334.1	3966.8	4704.7	5556.2
	45.0	2470.2	2958.8	3537.3	4220.2	5014.4	5929.2
	40.0	2611.9	3132.6	3750.3	4475.3	5314.4	6277.2
	35.0	2775.5	3327.6	3978.7	4737.4	5611.2	6604.7
	30.0	2971.1	3552.5	4231.7	5016.7	5912.0	6919.1

Input Power(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	1229.6	1305.2	1365.2	1404.7	1425.0	1425.8
	55.0	1141.7	1199.0	1240.0	1264.6	1272.5	1263.2
	50.0	1062.3	1104.8	1132.0	1144.6	1142.3	1123.5
	45.0	988.5	1017.5	1033.4	1035.9	1024.2	996.2
	40.0	914.8	932.9	938.9	932.4	911.2	872.9
	35.0	839.0	847.5	844.8	829.1	797.9	747.6
	30.0	757.9	758.1	747.3	722.5	679.9	613.9

Flow Rate(kg/h)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	42.1	50.3	60.2	72.2	86.5	103.7
	55.0	42.4	50.9	61.1	73.4	88.3	106.2
	50.0	42.8	51.5	62.0	74.7	90.1	108.6
	45.0	43.3	52.2	62.9	75.9	91.6	110.6
	40.0	43.8	52.8	63.7	77.0	92.9	112.2
	35.0	44.3	53.4	64.4	77.8	93.9	113.2
	30.0	46.0	53.9	64.9	78.2	94.3	113.5

Current(A)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	8.50	9.03	9.44	9.72	9.87	9.88
	55.0	7.91	8.30	8.58	8.75	8.81	8.76
	50.0	7.36	7.65	7.84	7.92	7.91	7.78
	45.0	6.85	7.05	7.15	7.17	7.09	6.90
	40.0	6.34	6.46	6.50	6.45	6.31	6.05
	35.0	5.81	5.86	5.84	5.74	5.53	5.18
	30.0	5.24	5.24	5.17	5.00	4.71	4.26

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

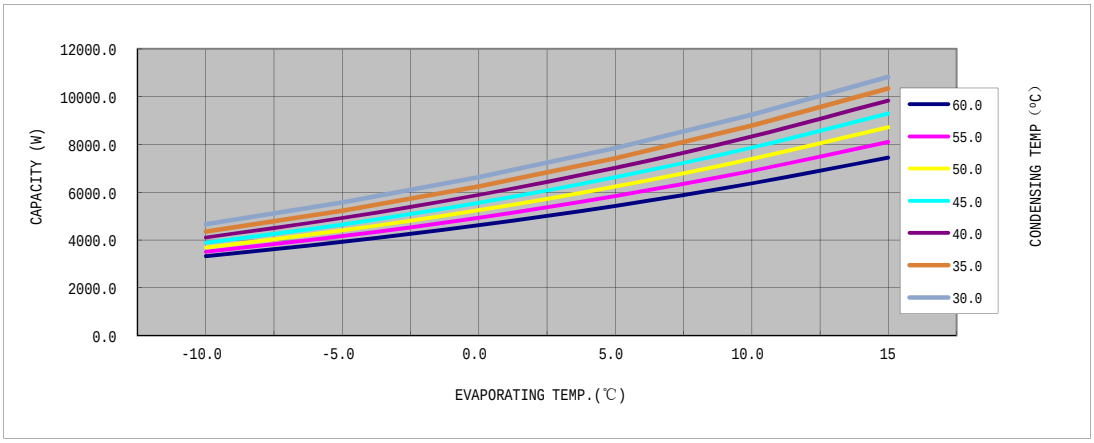
x——Evaporating Temp.(˚C)； y——Condensing Temp.(˚C)

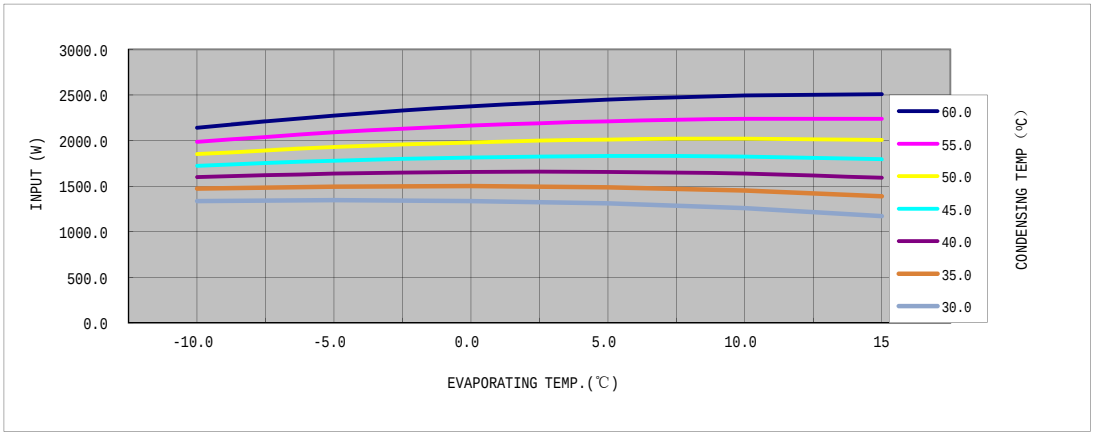
	Capacity(W)	Input Power(W)	Flow Rate(kg/h)	Current(A)
P1	6.35377896E+03	-3.06604052E+02	6.22176495E+01	-2.05239670E+00
P2	1.41163038E+02	-1.07956088E+01	1.79547558E+00	-6.84463009E-02
P3	-9.90405647E+01	5.52651073E+01	3.16733921E-01	3.76519895E-01
P4	2.82973781E+00	-2.12242865E-01	5.92785923E-02	-1.45842497E-03
P5	1.03760794E+00	1.26418956E-01	3.31812452E-02	5.78437739E-04
P6	1.16862780E+00	-8.89866550E-01	-9.33012034E-03	-5.99973905E-03
P7	1.11587500E-02	-2.10513807E-03	5.14760957E-04	-1.48068882E-05
P8	-2.02194325E-02	-1.90434740E-03	-2.98692923E-04	-1.23395198E-05
P9	-3.01679599E-02	3.57186231E-03	-4.51667876E-04	2.80695263E-05
P10	-7.87657248E-03	7.20413563E-03	5.81499002E-05	4.85217883E-05

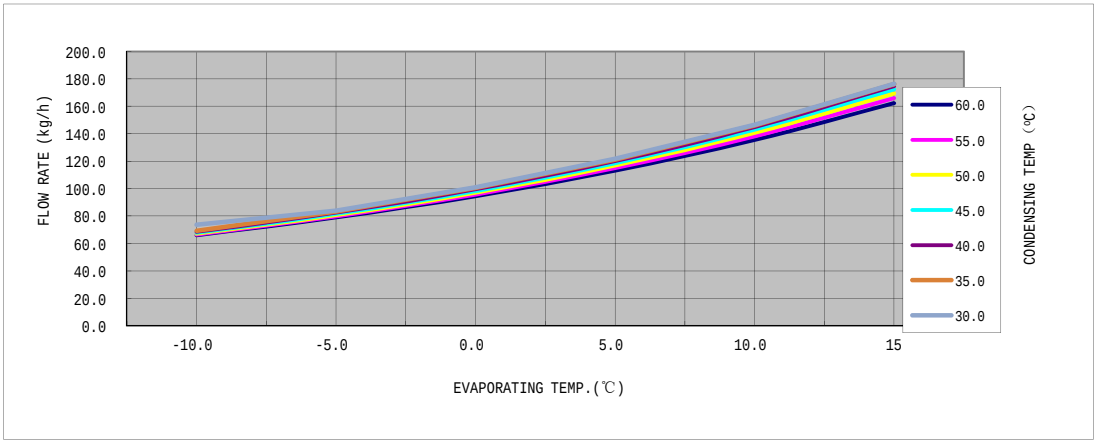
MODEL: ATN130D42UFZ

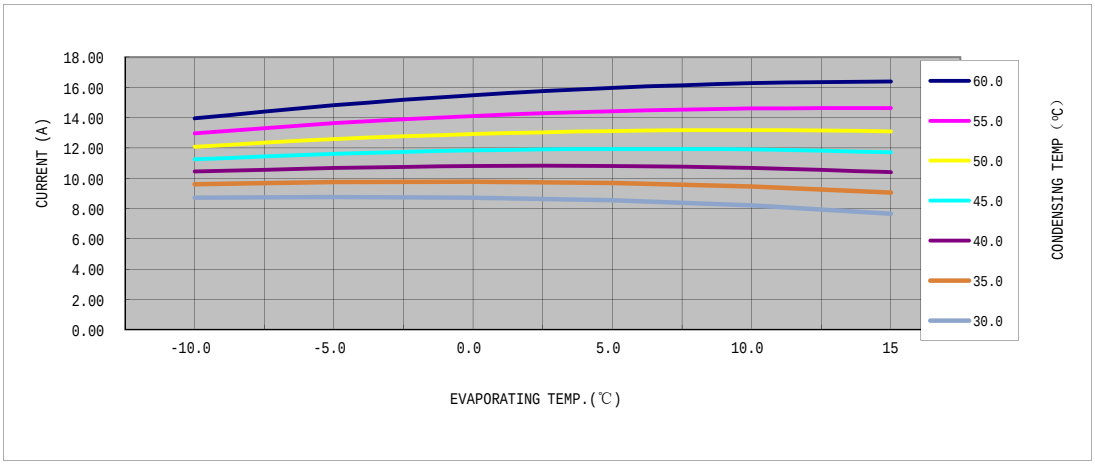
R410A 1Φ — 220 V ～ 90 Hz		
RETURN GAS TEMP.	35	℃
SUBCOOLING	8.3	℃
AMBIENT TEMP.	35	℃

PERFORMANCE CURVE(ASHRAE)









1、Rated condition data

Model	Displacement	Frequency	Power supply	Capacity	Input power	Flow rate	Current
	cc	Hz	V	W	W	kg/h	A
ATN130D42UFZ	13.1	90	220	6349.9	2192.5	130.1	14.30

2、Data under different condition

Capacity(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	3329.2	3923.7	4619.5	5431.8	6371.6	7450.3
	55.0	3506.2	4164.1	4937.2	5843.1	6895.9	8109.0
	50.0	3689.3	4405.4	5249.4	6240.3	7395.2	8726.0
	45.0	3889.0	4655.6	5563.8	6630.7	7872.3	9301.1
	40.0	4108.1	4924.6	5891.0	7022.8	8334.3	9836.6
	35.0	4361.6	5224.9	6242.4	7426.5	8789.7	10339.8
	30.0	4663.9	5571.8	6632.1	7856.0	9251.1	10820.4

Input Power(W)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	2140.2	2273.2	2376.0	2448.4	2493.4	2508.1
	55.0	1986.4	2089.6	2163.4	2212.1	2237.6	2239.3
	50.0	1850.5	1928.8	1979.9	2011.6	2020.6	2005.9
	45.0	1723.0	1779.6	1814.6	1829.6	1824.2	1794.3
	40.0	1599.6	1636.4	1656.7	1656.7	1636.3	1592.4
	35.0	1471.6	1494.5	1499.5	1486.6	1450.2	1387.2
	30.0	1336.8	1345.1	1337.7	1310.5	1257.8	1171.0

Flow Rate(kg/h)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	66.0	79.0	94.4	113.1	135.4	162.3
	55.0	66.4	79.7	95.7	114.9	138.0	165.9
	50.0	67.0	80.6	97.0	116.7	140.6	169.3
	45.0	67.7	81.5	98.2	118.5	142.9	172.3
	40.0	68.4	82.4	99.4	120.0	144.8	174.6
	35.0	69.1	83.2	100.4	121.1	146.0	176.0
	30.0	73.6	83.9	101.0	121.7	146.5	176.3

Current(A)		Evaporating Temp.(℃)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(℃)	60.0	13.95	14.82	15.49	15.97	16.28	16.39
	55.0	12.97	13.63	14.11	14.43	14.61	14.63
	50.0	12.09	12.59	12.92	13.12	13.19	13.10
	45.0	11.26	11.62	11.84	11.94	11.90	11.72
	40.0	10.45	10.68	10.81	10.81	10.68	10.40
	35.0	9.60	9.75	9.78	9.70	9.46	9.06
	30.0	8.72	8.77	8.72	8.55	8.21	7.66

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.(˚C)； y——Condensing Temp.(˚C)

	Capacity(W)	Input Power(W)	Flow Rate(kg/h)	Current(A)
P1	9.89635802E+03	-3.79856306E+02	1.03406321E+02	-2.37157873E+00
P2	2.17993368E+02	-1.48292030E+01	2.43972485E+00	-8.62765404E-02
P3	-1.52370491E+02	8.99555920E+01	5.18988946E-02	5.77654381E-01
P4	4.38198154E+00	-2.74938029E-01	9.90952203E-02	-1.77869530E-03
P5	1.71143230E+00	1.90723625E-01	6.50833724E-02	7.50362943E-04
P6	1.79928205E+00	-1.45166764E+00	-5.08642641E-03	-9.22433637E-03
P7	1.73192372E-02	-1.78853071E-03	7.01114620E-04	-1.20416156E-05
P8	-3.10461121E-02	-3.95205661E-03	-5.89194162E-04	-2.42896717E-05
P9	-4.76844130E-02	5.73911866E-03	-8.22561509E-04	4.30125478E-05
P10	-1.21580317E-02	1.19426758E-02	2.88233565E-05	7.58301270E-05