

MODEL: DTN250D32UFZ

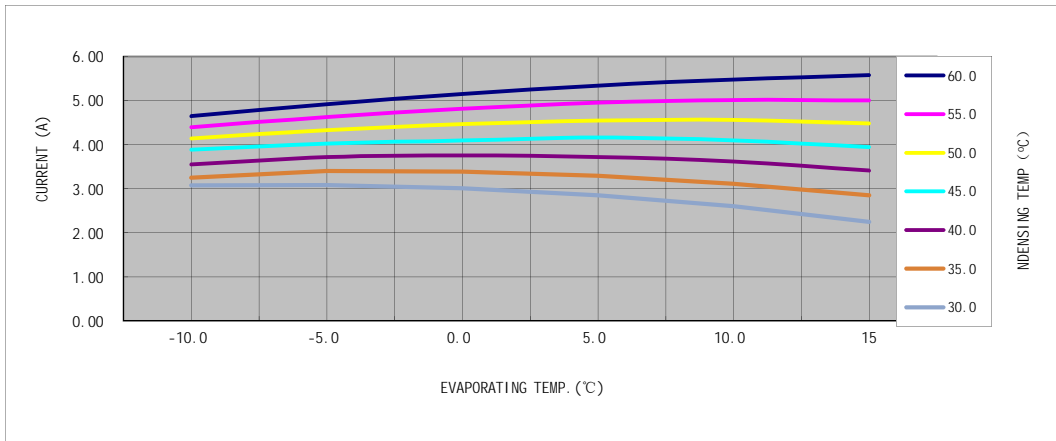
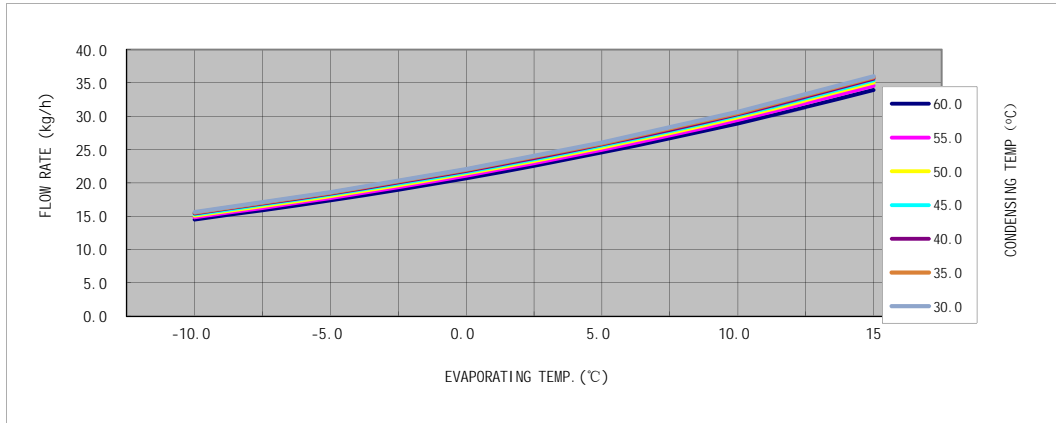
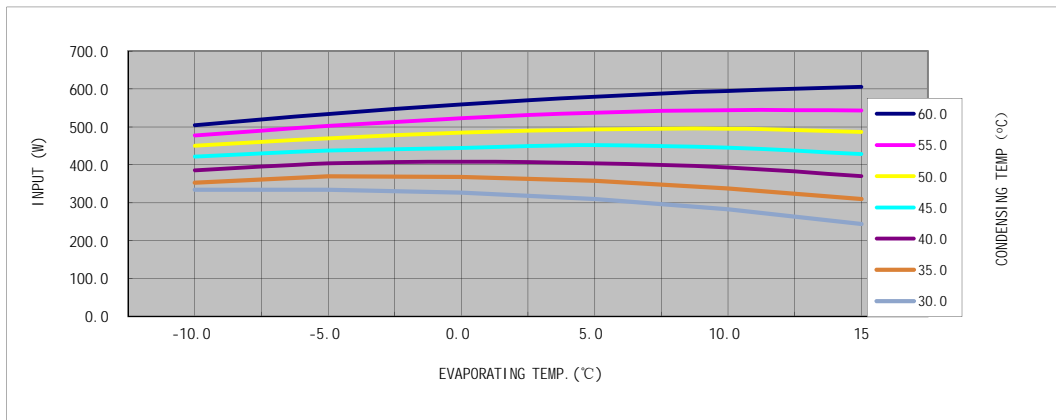
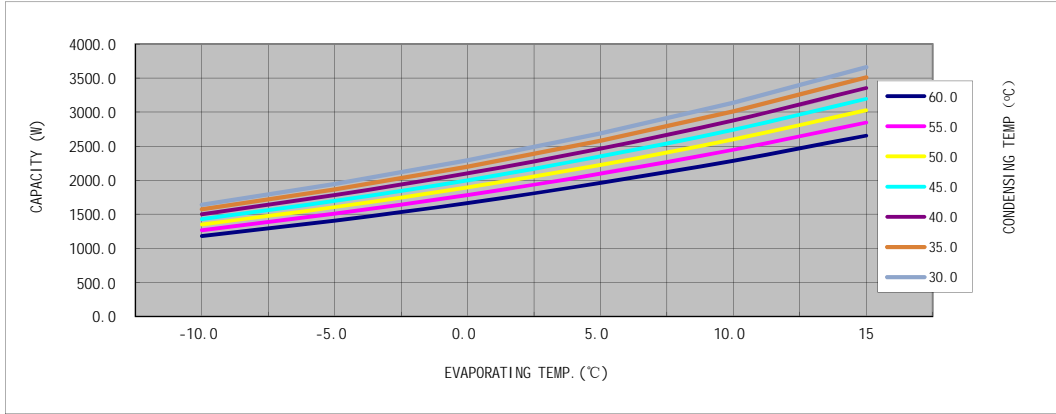
R290 1Φ — 220 V ~ 30 Hz

RETURN GAS TEMP. ——— 35 °C

SUBCOOLING ——— 8.3 °C

AMBIENT TEMP. ——— 35 °C

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
DTN250D32UFZ	25	30	220	2263.2	536.8	26.9	4.94

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	1179.9	1407.1	1664.2	1960.2	2286.9	2654.6
	55.0	1266.7	1508.9	1782.6	2096.3	2447.4	2847.5
	50.0	1349.6	1605.6	1895.2	2225.6	2598.8	3027.2
	45.0	1427.9	1696.8	1999.8	2350.6	2742.0	3195.5
	40.0	1501.0	1783.1	2101.6	2464.7	2878.1	3354.4
	35.0	1571.2	1864.0	2198.4	2578.0	3010.2	3508.7
	30.0	1638.8	1944.1	2292.6	2688.6	3138.7	3659.5

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	504.6	534.1	559.2	579.9	595.2	605.7
	55.0	477.7	502.4	522.7	537.7	544.5	543.5
	50.0	450.0	470.2	484.9	493.5	495.4	486.9
	45.0	422.0	437.3	444.6	452.0	444.9	428.7
	40.0	385.6	403.7	408.0	404.1	393.1	370.4
	35.0	353.2	369.7	367.8	357.6	338.0	309.4
	30.0	334.2	334.5	326.8	309.9	282.8	243.9

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	14.5	17.4	20.7	24.6	28.9	33.9
	55.0	14.8	17.7	21.1	25.0	29.4	34.6
	50.0	15.1	18.0	21.4	25.3	29.8	35.0
	45.0	15.3	18.2	21.6	25.6	30.1	35.4
	40.0	15.4	18.4	21.8	25.7	30.3	35.6
	35.0	15.5	18.5	22.0	25.9	30.5	35.8
	30.0	15.6	18.6	22.1	26.0	30.6	36.0

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	4.65	4.92	5.15	5.34	5.48	5.58
	55.0	4.40	4.63	4.81	4.95	5.01	5.00
	50.0	4.14	4.33	4.46	4.54	4.56	4.48
	45.0	3.89	4.03	4.09	4.16	4.10	3.95
	40.0	3.55	3.72	3.76	3.72	3.62	3.41
	35.0	3.25	3.40	3.39	3.29	3.11	2.85
	30.0	3.08	3.08	3.01	2.85	2.60	2.25

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	2.86682547E+03	7.67779263E+01	2.35515166E+01	7.06939450E-01
P2	8.80201786E+01	-1.04427528E+01	7.02614439E-01	-9.61525566E-02
P3	-2.15793836E+01	8.52360061E+00	-1.02593009E-01	7.84817957E-02
P4	1.36454624E+00	-3.17951947E-01	1.19398083E-02	-2.92757027E-03
P5	-3.67308989E-01	2.97842963E-01	2.15884608E-03	2.74241505E-03
P6	1.31081781E-01	-3.02148827E-03	2.59163737E-03	-2.78206167E-05
P7	8.40612055E-03	-7.42851174E-04	1.26025920E-04	-6.83986695E-06
P8	-1.17526084E-02	3.64769831E-03	-3.39177871E-05	3.35865002E-05
P9	-3.19612320E-03	-8.05994847E-04	-3.42244093E-05	-7.42126782E-06
P10	-1.75200922E-03	-8.10467303E-05	-2.79339720E-05	-7.46244836E-07

MODEL: DTN250D32UFZ

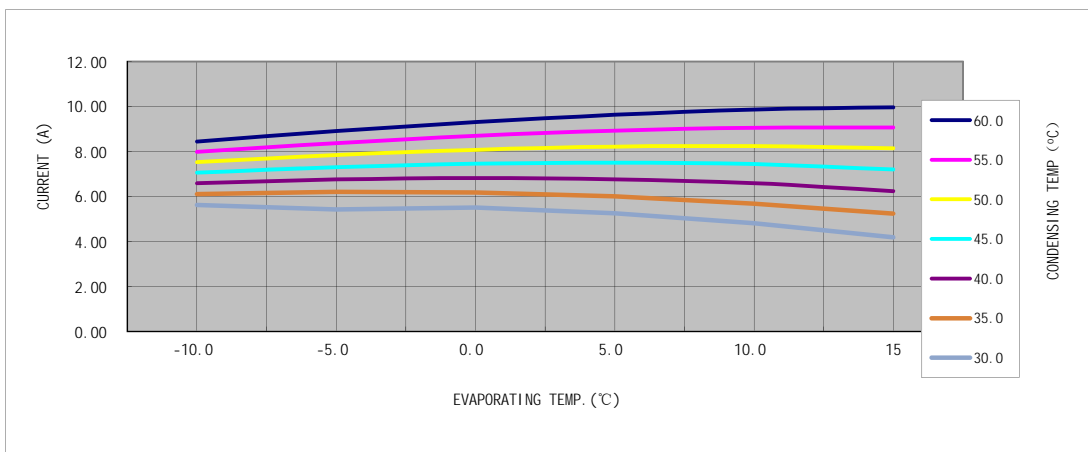
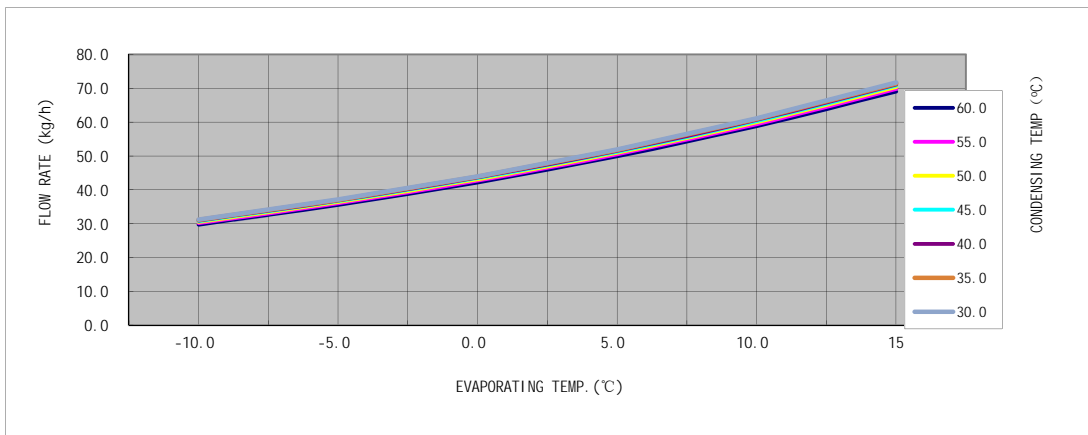
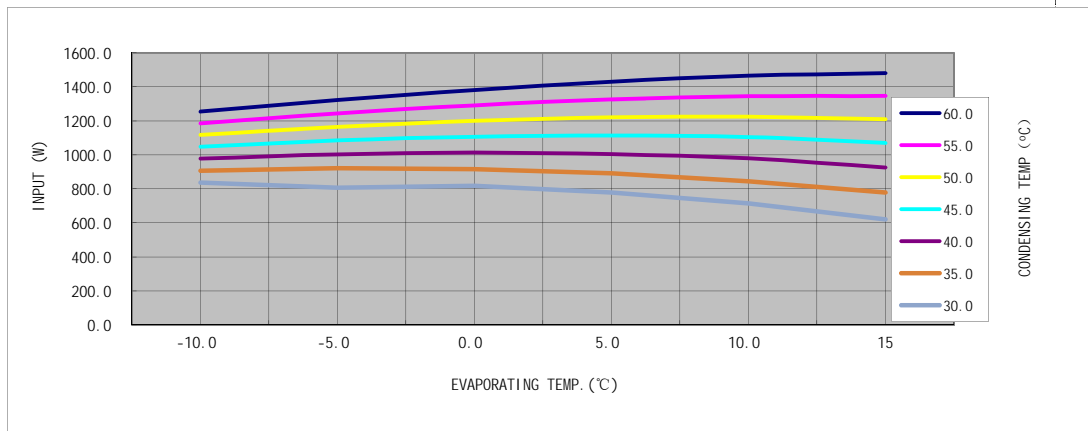
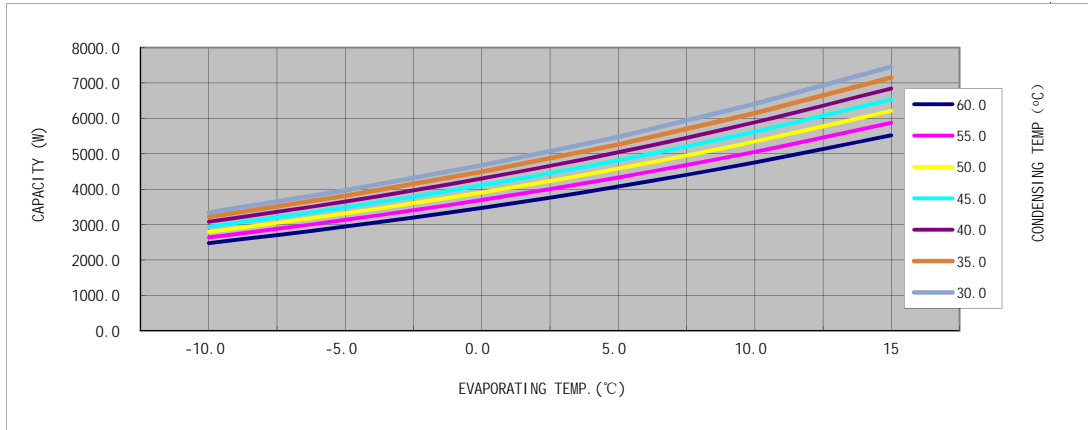
R290 1Φ — 220 V ~ 60 Hz

RETURN GAS TEMP. — 35 °C

SUBCOOLING — 8.3 °C

AMBIENT TEMP. — 35 °C

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
DTN250D32UFZ	25	60	220	4668.6	1323.7	54.3	8.91

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	2475.8	2943.2	3470.7	4074.9	4756.3	5519.9
	55.0	2638.0	3133.7	3694.0	4333.1	5055.5	5875.6
	50.0	2793.3	3315.9	3907.3	4580.1	5346.5	6213.6
	45.0	2941.3	3489.1	4110.2	4816.3	5623.0	6534.6
	40.0	3079.0	3651.2	4301.8	5041.3	5888.1	6843.7
	35.0	3215.3	3810.4	4487.9	5263.1	6148.3	7147.8
	30.0	3345.3	3968.5	4671.6	5479.2	6407.0	7453.9

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	1254.2	1322.9	1381.8	1430.4	1465.5	1480.3
	55.0	1185.5	1243.8	1291.2	1326.0	1344.4	1346.3
	50.0	1117.3	1164.6	1199.5	1220.6	1224.2	1209.5
	45.0	1048.4	1084.8	1107.0	1113.8	1104.8	1069.4
	40.0	977.9	1003.2	1013.0	1003.8	979.5	925.9
	35.0	907.5	921.0	916.5	891.6	844.3	778.8
	30.0	836.1	806.0	818.0	779.3	714.5	620.7

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	29.7	35.5	42.2	49.9	58.8	69.0
	55.0	30.1	36.0	42.7	50.5	59.4	69.8
	50.0	30.5	36.4	43.1	50.9	60.0	70.3
	45.0	30.8	36.7	43.5	51.3	60.3	70.8
	40.0	30.9	36.8	43.7	51.5	60.6	71.1
	35.0	31.1	37.0	43.8	51.7	60.9	71.4
	30.0	31.2	37.2	44.0	51.9	61.1	71.7

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	8.45	8.91	9.31	9.63	9.87	9.97
	55.0	7.98	8.38	8.70	8.93	9.05	9.07
	50.0	7.52	7.84	8.08	8.22	8.24	8.14
	45.0	7.06	7.30	7.45	7.50	7.44	7.20
	40.0	6.59	6.76	6.82	6.76	6.60	6.23
	35.0	6.11	6.20	6.17	6.00	5.69	5.24
	30.0	5.63	5.43	5.51	5.25	4.81	4.18

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	5.86352146E+03	-2.63312473E+00	4.65535740E+01	-1.77315620E-02
P2	1.84988728E+02	-2.42722578E+01	1.48090666E+00	-1.63450306E-01
P3	-4.57987399E+01	3.44883596E+01	-1.73489852E-01	2.32245925E-01
P4	2.68837326E+00	-5.82922414E-01	2.28900270E-02	-3.92542169E-03
P5	-1.03303650E+00	6.81837888E-01	2.16229129E-04	4.59152226E-03
P6	3.06887578E-01	-3.02396963E-01	4.20647628E-03	-2.03635264E-03
P7	1.41779427E-02	-5.81223058E-03	2.24829717E-04	-3.91397816E-05
P8	-2.14633464E-02	6.20157689E-03	-4.23322964E-05	4.17616545E-05
P9	-2.89897700E-03	-1.53974635E-03	-1.69220432E-05	-1.03687105E-05
P10	-3.46154386E-03	1.86797796E-03	-4.20392662E-05	1.25790346E-05

MODEL: DTN250D32UFZ

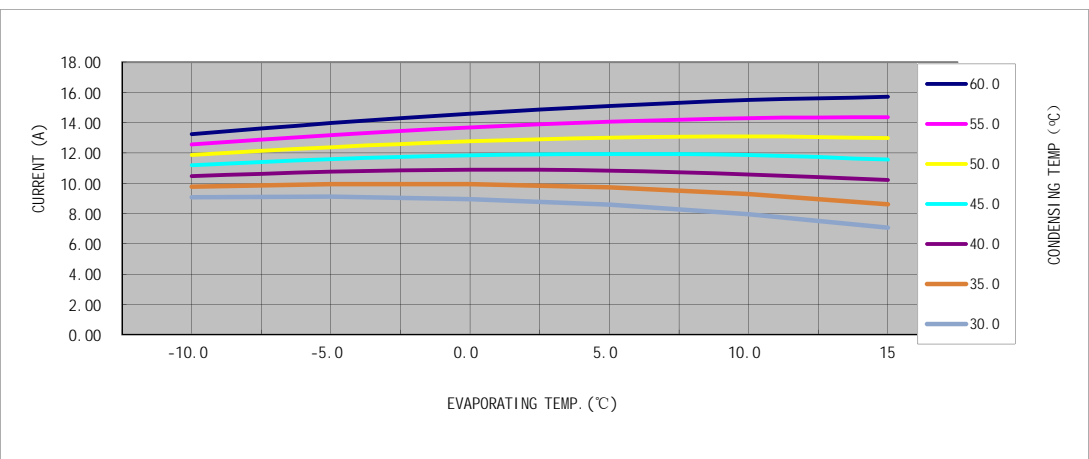
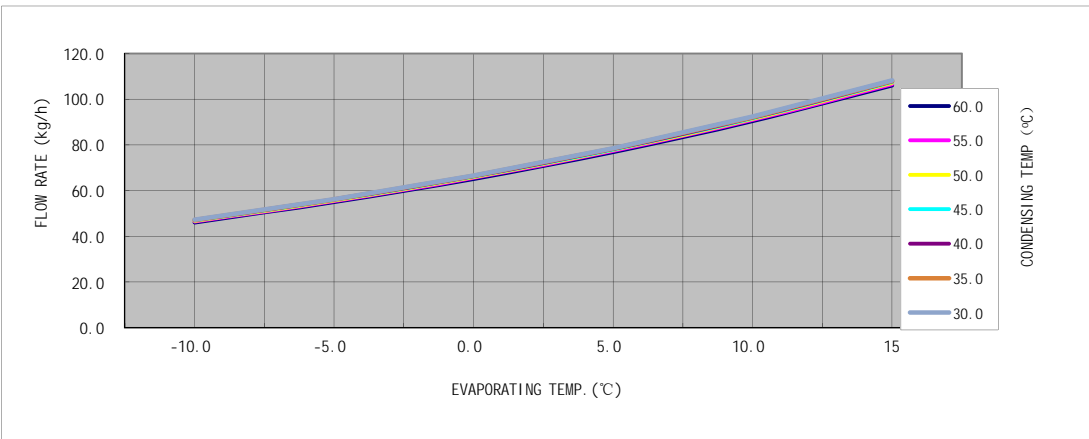
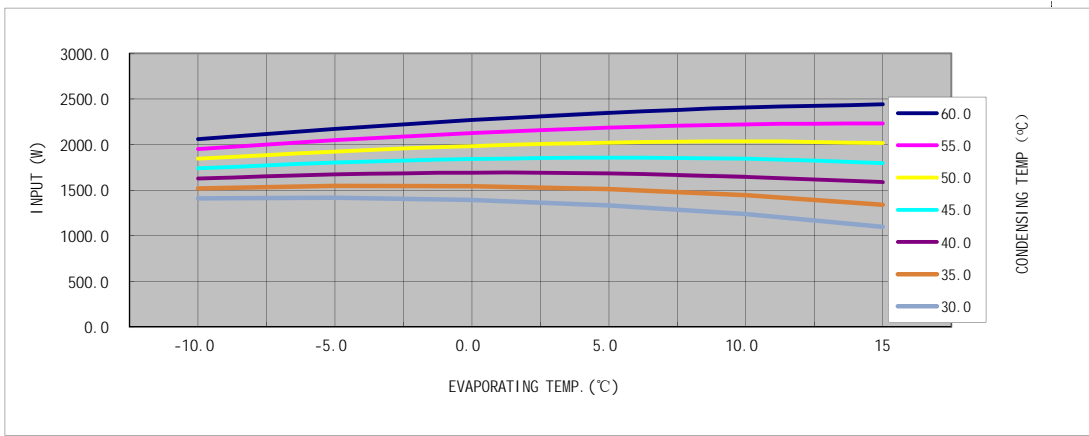
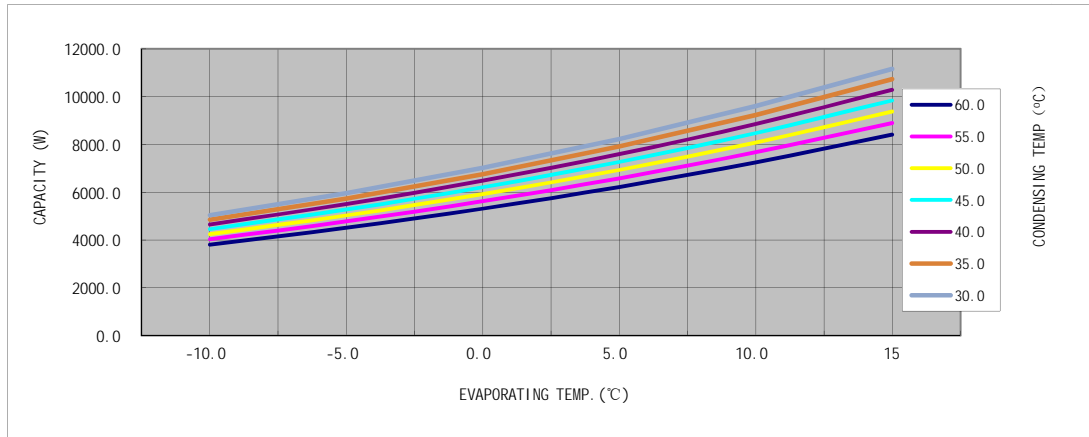
R290 1Φ — 220 V ~ 90 Hz

RETURN GAS TEMP. ——— 35 °C

SUBCOOLING ——— 8.3 °C

AMBIENT TEMP. ——— 35 °C

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
DTN250D32UFZ	25	90	220	7087.0	2183.4	83.0	14.05

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	3809.0	4515.4	5313.1	6223.2	7252.8	8411.6
	55.0	4032.4	4778.8	5624.1	6585.4	7674.8	8900.9
	50.0	4247.8	5032.5	5923.1	6934.9	8081.8	9380.5
	45.0	4455.5	5276.7	6211.2	7270.9	8476.9	9841.6
	40.0	4651.4	5508.4	6484.8	7595.4	8857.9	10287.1
	35.0	4845.4	5737.1	6755.4	7915.4	9233.3	10727.3
	30.0	5035.3	5960.7	7020.3	8229.8	9602.0	11159.0

Input Power(W)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	2058.6	2171.1	2268.5	2347.2	2407.7	2440.6
	55.0	1951.0	2047.4	2126.1	2184.8	2222.4	2231.9
	50.0	1844.5	1924.0	1983.6	2020.9	2035.9	2016.8
	45.0	1739.5	1801.3	1840.7	1855.2	1844.2	1796.5
	40.0	1626.7	1672.0	1692.2	1684.1	1645.0	1587.1
	35.0	1519.7	1546.6	1544.8	1511.8	1444.5	1338.5
	30.0	1409.9	1416.7	1391.9	1333.9	1237.8	1098.6

Flow Rate(kg/h)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	46.1	54.9	65.1	76.8	90.3	105.9
	55.0	46.4	55.3	65.5	77.3	90.9	106.5
	50.0	46.7	55.7	65.9	77.7	91.3	107.0
	45.0	46.9	55.9	66.2	78.0	91.7	107.4
	40.0	47.1	56.0	66.3	78.2	91.9	107.7
	35.0	47.2	56.1	66.5	78.4	92.1	107.9
	30.0	47.3	56.2	66.6	78.6	92.3	108.2

Current(A)		Evaporating Temp.(°C)					
		-10.0	-5.0	0.0	5.0	10.0	15
Condensing Temp.(°C)	60.0	13.25	13.97	14.60	15.11	15.50	15.71
	55.0	12.56	13.18	13.68	14.06	14.30	14.37
	50.0	11.87	12.38	12.77	13.01	13.10	12.98
	45.0	11.20	11.59	11.85	11.94	11.87	11.56
	40.0	10.47	10.76	10.89	10.84	10.59	10.22
	35.0	9.78	9.95	9.94	9.73	9.30	8.62
	30.0	9.07	9.12	8.96	8.59	7.97	7.07

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	8.63401118E+03	3.36664709E+02	6.88488728E+01	2.16694984E+00
P2	2.75677669E+02	-4.31786017E+01	2.23066901E+00	-2.77920024E-01
P3	-5.76571334E+01	4.00027149E+01	-1.54629457E-01	2.57478359E-01
P4	3.88075617E+00	-1.00021199E+00	3.27628546E-02	-6.43788657E-03
P5	-1.52836216E+00	1.31052116E+00	-3.08927304E-05	8.43519843E-03
P6	2.16868645E-01	-1.94136953E-01	3.81028407E-03	-1.24956679E-03
P7	1.98542233E-02	-3.88693104E-03	3.32734177E-04	-2.50183176E-05
P8	-2.92591493E-02	1.09507790E-02	-2.98087749E-05	7.04849309E-05
P9	-3.84032739E-03	-4.94948181E-03	-1.31519928E-05	-3.18574491E-05
P10	-2.96141334E-03	1.06245108E-03	-3.79665434E-05	6.83848985E-06