

Cooling Capacities
38QRR018 with 40QAQ024+

Temp (F)	Air Entering Condenser (Edb)	Air Entering Evaporator - Cfm/BF											
		320/0.02				400/0.03				500/0.03			
		Air Entering Evaporator - Ewb (F)											
		57	62	67	72	57	62	67	72	57	62	67	72
55	TCG	15.3	16.7	17.8	18.6	16.1	17.4	18.3	18.9	16.9	17.8	18.6	19.2
	SHG	14.2	12.9	11.2	9.4	16.1	14.2	11.9	9.7	16.9	15.1	12.3	9.9
	TC	15.0	16.4	17.5	18.3	15.8	17.1	18.0	18.7	16.6	17.5	18.3	18.9
	kW	0.91	0.91	0.91	0.92	0.91	0.91	0.91	0.92	0.91	0.91	0.92	0.92
	CMP	0.72	0.73	0.73	0.73	0.72	0.73	0.73	0.73	0.72	0.73	0.73	0.73
	LDB	40.0	44.0	49.2	54.7	43.8	48.4	54.0	59.2	48.3	51.9	57.4	62.2
	LWB	37.1	42.4	48.2	54.7	40.7	46.1	52.1	58.4	43.0	48.8	54.7	60.8
65	TCG	14.6	16.2	17.6	18.7	15.4	17.0	18.3	19.1	16.5	17.6	18.6	19.4
	SHG	13.8	12.6	11.2	9.4	15.4	14.1	12.0	9.8	16.5	15.3	12.7	10.1
	TC	14.4	15.9	17.4	18.4	15.2	16.8	18.0	18.9	16.3	17.3	18.4	19.1
	kW	1.02	1.02	1.03	1.03	1.02	1.02	1.03	1.03	1.02	1.03	1.03	1.03
	CMP	0.83	0.84	0.84	0.84	0.84	0.84	0.84	0.85	0.84	0.84	0.84	0.85
	LDB	41.2	45.1	49.4	54.7	45.2	48.5	53.6	59.0	48.9	51.5	56.8	62.0
	LWB	38.1	43.1	48.5	54.6	41.5	46.5	52.2	58.3	43.4	49.0	54.7	60.7
75	TCG	14.0	15.5	17.1	18.5	14.9	16.3	17.9	19.1	15.9	16.9	18.4	19.4
	SHG	13.4	12.1	10.8	9.3	14.9	13.7	11.9	9.8	15.9	15.1	12.8	10.2
	TC	13.7	15.2	16.8	18.2	14.6	16.1	17.6	18.8	15.6	16.7	18.1	19.1
	kW	1.14	1.15	1.15	1.16	1.15	1.15	1.15	1.16	1.15	1.15	1.16	1.16
	CMP	0.95	0.97	0.97	0.97	0.96	0.97	0.97	0.97	0.97	0.97	0.97	0.98
	LDB	42.3	46.4	50.3	55.0	46.5	49.5	53.8	58.9	50.1	51.9	56.6	61.8
	LWB	39.2	44.1	49.2	54.8	42.2	47.2	52.5	58.3	44.0	49.5	54.9	60.7
85	TCG	13.3	14.7	16.3	18.0	14.3	15.5	17.2	18.7	15.2	16.0	17.7	19.1
	SHG	13.0	11.7	10.4	9.1	14.3	13.2	11.6	9.7	15.2	14.6	12.6	10.2
	TC	13.0	14.5	16.1	17.7	14.0	15.2	16.9	18.4	15.0	15.8	17.5	18.8
	kW	1.26	1.28	1.29	1.30	1.27	1.29	1.30	1.30	1.29	1.29	1.30	1.30
	CMP	1.08	1.10	1.11	1.11	1.09	1.11	1.11	1.11	1.10	1.11	1.11	1.12
	LDB	43.6	47.5	51.6	55.7	47.9	50.7	54.5	59.2	51.4	52.9	56.9	61.8
	LWB	40.2	45.1	50.1	55.4	42.8	48.1	53.2	58.6	44.6	50.3	55.4	60.9
95	TCG	12.5	13.9	15.4	17.2	13.6	14.6	16.2	17.9	14.5	15.1	17.2	18.4
	SHG	12.5	11.3	10.0	8.7	13.6	12.7	11.1	9.4	14.5	14.0	12.5	10.0
	TC	12.2	13.6	15.2	16.9	13.4	14.4	16.0	17.7	14.3	14.9	17.0	18.1
	kW	1.40	1.42	1.44	1.45	1.41	1.43	1.45	1.46	1.43	1.44	1.45	1.46
	CMP	1.21	1.23	1.26	1.27	1.23	1.25	1.27	1.27	1.24	1.25	1.27	1.27
	LDB	44.9	48.6	52.8	56.8	49.4	51.8	55.6	59.8	52.8	53.9	57.6	62.1
	LWB	41.4	46.2	51.2	56.3	43.6	49.0	54.1	59.2	45.2	51.0	56.0	61.3
105	TCG	11.8	13.0	14.5	16.2	12.9	13.7	15.2	17.0	13.8	14.1	15.7	17.5
	SHG	11.8	10.9	9.5	8.2	12.9	12.2	10.6	9.0	13.8	13.5	11.7	9.7
	TC	11.6	12.7	14.2	15.9	12.7	13.4	15.0	16.7	13.5	13.9	15.4	17.2
	kW	1.55	1.57	1.60	1.62	1.56	1.58	1.61	1.63	1.58	1.59	1.62	1.63
	CMP	1.36	1.38	1.41	1.44	1.38	1.39	1.43	1.44	1.39	1.40	1.43	1.44
	LDB	46.9	49.9	54.1	58.2	51.0	52.8	56.7	60.7	54.2	54.9	58.6	62.7
	LWB	42.3	47.4	52.3	57.4	44.4	50.0	55.0	60.0	45.9	51.8	56.9	61.9
115	TCG	11.1	12.0	13.5	15.1	12.1	12.6	14.1	15.8	12.9	13.0	14.5	16.3
	SHG	11.1	10.4	9.1	7.7	12.1	11.7	10.1	8.5	12.9	13.0	11.1	9.2
	TC	10.8	11.7	13.2	14.8	11.9	12.3	13.8	15.5	12.7	12.7	14.3	16.0
	kW	1.71	1.72	1.76	1.80	1.73	1.74	1.77	1.81	1.74	1.75	1.79	1.81
	CMP	1.52	1.54	1.57	1.61	1.54	1.55	1.59	1.63	1.56	1.56	1.60	1.63
	LDB	49.0	51.2	55.3	59.5	52.8	53.9	57.9	61.9	55.8	55.8	59.6	63.5
	LWB	43.4	48.7	53.6	58.5	45.3	51.0	56.0	61.0	46.7	52.7	57.7	62.7
125	TCG	10.3	10.8	12.3	13.9	11.2	11.4	12.9	14.5	12.0	12.0	13.2	14.9
	SHG	10.3	9.9	8.6	7.2	11.2	11.1	9.6	8.0	12.0	12.0	10.6	8.6
	TC	10.0	10.6	12.1	13.6	11.0	11.2	12.6	14.2	11.7	11.7	13.0	14.6
	kW	1.89	1.90	1.93	1.98	1.90	1.91	1.95	2.00	1.92	1.92	1.96	2.01
	CMP	1.70	1.71	1.75	1.79	1.72	1.72	1.76	1.81	1.74	1.74	1.77	1.82
	LDB	51.3	52.7	56.7	60.8	54.9	55.2	59.0	63.0	57.6	57.7	60.6	64.5
	LWB	44.6	50.2	54.9	59.8	46.3	52.2	57.1	62.0	47.5	53.5	58.6	63.6

Rating Condition

Not recommended for long-term operation

*Refer to Systems Index Table on page

+ The 40QAQ024 unit must be field configured to an 018 size unit by changing the motor speed fan tap plug. Refer to Installation Instructions for more details.

LEGEND

- BF - Bypass Factor
- CMP - Compressor
- Edb - Entering Dry Bulb
- Ewb - Entering Wet Bulb
- kW - Total Power
- LDB - Leaving Dry Bulb
- LWB - Leaving Wet Bulb
- SHG - Gross Sensible Capacity (1000 Btu/hour)
- TC - Total Net Cooling Capacity (1000 Btu/hour)
- TCG - Gross Cooling Capacity (1000 Btu/hour)

NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. The SHG is based on 80 F edb temperature of air entering indoor coil.
Below 80 F edb, subtract (corr factor x cfm) from SHG.
Above 80 F edb, add (corr factor x cfm) to SHG.
Correction Factor = 1.10 x (1 - BF) x (edb - 80).

Cooling Capacities
38QR024 with 40QAQ024

Temp (F)	Air Entering Condenser (Edb)	Air Entering Evaporator - Cfm/BF											
		400/0.03				500/0.03				600/0.04			
		Air Entering Evaporator - Ewb (F)											
		57	62	67	72	57	62	67	72	57	62	67	72
55	TCG	20.5	22.4	24.1	25.3	21.5	23.4	24.7	25.3	21.7	23.9	25.1	26.0
	SHG	18.7	17.0	15.0	12.7	20.6	18.5	15.8	13.1	21.0	19.5	16.3	13.4
	TC	20.2	22.1	23.8	25.0	21.2	23.1	24.4	25.0	21.4	23.6	24.8	25.6
	kW	1.18	1.18	1.19	1.20	1.18	1.19	1.19	1.19	1.18	1.19	1.20	1.20
	CMP	0.99	1.00	1.00	1.01	0.99	1.00	1.01	1.00	0.99	1.00	1.01	1.01
	LDB	38.0	42.2	47.0	52.8	41.4	45.6	51.1	56.6	42.1	48.3	54.0	59.1
	LWB	35.3	40.5	46.3	52.8	38.5	43.8	49.9	56.5	39.2	46.1	52.1	58.4
65	TCG	19.7	21.7	23.7	25.3	20.7	22.8	24.6	25.8	21.0	23.4	25.1	26.1
	SHG	18.1	16.5	14.8	12.7	19.9	18.1	15.8	13.1	20.4	19.4	16.5	13.4
	TC	19.4	21.4	23.4	25.0	20.4	22.4	24.3	25.5	20.6	23.1	24.7	25.8
	kW	1.32	1.34	1.35	1.35	1.33	1.34	1.35	1.36	1.33	1.34	1.35	1.36
	CMP	1.13	1.15	1.16	1.17	1.15	1.16	1.16	1.16	1.15	1.16	1.17	1.18
	LDB	39.2	43.3	47.6	52.8	42.6	46.3	51.1	56.5	43.3	48.5	53.7	59.0
	LWB	36.4	41.3	46.7	52.8	39.3	44.4	50.0	56.2	39.9	46.5	52.2	58.3
75	TCG	18.9	20.8	23.0	24.9	19.8	21.9	24.0	25.7	19.9	22.6	24.6	26.1
	SHG	17.7	16.0	14.3	12.5	19.3	17.5	15.5	13.1	19.9	18.9	16.4	13.4
	TC	18.5	20.5	22.7	24.6	19.5	21.5	23.7	25.4	19.6	22.2	24.3	25.7
	kW	1.47	1.50	1.52	1.53	1.49	1.51	1.52	1.53	1.49	1.52	1.53	1.54
	CMP	1.29	1.32	1.33	1.34	1.30	1.33	1.34	1.35	1.30	1.33	1.34	1.35
	LDB	40.3	44.5	48.6	53.2	43.7	47.5	51.6	56.6	44.0	49.3	53.8	59.0
	LWB	37.4	42.4	47.5	53.1	40.2	45.2	50.5	56.3	40.9	47.2	52.5	58.4
85	TCG	18.0	19.9	22.0	24.2	18.8	20.8	23.1	25.1	19.1	21.5	23.7	25.6
	SHG	17.1	15.5	13.8	12.1	18.8	17.0	15.0	12.8	19.1	18.2	16.0	13.3
	TC	17.6	19.6	21.7	23.9	18.5	20.5	22.7	24.8	18.8	21.1	23.4	25.3
	kW	1.64	1.68	1.71	1.72	1.66	1.69	1.71	1.73	1.66	1.70	1.72	1.73
	CMP	1.46	1.49	1.52	1.53	1.47	1.51	1.53	1.54	1.48	1.52	1.53	1.54
	LDB	41.5	45.7	49.9	54.0	44.7	48.5	52.5	57.0	45.6	50.4	54.4	59.2
	LWB	38.5	43.5	48.5	53.8	41.2	46.2	51.3	56.7	41.7	48.0	53.1	58.6
95	TCG	17.0	18.8	20.9	23.2	18.0	19.7	21.9	24.1	18.3	20.3	23.3	24.7
	SHG	16.6	14.9	13.2	11.6	18.0	16.4	14.4	12.4	18.3	17.6	16.0	13.0
	TC	16.7	18.5	20.6	22.9	17.7	19.4	21.6	23.8	17.9	20.0	23.0	24.4
	kW	1.92	1.96	2.00	2.03	1.94	1.98	2.02	2.03	1.95	1.99	2.02	2.04
	CMP	1.74	1.78	1.82	1.84	1.76	1.79	1.83	1.85	1.76	1.81	1.84	1.85
	LDB	42.8	46.8	51.1	55.2	46.3	49.6	53.7	57.8	47.1	51.4	55.3	59.7
	LWB	39.7	44.6	49.6	54.7	42.0	47.2	52.2	57.4	42.5	48.9	53.9	59.2
105	TCG	15.9	17.7	19.7	22.0	17.1	18.5	20.6	22.9	17.4	19.0	21.2	23.5
	SHG	15.9	14.4	12.7	11.0	17.1	15.8	13.8	11.9	17.4	17.0	14.8	12.5
	TC	15.6	17.4	19.4	21.7	16.8	18.2	20.3	22.6	17.0	18.7	20.8	23.2
	kW	2.01	2.06	2.11	2.15	2.04	2.08	2.13	2.16	2.05	2.09	2.14	2.16
	CMP	1.83	1.87	1.92	1.96	1.86	1.89	1.94	1.97	1.86	1.91	1.96	1.98
	LDB	44.3	48.1	52.4	56.4	48.0	50.7	54.8	58.8	48.7	52.5	56.4	60.5
	LWB	41.0	45.8	50.8	55.8	42.9	48.2	53.2	58.3	43.3	49.8	54.8	59.9
115	TCG	15.0	16.5	18.4	20.6	16.1	17.2	19.2	21.5	16.4	17.7	19.7	22.1
	SHG	15.0	13.8	12.1	10.4	16.1	15.2	13.2	11.3	16.4	16.3	14.1	11.9
	TC	14.6	16.1	18.1	20.2	15.8	16.9	18.9	21.2	16.0	17.4	19.4	21.7
	kW	2.23	2.27	2.32	2.38	2.26	2.29	2.35	2.40	2.26	2.30	2.36	2.40
	CMP	2.04	2.08	2.14	2.20	2.07	2.10	2.16	2.21	2.08	2.12	2.18	2.21
	LDB	46.4	49.5	53.7	57.9	49.8	51.9	56.0	59.9	50.6	53.5	57.4	61.4
	LWB	42.1	47.2	52.1	57.1	43.8	49.3	54.3	59.3	44.2	50.8	55.8	60.8
125	TCG	14.0	15.1	17.0	19.1	15.0	15.7	17.7	19.8	15.3	16.2	18.1	20.4
	SHG	14.0	13.1	11.4	9.8	15.0	14.5	12.5	10.6	15.3	15.6	13.4	11.2
	TC	13.6	14.7	16.7	18.7	14.7	15.4	17.3	19.5	14.9	15.9	17.8	20.0
	kW	2.45	2.49	2.55	2.62	2.49	2.51	2.58	2.65	2.49	2.53	2.59	2.65
	CMP	2.27	2.30	2.36	2.44	2.30	2.32	2.39	2.46	2.31	2.34	2.41	2.47
	LDB	48.8	50.9	55.1	59.2	51.9	53.2	57.2	61.2	52.6	54.8	58.6	62.5
	LWB	43.3	48.6	53.4	58.4	44.8	50.6	55.4	60.4	45.2	51.8	56.8	61.7

Rating Condition

Not recommended for long-term operation

*Refer to Systems Index Table on page

NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. The SHG is based on 80 F edb temperature of air entering indoor coil.
Below 80 F edb, subtract (corr factor x cfm) from SHG.
Above 80 F edb, add (corr factor x cfm) to SHG.
Correction Factor = 1.10 x (1 - BF) x (edb - 80).

LEGEND

- BF - Bypass Factor
- CMP - Compressor
- Edb - Entering Dry Bulb
- Ewb - Entering Wet Bulb
- kW - Total Power
- LDB - Leaving Dry Bulb
- LWB - Leaving Wet Bulb
- SHG - Gross Sensible Capacity (1000 Btu/hour)
- TC - Total Net Cooling Capacity (1000 Btu/hour)
- TCG - Gross Cooling Capacity (1000 Btu/hour)

Cooling Capacities
38QR030 with 40QAQ036

Temp (F)	Air Entering Condenser (Edb)	Air Entering Evaporator - Cfm/BF											
		640/0.02				740/0.02				840/0.03			
		Air Entering Evaporator - Ewb (F)											
		57	62	67	72	57	62	67	72	57	62	67	72
55	TCG	26.4	29.0	31.1	32.5	28.0	29.9	31.7	32.9	29.3	30.5	32.1	33.1
	SHG	26.4	23.7	20.4	16.7	28.0	25.8	21.5	17.2	29.3	27.4	22.3	17.5
	TC	25.7	28.2	30.4	31.8	27.3	29.2	31.0	32.1	28.6	29.8	31.3	32.4
	kW	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
	CMP	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24	1.24
	LDB	42.7	46.9	52.0	57.7	46.7	49.7	55.2	60.7	49.9	52.2	57.8	63.0
	LWB	40.2	45.3	50.9	57.1	42.2	47.8	53.6	59.7	43.8	49.7	55.5	61.5
65	TCG	25.4	28.0	30.6	32.6	27.1	29.0	31.4	33.1	28.5	29.7	32.0	33.4
	SHG	25.4	23.1	20.3	16.8	27.1	25.3	21.7	17.4	28.5	27.2	22.8	17.9
	TC	24.7	27.2	29.8	31.8	26.4	28.2	30.7	32.3	27.8	29.0	31.2	32.6
	kW	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
	CMP	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
	LDB	44.1	47.8	52.2	57.5	47.7	50.2	55.0	60.4	50.7	52.3	57.2	62.6
	LWB	40.9	46.0	51.3	57.1	42.8	48.3	53.7	59.6	44.3	50.1	55.5	61.4
75	TCG	24.5	26.8	29.5	32.0	26.1	27.7	30.4	32.7	27.5	28.5	31.1	33.1
	SHG	24.5	22.4	19.7	16.6	26.1	24.6	21.3	17.4	27.5	26.6	22.7	18.0
	TC	23.8	26.0	28.7	31.2	25.4	27.0	29.7	31.9	26.7	27.7	30.4	32.4
	kW	1.92	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
	CMP	1.57	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
	LDB	45.4	48.8	53.0	57.8	49.0	51.1	55.4	60.5	51.8	52.9	57.3	62.5
	LWB	41.6	46.8	51.9	57.4	43.4	49.0	54.2	59.8	44.8	50.7	55.9	61.5
85	TCG	23.5	25.4	28.2	30.9	25.1	26.3	29.1	31.7	26.3	27.0	29.8	32.3
	SHG	23.5	21.7	19.0	16.2	25.1	23.8	20.7	17.1	26.3	25.7	22.3	17.9
	TC	22.8	24.7	27.4	30.2	24.3	25.6	28.4	31.0	25.6	26.3	29.1	31.5
	kW	2.11	2.12	2.13	2.13	2.12	2.12	2.13	2.13	2.12	2.12	2.13	2.13
	CMP	1.76	1.77	1.78	1.78	1.77	1.77	1.78	1.78	1.77	1.78	1.78	1.78
	LDB	46.8	49.7	53.9	58.4	50.3	52.0	56.1	60.8	53.1	53.9	57.8	62.6
	LWB	42.3	47.7	52.7	58.0	44.0	49.8	54.8	60.2	45.4	51.3	56.4	61.8
95	TCG	22.4	23.9	26.6	29.5	23.9	24.8	27.5	30.4	25.1	25.5	28.7	31.0
	SHG	22.4	21.0	18.3	15.6	23.9	23.0	19.9	16.6	25.1	24.9	22.0	17.5
	TC	21.7	23.2	25.8	28.8	23.1	24.0	26.7	29.7	24.3	24.7	28.0	30.3
	kW	2.46	2.47	2.49	2.50	2.47	2.48	2.50	2.50	2.48	2.48	2.50	2.51
	CMP	2.11	2.12	2.14	2.15	2.12	2.13	2.15	2.15	2.13	2.13	2.15	2.16
	LDB	48.5	50.8	55.0	59.3	51.7	52.9	57.1	61.3	54.4	54.7	58.5	63.0
	LWB	43.1	48.7	53.7	58.8	44.8	50.6	55.6	60.8	46.0	52.0	57.1	62.2
105	TCG	21.2	22.3	24.9	27.7	22.6	23.1	25.7	28.7	23.7	23.8	26.3	29.3
	SHG	21.2	20.2	17.5	14.8	22.6	22.2	19.1	16.0	23.7	23.8	20.7	16.9
	TC	20.4	21.5	24.2	27.0	21.8	22.3	25.0	27.9	23.0	23.0	25.5	28.6
	kW	2.53	2.54	2.57	2.60	2.54	2.55	2.57	2.60	2.55	2.55	2.58	2.60
	CMP	2.18	2.19	2.22	2.25	2.19	2.20	2.22	2.25	2.20	2.20	2.23	2.25
	LDB	50.3	51.9	56.1	60.4	53.3	54.0	57.9	62.1	55.8	55.9	59.4	63.5
	LWB	44.0	49.7	54.6	59.7	45.5	51.5	56.5	61.5	46.7	52.7	57.8	62.9
115	TCG	19.8	20.4	23.0	25.8	21.1	21.2	23.7	26.5	22.2	22.2	24.2	27.1
	SHG	19.8	19.4	16.7	14.0	21.1	21.2	18.3	15.1	22.2	22.2	19.8	16.1
	TC	19.1	19.7	22.2	25.0	20.4	20.4	23.0	25.8	21.4	21.5	23.5	26.4
	kW	2.75	2.77	2.80	2.84	2.78	2.78	2.81	2.85	2.79	2.79	2.82	2.86
	CMP	2.40	2.42	2.45	2.49	2.43	2.43	2.46	2.50	2.44	2.44	2.47	2.51
	LDB	52.3	53.1	57.2	61.4	55.1	55.1	59.0	63.1	57.4	57.5	60.3	64.4
	LWB	45.0	50.9	55.7	60.7	46.4	52.4	57.4	62.4	47.4	53.4	58.6	63.6
125	TCG	18.3	18.4	20.8	23.6	19.5	19.5	21.5	24.3	20.5	20.5	21.9	24.8
	SHG	18.3	18.4	15.8	13.2	19.5	19.5	17.3	14.2	20.5	20.5	18.8	15.2
	TC	17.6	17.6	20.1	22.9	18.8	18.8	20.7	23.5	19.7	19.8	21.2	24.0
	kW	3.01	3.01	3.06	3.10	3.03	3.03	3.07	3.11	3.05	3.05	3.08	3.12
	CMP	2.66	2.66	2.71	2.75	2.68	2.68	2.72	2.76	2.70	2.70	2.73	2.77
	LDB	54.4	54.5	58.4	62.6	57.1	57.2	60.0	64.1	59.2	59.3	61.3	65.3
	LWB	46.1	52.2	56.9	61.8	47.3	53.3	58.4	63.3	48.3	54.2	59.5	64.4

Rating Condition

Not recommended for long-term operation

*Refer to Systems Index Table on page

NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. The SHG is based on 80 F edb temperature of air entering indoor coil.
Below 80 F edb, subtract (corr factor x cfm) from SHG.
Above 80 F edb, add (corr factor x cfm) to SHG.
Correction Factor = 1.10 x (1 - BF) x (edb - 80).

LEGEND

- BF - Bypass Factor
- CMP - Compressor
- Edb - Entering Dry Bulb
- Ewb - Entering Wet Bulb
- kW - Total Power
- LDB - Leaving Dry Bulb
- LWB - Leaving Wet Bulb
- SHG - Gross Sensible Capacity (1000 Btu/hour)
- TC - Total Net Cooling Capacity (1000 Btu/hour)
- TCG - Gross Cooling Capacity (1000 Btu/hour)

Cooling Capacities
38QRR036 with 40QAQ036

Temp (F)	Air Entering Condenser (Edb)	Air Entering Evaporator - Cfm/BF											
		640/0.02				740/0.02				840/0.03			
		Air Entering Evaporator - Ewb (F)											
		57	62	67	72	57	62	67	72	57	62	67	72
55	TCG	29.9	32.6	34.8	36.0	31.0	33.7	35.4	36.4	32.3	34.4	35.8	36.6
	SHG	27.9	25.4	22.1	18.4	30.9	27.3	23.0	18.8	32.3	28.8	23.7	19.1
	TC	29.2	31.8	34.0	35.3	30.3	33.0	34.7	35.7	31.5	33.7	35.0	35.9
	kW	1.70	1.70	1.70	1.71	1.70	1.70	1.71	1.71	1.70	1.70	1.71	1.71
	CMP	1.35	1.35	1.35	1.36	1.35	1.35	1.36	1.36	1.35	1.35	1.36	1.36
	LDB	40.5	44.5	49.6	55.3	43.2	47.8	53.4	58.8	46.8	50.7	56.4	61.4
65	LWB	37.5	42.7	48.6	55.2	40.4	45.7	51.7	58.1	42.3	47.9	54.0	60.2
	TCG	28.9	31.7	34.4	36.4	30.0	32.9	35.3	36.9	31.4	33.8	35.9	37.3
	SHG	27.2	24.8	21.9	18.5	30.0	27.0	23.2	19.1	31.4	28.9	24.2	19.5
	TC	28.1	30.9	33.6	35.6	29.2	32.2	34.6	36.2	30.7	33.1	35.2	36.6
	kW	1.90	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.91	1.92
	CMP	1.55	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.57
75	LDB	41.5	45.4	49.9	55.1	44.3	48.2	53.1	58.5	47.7	50.6	55.8	61.0
	LWB	38.3	43.4	48.9	55.0	41.0	46.1	51.7	57.9	42.7	48.2	53.9	60.0
	TCG	27.7	30.5	33.5	36.0	28.9	31.8	34.6	36.7	30.4	32.7	35.4	37.1
	SHG	26.5	24.0	21.4	18.3	28.9	26.3	23.0	19.0	30.4	28.4	24.2	19.5
	TC	27.0	29.8	32.7	35.2	28.1	31.0	33.9	35.9	29.6	31.9	34.6	36.4
	kW	2.10	2.14	2.14	2.14	2.12	2.14	2.14	2.15	2.14	2.14	2.14	2.15
85	CMP	1.75	1.79	1.79	1.79	1.77	1.79	1.79	1.80	1.79	1.79	1.79	1.80
	LDB	42.6	46.5	50.6	55.4	45.6	49.0	53.4	58.6	48.8	51.1	55.8	61.0
	LWB	39.2	44.2	49.4	55.2	41.7	46.8	52.1	58.0	43.3	48.7	54.1	60.0
	TCG	26.4	29.2	32.3	35.2	27.8	30.4	33.4	36.1	29.2	31.2	34.3	36.7
	SHG	25.7	23.2	20.7	17.9	27.8	25.4	22.5	18.8	29.2	27.5	23.9	19.5
	TC	25.7	28.5	31.5	34.4	27.0	29.6	32.7	35.4	28.5	30.5	33.6	36.0
95	kW	2.33	2.36	2.39	2.40	2.34	2.38	2.40	2.40	2.37	2.39	2.40	2.40
	CMP	1.98	2.01	2.04	2.05	1.99	2.03	2.05	2.05	2.02	2.04	2.05	2.05
	LDB	43.7	47.6	51.6	55.9	47.0	50.1	54.0	58.8	50.0	52.1	56.1	61.0
	LWB	40.2	45.1	50.2	55.7	42.4	47.6	52.7	58.2	43.9	49.4	54.5	60.2
	TCG	24.9	27.7	30.7	33.9	26.6	28.8	31.9	35.0	28.0	29.6	33.7	35.8
	SHG	24.9	22.5	19.9	17.3	26.6	24.5	21.6	18.4	28.0	26.5	23.9	19.2
105	TC	24.2	27.0	30.0	33.2	25.9	28.0	31.1	34.3	27.3	28.9	33.0	35.1
	kW	2.73	2.77	2.82	2.84	2.75	2.79	2.84	2.84	2.78	2.80	2.84	2.85
	CMP	2.38	2.42	2.47	2.49	2.40	2.44	2.49	2.49	2.43	2.45	2.49	2.50
	LDB	44.9	48.7	52.8	56.8	48.4	51.2	55.1	59.3	51.3	53.1	56.8	61.3
	LWB	41.3	46.1	51.2	56.4	43.1	48.4	53.5	58.7	44.5	50.1	55.2	60.5
	TCG	23.7	26.0	29.0	32.2	25.3	27.1	30.1	33.4	26.6	27.8	30.9	34.3
115	SHG	23.7	21.6	19.0	16.5	25.3	23.6	20.6	17.7	26.6	25.5	22.3	18.7
	TC	22.9	25.3	28.2	31.5	24.5	26.3	29.3	32.7	25.9	27.1	30.1	33.5
	kW	2.84	2.88	2.93	2.99	2.86	2.90	2.96	3.00	2.89	2.91	2.97	3.00
	CMP	2.49	2.53	2.58	2.64	2.51	2.55	2.61	2.65	2.54	2.56	2.62	2.65
	LDB	46.7	49.9	54.0	58.0	50.0	52.2	56.2	60.1	52.7	54.1	57.7	61.8
	LWB	42.2	47.3	52.2	57.3	43.9	49.4	54.4	59.5	45.2	50.9	56.0	61.1
125	TCG	22.3	24.1	27.1	30.2	23.8	25.1	28.1	31.3	25.1	25.9	28.8	32.2
	SHG	22.3	20.7	18.2	15.6	23.8	22.7	19.7	16.8	25.1	24.5	21.2	17.9
	TC	21.5	23.4	26.4	29.5	23.1	24.4	27.3	30.6	24.4	25.1	28.0	31.4
	kW	3.14	3.17	3.23	3.30	3.16	3.19	3.25	3.33	3.19	3.20	3.27	3.34
	CMP	2.79	2.82	2.88	2.95	2.81	2.84	2.90	2.98	2.84	2.85	2.92	2.99
	LDB	48.7	51.2	55.2	59.2	51.8	53.4	57.3	61.2	54.3	55.1	58.8	62.6
125	LWB	43.2	48.5	53.4	58.4	44.8	50.4	55.3	60.4	46.0	51.8	56.8	61.8
	TCG	20.7	22.0	24.9	28.0	22.2	22.9	25.8	28.9	23.4	23.6	26.5	29.7
	SHG	20.7	19.8	17.2	14.6	22.2	21.7	18.8	15.8	23.4	23.6	20.2	16.9
	TC	20.0	21.3	24.2	27.2	21.4	22.2	25.1	28.2	22.7	22.8	25.7	28.9
	kW	3.47	3.49	3.55	3.63	3.49	3.50	3.57	3.66	3.52	3.52	3.59	3.68
	CMP	3.12	3.14	3.20	3.28	3.14	3.15	3.22	3.31	3.17	3.17	3.24	3.33
125	LDB	50.9	52.5	56.5	60.6	53.8	54.6	58.4	62.3	56.1	56.1	59.8	63.6
	LWB	44.4	49.9	54.6	59.6	45.7	51.6	56.4	61.4	46.8	52.8	57.7	62.7

Rating Condition

Not recommended for long-term operation

*Refer to Systems Index Table on page

NOTES:

1. Direct interpolation is permissible. Do not extrapolate.
2. The SHG is based on 80 F edb temperature of air entering indoor coil.
Below 80 F edb, subtract (corr factor x cfm) from SHG.
Above 80 F edb, add (corr factor x cfm) to SHG.
Correction Factor = 1.10 x (1 - BF) x (edb - 80).

LEGEND

- BF - Bypass Factor
- CMP - Compressor
- Edb - Entering Dry Bulb
- Ewb - Entering Wet Bulb
- kW - Total Power
- LDB - Leaving Dry Bulb
- LWB - Leaving Wet Bulb
- SHG - Gross Sensible Capacity (1000 Btu/hour)
- TC - Total Net Cooling Capacity (1000 Btu/hour)
- TCG - Gross Cooling Capacity (1000 Btu/hour)

Cooling Capacities
38QR048 with 40QAQ048

Temp (F)	Air Entering Condenser (Edb)	Air Entering Evaporator - Cfm/BF											
		1100/0.05				1160/0.05				1200/0.06			
		Air Entering Evaporator - Ewb (F)											
		57	62	67	72	57	62	67	72	57	62	67	72
55	TCG	43.5	45.4	47.0	48.4	44.2	46.3	47.8	49.2	45.0	46.8	48.3	49.7
	SHG	40.9	35.0	29.8	24.8	43.9	36.7	30.8	25.8	45.0	38.0	31.6	26.2
	TC	42.4	44.3	45.8	47.3	43.1	45.1	46.6	48.0	43.9	45.7	47.2	48.5
	kW	2.44	2.44	2.44	2.44	2.43	2.44	2.44	2.44	2.43	2.44	2.44	2.43
	CMP	2.09	2.09	2.09	2.09	2.08	2.09	2.09	2.09	2.08	2.09	2.09	2.08
	LDB	35.6	42.5	48.7	54.6	39.8	46.9	52.7	57.7	43.4	49.6	55.2	59.9
LWB	34.7	41.1	47.8	54.6	38.5	44.6	51.1	57.5	40.6	46.7	53.0	59.3	
65	TCG	42.4	45.1	47.0	48.8	44.0	46.1	48.0	49.8	45.1	46.8	48.6	50.3
	SHG	40.4	35.1	30.0	25.0	44.0	37.2	31.3	26.1	45.1	38.7	32.2	26.6
	TC	41.3	44.0	45.9	47.7	42.9	45.0	46.8	48.6	43.9	45.7	47.5	49.2
	kW	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.75	2.76	2.76	2.76
	CMP	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.40	2.41	2.41	2.41
	LDB	36.2	42.4	48.5	54.4	39.7	46.4	52.3	57.4	43.4	49.0	54.7	59.6
LWB	35.4	41.3	47.8	54.4	38.6	44.7	51.0	57.3	40.6	46.7	52.9	59.1	
75	TCG	40.7	44.6	46.6	48.6	43.2	45.7	47.6	49.4	44.6	46.4	48.2	49.9
	SHG	39.2	35.2	30.1	24.9	43.2	37.5	31.3	26.1	44.6	39.2	32.3	26.5
	TC	39.5	43.5	45.5	47.5	42.1	44.6	46.5	48.2	43.4	45.2	47.1	48.8
	kW	3.09	3.11	3.11	3.11	3.11	3.11	3.11	3.11	3.11	3.11	3.11	3.11
	CMP	2.74	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
	LDB	37.5	42.4	48.3	54.5	40.4	46.2	52.2	57.5	43.8	48.5	54.6	59.7
LWB	36.5	41.6	48.0	54.5	39.0	44.9	51.1	57.5	40.8	46.9	53.0	59.2	
85	TCG	38.7	42.8	46.3	48.1	41.3	44.9	47.3	49.0	43.6	45.7	47.7	49.5
	SHG	38.1	34.3	29.7	24.7	41.3	37.6	31.4	25.9	43.6	39.5	32.7	26.3
	TC	37.6	41.7	45.2	47.0	40.1	43.7	46.1	47.8	42.4	44.5	46.5	48.3
	kW	3.43	3.48	3.50	3.50	3.48	3.49	3.50	3.51	3.50	3.49	3.50	3.50
	CMP	3.08	3.13	3.15	3.15	3.13	3.14	3.15	3.16	3.15	3.14	3.15	3.15
	LDB	38.7	43.2	48.8	54.7	42.3	46.0	52.1	57.6	44.7	48.3	54.3	59.8
LWB	37.7	42.6	48.1	54.7	40.0	45.3	51.3	57.6	41.2	47.1	53.2	59.3	
95	TCG	36.8	40.6	45.1	47.5	39.4	42.4	46.5	48.3	41.4	43.9	46.1	48.9
	SHG	36.8	33.2	29.4	24.2	39.4	36.3	31.1	25.6	41.4	39.0	31.8	26.2
	TC	35.6	39.5	44.0	46.4	38.2	41.3	45.3	47.1	40.3	42.8	45.0	47.7
	kW	3.80	3.86	3.89	3.92	3.86	3.89	3.89	3.92	3.89	3.90	3.90	3.93
	CMP	3.45	3.51	3.54	3.57	3.51	3.54	3.54	3.57	3.54	3.55	3.55	3.58
	LDB	40.2	44.5	49.1	55.3	44.1	47.2	52.4	57.8	46.4	48.7	54.5	59.9
LWB	38.9	43.8	48.7	55.0	40.9	46.3	51.6	57.8	42.1	47.8	53.4	59.5	
105	TCG	34.7	38.3	42.7	46.4	37.4	40.0	44.6	47.3	39.3	41.1	45.6	47.8
	SHG	34.7	32.0	28.2	23.6	37.4	35.1	30.7	24.9	39.3	37.5	32.2	25.8
	TC	33.6	37.1	41.6	45.2	36.2	38.8	43.5	46.1	38.1	39.9	44.5	46.6
	kW	4.23	4.26	4.35	4.37	4.28	4.30	4.37	4.38	4.31	4.32	4.37	4.38
	CMP	3.88	3.91	4.00	4.02	3.93	3.95	4.02	4.03	3.96	3.97	4.02	4.03
	LDB	42.4	45.8	50.4	55.8	45.9	48.3	52.8	58.6	48.2	49.9	54.6	60.2
LWB	40.1	45.1	49.9	55.5	41.9	47.4	52.3	58.2	43.0	48.9	53.9	59.8	
115	TCG	33.0	35.6	40.0	44.6	35.3	37.3	41.8	45.5	37.0	38.3	42.9	46.0
	SHG	33.0	30.8	27.0	23.1	35.3	33.8	29.3	24.1	37.0	36.1	31.2	25.0
	TC	31.8	34.5	38.8	43.4	34.2	36.1	40.7	44.3	35.8	37.2	41.7	44.9
	kW	4.65	4.69	4.78	4.85	4.72	4.73	4.83	4.85	4.76	4.75	4.85	4.86
	CMP	4.30	4.34	4.43	4.50	4.37	4.38	4.48	4.50	4.41	4.40	4.50	4.51
	LDB	44.4	47.2	51.7	56.4	47.9	49.5	54.0	59.2	50.1	51.0	55.4	60.9
LWB	41.1	46.5	51.2	56.2	42.8	48.6	53.4	58.8	44.0	49.9	54.8	60.4	
125	TCG	30.8	32.6	37.0	41.7	33.1	34.2	38.6	43.0	34.6	35.3	39.7	43.4
	SHG	30.8	29.3	25.7	21.9	33.1	32.4	28.0	23.2	34.6	34.6	29.8	24.1
	TC	29.6	31.4	35.9	40.5	31.9	33.1	37.5	41.8	33.4	34.1	38.5	42.3
	kW	5.13	5.16	5.25	5.36	5.19	5.19	5.30	5.36	5.24	5.22	5.33	5.37
	CMP	4.78	4.81	4.90	5.01	4.84	4.84	4.95	5.01	4.89	4.87	4.98	5.02
	LDB	46.9	48.8	53.1	57.7	50.0	50.8	55.3	60.1	52.1	52.3	56.6	61.6
LWB	42.3	48.0	52.6	57.5	43.9	49.8	54.6	59.7	44.9	51.0	55.8	61.1	

Rating Condition
 Not recommended for long-term operation

LEGEND
 BF - Bypass Factor
 CMP - Compressor
 Edb - Entering Dry Bulb
 Ewb - Entering Wet Bulb
 kW - Total Power
 LDB - Leaving Dry Bulb
 LWB - Leaving Wet Bulb
 SHG - Gross Sensible Capacity (1000 Btu/hour)
 TC - Total Net Cooling Capacity (1000 Btu/hour)
 TCG - Gross Cooling Capacity (1000 Btu/hour)

*Refer to Systems Index Table on page
 NOTES:
 1. Direct interpolation is permissible. Do not extrapolate.
 2. The SHG is based on 80 F edb temperature of air entering indoor coil.
 Below 80 F edb, subtract (corr factor x cfm) from SHG.
 Above 80 F edb, add (corr factor x cfm) to SHG.
 Correction Factor = 1.10 x (1 - BF) x (edb - 80).

Cooling Capacities
38QR060 with 40QAQ060

Temp (F)	Air Entering Condenser (Edb)	Air Entering Evaporator - Cfm/BF											
		1040/0.03				1220/0.04				1600/0.06			
		Air Entering Evaporator - Ewb (F)											
		57	62	67	72	57	62	67	72	57	62	67	72
55	TCG	51.5	56.2	61.5	67.3	54.5	59.2	64.6	70.6	60.6	63.8	69.4	75.5
	SHG	49.4	44.6	39.6	33.8	54.0	48.6	42.6	36.0	60.6	56.3	48.5	40.2
	TC	50.3	55.0	60.3	66.0	53.3	58.0	63.4	69.3	59.4	62.5	68.2	74.3
	kW	3.01	3.05	3.10	3.15	3.03	3.08	3.13	3.18	3.09	3.12	3.17	3.23
	CMP	2.66	2.70	2.75	2.80	2.68	2.73	2.78	2.83	2.74	2.77	2.82	2.88
	LDB	37.5	42.2	46.9	52.4	40.4	44.7	49.6	54.9	46.0	48.7	53.5	58.5
	LWB	36.4	41.6	46.9	52.4	38.8	44.1	49.4	54.9	41.9	47.7	53.1	58.5
65	TCG	49.7	54.2	59.2	64.8	52.5	56.9	62.1	67.8	58.5	61.2	66.5	72.4
	SHG	48.1	43.5	38.5	32.7	52.5	47.3	41.4	34.9	58.5	54.9	47.1	39.0
	TC	48.5	53.0	57.9	63.6	51.3	55.7	60.9	66.6	57.3	59.9	65.3	71.2
	kW	3.36	3.40	3.45	3.50	3.38	3.43	3.47	3.53	3.44	3.47	3.52	3.57
	CMP	3.01	3.05	3.10	3.15	3.03	3.08	3.12	3.18	3.09	3.12	3.17	3.22
	LDB	38.7	43.1	47.8	53.3	41.4	45.7	50.4	55.7	47.2	49.5	54.3	59.1
	LWB	37.3	42.5	47.9	53.3	39.5	44.9	50.2	55.7	42.5	48.4	53.7	59.1
75	TCG	47.8	52.0	56.8	62.1	50.7	54.5	59.5	65.0	56.4	58.5	63.6	69.1
	SHG	46.8	42.2	37.2	31.6	50.7	46.1	40.1	33.7	56.4	53.4	45.7	37.7
	TC	46.6	50.8	55.6	60.9	49.4	53.3	58.3	63.7	55.1	57.2	62.4	67.9
	kW	3.74	3.78	3.83	3.89	3.77	3.81	3.86	3.91	3.83	3.85	3.90	3.96
	CMP	3.39	3.43	3.48	3.54	3.42	3.46	3.51	3.56	3.48	3.50	3.55	3.61
	LDB	39.9	44.2	48.9	54.2	42.8	46.6	51.4	56.5	48.4	50.3	55.0	59.9
	LWB	38.2	43.5	48.8	54.2	40.3	45.8	51.1	56.5	43.1	49.1	54.4	59.8
85	TCG	46.0	49.7	54.3	59.4	48.8	52.1	56.8	61.9	54.1	55.7	60.5	65.7
	SHG	45.7	41.0	36.0	30.5	48.8	44.7	38.8	32.5	54.1	51.8	44.2	36.3
	TC	44.8	48.5	53.1	58.1	47.5	50.8	55.6	60.7	52.9	54.4	59.2	64.5
	kW	4.17	4.21	4.26	4.31	4.20	4.24	4.28	4.34	4.26	4.27	4.32	4.37
	CMP	3.82	3.86	3.91	3.96	3.85	3.89	3.93	3.99	3.91	3.92	3.97	4.02
	LDB	40.8	45.3	50.0	55.2	44.3	47.6	52.3	57.4	49.7	51.2	55.9	60.6
	LWB	39.1	44.5	49.8	55.2	41.0	46.6	51.9	57.4	43.8	49.8	55.1	60.5
95	TCG	43.9	47.4	51.7	56.5	46.8	49.4	53.9	58.7	51.7	52.8	57.2	62.1
	SHG	43.9	40.0	34.7	29.3	46.8	43.3	37.4	31.3	51.7	50.1	42.6	34.8
	TC	42.7	46.2	50.5	55.2	45.5	48.2	52.7	57.5	50.4	51.5	56.0	60.9
	kW	4.77	4.81	4.85	4.90	4.80	4.83	4.88	4.93	4.85	4.86	4.91	4.96
	CMP	4.42	4.46	4.50	4.55	4.45	4.48	4.53	4.58	4.50	4.51	4.56	4.61
	LDB	42.4	46.2	51.1	56.2	45.8	48.6	53.4	58.2	51.1	52.2	56.7	61.4
	LWB	40.0	45.4	50.8	56.2	41.8	47.5	52.8	58.2	44.4	50.5	55.8	61.2
105	TCG	42.0	44.9	48.9	53.3	44.6	46.6	50.9	55.3	49.1	49.7	53.8	58.3
	SHG	42.0	38.6	33.3	28.1	44.6	41.7	36.0	30.0	49.1	48.2	41.0	33.3
	TC	40.8	43.6	47.6	52.1	43.3	45.4	49.6	54.1	47.9	48.5	52.5	57.1
	kW	5.16	5.19	5.22	5.27	5.18	5.20	5.24	5.29	5.22	5.23	5.27	5.31
	CMP	4.81	4.84	4.87	4.92	4.83	4.85	4.89	4.94	4.87	4.88	4.92	4.96
	LDB	44.1	47.3	52.3	57.2	47.4	49.8	54.4	59.2	52.6	53.3	57.6	62.3
	LWB	40.9	46.5	51.8	57.2	42.6	48.5	53.8	59.2	45.2	51.3	56.6	62.0
115	TCG	39.8	42.0	45.8	49.9	42.2	43.6	47.5	51.6	46.3	46.4	50.0	54.0
	SHG	39.8	37.0	31.8	26.7	42.2	40.0	34.3	28.5	46.3	46.4	39.2	31.5
	TC	38.5	40.8	44.6	48.6	40.9	42.4	46.3	50.4	45.1	45.2	48.8	52.8
	kW	5.70	5.72	5.75	5.80	5.72	5.74	5.77	5.81	5.76	5.76	5.79	5.83
	CMP	5.35	5.37	5.40	5.45	5.37	5.39	5.42	5.46	5.41	5.41	5.44	5.48
	LDB	46.0	48.7	53.6	58.4	49.2	51.1	55.6	60.3	54.2	54.2	58.6	63.2
	LWB	41.9	47.7	53.0	58.4	43.5	49.5	54.8	60.2	45.9	52.1	57.4	62.8
125	TCG	37.2	38.8	42.3	45.9	39.4	40.3	43.7	47.2	43.0	43.1	45.6	49.0
	SHG	37.2	35.1	30.1	25.2	39.4	38.1	32.5	26.7	43.0	42.8	37.1	29.5
	TC	36.0	37.6	41.0	44.6	38.2	39.1	42.5	46.0	41.8	41.9	44.4	47.8
	kW	6.27	6.29	6.31	6.35	6.28	6.29	6.32	6.36	6.32	6.31	6.34	6.37
	CMP	5.92	5.94	5.96	6.00	5.93	5.94	5.97	6.01	5.97	5.96	5.99	6.02
	LDB	48.3	50.4	55.1	59.7	51.3	52.5	56.9	61.5	56.1	56.3	59.8	64.4
	LWB	43.1	48.9	54.2	59.7	44.5	50.6	55.9	61.3	46.8	52.9	58.4	63.8

Rating Condition

Not recommended for long-term operation

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