

COOLING PERFORMANCE DATA

Model	Cooling			Outdoor conditions (DB)																	
	Indoor Conditions			-13°F	-4°F	0°F	5°F	17°F	25°F	35°F	47°F	55°F	65°F	75°F	80°F	85°F	95°F	105°F	110°F	115°F	122°F
	DB	WB		-25°C	-20°C	-17.8°C	-15°C	-8.3°C	-3.9°C	1.7°C	8.3°C	12.8°C	18.3°C	24°C	26.7°C	29.4°C	35°C	40.5°C	43.3°C	46°C	50°C
TPA-09 CZP09CD(O) (208-230V)	65°F (18.3°C)	54°F(12.2°C)	TC	9.70	9.91	10.21	10.47	10.08	10.03	10.16	10.04	10.45	10.67	10.72	10.63	10.60	10.27	9.77	9.10	8.62	7.74
			SC	6.31	6.36	6.64	7.29	7.00	7.38	7.56	7.27	7.87	8.18	8.57	8.15	8.29	8.27	8.26	8.02	8.18	7.75
			Input	0.51	0.56	0.60	0.63	0.62	0.65	0.67	0.70	0.75	0.76	0.78	0.79	0.88	1.00	0.99	0.95	1.01	0.99
	70°F (21.1°C)	59°F (15°C)	TC	10.14	10.50	10.74	11.13	10.67	10.61	10.61	10.66	11.08	11.25	11.23	11.24	11.04	10.71	10.38	9.60	9.09	8.10
			SC	6.56	6.70	6.96	7.71	7.37	7.76	7.85	7.68	8.31	8.58	8.93	8.56	8.60	8.57	8.72	8.41	8.56	8.07
			Input	0.50	0.56	0.60	0.63	0.63	0.65	0.68	0.70	0.75	0.77	0.78	0.80	0.88	0.99	1.00	0.96	1.01	0.98
	75°F (23.9°C)	63°F(17.2°C)	TC	10.77	11.08	11.26	11.62	11.35	11.28	11.16	11.25	11.58	11.79	11.91	11.94	11.60	11.29	10.93	10.16	9.47	8.54
			SC	6.94	7.04	7.25	7.99	7.79	8.21	8.22	8.07	8.63	8.95	9.42	9.05	8.98	8.99	9.13	8.86	8.88	8.48
			Input	0.51	0.56	0.59	0.62	0.64	0.66	0.67	0.70	0.73	0.76	0.78	0.80	0.88	0.99	1.00	0.96	0.99	0.97
	80°F (26.7°C)	67°F(19.4°C)	TC	11.30	11.78	11.94	12.14	11.92	11.78	11.65	11.95	12.13	12.32	12.51	12.70	12.33	12.01	11.47	10.81	10.08	8.99
			SC	7.25	7.43	7.64	8.32	8.14	8.52	8.54	8.52	8.99	9.30	9.84	9.58	9.49	9.51	9.52	9.36	9.39	8.89
			Input	0.51	0.56	0.59	0.63	0.64	0.65	0.67	0.70	0.73	0.76	0.78	0.82	0.95	0.99	0.99	0.97	1.00	0.98
TPA-12 CZP12CD(O) (208-230V)	65°F (18.3°C)	54°F(12.2°C)	TC	10.39	10.94	11.28	11.22	11.20	11.40	11.74	11.18	11.57	11.29	11.25	11.28	11.70	12.46	11.99	11.21	10.41	9.24
			SC	6.51	7.39	7.77	7.76	7.82	8.35	8.84	8.21	9.02	8.73	8.58	8.61	9.47	10.23	10.21	9.98	9.69	9.23
			Input	0.58	0.64	0.70	0.72	0.78	0.79	0.86	0.86	0.91	0.91	0.96	0.96	1.05	1.24	1.21	1.16	1.26	1.25
	70°F (21.1°C)	59°F (15°C)	TC	11.01	11.42	11.80	11.76	11.87	11.97	12.38	11.86	12.11	12.02	11.96	11.94	12.45	13.06	12.61	11.85	10.90	9.66
			SC	6.85	7.67	8.08	8.10	8.24	8.71	9.27	8.66	9.40	9.24	9.07	9.06	10.03	10.66	10.68	10.48	10.10	9.60
			Input	0.58	0.64	0.69	0.72	0.79	0.80	0.85	0.86	0.92	0.93	0.96	0.97	1.07	1.23	1.21	1.18	1.26	1.24
	75°F (23.9°C)	63°F(17.2°C)	TC	11.70	11.97	12.41	12.51	12.55	12.66	13.09	12.61	12.67	12.71	12.61	12.63	13.14	13.76	13.28	12.54	11.37	10.22
			SC	7.24	8.00	8.45	8.56	8.66	9.18	9.75	9.16	9.77	9.72	9.52	9.53	10.54	11.17	11.20	11.03	10.47	10.12
			Input	0.58	0.64	0.69	0.72	0.80	0.80	0.85	0.88	0.90	0.93	0.97	0.98	1.08	1.22	1.22	1.20	1.24	1.24
	80°F (26.7°C)	67°F(19.4°C)	TC	12.21	12.72	12.92	13.11	13.07	13.41	13.76	13.29	13.29	13.30	13.31	13.31	13.98	14.53	13.84	13.08	12.09	10.70
			SC	7.52	8.46	8.75	8.92	8.98	9.67	10.19	9.61	10.21	10.12	9.98	9.99	11.16	11.72	11.60	11.43	11.08	10.54
			Input	0.58	0.65	0.68	0.72	0.79	0.82	0.84	0.88	0.91	0.93	0.96	0.99	1.17	1.22	1.21	1.19	1.24	1.24
TPA-18 CZP18CD(O) (208-230V)	65°F (18.3°C)	54°F(12.2°C)	TC	14.18	14.87	14.88	15.30	15.65	15.63	15.64	15.65	15.68	16.03	16.43	16.59	15.20	13.80	13.17	12.46	11.21	10.12
			SC	8.86	9.86	9.92	10.25	11.13	11.06	11.45	11.79	11.64	12.33	12.84	12.69	11.89	11.42	11.12	11.24	10.61	10.10
			Input	0.57	0.63	0.66	0.70	0.74	0.74	0.80	0.85	0.93	0.98	1.06	1.20	1.45	1.46	1.43	1.48	1.48	1.50
	70°F (21.1°C)	59°F (15°C)	TC	15.04	15.59	15.62	16.22	16.42	16.28	16.64	16.40	16.45	16.98	17.42	17.30	15.89	14.47	13.87	13.14	11.84	10.58
			SC	9.34	10.29	10.35	10.82	11.63	11.46	12.11	12.30	12.15	12.99	13.55	13.16	12.36	11.90	11.66	11.79	11.16	10.52
			Input	0.58	0.64	0.66	0.71	0.74	0.74	0.80	0.84	0.93	0.99	1.05	1.20	1.46	1.47	1.45	1.48	1.48	1.49
	75°F (23.9°C)	63°F(17.2°C)	TC	15.73	16.29	16.49	16.91	17.19	17.18	17.34	17.29	17.45	17.87	18.15	18.23	16.62	15.37	14.53	13.78	12.45	11.06
			SC	9.72	10.68	10.87	11.21	12.12	12.01	12.54	12.88	12.82	13.60	14.04	13.80	12.85	12.57	12.13	12.30	11.67	10.95
			Input	0.58	0.63	0.66	0.71	0.73	0.74	0.75	0.81	0.85	0.93	0.98	1.05	1.20	1.49	1.46	1.45	1.47	1.47
	80°F (26.7°C)	67°F(19.4°C)	TC	16.41	17.09	17.36	17.62	18.13	18.19	18.25	18.20	18.48	18.78	19.06	19.35	17.57	16.05	15.31	14.44	13.19	11.52
			SC	10.09	11.14	11.37	11.63	12.71	12.66	13.14	13.48	13.51	14.21	14.66	14.55	13.53	13.06	12.72	12.84	12.31	11.36
			Input	0.57	0.63	0.66	0.70	0.73	0.74	0.75	0.81	0.86	0.92	0.99	1.06	1.38	1.46	1.46	1.43	1.48	1.47
TIP24 CZP24CD(O) (208-230V)	65°F (18.3°C)	54°F(12.2°C)	TC	19.48	20.16	20.50	20.87	20.83	21.72	22.32	22.20	22.50	22.09	22.87	23.57	22.84	22.51	21.34	20.45	18.91	17.60
			SC	12.71	13.27	13.66	14.08	15.00	15.43	16.52	16.34	17.45	16.72	18.27	18.19	18.31	17.89	17.81	18.15	18.02	17.55
			Input	0.82	0.88	0.93	0.98	1.08	1.13	1.22	1.45	1.48	1.47	1.52	1.62	1.95	2.63	2.63	2.58	2.63	2.82
	70°F (21.1°C)	59°F (15°C)	TC	20.53	21.34	21.81	22.18	21.95	22.76	23.37	23.34	23.58	23.50	24.00	24.58	24.10	23.75	22.44	21.42	20.01	18.68
			SC	13.32	13.97	14.44	14.88	15.72	16.08	17.22	17.10	18.20	17.69	19.07	18.88	19.20	18.78	18.63	18.90	18.96	18.55
			Input	0.81	0.89	0.95	0.99	1.07	1.14	1.20	1.45	1.48	1.49	1.51	1.59	1.95	2.62	2.60	2.57	2.67	2.87
	75°F (23.9°C)	63°F(17.2°C)	TC	21.38	22.46	22.84	23.23	23.06	23.71	24.57	24.39	24.83	24.76	25.16	26.07	25.37	24.94	23.57	22.43	21.27	19.46
			SC	13.80	14.63	15.05	15.49	16.42	16.65	18.00	17.76	19.04	18.52	19.89	19.93	20.08	19.63	19.47	19.68	20.06	19.24
			Input	0.80	0.90	0.95	1.00	1.07	1.13	1.21	1.45	1.47	1.49	1.50	1.58	1.93	2.62	2.59	2.58	2.72	2.83
	80°F (26.7°C)	67°F(19.4°C)	TC	22.53	23.47	23.84	24.19	24.45	25.12	25.78	25.48	25.89	26.29	26.73	27.18	26.76	26.37	25.00	23.73	22.29	20.27
			SC	14.46	15.21	15.61	16.07	17.31	17.56	18.80	18.45	19.75	19.53	21.04	20.66	21.09	20.62	20.55	20.72	20.91	19.97
			Input	0.81	0.90	0.94	1.00	1.07	1.14	1.22	1.42	1.46	1.49	1.52	1.55	2.46	2.63	2.61	2.58	2.73	2.79
TIP36 CZP36CD(O) (208-230V)	65°F (18.3°C)	54°F(12.2°C)	TC				35.54	37.00	36.22	35.19	35.30	35.76	38.05	37.42	38.87	35.37	31.12	29.07	27.83	26.36	23.51
			SC				24.45	26.34	25.75	25.22	26.51	27.18	29.32	28.68	30.48	27.53	25.07	25.01	25.11	24.89	23.56
			Input				2.28	2.67	2.74	2.77	3.03	3.17	3.38	3.42	3.59	3.77	3.99	3.90	3.92	3.99	4.01
	70°F (21.1°C)	59°F (15°C)	TC				37.18	38.66	38.29	37.12	37.52	38.00	39.72	39.06	40.58	36.92	32.86	30.86	29.57	27.72	24.77
			SC				25.45	27.38	27.09	26.47	28.03	28.75	30.42	29.79	31.65	28.60	26.31	26.40	26.54	26.01	24.72
			Input				2.24	2.64	2.78	2.80	3.08	3.23	3.35	3.40	3.58	3.76	3.99	3.89	3.94	4.01	3.98
	75°F (23.9°C)	63°F(17.2°C)	TC				39.42	41.13	39.93	39.45	39.91	40.38	41.41	41.47	42.31	38.70	34.85	32.75	31.10	29.15	26.18
			SC				26.84	28.96	28.10	27.98	29.64	30.39	31.54	31.42	32.85	29.80	27.77	27.87	27.74	27.22	26.01
			Input				2.26	2.66	2.75	2.86	3.12	3.23	3.33	3.39	3.52	3.78	4.03	3.96	3.93	3.97	4.00
	80°F (26.7°C)	67°F(19.4°C)	TC				41.28	42.89	42.43	41.92	41.62	42.42	43.27	44.11	44.97	40.74	36.68	34.77	33.01	30.68	27.59
			SC				27.95	30.02	29.70	29.55	30.75	31.73	32.76	33.22	34.71	31.21	29.09	29.42	29.31	28.47	27.26
			Input				2.26	2.66	2.76	2.89	3.12										

<b>TIP48 CZP48CD(O) (208-230V)</b>	65°F (18.3°C)	54°F(12.2°C)	TC					44.04	45.62	47.89	48.56	49.44	49.84	49.46	50.02	49.89	46.22	42.64	40.08	37.46	35.10	31.29
			SC					31.22	32.82	35.22	35.47	37.66	37.44	38.99	38.50	38.94	36.59	35.12	34.34	34.21	33.14	31.17
		Input					2.59	2.92	3.18	3.31	3.77	4.05	4.30	4.60	4.90	5.27	5.69	5.52	5.45	5.77	5.80	
	70°F (21.1°C)	59°F (15°C)	TC					46.65	48.32	50.04	50.96	52.37	52.03	51.57	53.04	52.57	48.70	44.50	42.10	39.64	37.11	33.04
			SC					32.92	34.57	36.60	37.05	39.65	38.90	40.44	40.63	40.84	38.36	36.48	35.86	36.03	34.82	32.77
		Input					2.61	2.93	3.15	3.27	3.77	3.98	4.22	4.59	4.87	5.29	5.64	5.53	5.47	5.86	5.77	
	75°F (23.9°C)	63°F(17.2°C)	TC					48.64	50.65	52.62	53.19	55.13	54.65	54.57	55.37	55.69	51.53	46.75	44.13	41.77	38.69	35.03
			SC					34.15	36.01	38.27	38.47	41.50	40.62	42.52	42.16	43.00	40.34	38.11	37.35	37.78	36.14	34.63
		Input					2.61	2.89	3.12	3.23	3.75	3.94	4.26	4.58	4.92	5.30	5.68	5.53	5.45	5.76	5.81	
	80°F (26.7°C)	67°F(19.4°C)	TC					51.04	53.26	54.87	56.58	57.61	57.77	57.93	58.10	58.25	53.74	48.75	46.31	43.87	40.69	36.92
			SC					35.63	37.66	39.73	40.68	43.15	42.69	44.90	43.98	44.74	41.86	39.53	38.99	39.49	37.80	36.29
		Input					2.60	2.91	3.07	3.26	3.76	4.00	4.28	4.57	4.93	5.30	5.60	5.56	5.48	5.72	5.85	

### HEATING PERFORMANCE DATA

Model	Heating		Outdoor conditions (DB)															
	Indoor Conditions DB		-13°F	-4°F	0°F	5°F	10°F	17°F	20°F	25°F	32°F	35°F	40°F	47°F	50°F	57°F		
			-25°C	-20°C	-17.8°C	-15°C	-12.2°C	-8.3°C	-6.7°C	-3.9°C	0°C	1.7°C	4.4°C	8.3°C	10°C	13.9°C		
<b>TPA-09 CZP09CD(O) (208-230V)</b>	60°F (15.6°C)	TC	7.31	8.07	8.44	8.74	9.28	9.99	10.36	10.67	11.03	11.34	12.17	12.82	13.17	13.45		
		Input	1.30	1.23	1.19	1.17	1.20	1.23	1.23	1.23	1.21	1.21	1.12	1.07	1.04	1.01		
	65°F (18.3°C)	TC	7.07	7.85	8.17	8.53	9.02	9.72	10.05	10.34	10.66	11.03	11.80	12.46	12.81	13.06		
		Input	1.33	1.26	1.23	1.21	1.22	1.26	1.26	1.25	1.24	1.14	1.09	1.06	1.04			
	70°F (21.1°C)	TC	6.83	7.59	7.94	8.25	8.79	9.44	9.76	10.05	10.36	10.69	11.41	12.12	12.41	12.73		
		Input	1.36	1.29	1.26	1.23	1.26	1.29	1.29	1.28	1.28	1.27	1.18	1.12	1.09	1.07		
75°F (23.9°C)	TC	6.58	7.26	7.67	7.96	8.47	9.04	9.39	9.64	10.00	10.28	10.92	11.59	11.88	12.25			
	Input	1.40	1.33	1.30	1.27	1.30	1.34	1.33	1.32	1.31	1.31	1.22	1.16	1.13	1.09			
<b>TPA-12 CZP12CD(O) (208-230V)</b>	60°F (15.6°C)	TC	7.08	7.98	8.35	8.66	9.60	10.50	10.83	11.05	11.32	11.55	13.52	15.42	16.06	16.41		
		Input	1.24	1.17	1.16	1.12	1.16	1.16	1.13	1.10	1.07	1.06	1.09	1.13	1.10	1.08		
	65°F (18.3°C)	TC	6.91	7.71	8.09	8.40	9.36	10.22	10.47	10.68	11.02	11.19	13.13	15.03	15.52	15.89		
		Input	1.27	1.21	1.18	1.15	1.19	1.19	1.16	1.13	1.10	1.08	1.12	1.17	1.13	1.10		
	70°F (21.1°C)	TC	6.73	7.48	7.82	8.13	9.08	9.88	10.15	10.39	10.65	10.89	12.70	14.66	15.02	15.39		
		Input	1.31	1.24	1.22	1.19	1.22	1.23	1.19	1.16	1.13	1.10	1.15	1.19	1.16	1.13		
75°F (23.9°C)	TC	6.43	7.16	7.52	7.83	8.70	9.48	9.78	10.00	10.26	10.50	12.17	14.07	14.35	14.70			
	Input	1.34	1.28	1.25	1.22	1.26	1.26	1.23	1.19	1.17	1.13	1.18	1.23	1.19	1.16			
<b>TPA-18 CZP18CD(O) (208-230V)</b>	60°F (15.6°C)	TC	9.91	11.01	11.69	11.93	14.16	15.97	16.98	17.81	18.84	19.49	19.94	20.19	20.77	21.24		
		Input	1.73	1.65	1.59	1.57	1.73	1.85	1.94	2.04	2.12	2.18	1.87	1.66	1.62	1.57		
	65°F (18.3°C)	TC	9.67	10.70	11.29	11.63	13.72	15.55	16.50	17.29	18.22	18.96	19.33	19.60	20.21	20.64		
		Input	1.77	1.68	1.64	1.61	1.77	1.90	2.00	2.08	2.16	2.24	1.91	1.70	1.66	1.61		
	70°F (21.1°C)	TC	9.38	10.42	10.92	11.33	13.32	15.16	16.00	16.85	17.67	18.45	18.76	19.03	19.54	19.98		
		Input	1.82	1.73	1.68	1.65	1.82	1.96	2.05	2.14	2.23	2.31	1.95	1.74	1.70	1.65		
75°F (23.9°C)	TC	9.01	10.06	10.54	10.89	12.72	14.60	15.41	16.21	17.04	17.71	17.97	18.37	18.76	19.18			
	Input	1.86	1.79	1.74	1.69	1.87	2.02	2.12	2.21	2.30	2.37	2.02	1.80	1.75	1.71			
<b>TIP24 CZP24CD(O) (208-230V)</b>	60°F (15.6°C)	TC	15.88	17.58	18.25	19.13	20.66	22.25	23.57	24.78	26.21	27.16	31.34	35.56	36.44	37.05		
		Input	2.54	2.42	2.36	2.31	2.38	2.46	2.50	2.57	2.57	2.60	2.67	2.74	2.68	2.62		
	65°F (18.3°C)	TC	15.42	17.13	17.77	18.60	20.02	21.52	22.82	23.99	25.37	26.37	30.40	34.46	35.28	36.15		
		Input	2.62	2.47	2.42	2.37	2.44	2.53	2.56	2.63	2.65	2.67	2.74	2.81	2.74	2.68		
	70°F (21.1°C)	TC	14.97	16.63	17.32	18.08	19.36	20.81	22.07	23.29	24.51	25.60	29.37	33.29	34.18	34.96		
		Input	2.67	2.55	2.47	2.42	2.49	2.58	2.64	2.68	2.72	2.74	2.81	2.88	2.82	2.74		
75°F (23.9°C)	TC	14.42	15.94	16.56	17.45	18.57	19.96	21.23	22.43	23.58	24.50	28.29	32.06	32.99	33.67			
	Input	2.74	2.61	2.55	2.50	2.56	2.67	2.73	2.76	2.80	2.80	2.91	2.96	2.90	2.81			
<b>TIP36 CZP36CD(O) (208-230V)</b>	60°F (15.6°C)	TC	19.82	22.00	23.27	24.17	25.04	26.20	27.62	29.49	31.16	32.61	36.99	42.11	43.35	43.92		
		Input	3.49	3.31	3.21	3.13	3.05	3.00	3.01	3.07	3.12	3.17	3.19	3.32	3.20	3.12		
	65°F (18.3°C)	TC	19.29	21.46	22.55	23.35	24.35	25.39	26.92	28.55	30.28	31.69	35.81	40.84	42.09	42.80		
		Input	3.56	3.38	3.30	3.23	3.14	3.06	3.10	3.15	3.20	3.24	3.28	3.39	3.29	3.21		
	70°F (21.1°C)	TC	18.82	20.92	21.82	22.73	23.69	24.77	26.26	27.83	29.40	30.92	34.94	39.65	40.74	41.64		
		Input	3.66	3.48	3.40	3.32	3.22	3.14	3.19	3.25	3.29	3.32	3.38	3.46	3.38	3.29		
75°F (23.9°C)	TC	18.17	20.00	21.00	21.73	22.72	23.83	25.10	26.72	28.07	29.84	33.68	38.07	39.07	40.10			
	Input	3.78	3.59	3.49	3.44	3.31	3.22	3.29	3.34	3.40	3.41	3.48	3.58	3.48	3.41			
<b>TIP48 CZP48CD(O) (208-230V)</b>	60°F (15.6°C)	TC	23.86	26.31	27.65	28.87	31.78	34.45	37.84	41.28	44.47	47.71	50.67	53.24	54.69	56.34		
		Input	4.65	4.43	4.28	4.20	4.59	4.83	5.05	5.19	5.33	5.42	5.21	4.96	4.82	4.71		
	65°F (18.3°C)	TC	23.26	25.64	26.72	27.92	30.95	33.39	36.78	39.89	43.09	46.23	49.34	51.74	53.10	54.54		
		Input	4.77	4.55	4.37	4.31	4.70	4.97	5.19	5.31	5.47	5.59	5.34	5.06	4.97	4.82		
	70°F (21.1°C)	TC	22.51	25.02	26.02	27.19	30.13	32.54	35.74	38.72	41.83	44.97	47.81	50.33	51.55	52.85		
		Input	4.87	4.64	4.48	4.42	4.81	5.11	5.31	5.46	5.60	5.74	5.47	5.20	5.08	4.94		
75°F (23.9°C)	TC	21.70	23.94	24.87	25.97	29.02	31.27	34.20	37.06	40.37	43.26	45.99	48.47	49.33	50.68			
	Input	5.04	4.77	4.60	4.54	4.97	5.25	5.47	5.63	5.76	5.91	5.61	5.37	5.21	5.07			

LEGEND  
 DB --- Dry Bulb  
 WB --- Wet Bulb  
 TC --- Total Net Capacity (1000 Btu/hour)  
 Input --- Total Power (kW)  
 COP --- W/W