

Technical Information: Coil Performance(Cooling/Heating) **FAN COIL UNIT SERIES**

Ceiling Recessed, High Static Model-High Static, Large Air Volume Model **4-Row Cooling/Heating**

TCRH-4HW-4R

240V

COOLING Capacity

Unit Size	Water Flow (l/sec)	W.P.D (kPa)	Entering Air Condition DB=24.0°C WB=17.8°C (55%)									Entering Air Condition DB=26.0°C WB=19.5°C (55%)								
			Entering Water Temperature									Entering Water Temperature								
			5°C			7°C			9°C			5°C			7°C			9°C		
			SH (kW)	TH (kW)	ΔWT (°C)	SH (kW)	TH (kW)	ΔWT (°C)	SH (kW)	TH (kW)	ΔWT (°C)	SH (kW)	TH (kW)	ΔWT (°C)	SH (kW)	TH (kW)	ΔWT (°C)	SH (kW)	TH (kW)	ΔWT (°C)
600	0.10	3.3	3.66	4.66	11.14	3.33	4.12	9.85	3.02	3.56	8.53	3.92	5.29	12.65	3.58	4.75	11.36	3.25	4.19	10.03
	0.15	6.7	4.35	5.75	9.17	3.94	5.08	8.09	3.56	4.38	6.98	4.67	6.56	10.45	4.26	5.88	9.38	3.86	5.18	8.26
	0.20	11.0	4.78	6.51	7.78	4.33	5.74	6.86	3.91	4.94	5.91	5.15	7.44	8.90	4.69	6.67	7.98	4.25	5.87	7.02
1000	0.30	22.2	5.29	7.52	5.99	4.79	6.62	5.28	4.31	5.68	4.53	5.72	8.62	6.87	5.21	7.73	6.16	4.71	6.78	5.41
	0.10	1.4	4.38	5.08	12.15	4.00	4.51	10.79	3.67	3.94	9.43	4.64	5.71	13.66	4.25	5.14	12.30	3.88	4.56	10.91
	0.20	4.6	6.72	8.60	10.27	6.11	7.60	9.09	5.54	6.58	7.87	7.18	9.76	11.66	6.56	8.76	10.47	5.97	7.74	9.25
1200	0.30	9.3	7.73	10.52	8.39	7.00	9.29	7.40	6.33	8.00	6.37	8.31	12.01	9.57	7.57	10.77	8.58	6.87	9.48	7.56
	0.40	15.2	8.22	11.74	7.01	7.44	10.34	6.18	6.70	8.88	5.31	8.86	13.44	8.03	8.07	12.04	7.19	7.31	10.58	6.32
	0.15	0.5	4.71	5.43	8.65	4.30	4.82	7.68	3.92	4.20	6.70	5.01	6.13	9.77	4.58	5.51	8.79	4.18	4.88	7.78
1600	0.20	0.9	5.94	7.12	8.51	5.41	6.30	7.54	4.92	5.47	6.54	6.35	8.08	9.65	5.80	7.25	8.67	5.28	6.41	7.66
	0.30	1.8	7.54	9.58	7.63	6.84	8.46	6.74	6.19	7.30	5.82	8.10	10.92	8.70	7.38	9.80	7.81	6.70	8.63	6.88
	0.55	5.1	9.15	12.77	5.55	8.27	11.24	4.88	7.43	9.64	4.19	9.90	14.67	6.37	9.01	13.13	5.71	8.15	11.53	5.01
2000	0.20	1.0	7.12	8.39	10.03	6.49	7.44	8.89	5.92	6.48	7.75	7.57	9.48	11.33	6.92	8.52	10.18	6.31	7.54	9.01
	0.30	2.1	9.23	11.52	9.18	8.38	10.19	8.12	7.61	8.83	7.03	9.87	13.08	10.42	9.01	11.75	9.36	8.19	10.37	8.26
	0.40	3.4	10.48	13.66	8.16	9.51	12.06	7.21	8.60	10.41	6.22	11.25	15.58	9.31	10.26	13.98	8.35	9.32	12.31	7.36
2000	0.55	5.9	11.54	15.81	6.87	10.45	13.93	6.05	9.41	11.98	5.20	12.43	18.09	7.86	11.33	16.21	7.04	10.26	14.26	6.19
	0.30	2.7	10.66	13.54	10.79	9.69	11.99	9.55	8.80	10.39	8.27	11.39	15.36	12.24	10.40	13.80	10.99	9.47	12.19	9.71
	0.40	4.4	12.17	16.15	9.65	11.04	14.26	8.52	9.99	12.31	7.36	13.05	18.39	10.99	11.90	16.50	9.86	10.81	14.54	8.89
2000	0.55	7.7	13.48	18.81	8.17	12.20	16.58	7.21	11.00	14.26	6.20	14.51	21.51	9.35	13.22	19.28	8.38	11.99	16.96	7.37
	0.70	11.6	14.21	20.64	7.05	12.85	18.17	6.20	11.55	15.59	5.32	15.34	23.66	8.08	13.96	21.20	7.24	12.64	18.62	6.36

HEATING Capacity

Unit Size	Water Flow (l/sec)	W.P.D (kPa)	Entering Air Condition DB=20.0°C										Entering Air Condition DB=22.0°C									
			Entering Water Temperature										Entering Water Temperature									
			40°C		50°C		60°C		70°C		80°C		40°C		50°C		60°C		70°C		80°C	
			TH (kW)	ΔWT (°C)	TH (kW)	ΔWT (°C)	TH (kW)	ΔWT (°C)	TH (kW)	ΔWT (°C)	TH (kW)	ΔWT (°C)	TH (kW)	ΔWT (°C)	TH (kW)	ΔWT (°C)	TH (kW)	ΔWT (°C)	TH (kW)	ΔWT (°C)	TH (kW)	ΔWT (°C)
600	0.10	3.3	5.17	12.35	7.75	18.53	10.34	24.70	9.81	46.90	11.78	56.29	4.65	11.12	7.23	17.29	9.82	23.47	9.42	45.03	11.38	54.41
	0.15	6.7	5.79	9.23	8.69	13.84	11.58	18.45	12.92	30.88	15.51	37.05	5.21	8.30	8.11	12.92	11.00	17.53	12.40	29.64	14.99	35.82
	0.20	11.0	6.17	7.37	9.26	11.06	12.34	14.75	14.48	23.07	17.38	27.68	5.55	6.64	8.64	10.32	11.72	14.01	13.90	22.15	16.80	26.76
1000	0.30	22.2	6.61	5.27	9.92	7.91	13.23	10.54	15.43	18.43	18.52	22.12	5.95	4.74	9.26	7.38	12.57	10.01	14.81	17.70	17.90	21.38
	0.10	1.4	6.38	15.25	9.57	22.87	12.76	30.50	15.95	38.12	19.14	45.75	5.74	13.72	8.93	21.35	12.12	28.97	15.31	36.60	18.51	44.22
	0.20	4.6	8.45	10.10	12.68	15.15	16.90	20.20	21.13	25.25	25.36	30.30	7.60	9.09	11.83	14.14	16.06	19.19	20.29	24.24	24.51	29.29
1200	0.30	9.3	9.38	7.47	14.07	11.21	18.77	14.95	23.46	18.68	28.15	22.42	8.44	6.73	13.13	10.46	17.83	14.20	22.52	17.94	27.21	21.67
	0.40	15.2	9.94	5.94	14.91	8.90	19.88	11.87	24.85	14.84	29.82	17.81	8.94	5.34	13.91	8.31	18.88	11.28	23.85	14.25	28.82	17.22
	0.15	0.5	8.18	13.04	12.28	19.56	16.37	26.08	20.47	32.61	24.56	39.13	7.37	11.74	11.46	18.26	15.55	24.78	19.65	31.30	23.74	37.82
1600	0.20	0.9	9.07	10.84	13.61	16.26	18.14	21.68	22.68	27.10	27.22	32.52	8.16	9.75	12.70	15.17	17.24	20.59	21.77	26.01	26.31	31.43
	0.30	1.8	10.09	8.04	15.14	12.06	20.19	16.08	25.24	20.10	30.29	24.12	9.08	7.24	14.13	11.26	19.18	15.28	24.23	19.30	29.28	23.32
	0.55	5.1	11.24	4.88	16.86	7.33	22.48	9.77	28.10	12.21	33.72	14.65	10.11	4.40	15.74	6.84	21.36	9.28	26.98	11.72	32.60	14.16
2000	0.20	1.0	10.71	12.80	16.07	19.20	21.42	25.59	26.78	31.99	32.14	38.39	9.64	11.52	14.99	17.92	20.35	24.31	25.71	30.71	31.06	37.11
	0.30	2.1	12.29	9.79	18.44	14.68	24.58	19.58	30.73	24.47	36.88	29.37	11.06	8.81	17.21	13.71	23.35	18.60	29.50	23.49	35.65	28.39
	0.40	3.4	13.22	7.90	19.83	11.85	26.45	15.80	33.06	19.75	39.67	23.70	11.90	7.11	18.51	11.06	25.12	15.01	31.74	18.96	38.35	22.91
2000	0.55	5.9	14.10	6.13	21.15	9.19	28.20	12.25	35.25	15.31	42.30	18.38	12.69	5.51	19.74	8.58	26.79	11.64	33.84	14.70	40.89	17.76
	0.30	2.7	14.41	11.48	21.62	17.22	28.82	22.96	36.03	23.44	43.24	34.44	12.97	10.33	20.18	16.07	27.38	21.81	34.59	27.55	41.80	33.29
	0.40	4.4	15.70	9.38	23.55	14.07	31.40	18.76	39.25	23.40	47.20	28.13	14.13	8.44	21.98	13.13	29.83	17.82	37.68	22.51	45.53	27.20
2000	0.55	7.7	16.89	7.34	25.33	11.01	33.78	14.67	42.23	18.34	50.67	22.01	15.20	6.60	23.65	10.27	32.09	13.94	40.54	17.61	48.98	21.28
	0.70	11.6	17.65	6.03	26.48	9.04	35.31	12.05	44.14	15.07	52.97	18.08	15.89	5.42	24.72	8.44	33.55	11.45	42.38	14.46	51.20	17.48

Note: To obtain accurate air volume and cooling/heating capacities, refer to pages 44-59