

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

Ceiling Recessed Model-Large Air Volume Model 3-Row Cooling, 1-Row Heating

## SRC-2SH-DC2

## 220V

### 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)
300	0.05	0.8	1.26	1.51	7.2	1.15	1.33	6.4	1.04	1.16	5.6	1.35	1.71	8.2	1.23	1.54	7.4	1.12	1.36	6.5
	0.10	2.8	1.68	2.14	5.1	1.52	1.89	4.5	1.37	1.63	3.9	1.81	2.45	5.9	1.65	2.20	5.3	1.49	1.93	4.6
	0.15	5.6	1.87	2.48	4.0	1.69	2.18	3.5	1.52	1.88	3.0	2.02	2.85	4.5	1.84	2.55	4.1	1.66	2.24	3.6
	0.20	9.2	1.98	2.70	3.2	1.78	2.37	2.8	1.60	2.03	2.4	2.14	3.10	3.7	1.95	2.77	3.3	1.76	2.43	2.9
400	0.10	3.9	2.50	3.16	7.6	2.27	2.79	6.7	2.05	2.41	5.8	2.68	3.60	8.6	2.44	3.23	7.7	2.22	2.85	6.8
	0.15	8.0	2.84	3.74	6.0	2.57	3.29	5.3	2.32	2.84	4.5	3.05	4.27	6.8	2.78	3.83	6.1	2.52	3.37	5.4
	0.20	13.1	3.03	4.11	4.9	2.74	3.62	4.3	2.47	3.11	3.7	3.27	4.71	5.6	2.98	4.22	5.0	2.70	3.71	4.4
	0.25	19.3	3.16	4.38	4.2	2.85	3.85	3.7	2.57	3.31	3.2	3.41	5.02	4.8	3.10	4.50	4.3	2.81	3.95	3.8
600	0.10	4.6	2.74	3.49	8.4	2.48	3.09	7.4	2.24	2.66	6.4	2.94	3.98	9.5	2.68	3.57	8.5	2.43	3.15	7.5
	0.15	9.3	3.11	4.13	6.6	2.82	3.64	5.8	2.54	3.14	5.0	3.35	4.73	7.5	3.05	4.24	6.8	2.76	3.73	5.9
	0.20	15.2	3.33	4.56	5.4	3.01	4.01	4.8	2.71	3.44	4.1	3.59	5.22	6.2	3.27	4.68	5.6	2.96	4.11	4.9
	0.30	30.7	3.57	5.10	4.1	3.22	4.48	3.6	2.89	3.84	3.1	3.86	5.86	4.7	3.51	5.24	4.2	3.18	4.60	3.7
800	0.15	12.0	4.06	5.37	8.6	3.68	4.74	7.6	3.33	4.08	6.5	4.37	6.13	9.8	3.98	5.50	8.8	3.61	4.84	7.7
	0.20	19.7	4.41	5.99	7.2	3.99	5.28	6.3	3.59	4.54	5.4	4.75	6.86	8.2	4.33	6.14	7.3	3.92	5.40	6.5
	0.25	29.0	4.63	6.45	6.2	4.19	5.68	5.4	3.77	4.87	4.7	5.00	7.39	7.1	4.56	6.62	6.3	4.12	5.82	5.6
	0.30	39.7	4.80	6.80	5.4	4.34	5.99	4.8	3.90	5.13	4.1	5.19	7.81	6.2	4.72	6.99	5.6	4.27	6.14	4.9
1000	0.20	3.4	4.83	6.07	7.3	4.39	5.36	6.4	3.97	4.63	5.5	5.19	6.91	8.3	4.73	6.20	7.4	4.30	5.46	6.5
	0.30	6.9	5.50	7.17	5.7	4.98	6.32	5.0	4.49	5.44	4.3	5.92	8.20	6.5	5.39	7.35	5.9	4.89	6.46	5.2
	0.40	11.3	5.88	7.89	4.7	5.32	6.95	4.2	4.79	5.97	3.6	6.35	9.05	5.4	5.78	8.10	4.8	5.23	7.12	4.3
	0.50	16.6	6.13	8.41	4.0	5.54	7.41	3.5	4.98	6.35	3.0	6.62	9.66	4.6	6.03	8.65	4.1	5.45	7.59	3.6
1200	0.20	4.0	5.39	6.80	8.1	4.89	6.01	7.2	4.43	5.19	6.2	5.77	7.74	9.3	5.27	6.95	8.3	4.78	6.12	7.3
	0.30	8.1	6.14	8.06	6.4	5.56	7.11	5.7	5.02	6.12	4.9	6.60	9.21	7.3	6.02	8.26	6.6	5.46	7.26	5.8
	0.40	13.2	6.58	8.89	5.3	5.95	7.83	4.7	5.36	6.73	4.0	7.09	10.18	6.1	6.46	9.12	5.5	5.85	8.02	4.8
	0.50	19.5	6.86	9.49	4.5	6.21	8.36	4.0	5.58	7.17	3.4	7.41	10.89	5.2	6.75	9.75	4.7	6.11	8.56	4.1
1400	0.20	4.4	6.17	7.71	9.2	5.60	6.82	8.2	5.08	5.90	7.1	6.61	8.77	10.5	6.03	7.87	9.4	5.48	6.94	8.3
	0.30	8.9	7.12	9.26	7.4	6.46	8.17	6.5	5.84	7.04	5.6	7.66	10.57	8.4	6.98	9.48	7.5	5.82	7.36	5.9
	0.40	14.7	7.70	10.29	6.2	6.97	9.07	5.4	6.29	7.81	4.7	8.30	11.78	7.0	7.56	10.55	6.3	6.22	8.08	4.8
	0.55	25.4	8.22	11.36	4.9	7.44	10.00	4.3	6.69	8.59	3.7	8.88	13.03	5.7	8.09	11.67	5.1	6.57	8.81	3.8

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### 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)
300	0.03	2.3	0.99	7.9	1.49	11.9	1.99	15.9	2.49	19.8	2.98	23.8	0.89	7.1	1.39	11.1	1.89	15.1	2.39	19.0	2.88	23.0
	0.05	5.6	1.09	5.2	1.64	7.9	2.19	10.5	2.73	13.1	3.28	15.7	0.98	4.7	1.53	7.3	2.08	9.9	2.62	12.6	3.17	15.2
	0.08	12.6	1.16	3.5	1.75	5.2	2.33	7.0	2.91	8.7	3.50	10.5	1.05	3.1	1.63	4.9	2.21	6.6	2.80	8.4	3.38	10.1
	0.10	18.5	1.19	2.9	1.79	4.3	2.39	5.7	2.98	7.1	3.58	8.6	1.07	2.6	1.67	4.0	2.27	5.4	2.86	6.9	3.46	8.3
400	0.03	3.3	1.42	11.4	2.14	17.1	2.85	22.7	3.56	28.4	4.28	34.1	1.28	10.2	1.99	15.9	2.71	21.6	3.42	27.3	4.14	33.0
	0.05	8.0	1.63	7.8	2.44	11.7	3.26	15.6	4.07	19.5	4.89	23.4	1.46	7.0	2.28	10.9	3.09	14.8	3.91	18.7	4.73	22.6
	0.08	18.0	1.78	5.3	2.67	8.0	3.56	10.6	4.45	13.3	5.34	16.0	1.60	4.8	2.49	7.5	3.38	10.1	4.27	12.8	5.16	15.4
	0.10	26.4	1.84	4.4	2.76	6.6	3.68	8.8	4.60	11.0	5.52	13.2	1.65	4.0	2.57	6.2	3.50	8.4	4.42	10.6	5.34	12.8
600	0.03	3.8	1.55	12.4	2.32	18.5	3.10	24.7	3.87	30.9	4.65	37.1	1.39	11.1	2.17	17.3	2.94	23.5	3.72	29.7	4.49	35.8
	0.05	9.3	1.79	8.6	2.68	12.8	3.58	17.1	4.47	21.4	5.37	25.7	1.61	7.7	2.50	12.0	3.40	16.3	4.29	20.5	5.19	24.8
	0.08	20.9	1.96	5.9	2.95	8.8	3.93	11.8	4.92	14.7	5.90	17.6	1.77	5.3	2.75	8.2	3.74	11.2	4.72	14.1	5.71	17.1
	0.10	30.7	2.04	4.9	3.06	7.3	4.08	9.8	5.10	12.2	6.12	14.6	1.83	4.4	2.85	6.8	3.87	9.3	4.90	11.7	5.92	14.1
800	0.03	4.9	1.91	15.2	2.87	22.9	3.82	30.5	4.78	38.1	5.74	45.7	1.72	13.7	2.68	21.3	3.63	29.0	4.59	36.6	5.55	44.2
	0.05	12.0	2.28	10.9	3.42	16.4	4.56	21.8	5.70	27.3	6.85	32.7	2.05	9.8	3.19	15.3	4.33	20.7	5.48	26.2	6.62	31.6
	0.08	27.0	2.57	7.7	3.86	11.5	5.14	15.4	6.43	19.2	7.72	23.1	2.31	6.9	3.60	10.8	4.89	14.6	6.17	18.4	7.46	22.3
	0.10	39.7	2.69	6.4	4.03	9.6	5.38	12.9	6.73	16.1	8.07	19.3	2.42	5.8	3.76	9.0	5.11	12.2	6.46	15.4	7.80	18.7
1000	0.03	5.6	2.16	17.2	3.24	25.8	4.32	34.4	5.40	43.0	6.48	51.6	1.94	15.5	3.02	24.1	4.10	32.7	5.18	41.3	6.25	49.9
	0.05	13.6	2.63	12.6	3.95	18.9	5.27	25.2	6.59	31.5	7.91	37.8	2.37	11.3	3.69	17.6	5.01	24.0	6.33	30.3	7.65	36.6
	0.08	30.6	3.02	9.0	4.54	13.6	6.05	18.1	7.56	22.6	9.08	27.1	2.72	8.1	4.23	12.7	5.75	17.2	7.26	21.7	8.78	26.2
	0.10	45.1	3.19	7.6	4.78	11.4	6.38	15.2	7.97	19.1	9.57	22.9	2.87	6.9	4.46	10.7	6.06	14.5	7.65	18.3	9.25	22.1
1200	0.03	6.6	2.33	18.6	3.50	27.9	4.67	37.2	5.84	46.5	7.00	55.8	2.10	16.7	3.27	26.0	4.43	35.4	5.60	44.7	6.77	54.0
	0.05	16.0	2.89	13.9	4.34	20.8	5.79	27.7	7.24	34.6	8.69	41.6	2.60	12.5	4.05	19.4	5.50	26.3	6.95	33.2	8.40	40.2
	0.08	36.0	3.36	10.1	5.05	15.1	6.73	20.1	8.42	25.2	10.10	30.2	3.03	9.1	4.71	14.1	6.40	19.1	8.08	24.1	9.77	29.2
	0.09	44.2	3.47	9.2	5.21	13.8	6.95	18.5	8.69	23.1	10.42	27.7	3.12	8.3	4.86	12.9	6.60	17.5	8.34	22.1	10.08	26.8
1400	0.03	7.3	2.54	20.3	3.81	30.4	5.09	40.5	6.36	50.7	7.63	60.8	2.29	18.2	3.56	28.4	4.83	38.5	6.10	48.6	7.38	58.8
	0.05	17.7	3.22	15.4	4.83	23.1	6.44	30.8	8.06	38.5	9.67	46.2	2.90	13.9	4.51	21.6	6.12	29.3	7.73	37.0	9.35	44.7
	0.08	39.9	3.81	11.4	5.71	17.1	7.62	22.8	9.52	28.5	11.43	34.1	3.43	10.2	5.33	15.9	7.24	21.6	9.14	27.3	11.05	33.0
	0.09	48.9	3.94	10.5	5.92	15.7	7.89	21.0	9.86	26.2	11.84	31.4	3.55	9.4	5.52	14.7	7.50	19.9	9.47	25.1	11.44	30.4

Note: To obtain accurate air volume and cooling/heating capacities, refer to pages 54-74