

HEATING CAPACITY

■ MODEL: WO*A060 (4.5kW type)

FT	30°C			35°C			40°C			45°C			50°C		55°C		
	OT	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	
-20°C	2.87	1.25	2.30	2.87	1.37	2.09	2.73	1.46	1.87	—	—	—	—	—	—	—	
-19°C	3.03	1.26	2.40	3.03	1.39	2.18	2.88	1.48	1.95	—	—	—	—	—	—	—	
-18°C	3.19	1.28	2.49	3.19	1.41	2.26	3.04	1.50	2.03	3.03	1.61	1.89	—	—	—	—	
-17°C	3.35	1.29	2.60	3.35	1.43	2.34	3.19	1.52	2.10	3.13	1.62	1.93	—	—	—	—	
-16°C	3.51	1.31	2.68	3.51	1.44	2.44	3.35	1.54	2.18	3.22	1.63	1.98	—	—	—	—	
-15°C	3.67	1.32	2.77	3.67	1.46	2.52	3.50	1.56	2.25	3.32	1.64	2.02	—	—	—	—	
-14°C	3.72	1.32	2.82	3.73	1.46	2.55	3.58	1.57	2.29	3.42	1.67	2.05	3.22	1.83	1.76	—	
-13°C	3.78	1.32	2.86	3.78	1.46	2.59	3.65	1.58	2.31	3.51	1.70	2.06	3.31	1.86	1.79	—	
-12°C	3.83	1.32	2.90	3.83	1.46	2.62	3.73	1.59	2.35	3.61	1.72	2.10	3.41	1.88	1.81	—	
-11°C	3.89	1.32	2.95	3.89	1.47	2.65	3.80	1.61	2.36	3.71	1.75	2.12	3.51	1.91	1.84	—	
-10°C	3.94	1.32	2.98	3.94	1.47	2.68	3.88	1.63	2.39	3.81	1.78	2.14	3.61	1.94	1.86	3.17	
-9°C	3.99	1.32	3.02	3.99	1.47	2.71	3.95	1.64	2.41	3.90	1.81	2.15	3.70	1.97	1.89	3.35	
-8°C	4.05	1.32	3.07	4.05	1.47	2.76	4.03	1.65	2.44	4.00	1.83	2.19	3.80	1.99	1.91	3.52	
-7°C	4.10	1.32	3.11	4.10	1.47	2.79	4.10	1.65	2.48	4.10	1.86	2.20	3.90	2.02	1.93	3.70	
-6°C	4.14	1.32	3.14	4.14	1.46	2.84	4.12	1.64	2.51	4.09	1.82	2.25	3.91	1.98	1.97	3.73	
-5°C	4.19	1.31	3.20	4.19	1.45	2.89	4.14	1.62	2.56	4.08	1.78	2.29	3.92	1.94	2.02	3.77	
-4°C	4.23	1.31	3.23	4.23	1.44	2.94	4.15	1.59	2.62	4.07	1.73	2.35	3.93	1.91	2.06	3.80	
-3°C	4.28	1.31	3.27	4.28	1.44	2.97	4.17	1.57	2.66	4.06	1.69	2.40	3.94	1.87	2.11	3.83	
-2°C	4.32	1.30	3.32	4.32	1.43	3.02	4.18	1.54	2.71	4.04	1.65	2.45	3.96	1.83	2.16	3.87	
-1°C	4.37	1.30	3.36	4.37	1.42	3.08	4.20	1.52	2.77	4.03	1.61	2.50	3.97	1.79	2.21	3.90	
0°C	4.41	1.30	3.39	4.41	1.41	3.13	4.22	1.49	2.84	4.02	1.56	2.58	3.98	1.76	2.27	3.93	
1°C	4.46	1.29	3.46	4.46	1.40	3.19	4.24	1.45	2.93	4.01	1.52	2.64	3.99	1.72	2.32	3.97	
2°C	4.50	1.29	3.49	4.50	1.39	3.24	4.25	1.42	2.99	4.00	1.48	2.70	4.00	1.68	2.38	4.00	
3°C	4.50	1.20	3.75	4.50	1.30	3.46	4.31	1.36	3.17	4.13	1.45	2.85	4.13	1.65	2.50	4.13	
4°C	4.50	1.10	4.09	4.50	1.21	3.72	4.38	1.29	3.40	4.25	1.41	3.01	4.25	1.61	2.64	4.25	
5°C	4.50	0.94	4.77	4.50	1.06	4.24	4.50	1.20	3.76	4.50	1.37	3.28	4.50	1.58	2.85	4.50	
6°C	4.50	0.91	4.94	4.50	1.03	4.38	4.50	1.16	3.87	4.50	1.34	3.37	4.50	1.54	2.92	4.50	
7°C	4.50	0.88	5.11	4.50	1.00	4.52	4.50	1.13	3.98	4.50	1.30	3.46	4.50	1.51	2.99	4.50	
8°C	4.50	0.85	5.28	4.50	0.97	4.66	4.50	1.10	4.09	4.50	1.27	3.55	4.50	1.48	3.05	4.50	
9°C	4.50	0.83	5.45	4.50	0.94	4.80	4.50	1.07	4.20	4.50	1.24	3.64	4.50	1.44	3.12	4.50	
10°C	4.50	0.80	5.61	4.50	0.91	4.94	4.50	1.04	4.32	4.50	1.21	3.73	4.50	1.41	3.19	4.50	
11°C	4.50	0.78	5.78	4.50	0.89	5.08	4.50	1.02	4.43	4.50	1.18	3.82	4.50	1.38	3.26	4.50	
12°C	4.50	0.76	5.95	4.50	0.86	5.22	4.50	0.99	4.54	4.50	1.15	3.91	4.50	1.35	3.33	4.50	
13°C	4.50	0.74	6.12	4.50	0.84	5.36	4.50	0.97	4.65	4.50	1.13	4.00	4.50	1.32	3.40	4.50	
14°C	4.50	0.72	6.28	4.50	0.82	5.49	4.50	0.94	4.77	4.50	1.10	4.09	4.50	1.30	3.47	4.50	
15°C	4.50	0.70	6.45	4.50	0.80	5.63	4.50	0.92	4.88	4.50	1.08	4.18	4.50	1.27	3.54	4.50	
16°C	4.50	0.68	6.62	4.50	0.78	5.77	4.50	0.90	4.99	4.50	1.05	4.27	4.50	1.25	3.60	4.50	
17°C	4.50	0.66	6.79	4.50	0.76	5.91	4.50	0.88	5.10	4.50	1.03	4.36	4.50	1.23	3.67	4.50	
18°C	4.50	0.65	6.95	4.50	0.74	6.05	4.50	0.86	5.22	4.50	1.01	4.45	4.50	1.20	3.74	4.50	
19°C	4.50	0.63	7.12	4.50	0.73	6.19	4.50	0.84	5.33	4.50	0.99	4.54	4.50	1.18	3.81	4.50	
20°C	4.50	0.62	7.29	4.50	0.71	6.33	4.50	0.83	5.44	4.50	0.97	4.63	4.50	1.16	3.88	4.50	
21°C	4.50	0.61	7.37	4.50	0.70	6.41	4.50	0.82	5.50	4.50	0.96	4.68	4.50	1.15	3.92	4.50	
22°C	4.50	0.60	7.45	4.50	0.69	6.49	4.50	0.81	5.56	4.50	0.95	4.73	4.50	1.14	3.95	4.50	
23°C	4.50	0.60	7.53	4.50	0.69	6.56	4.50	0.80	5.63	4.50	0.94	4.77	4.50	1.13	3.99	4.50	
24°C	4.50	0.59	7.61	4.50	0.68	6.64	4.50	0.79	5.69	4.50	0.93	4.82	4.50	1.12	4.03	4.50	
25°C	4.50	0.59	7.69	4.50	0.67	6.72	4.50	0.78	5.75	4.50	0.92	4.87	4.50	1.11	4.06	4.50	
26°C	4.50	0.58	7.77	4.50	0.66	6.80	4.50	0.77	5.81	4.50	0.91	4.92	4.50	1.10	4.10	4.50	
27°C	4.50	0.57	7.85	4.50	0.65	6.88	4.50	0.77	5.87	4.50	0.91	4.97	4.50	1.09	4.14	4.50	
28°C	4.50	0.57	7.94	4.50	0.65	6.95	4.50	0.76	5.94	4.50	0.90	5.01	4.50	1.08	4.17	4.50	
29°C	4.50	0.56	8.02	4.50	0.64	7.03	4.50	0.75	6.00	4.50	0.89	5.06	4.50	1.07	4.21	4.50	
30°C	4.50	0.56	8.10	4.50	0.63	7.11	4.50	0.74	6.06	4.50	0.88	5.11	4.50	1.06	4.25	4.50	
31°C	4.50	0.55	8.18	4.50	0.63	7.19	4.50	0.74	6.12	4.50	0.87	5.16	4.50	1.05	4.28	4.50	
32°C	4.50	0.54	8.26	4.50	0.62	7.27	4.50	0.73	6.18	4.50	0.86	5.21	4.50	1.04	4.32	4.50	
33°C	4.50	0.54	8.34	4.50	0.61	7.34	4.50	0.72	6.25	4.50	0.86	5.25	4.50	1.03	4.36	4.50	
34°C	4.50	0.53	8.42	4.50	0.61	7.42	4.50	0.71	6.31	4.50	0.85	5.30	4.50	1.03	4.39	4.50	
35°C	4.50	0.53	8.50	4.50	0.60	7.50	4.50	0.71	6.37	4.50	0.84	5.35	4.50	1.02	4.43	4.50	

FT : Flow temperature
 OT : Outdoor temperature
 HC : Heating capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

The values of heating capacity/power input/COP are based on measurement of EN14511 standard;
 FT < 45°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 35°C / 30°C, 780 l/h
 FT ≥ 45°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 45°C / 40°C, 783 l/h
 FT = 55°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 55°C / 47°C, 491 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

MODEL: WO*A060 (6.0kW type)

FT	30°C			35°C			40°C			45°C			50°C		55°C		
	OT	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	
-20°C	3.72	1.68	2.21	3.67	1.78	2.06	3.60	1.92	1.87	—	—	—	—	—	—	—	
-19°C	3.79	1.66	2.28	3.74	1.76	2.13	3.67	1.90	1.93	—	—	—	—	—	—	—	
-18°C	3.87	1.64	2.36	3.82	1.73	2.21	3.75	1.88	1.99	3.77	2.01	1.88	—	—	—	—	
-17°C	3.95	1.62	2.44	3.89	1.71	2.27	3.82	1.85	2.06	3.82	1.99	1.91	—	—	—	—	
-16°C	4.02	1.60	2.51	3.97	1.69	2.35	3.90	1.83	2.13	3.86	1.98	1.95	—	—	—	—	
-15°C	4.10	1.58	2.60	4.04	1.67	2.42	3.97	1.80	2.20	3.91	1.96	1.99	—	—	—	—	
-14°C	4.17	1.59	2.62	4.11	1.68	2.45	4.04	1.81	2.23	3.98	1.97	2.02	3.68	2.09	1.76	—	
-13°C	4.25	1.60	2.66	4.18	1.69	2.47	4.11	1.82	2.26	4.05	1.98	2.05	3.75	2.10	1.78	—	
-12°C	4.32	1.60	2.70	4.25	1.69	2.51	4.18	1.83	2.28	4.11	1.99	2.07	3.82	2.11	1.81	—	
-11°C	4.39	1.61	2.73	4.32	1.70	2.54	4.25	1.84	2.31	4.18	2.00	2.09	3.88	2.12	1.83	—	
-10°C	4.46	1.62	2.75	4.39	1.71	2.57	4.32	1.85	2.34	4.25	2.01	2.11	3.95	2.13	1.85	3.53	
-9°C	4.54	1.63	2.79	4.46	1.72	2.59	4.39	1.85	2.37	4.32	2.02	2.14	4.02	2.14	1.88	3.64	
-8°C	4.61	1.64	2.81	4.53	1.73	2.62	4.46	1.86	2.40	4.38	2.03	2.16	4.08	2.15	1.90	3.74	
-7°C	4.68	1.65	2.84	4.60	1.74	2.64	4.53	1.87	2.42	4.45	2.04	2.18	4.15	2.16	1.92	3.85	
-6°C	4.74	1.63	2.91	4.64	1.72	2.70	4.55	1.84	2.47	4.46	2.00	2.23	4.19	2.13	1.97	3.92	
-5°C	4.79	1.62	2.96	4.68	1.69	2.77	4.57	1.81	2.52	4.46	1.96	2.28	4.23	2.11	2.00	3.99	
-4°C	4.85	1.60	3.03	4.72	1.67	2.83	4.60	1.78	2.58	4.47	1.92	2.33	4.27	2.08	2.05	4.07	
-3°C	4.90	1.59	3.08	4.76	1.65	2.88	4.62	1.75	2.64	4.47	1.88	2.38	4.31	2.06	2.09	4.14	
-2°C	4.96	1.57	3.16	4.79	1.62	2.96	4.64	1.72	2.70	4.48	1.85	2.42	4.34	2.03	2.14	4.21	
-1°C	5.01	1.56	3.21	4.83	1.60	3.02	4.66	1.69	2.76	4.48	1.81	2.48	4.38	2.01	2.18	4.28	
0°C	5.07	1.54	3.29	4.87	1.58	3.08	4.68	1.66	2.82	4.49	1.77	2.54	4.42	1.98	2.23	4.36	
1°C	5.12	1.53	3.35	4.91	1.55	3.17	4.70	1.63	2.88	4.49	1.73	2.60	4.46	1.96	2.28	4.43	
2°C	5.18	1.51	3.43	4.95	1.53	3.24	4.73	1.60	2.95	4.50	1.69	2.70	4.50	1.93	2.33	4.50	
3°C	5.50	1.49	3.69	5.21	1.51	3.45	4.93	1.57	3.14	4.65	1.65	2.82	4.58	1.86	2.46	4.50	
4°C	5.82	1.47	3.96	5.48	1.49	3.68	5.14	1.55	3.32	4.80	1.62	2.96	4.65	1.80	2.58	4.50	
5°C	6.45	1.47	4.40	6.00	1.49	4.04	5.55	1.53	3.63	5.10	1.57	3.24	4.80	1.70	2.83	4.50	
6°C	6.45	1.42	4.54	6.00	1.44	4.16	5.55	1.49	3.73	5.10	1.54	3.32	4.80	1.66	2.89	4.50	
7°C	6.45	1.38	4.67	6.00	1.41	4.27	5.55	1.45	3.83	5.10	1.50	3.40	4.80	1.62	2.96	4.50	
8°C	6.45	1.34	4.80	6.00	1.37	4.38	5.55	1.41	3.93	5.10	1.47	3.48	4.80	1.58	3.03	4.50	
9°C	6.45	1.31	4.94	6.00	1.33	4.50	5.55	1.38	4.03	5.10	1.43	3.56	4.80	1.55	3.09	4.50	
10°C	6.45	1.27	5.07	6.00	1.30	4.61	5.55	1.34	4.13	5.10	1.40	3.65	4.80	1.52	3.16	4.50	
11°C	6.45	1.24	5.21	6.00	1.27	4.73	5.55	1.32	4.22	5.10	1.37	3.73	4.80	1.49	3.23	4.50	
12°C	6.45	1.21	5.34	6.00	1.24	4.84	5.55	1.28	4.32	5.10	1.34	3.81	4.80	1.46	3.29	4.50	
13°C	6.45	1.18	5.48	6.00	1.21	4.96	5.55	1.26	4.42	5.10	1.31	3.89	4.80	1.43	3.36	4.50	
14°C	6.45	1.15	5.61	6.00	1.18	5.07	5.55	1.23	4.52	5.10	1.28	3.98	4.80	1.40	3.43	4.50	
15°C	6.45	1.12	5.75	6.00	1.16	5.19	5.55	1.20	4.62	5.10	1.26	4.06	4.80	1.37	3.50	4.50	
16°C	6.45	1.10	5.88	6.00	1.13	5.30	5.55	1.18	4.72	5.10	1.23	4.14	4.80	1.35	3.56	4.50	
17°C	6.45	1.07	6.02	6.00	1.11	5.42	5.55	1.15	4.81	5.10	1.21	4.22	4.80	1.32	3.63	4.50	
18°C	6.45	1.05	6.15	6.00	1.08	5.53	5.55	1.13	4.91	5.10	1.18	4.31	4.80	1.30	3.70	4.50	
19°C	6.45	1.03	6.29	6.00	1.06	5.65	5.55	1.11	5.01	5.10	1.16	4.39	4.80	1.28	3.76	4.50	
20°C	6.45	1.00	6.42	6.00	1.04	5.76	5.55	1.09	5.11	5.10	1.14	4.47	4.80	1.25	3.83	4.50	
21°C	6.45	1.00	6.48	6.00	1.03	5.82	5.55	1.08	5.16	5.10	1.13	4.51	4.80	1.24	3.86	4.50	
22°C	6.45	0.98	6.55	6.00	1.02	5.87	5.55	1.07	5.20	5.10	1.12	4.55	4.80	1.23	3.90	4.50	
23°C	6.45	0.98	6.61	6.00	1.01	5.93	5.55	1.06	5.25	5.10	1.11	4.59	4.80	1.22	3.93	4.50	
24°C	6.45	0.97	6.67	6.00	1.00	5.98	5.55	1.05	5.30	5.10	1.10	4.63	4.80	1.21	3.96	4.50	
25°C	6.45	0.96	6.73	6.00	0.99	6.04	5.55	1.04	5.35	5.10	1.09	4.67	4.80	1.20	4.00	4.50	
26°C	6.45	0.95	6.80	6.00	0.98	6.10	5.55	1.03	5.39	5.10	1.08	4.71	4.80	1.19	4.03	4.50	
27°C	6.45	0.94	6.86	6.00	0.98	6.15	5.55	1.02	5.44	5.10	1.07	4.75	4.80	1.18	4.06	4.50	
28°C	6.45	0.93	6.92	6.00	0.97	6.21	5.55	1.01	5.49	5.10	1.06	4.79	4.80	1.17	4.10	4.50	
29°C	6.45	0.92	6.98	6.00	0.96	6.26	5.55	1.00	5.54	5.10	1.06	4.83	4.80	1.16	4.13	4.50	
30°C	6.45	0.91	7.05	6.00	0.95	6.32	5.55	0.99	5.58	5.10	1.05	4.87	4.80	1.15	4.16	4.50	
31°C	6.45	0.91	7.11	6.00	0.94	6.38	5.55	0.99	5.63	5.10	1.04	4.91	4.80	1.14	4.20	4.50	
32°C	6.45	0.90	7.17	6.00	0.93	6.43	5.55	0.98	5.68	5.10	1.03	4.95	4.80	1.13	4.23	4.50	
33°C	6.45	0.89	7.23	6.00	0.92	6.49	5.55	0.97	5.73	5.10	1.02	4.99	4.80	1.13	4.26	4.50	
34°C	6.45	0.88	7.30	6.00	0.92	6.54	5.55	0.96	5.77	5.10	1.01	5.03	4.80	1.12	4.30	4.50	
35°C	6.45	0.88	7.36	6.00	0.91	6.60	5.55	0.95	5.82	5.10	1.01	5.07	4.80	1.11	4.33	4.50	

FT : Flow temperature
 OT : Outdoor temperature
 HC : Heating capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

The values of heating capacity/power input/COP are based on measurement of EN14511 standard;
 FT < 45°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 35°C / 30°C, 1040 l/h
 FT ≥ 45°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 45°C / 40°C, 887 l/h
 FT = 55°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 55°C / 47°C, 491 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

MODEL: WO*A080

FT	30°C			35°C			40°C			45°C			50°C			55°C			
	OT	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
-20°C	4.49	2.03	2.21	4.26	2.13	2.00	4.03	2.21	1.82	—	—	—	—	—	—	—	—	—	—
-19°C	4.91	2.21	2.22	4.66	2.33	2.00	4.40	2.42	1.82	—	—	—	—	—	—	—	—	—	—
-18°C	5.32	2.40	2.22	5.05	2.52	2.00	4.78	2.62	1.82	4.46	2.63	1.70	—	—	—	—	—	—	—
-17°C	5.74	2.58	2.22	5.45	2.72	2.00	5.16	2.82	1.83	4.61	2.69	1.71	—	—	—	—	—	—	—
-16°C	5.77	2.54	2.27	5.48	2.67	2.05	5.18	2.77	1.87	4.75	2.75	1.73	—	—	—	—	—	—	—
-15°C	5.80	2.49	2.33	5.50	2.62	2.10	5.20	2.72	1.91	4.90	2.82	1.74	—	—	—	—	—	—	—
-14°C	5.83	2.45	2.38	5.53	2.57	2.15	5.22	2.67	1.96	4.92	2.77	1.78	4.90	3.10	1.58	—	—	—	—
-13°C	5.86	2.40	2.44	5.55	2.52	2.20	5.25	2.63	2.00	4.94	2.73	1.81	4.92	3.06	1.61	—	—	—	—
-12°C	5.89	2.36	2.50	5.58	2.47	2.26	5.27	2.58	2.04	4.96	2.69	1.84	4.94	3.02	1.64	—	—	—	—
-11°C	5.92	2.31	2.56	5.60	2.42	2.31	5.29	2.53	2.09	4.98	2.64	1.89	4.96	2.97	1.67	—	—	—	—
-10°C	5.94	2.27	2.62	5.63	2.38	2.37	5.31	2.48	2.14	4.99	2.60	1.92	4.98	2.93	1.70	4.86	3.31	1.47	—
-9°C	5.97	2.22	2.69	5.65	2.33	2.42	5.34	2.44	2.19	5.01	2.56	1.96	4.99	2.89	1.73	4.91	3.28	1.50	—
-8°C	6.00	2.18	2.75	5.68	2.28	2.49	5.36	2.39	2.24	5.03	2.51	2.00	5.01	2.84	1.76	4.95	3.24	1.53	—
-7°C	6.03	2.13	2.83	5.70	2.23	2.56	5.38	2.34	2.30	5.05	2.47	2.04	5.03	2.80	1.80	5.00	3.21	1.56	—
-6°C	6.02	2.09	2.88	5.69	2.18	2.61	5.37	2.28	2.36	5.04	2.41	2.09	5.05	2.74	1.84	5.00	3.13	1.60	—
-5°C	6.02	2.05	2.94	5.69	2.13	2.67	5.37	2.23	2.41	5.04	2.35	2.14	5.07	2.69	1.88	5.00	3.06	1.63	—
-4°C	6.01	2.01	2.99	5.68	2.08	2.73	5.36	2.17	2.47	5.03	2.29	2.20	5.09	2.63	1.94	5.00	2.99	1.67	—
-3°C	6.01	1.97	3.05	5.68	2.03	2.80	5.36	2.12	2.53	5.03	2.23	2.26	5.11	2.57	1.99	5.00	2.92	1.71	—
-2°C	6.00	1.92	3.13	5.67	1.98	2.86	5.35	2.06	2.60	5.02	2.16	2.32	5.12	2.51	2.04	5.00	2.85	1.75	—
-1°C	6.00	1.88	3.19	5.67	1.93	2.94	5.34	2.01	2.66	5.02	2.10	2.39	5.14	2.46	2.09	5.00	2.78	1.80	—
0°C	5.99	1.84	3.26	5.66	1.88	3.01	5.34	1.95	2.74	5.01	2.04	2.46	5.16	2.40	2.15	5.00	2.71	1.85	—
1°C	5.99	1.80	3.33	5.66	1.83	3.09	5.33	1.90	2.81	5.01	1.98	2.53	5.18	2.34	2.21	5.00	2.64	1.89	—
2°C	5.98	1.76	3.40	5.65	1.78	3.17	5.33	1.84	2.89	5.00	1.92	2.60	5.20	2.29	2.28	5.00	2.56	1.95	—
3°C	6.52	1.79	3.64	6.11	1.81	3.38	5.71	1.86	3.07	5.30	1.92	2.76	5.30	2.19	2.42	5.00	2.41	2.07	—
4°C	7.07	1.82	3.88	6.58	1.84	3.58	6.09	1.88	3.24	5.60	1.92	2.92	5.40	2.10	2.57	5.00	2.26	2.21	—
5°C	7.61	1.85	4.18	7.04	1.86	3.85	6.47	1.89	3.50	6.20	1.95	3.18	5.60	1.96	2.86	5.00	1.98	2.53	—
6°C	8.15	1.88	4.33	7.50	1.89	3.96	6.85	1.91	3.59	6.20	1.91	3.25	5.60	1.92	2.91	5.00	1.96	2.55	—
7°C	8.15	1.82	4.48	7.50	1.84	4.08	6.85	1.86	3.68	6.20	1.87	3.31	5.60	1.90	2.95	5.00	1.94	2.58	—
8°C	8.15	1.76	4.63	7.50	1.79	4.20	6.85	1.82	3.77	6.20	1.84	3.37	5.60	1.87	2.99	5.00	1.92	2.61	—
9°C	8.15	1.71	4.78	7.50	1.74	4.31	6.85	1.77	3.86	6.20	1.80	3.44	5.60	1.84	3.04	5.00	1.90	2.63	—
10°C	8.15	1.66	4.92	7.50	1.69	4.43	6.85	1.73	3.95	6.20	1.77	3.50	5.60	1.82	3.08	5.00	1.88	2.66	—
11°C	8.15	1.61	5.07	7.50	1.65	4.55	6.85	1.70	4.04	6.20	1.74	3.57	5.60	1.79	3.12	5.00	1.86	2.69	—
12°C	8.15	1.56	5.22	7.50	1.61	4.66	6.85	1.66	4.13	6.20	1.71	3.63	5.60	1.77	3.17	5.00	1.85	2.71	—
13°C	8.15	1.52	5.37	7.50	1.57	4.78	6.85	1.62	4.22	6.20	1.68	3.70	5.60	1.74	3.21	5.00	1.82	2.74	—
14°C	8.15	1.48	5.51	7.50	1.53	4.90	6.85	1.59	4.31	6.20	1.65	3.76	5.60	1.72	3.25	5.00	1.81	2.77	—
15°C	8.15	1.44	5.66	7.50	1.49	5.02	6.85	1.56	4.40	6.20	1.62	3.83	5.60	1.70	3.29	5.00	1.79	2.80	—
16°C	8.15	1.40	5.81	7.50	1.46	5.13	6.85	1.53	4.49	6.20	1.59	3.89	5.60	1.68	3.34	5.00	1.77	2.82	—
17°C	8.15	1.37	5.96	7.50	1.43	5.25	6.85	1.50	4.58	6.20	1.57	3.96	5.60	1.66	3.38	5.00	1.75	2.85	—
18°C	8.15	1.34	6.10	7.50	1.40	5.37	6.85	1.47	4.67	6.20	1.54	4.02	5.60	1.64	3.42	5.00	1.74	2.88	—
19°C	8.15	1.30	6.25	7.50	1.37	5.48	6.85	1.44	4.76	6.20	1.52	4.09	5.60	1.61	3.47	5.00	1.72	2.90	—
20°C	8.15	1.27	6.40	7.50	1.34	5.60	6.85	1.41	4.85	6.20	1.49	4.15	5.60	1.60	3.51	5.00	1.71	2.93	—
21°C	8.15	1.26	6.46	7.50	1.33	5.65	6.85	1.40	4.90	6.20	1.48	4.19	5.60	1.58	3.54	5.00	1.69	2.96	—
22°C	8.15	1.25	6.52	7.50	1.31	5.71	6.85	1.39	4.94	6.20	1.47	4.23	5.60	1.56	3.58	5.00	1.67	2.99	—
23°C	8.15	1.24	6.59	7.50	1.30	5.76	6.85	1.37	4.99	6.20	1.45	4.27	5.60	1.55	3.61	5.00	1.66	3.01	—
24°C	8.15	1.23	6.65	7.50	1.29	5.81	6.85	1.36	5.03	6.20	1.44	4.31	5.60	1.53	3.65	5.00	1.64	3.04	—
25°C	8.15	1.21	6.71	7.50	1.28	5.87	6.85	1.35	5.08	6.20	1.43	4.35	5.60	1.52	3.68	5.00	1.63	3.07	—
26°C	8.15	1.20	6.77	7.50	1.27	5.92	6.85	1.34	5.13	6.20	1.41	4.39	5.60	1.51	3.71	5.00	1.61	3.10	—
27°C	8.15	1.19	6.83	7.50	1.26	5.97	6.85	1.32	5.17	6.20	1.40	4.43	5.60	1.49	3.75	5.00	1.60	3.13	—
28°C	8.15	1.18	6.90	7.50	1.24	6.03	6.85	1.31	5.22	6.20	1.39	4.47	5.60	1.48	3.78	5.00	1.59	3.15	—
29°C	8.15	1.17	6.96	7.50	1.23	6.08	6.85	1.30	5.26	6.20	1.37	4.51	5.60	1.47	3.82	5.00	1.57	3.18	—
30°C	8.15	1.16	7.02	7.50	1.22	6.13	6.85	1.29	5.31	6.20	1.36	4.55	5.60	1.45	3.85	5.00	1.56	3.21	—
31°C	8.15	1.15	7.08	7.50	1.21	6.19	6.85	1.28	5.36	6.20	1.35	4.59	5.60	1.44	3.88	5.00	1.54	3.24	—
32°C	8.15	1.14	7.14	7.50	1.20	6.24	6.85	1.27	5.40	6.20	1.34	4.63	5.60	1.43	3.92	5.00	1.53	3.27	—
33°C	8.15	1.13	7.21	7.50	1.19	6.29	6.85	1.26	5.45	6.20	1.33	4.67	5.60	1.42	3.95	5.00	1.52	3.29	—
34°C	8.15	1.12	7.27	7.50	1.18	6.35	6.85	1.25	5.49	6.20	1.32	4.71	5.60	1.40	3.99	5.00	1.51	3.32	—
35°C	8.15	1.11	7.33	7.50	1.17	6.40	6.85	1.24	5.54	6.20	1.31	4.75	5.60	1.39	4.02	5.00	1.49	3.35	—

FT : Flow temperature
 OT : Outdoor temperature
 HC : Heating capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

The values of heating capacity/power input/COP are based on measurement of EN14511 standard:
 FT < 45°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 35°C / 30°C, 1300 l/h
 FT ≥ 45°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 45°C / 40°C, 1079 l/h
 FT = 55°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 55°C / 47°C, 546 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

MODEL: WO*A100

FT	30°C			35°C			40°C			45°C			50°C			55°C			
	OT	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
-20°C	5.97	2.57	2.32	5.89	2.86	2.06	5.60	3.05	1.84	—	—	—	—	—	—	—	—	—	—
-19°C	6.41	2.72	2.36	6.31	3.01	2.10	5.97	3.20	1.87	—	—	—	—	—	—	—	—	—	—
-18°C	6.84	2.86	2.39	6.73	3.17	2.12	6.34	3.36	1.89	6.03	3.49	1.73	—	—	—	—	—	—	—
-17°C	7.28	3.01	2.42	7.15	3.33	2.15	6.71	3.51	1.91	6.18	3.54	1.75	—	—	—	—	—	—	—
-16°C	7.29	2.97	2.45	7.18	3.29	2.18	6.78	3.50	1.94	6.34	3.60	1.76	—	—	—	—	—	—	—
-15°C	7.30	2.93	2.49	7.20	3.26	2.21	6.85	3.48	1.97	6.50	3.65	1.78	—	—	—	—	—	—	—
-14°C	7.31	2.90	2.52	7.23	3.22	2.25	6.92	3.46	2.00	6.61	3.66	1.81	6.41	3.91	1.64	—	—	—	—
-13°C	7.33	2.86	2.56	7.25	3.19	2.27	6.99	3.44	2.03	6.72	3.66	1.84	6.52	3.92	1.66	—	—	—	—
-12°C	7.34	2.82	2.60	7.28	3.15	2.31	7.06	3.42	2.06	6.84	3.67	1.86	6.63	3.92	1.69	—	—	—	—
-11°C	7.35	2.79	2.63	7.30	3.11	2.35	7.13	3.40	2.10	6.95	3.68	1.89	6.75	3.93	1.72	—	—	—	—
-10°C	7.36	2.75	2.68	7.33	3.08	2.38	7.19	3.39	2.12	7.06	3.68	1.92	6.86	3.94	1.74	5.89	4.09	1.44	—
-9°C	7.38	2.71	2.72	7.35	3.04	2.42	7.26	3.37	2.15	7.17	3.69	1.94	6.97	3.94	1.77	6.26	4.11	1.52	—
-8°C	7.39	2.68	2.76	7.38	3.01	2.45	7.33	3.35	2.19	7.29	3.69	1.98	7.09	3.95	1.80	6.63	4.13	1.61	—
-7°C	7.40	2.64	2.78	7.40	2.97	2.49	7.40	3.33	2.22	7.40	3.70	2.00	7.20	3.95	1.82	7.00	4.15	1.69	—
-6°C	7.48	2.62	2.85	7.43	2.91	2.55	7.38	3.24	2.28	7.33	3.58	2.05	7.16	3.85	1.86	6.98	4.10	1.70	—
-5°C	7.57	2.60	2.91	7.47	2.86	2.61	7.37	3.15	2.34	7.27	3.46	2.10	7.11	3.74	1.90	6.96	4.05	1.72	—
-4°C	7.65	2.59	2.95	7.50	2.80	2.68	7.35	3.06	2.40	7.20	3.34	2.16	7.07	3.64	1.94	6.93	4.00	1.73	—
-3°C	7.73	2.57	3.01	7.53	2.75	2.74	7.33	2.97	2.47	7.13	3.22	2.21	7.02	3.54	1.98	6.91	3.95	1.75	—
-2°C	7.82	2.55	3.07	7.57	2.69	2.81	7.32	2.87	2.55	7.07	3.10	2.28	6.98	3.43	2.03	6.89	3.90	1.77	—
-1°C	7.90	2.53	3.12	7.60	2.64	2.88	7.30	2.78	2.63	7.00	2.98	2.35	6.93	3.33	2.08	6.87	3.85	1.78	—
0°C	7.98	2.52	3.17	7.63	2.58	2.96	7.28	2.69	2.71	6.93	2.86	2.42	6.89	3.23	2.13	6.84	3.80	1.80	—
1°C	8.07	2.50	3.23	7.67	2.53	3.03	7.27	2.60	2.80	6.87	2.74	2.51	6.84	3.12	2.19	6.82	3.75	1.82	—
2°C	8.15	2.48	3.29	7.70	2.47	3.12	7.25	2.51	2.89	6.80	2.62	2.60	6.80	3.02	2.25	6.80	3.70	1.84	—
3°C	8.83	2.50	3.53	8.28	2.49	3.33	7.72	2.52	3.06	7.17	2.61	2.75	7.01	2.95	2.38	6.85	3.50	1.96	—
4°C	9.51	2.52	3.77	8.85	2.52	3.51	8.20	2.54	3.23	7.54	2.61	2.89	7.22	2.87	2.52	6.90	3.31	2.08	—
5°C	10.19	2.54	4.10	9.43	2.54	3.81	8.67	2.55	3.48	7.90	2.60	3.12	7.43	2.80	2.75	6.95	3.11	2.35	—
6°C	10.87	2.56	4.24	10.00	2.56	3.91	9.14	2.56	3.57	8.27	2.59	3.19	7.64	2.72	2.81	7.00	2.92	2.40	—
7°C	10.87	2.49	4.37	10.00	2.49	4.02	9.14	2.50	3.66	8.27	2.53	3.27	7.64	2.66	2.87	7.00	2.86	2.45	—
8°C	10.87	2.42	4.50	10.00	2.42	4.13	9.14	2.44	3.75	8.27	2.47	3.35	7.64	2.61	2.93	7.00	2.80	2.50	—
9°C	10.87	2.34	4.64	10.00	2.36	4.23	9.14	2.38	3.84	8.27	2.42	3.42	7.64	2.56	2.99	7.00	2.75	2.55	—
10°C	10.87	2.28	4.77	10.00	2.30	4.34	9.14	2.33	3.93	8.27	2.36	3.50	7.64	2.50	3.05	7.00	2.69	2.60	—
11°C	10.87	2.22	4.90	10.00	2.25	4.44	9.14	2.27	4.02	8.27	2.32	3.57	7.64	2.45	3.12	7.00	2.65	2.64	—
12°C	10.87	2.16	5.04	10.00	2.20	4.55	9.14	2.22	4.11	8.27	2.27	3.65	7.64	2.40	3.18	7.00	2.60	2.69	—
13°C	10.87	2.10	5.17	10.00	2.15	4.66	9.14	2.18	4.20	8.27	2.22	3.72	7.64	2.36	3.24	7.00	2.55	2.74	—
14°C	10.87	2.05	5.30	10.00	2.10	4.76	9.14	2.13	4.29	8.27	2.18	3.80	7.64	2.32	3.30	7.00	2.51	2.79	—
15°C	10.87	2.00	5.43	10.00	2.05	4.87	9.14	2.09	4.38	8.27	2.14	3.87	7.64	2.27	3.36	7.00	2.46	2.84	—
16°C	10.87	1.95	5.57	10.00	2.01	4.98	9.14	2.04	4.47	8.27	2.09	3.95	7.64	2.23	3.42	7.00	2.42	2.89	—
17°C	10.87	1.91	5.70	10.00	1.97	5.08	9.14	2.00	4.56	8.27	2.06	4.02	7.64	2.19	3.49	7.00	2.39	2.93	—
18°C	10.87	1.86	5.83	10.00	1.93	5.19	9.14	1.97	4.65	8.27	2.02	4.10	7.64	2.15	3.55	7.00	2.35	2.98	—
19°C	10.87	1.82	5.97	10.00	1.89	5.29	9.14	1.93	4.74	8.27	1.98	4.17	7.64	2.12	3.61	7.00	2.31	3.03	—
20°C	10.87	1.82	6.10	10.00	1.85	5.40	9.14	1.89	4.83	8.27	1.95	4.25	7.64	2.08	3.67	7.00	2.27	3.08	—
21°C	10.87	1.77	6.15	10.00	1.84	5.43	9.14	1.88	4.86	8.27	1.93	4.28	7.64	2.06	3.70	7.00	2.26	3.10	—
22°C	10.87	1.76	6.19	10.00	1.83	5.46	9.14	1.87	4.89	8.27	1.92	4.31	7.64	2.05	3.72	7.00	2.24	3.13	—
23°C	10.87	1.74	6.24	10.00	1.82	5.49	9.14	1.86	4.92	8.27	1.91	4.34	7.64	2.04	3.75	7.00	2.22	3.15	—
24°C	10.87	1.73	6.29	10.00	1.81	5.53	9.14	1.85	4.95	8.27	1.89	4.37	7.64	2.02	3.78	7.00	2.20	3.18	—
25°C	10.87	1.72	6.33	10.00	1.80	5.56	9.14	1.84	4.98	8.27	1.88	4.40	7.64	2.01	3.81	7.00	2.19	3.20	—
26°C	10.87	1.70	6.38	10.00	1.79	5.59	9.14	1.82	5.01	8.27	1.87	4.43	7.64	1.99	3.83	7.00	2.17	3.23	—
27°C	10.87	1.69	6.43	10.00	1.78	5.62	9.14	1.81	5.04	8.27	1.85	4.46	7.64	1.98	3.86	7.00	2.15	3.25	—
28°C	10.87	1.68	6.47	10.00	1.77	5.65	9.14	1.80	5.08	8.27	1.85	4.48	7.64	1.96	3.89	7.00	2.13	3.28	—
29°C	10.87	1.67	6.52	10.00	1.76	5.68	9.14	1.79	5.11	8.27	1.83	4.51	7.64	1.95	3.92	7.00	2.12	3.30	—
30°C	10.87	1.65	6.57	10.00	1.75	5.71	9.14	1.78	5.14	8.27	1.82	4.54	7.64	1.94	3.94	7.00	2.10	3.33	—
31°C	10.87	1.64	6.61	10.00	1.74	5.74	9.14	1.77	5.17	8.27	1.81	4.57	7.64	1.92	3.97	7.00	2.09	3.35	—
32°C	10.87	1.63	6.66	10.00	1.73	5.78	9.14	1.76	5.20	8.27	1.80	4.60	7.64	1.91	4.00	7.00	2.07	3.38	—
33°C	10.87	1.62	6.71	10.00	1.72	5.81	9.14	1.75	5.23	8.27	1.79	4.63	7.64	1.90	4.03	7.00	2.06	3.40	—
34°C	10.87	1.61	6.75	10.00	1.71	5.84	9.14	1.74	5.26	8.27	1.77	4.66	7.64	1.89	4.05	7.00	2.04	3.43	—
35°C	10.87	1.69	6.80	10.00	1.70	5.87	9.14	1.73	5.29	8.27	1.76	4.69	7.64	1.87	4.08	7.00	2.03	3.45	—

FT : Flow temperature
 OT : Outdoor temperature
 HC : Heating capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

The values of heating capacity/power input/COP are based on measurement of EN14511 standard;
 FT < 45°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 35°C / 30°C, 1733 l/h
 FT ≥ 45°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 45°C / 40°C, 1439 l/h
 FT = 55°C : The flow rate obtained during the test at the standard rating conditions of OT 7°C and Water temp. flow/return 55°C / 47°C, 764 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

HEATING CAPACITY

MODEL: WO*G112

FT	30°C			35°C			40°C			45°C			50°C			55°C			60°C			
	OT	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
-25°C	5.57	3.49	1.60	5.22	3.50	1.49	4.87	3.50	1.39	4.51	3.51	1.28	4.16	3.51	1.19	-	-	-	-	-	-	-
-24°C	7.27	4.18	1.74	6.78	4.21	1.61	6.23	4.23	1.47	5.88	4.25	1.38	6.27	5.00	1.25	-	-	-	-	-	-	-
-23°C	8.96	4.86	1.84	8.34	4.92	1.70	7.59	4.95	1.53	7.24	4.98	1.45	6.51	5.00	1.30	-	-	-	-	-	-	-
-22°C	9.23	4.86	1.90	8.64	4.92	1.76	7.90	4.95	1.60	7.48	4.98	1.50	6.74	5.00	1.35	5.95	5.00	1.19	-	-	-	-
-21°C	9.51	4.86	1.96	8.95	4.92	1.82	8.22	4.95	1.66	7.72	4.98	1.55	6.98	5.00	1.40	6.18	5.00	1.24	-	-	-	-
-20°C	9.78	4.86	2.01	9.26	4.92	1.88	8.53	4.95	1.72	7.96	4.98	1.60	7.22	5.00	1.44	6.41	5.00	1.28	5.64	5.00	1.13	-
-19°C	9.94	4.81	2.07	9.48	4.92	1.93	8.78	4.95	1.77	8.20	4.98	1.65	7.44	5.00	1.49	6.64	5.00	1.33	5.75	5.00	1.15	-
-18°C	10.10	4.76	2.12	9.71	4.92	1.97	9.03	4.95	1.82	8.44	4.98	1.69	7.66	5.00	1.53	6.87	5.00	1.37	5.86	5.00	1.17	-
-17°C	10.26	4.72	2.17	9.93	4.92	2.02	9.27	4.95	1.87	8.68	4.98	1.74	7.88	5.00	1.58	7.10	5.00	1.42	5.96	5.00	1.19	-
-16°C	10.42	4.67	2.23	10.16	4.92	2.07	9.52	4.95	1.92	8.92	4.98	1.79	8.10	5.00	1.62	7.33	5.00	1.47	6.07	5.00	1.21	-
-15°C	10.58	4.62	2.29	10.38	4.92	2.11	9.77	4.95	1.97	9.16	4.98	1.84	8.32	5.00	1.66	7.56	5.00	1.51	6.18	5.00	1.24	-
-14°C	10.58	4.57	2.30	10.38	4.85	2.14	9.77	4.89	2.00	9.16	4.93	1.86	8.32	4.95	1.68	7.56	4.95	1.53	6.25	4.98	1.26	-
-13°C	10.58	4.51	2.35	10.38	4.77	2.18	9.77	4.83	2.02	9.16	4.88	1.88	8.32	4.90	1.70	7.56	4.89	1.55	6.31	4.95	1.27	-
-12°C	10.58	4.46	2.37	10.38	4.70	2.21	9.77	4.76	2.05	9.16	4.83	1.90	8.32	4.84	1.72	7.56	4.84	1.56	6.38	4.93	1.29	-
-11°C	10.58	4.41	2.40	10.38	4.62	2.25	9.77	4.70	2.08	9.16	4.78	1.92	8.32	4.79	1.74	7.57	4.79	1.58	6.45	4.90	1.32	-
-10°C	10.58	4.35	2.43	10.38	4.55	2.28	9.77	4.64	2.11	9.16	4.73	1.94	8.32	4.74	1.76	7.57	4.73	1.60	6.51	4.88	1.33	-
-9°C	10.58	4.30	2.46	10.38	4.47	2.32	9.77	4.58	2.13	9.16	4.68	1.96	8.32	4.69	1.77	7.57	4.68	1.62	6.58	4.85	1.36	-
-8°C	10.58	4.24	2.50	10.38	4.40	2.36	9.77	4.51	2.17	9.16	4.63	1.98	8.32	4.63	1.80	7.57	4.62	1.64	6.64	4.83	1.37	-
-7°C	10.58	4.19	2.53	10.38	4.32	2.40	9.77	4.45	2.20	9.16	4.58	2.00	8.32	4.58	1.82	7.57	4.57	1.66	6.71	4.80	1.40	-
-6°C	10.64	4.10	2.60	10.42	4.22	2.47	9.79	4.35	2.25	9.15	4.50	2.03	8.32	4.47	1.86	7.57	4.46	1.70	6.73	4.64	1.45	-
-5°C	10.71	4.01	2.67	10.47	4.13	2.54	9.81	4.25	2.31	9.14	4.41	2.07	8.32	4.36	1.91	7.58	4.34	1.75	6.76	4.49	1.51	-
-4°C	10.77	3.92	2.75	10.51	4.03	2.61	9.82	4.15	2.37	9.12	4.33	2.11	8.32	4.25	1.96	7.58	4.23	1.79	6.78	4.33	1.57	-
-3°C	10.83	3.83	2.83	10.55	3.93	2.68	9.84	4.05	2.43	9.11	4.24	2.15	8.32	4.14	2.01	7.58	4.11	1.84	6.80	4.17	1.63	-
-2°C	10.89	3.74	2.91	10.59	3.83	2.77	9.86	3.95	2.50	9.10	4.15	2.19	8.32	4.03	2.06	7.58	4.00	1.90	6.83	4.08	1.67	-
-1°C	10.96	3.65	3.00	10.64	3.73	2.85	9.88	3.85	2.57	9.09	4.07	2.23	8.32	3.92	2.12	7.58	3.88	1.95	6.86	3.99	1.72	-
0°C	11.02	3.55	3.10	10.68	3.64	2.93	9.89	3.75	2.64	9.07	3.98	2.28	8.32	3.82	2.18	7.59	3.77	2.01	6.89	3.89	1.77	-
1°C	11.09	3.46	3.20	10.73	3.54	3.03	9.91	3.65	2.72	9.06	3.90	2.32	8.32	3.71	2.24	7.59	3.65	2.08	6.92	3.80	1.82	-
2°C	11.15	3.37	3.31	10.77	3.44	3.13	9.93	3.55	2.80	9.05	3.81	2.38	8.32	3.60	2.31	7.59	3.54	2.14	6.95	3.71	1.87	-
3°C	11.15	3.28	3.40	10.78	3.22	3.35	9.93	3.35	2.96	9.05	3.58	2.53	8.32	3.45	2.41	7.59	3.43	2.21	6.98	3.62	1.93	-
4°C	11.15	3.19	3.50	10.79	3.00	3.60	9.93	3.15	3.15	9.05	3.36	2.69	8.32	3.31	2.51	7.59	3.31	2.29	7.02	3.59	1.96	-
5°C	11.15	3.10	3.60	10.80	2.78	3.88	9.93	2.95	3.37	9.05	3.13	2.89	8.32	3.16	2.63	7.59	3.21	2.36	7.05	3.56	1.98	-
6°C	11.15	2.72	4.10	10.80	2.66	4.06	9.93	2.82	3.52	9.05	2.98	3.04	8.32	3.06	2.72	7.59	3.11	2.44	7.05	3.47	2.03	-
7°C	11.15	2.34	4.76	10.80	2.54	4.25	9.93	2.68	3.71	9.05	2.82	3.21	8.32	2.95	2.82	7.59	3.07	2.47	7.05	3.39	2.08	-
8°C	11.15	2.29	4.87	10.80	2.49	4.34	9.93	2.64	3.76	9.05	2.77	3.27	8.32	2.90	2.87	7.59	3.03	2.50	7.05	3.31	2.13	-
9°C	11.15	2.25	4.96	10.80	2.45	4.41	9.93	2.60	3.82	9.05	2.71	3.34	8.32	2.85	2.92	7.59	3.00	2.53	7.05	3.22	2.19	-
10°C	11.15	2.20	5.07	10.80	2.40	4.50	9.93	2.56	3.88	9.05	2.66	3.40	8.32	2.80	2.97	7.59	2.96	2.56	7.05	3.14	2.25	-
11°C	11.15	2.16	5.16	10.80	2.36	4.58	9.93	2.52	3.94	9.05	2.62	3.45	8.32	2.76	3.01	7.59	2.92	2.60	7.05	3.09	2.28	-
12°C	11.15	2.13	5.23	10.80	2.32	4.66	9.93	2.48	4.00	9.05	2.58	3.51	8.32	2.72	3.06	7.59	2.88	2.64	7.05	3.04	2.32	-
13°C	11.15	2.09	5.33	10.80	2.28	4.74	9.93	2.44	4.07	9.05	2.54	3.56	8.32	2.68	3.10	7.59	2.84	2.67	7.05	2.99	2.36	-
14°C	11.15	2.06	5.41	10.80	2.24	4.82	9.93	2.40	4.14	9.05	2.50	3.62	8.32	2.64	3.15	7.59	2.80	2.71	7.05	2.94	2.40	-
15°C	11.15	2.02	5.52	10.80	2.20	4.91	9.93	2.36	4.21	9.05	2.47	3.66	8.32	2.61	3.19	7.59	2.76	2.75	7.05	2.89	2.44	-
16°C	11.15	1.98	5.63	10.80	2.16	5.00	9.93	2.31	4.30	9.05	2.43	3.72	8.32	2.57	3.24	7.59	2.72	2.79	7.05	2.84	2.48	-
17°C	11.15	1.95	5.72	10.80	2.12	5.09	9.93	2.27	4.37	9.05	2.39	3.79	8.32	2.53	3.29	7.59	2.68	2.83	7.05	2.79	2.53	-
18°C	11.15	1.91	5.84	10.80	2.08	5.19	9.93	2.23	4.45	9.05	2.35	3.85	8.32	2.49	3.34	7.59	2.64	2.88	7.05	2.74	2.57	-
19°C	11.15	1.88	5.93	10.80	2.04	5.29	9.93	2.19	4.53	9.05	2.31	3.92	8.32	2.45	3.40	7.59	2.60	2.92	7.05	2.69	2.62	-
20°C	11.15	1.84	6.06	10.80	2.00	5.40	9.93	2.15	4.62	9.05	2.27	3.99	8.32	2.41	3.45	7.59	2.56	2.96	7.05	2.64	2.67	-
21°C	11.15	1.82	6.13	10.80	1.98	5.45	9.93	2.13	4.66	9.05	2.25	4.02	8.32	2.39	3.48	7.59	2.54	2.99	7.05	2.62	2.69	-
22°C	11.15	1.81	6.16	10.80	1.96	5.51	9.93	2.11	4.71	9.05	2.23	4.06	8.32	2.37	3.51	7.59	2.51	3.02	7.05	2.60	2.71	-
23°C	11.15	1.79	6.23	10.80	1.94	5.57	9.93	2.09	4.75	9.05	2.21	4.10	8.32	2.34	3.56	7.59	2.49	3.05	7.05	2.58	2.73	-
24°C	11.15	1.77	6.30	10.80	1.92	5.63	9.93	2.07	4.80	9.05	2.19	4.13	8.32	2.32	3.59	7.59	2.46	3.09	7.05	2.57	2.74	-
25°C	11.15	1.75	6.37	10.80	1.90	5.68	9.93	2.05	4.84	9.05	2.17	4.17	8.32	2.30	3.62	7.59	2.44	3.11	7.05	2.55	2.76	-
26°C	11.15	1.74	6.41	10.80	1.88	5.74	9.93	2.03	4.89	9.05	2.15	4.21	8.32	2.28	3.65	7.59	2.42	3.14	7.05	2.53	2.79	-
27°C	11.15	1.72	6.48	10.80	1.86	5.81	9.93	2.01	4.94	9.05	2.13	4.25	8.32	2.26	3.68	7.59	2.39	3.18	7.05	2.51	2.81	-
28°C	11.15	1.70	6.56	10.80	1.84	5.87	9.93	1.99	4.99	9.05	2.10	4.31	8.32	2.23	3.73	7.59	2.37	3.20	7.05	2.49	2.83	-
29°C	11.15	1.68	6.64	10.80	1.82	5.93	9.93	1.97	5.04	9.05	2.08	4.35	8.32	2.21	3.76	7.59	2.34	3.24	7.05	2.47	2.85	-
30°C	11.15	1.67	6.68	10.80	1.80	6.00	9.93	1.95	5.09	9.05	2.06	4.39	8.32	2.19	3.80	7.59	2.32	3.27	7.05	2.45	2.88	-
31°C	11.15	1.65	6.76	10.80	1.78	6.07	9.93	1.93	5.15	9.05	2.04	4.44	8.32	2.17	3.83	7.59	2.30	3.30	7.05	2.43	2.90	-
32°C	11.15	1.63	6.84	10.80	1.76	6																

MODEL: WO*G140

FT	30°C			35°C			40°C			45°C			50°C			55°C			60°C			
	OT	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
-25°C	6.50	4.09	1.59	6.09	4.11	1.48	5.68	4.10	1.39	5.26	4.12	1.28	4.85	4.13	1.17	-	-	-	-	-	-	-
-24°C	8.47	4.85	1.75	7.87	4.87	1.62	7.58	4.98	1.52	6.96	5.04	1.38	7.70	6.02	1.28	-	-	-	-	-	-	-
-23°C	10.44	5.60	1.86	9.65	5.63	1.71	9.47	5.86	1.62	8.66	5.96	1.45	7.93	6.02	1.32	-	-	-	-	-	-	-
-22°C	10.70	5.61	1.91	9.94	5.63	1.77	9.70	5.86	1.66	8.91	5.96	1.49	8.15	6.02	1.35	7.30	6.02	1.21	-	-	-	-
-21°C	10.96	5.61	1.95	10.24	5.63	1.82	9.92	5.86	1.69	9.17	5.97	1.54	8.38	6.02	1.39	7.51	6.02	1.25	-	-	-	-
-20°C	11.22	5.61	2.00	10.53	5.63	1.87	10.15	5.86	1.73	9.42	5.98	1.58	8.61	6.02	1.43	7.72	6.02	1.28	6.95	6.02	1.15	-
-19°C	11.42	5.61	2.04	10.73	5.63	1.91	10.38	5.86	1.77	9.67	5.99	1.61	8.84	6.02	1.47	7.93	6.02	1.32	7.00	6.02	1.16	-
-18°C	11.63	5.61	2.07	10.93	5.63	1.94	10.60	5.86	1.81	9.93	6.00	1.66	9.07	6.02	1.51	8.14	6.02	1.35	7.05	6.02	1.17	-
-17°C	11.83	5.62	2.10	11.14	5.63	1.98	10.83	5.86	1.85	10.18	6.00	1.70	9.29	6.02	1.54	8.36	6.02	1.39	7.11	6.02	1.18	-
-16°C	12.04	5.62	2.14	11.34	5.63	2.01	11.05	5.86	1.89	10.44	6.01	1.74	9.52	6.02	1.58	8.57	6.02	1.42	7.16	6.02	1.19	-
-15°C	12.24	5.62	2.18	11.54	5.63	2.05	11.28	5.86	1.92	10.69	6.02	1.78	9.75	6.02	1.62	8.78	6.02	1.46	7.21	6.02	1.20	-
-14°C	12.24	5.55	2.21	11.54	5.56	2.08	11.31	5.82	1.94	10.78	6.01	1.79	9.82	5.96	1.65	8.83	5.90	1.50	7.36	6.02	1.22	-
-13°C	12.24	5.48	2.23	11.54	5.49	2.10	11.33	5.77	1.96	10.87	6.00	1.81	9.89	5.89	1.68	8.89	5.79	1.54	7.51	6.03	1.25	-
-12°C	12.24	5.40	2.27	11.54	5.42	2.13	11.36	5.73	1.98	10.96	5.98	1.83	9.96	5.83	1.71	8.94	5.67	1.58	7.66	6.03	1.27	-
-11°C	12.24	5.33	2.30	11.54	5.36	2.15	11.38	5.68	2.00	11.05	5.97	1.85	10.03	5.76	1.74	8.99	5.55	1.62	7.82	6.03	1.30	-
-10°C	12.24	5.26	2.33	11.54	5.29	2.18	11.41	5.64	2.02	11.14	5.96	1.87	10.10	5.70	1.77	9.04	5.43	1.66	7.97	6.03	1.32	-
-9°C	12.24	5.19	2.36	11.54	5.22	2.21	11.43	5.59	2.04	11.23	5.95	1.89	10.17	5.63	1.81	9.10	5.32	1.71	8.12	6.04	1.34	-
-8°C	12.24	5.11	2.40	11.54	5.15	2.24	11.46	5.55	2.06	11.32	5.93	1.91	10.24	5.57	1.84	9.15	5.20	1.76	8.27	6.04	1.37	-
-7°C	12.24	5.04	2.43	11.54	5.08	2.27	11.48	5.50	2.09	11.41	5.92	1.93	10.31	5.50	1.87	9.20	5.08	1.81	8.42	6.04	1.39	-
-6°C	12.35	4.93	2.51	11.59	4.95	2.34	11.50	5.38	2.14	11.40	5.80	1.97	10.32	5.41	1.91	9.23	5.02	1.84	8.44	5.88	1.44	-
-5°C	12.47	4.82	2.59	11.64	4.81	2.42	11.52	5.25	2.19	11.39	5.69	2.00	10.32	5.32	1.94	9.26	4.96	1.87	8.47	5.72	1.48	-
-4°C	12.58	4.71	2.67	11.69	4.68	2.50	11.54	5.13	2.25	11.38	5.57	2.04	10.33	5.22	1.98	9.29	4.90	1.90	8.49	5.56	1.53	-
-3°C	12.69	4.60	2.76	11.74	4.54	2.59	11.56	5.00	2.31	11.37	5.45	2.09	10.33	5.13	2.01	9.32	4.84	1.93	8.51	5.40	1.58	-
-2°C	12.80	4.49	2.85	11.79	4.41	2.67	11.58	4.87	2.38	11.36	5.33	2.13	10.34	5.04	2.05	9.35	4.78	1.96	8.55	5.29	1.62	-
-1°C	12.91	4.38	2.95	11.84	4.27	2.77	11.60	4.75	2.44	11.35	5.21	2.18	10.34	4.95	2.09	9.38	4.72	1.99	8.59	5.17	1.66	-
0°C	13.03	4.26	3.06	11.90	4.14	2.87	11.62	4.62	2.52	11.34	5.10	2.22	10.35	4.85	2.13	9.42	4.65	2.03	8.63	5.06	1.71	-
1°C	13.14	4.15	3.17	11.95	4.00	2.99	11.64	4.50	2.59	11.33	4.98	2.28	10.35	4.76	2.17	9.45	4.59	2.06	8.67	4.94	1.76	-
2°C	13.25	4.04	3.28	12.00	3.87	3.10	11.66	4.37	2.67	11.32	4.86	2.33	10.36	4.67	2.22	9.48	4.53	2.09	8.71	4.83	1.80	-
3°C	13.48	4.05	3.33	12.50	3.98	3.14	11.90	4.38	2.72	11.32	4.53	2.50	10.36	4.47	2.32	9.51	4.47	2.13	8.75	4.72	1.85	-
4°C	13.72	4.05	3.39	13.00	4.08	3.19	12.13	4.40	2.76	11.32	4.21	2.69	10.36	4.27	2.43	9.54	4.41	2.16	8.78	4.55	1.93	-
5°C	13.95	4.06	3.44	13.50	4.19	3.22	12.37	4.41	2.80	11.32	3.88	2.92	10.36	4.07	2.55	9.48	4.15	2.28	8.81	4.37	2.02	-
6°C	13.95	3.54	3.94	13.50	3.71	3.64	12.37	3.95	3.13	11.32	3.79	2.99	10.36	3.96	2.62	9.48	3.98	2.38	8.81	4.41	2.00	-
7°C	13.95	3.01	4.63	13.50	3.23	4.18	12.37	3.49	3.54	11.32	3.69	3.07	10.36	3.85	2.69	9.48	3.95	2.40	8.81	4.31	2.04	-
8°C	13.95	2.95	4.73	13.50	3.18	4.25	12.37	3.44	3.60	11.32	3.62	3.13	10.36	3.80	2.73	9.48	3.92	2.42	8.81	4.21	2.09	-
9°C	13.95	2.88	4.84	13.50	3.12	4.33	12.37	3.39	3.65	11.32	3.55	3.19	10.36	3.76	2.76	9.48	3.90	2.43	8.81	4.10	2.15	-
10°C	13.95	2.82	4.95	13.50	3.07	4.40	12.37	3.34	3.70	11.32	3.48	3.25	10.36	3.71	2.79	9.48	3.87	2.45	8.81	4.00	2.20	-
11°C	13.95	2.77	5.04	13.50	3.02	4.47	12.37	3.28	3.77	11.32	3.42	3.31	10.36	3.65	2.84	9.48	3.81	2.49	8.81	3.93	2.24	-
12°C	13.95	2.73	5.11	13.50	2.96	4.56	12.37	3.22	3.84	11.32	3.36	3.37	10.36	3.59	2.89	9.48	3.75	2.53	8.81	3.87	2.28	-
13°C	13.95	2.68	5.21	13.50	2.91	4.64	12.37	3.16	3.91	11.32	3.30	3.43	10.36	3.54	2.93	9.48	3.68	2.58	8.81	3.80	2.32	-
14°C	13.95	2.63	5.30	13.50	2.86	4.72	12.37	3.10	3.99	11.32	3.24	3.49	10.36	3.48	2.98	9.48	3.62	2.62	8.81	3.74	2.36	-
15°C	13.95	2.59	5.39	13.50	2.81	4.80	12.37	3.04	4.07	11.32	3.19	3.55	10.36	3.42	3.03	9.48	3.56	2.66	8.81	3.67	2.40	-
16°C	13.95	2.54	5.49	13.50	2.75	4.91	12.37	2.98	4.15	11.32	3.13	3.62	10.36	3.36	3.08	9.48	3.50	2.71	8.81	3.60	2.45	-
17°C	13.95	2.49	5.60	13.50	2.70	5.00	12.37	2.92	4.24	11.32	3.07	3.69	10.36	3.30	3.14	9.48	3.44	2.76	8.81	3.54	2.49	-
18°C	13.95	2.44	5.72	13.50	2.65	5.09	12.37	2.86	4.33	11.32	3.01	3.76	10.36	3.25	3.19	9.48	3.37	2.81	8.81	3.47	2.54	-
19°C	13.95	2.40	5.81	13.50	2.59	5.21	12.37	2.80	4.42	11.32	2.95	3.84	10.36	3.19	3.25	9.48	3.31	2.86	8.81	3.41	2.58	-
20°C	13.95	2.35	5.94	13.50	2.54	5.31	12.37	2.74	4.51	11.32	2.89	3.92	10.36	3.13	3.31	9.48	3.25	2.92	8.81	3.34	2.64	-
21°C	13.95	2.32	6.01	13.50	2.51	5.38	12.37	2.71	4.56	11.32	2.86	3.96	10.36	3.09	3.35	9.48	3.22	2.94	8.81	3.31	2.66	-
22°C	13.95	2.29	6.09	13.50	2.47	5.47	12.37	2.67	4.63	11.32	2.83	4.00	10.36	3.06	3.39	9.48	3.18	2.98	8.81	3.29	2.68	-
23°C	13.95	2.26	6.17	13.50	2.44	5.53	12.37	2.64	4.69	11.32	2.80	4.04	10.36	3.02	3.43	9.48	3.15	3.01	8.81	3.26	2.70	-
24°C	13.95	2.23	6.26	13.50	2.40	5.63	12.37	2.60	4.76	11.32	2.77	4.09	10.36	2.99	3.46	9.48	3.12	3.04	8.81	3.24	2.72	-
25°C	13.95	2.20	6.34	13.50	2.37	5.70	12.37	2.57	4.81	11.32	2.74	4.13	10.36	2.95	3.51	9.48	3.08	3.08	8.81	3.21	2.74	-
26°C	13.95	2.17	6.43	13.50	2.34	5.77	12.37	2.54	4.87	11.32	2.71	4.18	10.36	2.91	3.56	9.48	3.05	3.11	8.81	3.19	2.76	-
27°C	13.95	2.14	6.52	13.50	2.30	5.87	12.37	2.50	4.95	11.32	2.68	4.22	10.36	2.88	3.60	9.48	3.02	3.14	8.81	3.16	2.79	-
28°C	13.95	2.10	6.64	13.50	2.27	5.95	12.37	2.47	5.01	11.32	2.66	4.26	10.36	2.84	3.65	9.48	2.98	3.18	8.81	3.14	2.81	-
29°C	13.95	2.07	6.74	13.50	2.23	6.05	12.37	2.43	5.09	11.32	2.63	4.30	10.36	2.81	3.69	9.48	2.95	3.21	8.81	3.11	2.83	-
30°C	13.95	2.04	6.84	13.50	2.20	6.14	12.37	2.40	5.15	11.32	2.60	4.35	10.36	2.77	3.74	9.48	2.92	3.25	8.81	3.09	2.85	-
31°C	13.95	2.01	6.94	13.50	2.17	6.22	12.37	2.37	5.22	11.32	2.57	4.40	10.36	2.73	3.79	9.48						

MODEL: WO*K160

FT	30°C			35°C			40°C			45°C			50°C			55°C			60°C			
	OT	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
-25°C	6.06	3.59	1.69	5.97	3.98	1.50	5.88	4.37	1.35	5.80	4.76	1.22	5.71	5.15	1.11	-	-	-	-	-	-	-
-24°C	7.49	4.24	1.77	7.42	4.52	1.64	7.38	5.08	1.45	7.36	5.48	1.34	8.88	6.76	1.31	-	-	-	-	-	-	-
-23°C	8.92	4.89	1.82	8.87	5.06	1.75	8.88	5.78	1.54	8.93	6.19	1.44	9.11	6.77	1.35	-	-	-	-	-	-	-
-22°C	9.28	4.92	1.89	9.28	5.11	1.82	9.35	5.82	1.61	9.45	6.32	1.50	9.33	6.78	1.38	8.92	6.98	1.28	-	-	-	-
-21°C	9.64	4.96	1.94	9.69	5.17	1.87	9.82	5.86	1.68	9.97	6.45	1.55	9.56	6.79	1.41	9.14	6.98	1.31	-	-	-	-
-20°C	10.00	4.99	2.00	10.10	5.22	1.93	10.30	5.90	1.74	10.49	6.58	1.59	9.78	6.80	1.44	9.35	6.98	1.34	8.52	6.98	1.22	-
-19°C	10.47	5.07	2.07	10.51	5.30	1.98	10.63	5.97	1.78	10.75	6.60	1.63	10.04	6.80	1.48	9.58	6.98	1.37	8.72	6.98	1.25	-
-18°C	10.94	5.16	2.12	10.92	5.37	2.03	10.97	6.04	1.82	11.01	6.62	1.66	10.30	6.81	1.51	9.80	6.98	1.40	8.91	6.98	1.28	-
-17°C	11.40	5.24	2.18	11.34	5.45	2.08	11.31	6.11	1.85	11.28	6.64	1.70	10.55	6.81	1.55	10.03	6.98	1.44	9.11	6.98	1.31	-
-16°C	11.87	5.33	2.23	11.75	5.52	2.13	11.64	6.18	1.88	11.54	6.66	1.73	10.81	6.82	1.59	10.25	6.98	1.47	9.30	6.98	1.33	-
-15°C	12.34	5.41	2.28	12.16	5.60	2.17	11.98	6.25	1.92	11.80	6.68	1.77	11.07	6.82	1.62	10.48	6.98	1.50	9.50	6.98	1.36	-
-14°C	12.49	5.39	2.32	12.33	5.58	2.21	12.10	6.17	1.96	11.86	6.58	1.80	11.14	6.73	1.66	10.55	6.89	1.53	9.61	6.92	1.39	-
-13°C	12.63	5.36	2.36	12.50	5.55	2.25	12.21	6.10	2.00	11.93	6.47	1.84	11.22	6.63	1.69	10.61	6.81	1.56	9.71	6.86	1.42	-
-12°C	12.78	5.34	2.39	12.66	5.53	2.29	12.33	6.02	2.05	11.99	6.37	1.88	11.29	6.54	1.73	10.68	6.72	1.59	9.82	6.80	1.44	-
-11°C	12.92	5.32	2.43	12.83	5.50	2.33	12.44	5.94	2.09	12.05	6.27	1.92	11.36	6.45	1.76	10.74	6.64	1.62	9.93	6.75	1.47	-
-10°C	13.07	5.29	2.47	13.00	5.48	2.37	12.56	5.86	2.14	12.11	6.16	1.97	11.43	6.35	1.80	10.81	6.55	1.65	10.03	6.69	1.50	-
-9°C	13.21	5.27	2.51	13.17	5.45	2.42	12.67	5.79	2.19	12.18	6.06	2.01	11.51	6.26	1.84	10.87	6.46	1.68	10.14	6.63	1.53	-
-8°C	13.36	5.24	2.55	13.33	5.43	2.45	12.79	5.71	2.24	12.24	5.95	2.06	11.58	6.16	1.88	10.94	6.38	1.71	10.24	6.57	1.56	-
-7°C	13.50	5.22	2.59	13.50	5.40	2.50	12.90	5.63	2.29	12.30	5.85	2.10	11.65	6.07	1.92	11.00	6.29	1.75	10.35	6.51	1.59	-
-6°C	13.56	5.12	2.65	13.50	5.31	2.54	12.93	5.55	2.33	12.35	5.81	2.13	11.75	6.04	1.95	11.14	6.28	1.77	10.53	6.50	1.62	-
-5°C	13.61	5.02	2.71	13.50	5.22	2.59	12.95	5.48	2.36	12.40	5.78	2.15	11.84	6.01	1.97	11.28	6.27	1.80	10.72	6.49	1.65	-
-4°C	13.67	4.91	2.78	13.50	5.13	2.63	12.98	5.40	2.40	12.45	5.74	2.17	11.94	5.98	2.00	11.41	6.25	1.83	10.90	6.48	1.68	-
-3°C	13.72	4.81	2.85	13.50	5.04	2.68	13.00	5.32	2.44	12.50	5.70	2.19	12.03	5.95	2.02	11.55	6.24	1.85	11.08	6.47	1.71	-
-2°C	13.78	4.71	2.93	13.50	4.90	2.76	13.03	5.24	2.49	12.55	5.66	2.22	12.12	5.92	2.05	11.69	6.23	1.88	11.26	6.46	1.74	-
-1°C	13.83	4.61	3.00	13.50	4.76	2.84	13.05	5.16	2.53	12.60	5.62	2.24	12.22	5.89	2.07	11.83	6.21	1.90	11.44	6.45	1.77	-
0°C	13.89	4.50	3.09	13.50	4.62	2.92	13.08	5.09	2.57	12.65	5.59	2.26	12.31	5.86	2.10	11.96	6.20	1.93	11.63	6.45	1.80	-
1°C	13.94	4.40	3.17	13.50	4.48	3.01	13.10	5.01	2.61	12.70	5.55	2.29	12.41	5.83	2.13	12.10	6.18	1.96	11.81	6.44	1.83	-
2°C	14.00	4.30	3.26	13.50	4.34	3.11	13.13	4.93	2.66	12.75	5.51	2.31	12.50	5.80	2.16	12.24	6.17	1.98	11.99	6.43	1.86	-
3°C	14.31	4.33	3.30	13.82	4.41	3.13	13.41	4.91	2.73	12.75	5.31	2.40	12.50	5.70	2.19	12.24	5.95	2.06	11.99	6.15	1.95	-
4°C	14.62	4.37	3.35	14.14	4.49	3.15	13.68	4.90	2.79	12.75	5.12	2.49	12.50	5.59	2.24	12.24	5.74	2.13	11.99	5.86	2.05	-
5°C	14.93	4.40	3.39	14.46	4.56	3.17	13.96	4.88	2.86	12.75	4.92	2.59	12.50	5.49	2.28	12.24	5.52	2.22	11.99	5.58	2.15	-
6°C	15.59	4.02	3.88	14.82	4.13	3.59	13.96	4.36	3.20	12.75	4.45	2.87	12.50	4.97	2.52	12.24	4.94	2.48	11.99	5.48	2.19	-
7°C	16.26	3.64	4.47	15.17	3.70	4.10	13.96	3.84	3.64	12.75	3.97	3.21	12.50	4.45	2.81	12.24	4.93	2.48	11.99	5.41	2.22	-
8°C	16.26	3.58	4.54	15.17	3.64	4.17	13.96	3.77	3.70	12.75	3.92	3.25	12.50	4.41	2.83	12.24	4.92	2.49	11.99	5.34	2.25	-
9°C	16.26	3.53	4.61	15.17	3.58	4.24	13.96	3.70	3.77	12.75	3.86	3.30	12.50	4.38	2.85	12.24	4.91	2.49	11.99	5.26	2.28	-
10°C	16.26	3.47	4.68	15.17	3.52	4.31	13.96	3.63	3.85	12.75	3.81	3.35	12.50	4.34	2.88	12.24	4.90	2.50	11.99	5.19	2.31	-
11°C	16.26	3.40	4.78	15.17	3.46	4.38	13.96	3.58	3.90	12.75	3.75	3.40	12.50	4.28	2.92	12.24	4.83	2.53	11.99	5.12	2.34	-
12°C	16.26	3.32	4.90	15.17	3.40	4.46	13.96	3.52	3.97	12.75	3.70	3.45	12.50	4.22	2.96	12.24	4.77	2.57	11.99	5.05	2.37	-
13°C	16.26	3.25	5.00	15.17	3.34	4.54	13.96	3.47	4.02	12.75	3.64	3.50	12.50	4.16	3.00	12.24	4.70	2.60	11.99	4.98	2.41	-
14°C	16.26	3.17	5.13	15.17	3.28	4.63	13.96	3.41	4.09	12.75	3.59	3.55	12.50	4.10	3.05	12.24	4.64	2.64	11.99	4.91	2.44	-
15°C	16.26	3.10	5.24	15.17	3.22	4.71	13.96	3.36	4.15	12.75	3.53	3.61	12.50	4.04	3.09	12.24	4.57	2.68	11.99	4.84	2.48	-
16°C	16.26	3.03	5.37	15.17	3.16	4.80	13.96	3.31	4.22	12.75	3.48	3.66	12.50	3.99	3.13	12.24	4.51	2.71	11.99	4.78	2.51	-
17°C	16.26	2.97	5.47	15.17	3.10	4.89	13.96	3.25	4.30	12.75	3.43	3.72	12.50	3.93	3.18	12.24	4.45	2.75	11.99	4.71	2.55	-
18°C	16.26	2.90	5.61	15.17	3.03	5.01	13.96	3.20	4.36	12.75	3.39	3.76	12.50	3.88	3.22	12.24	4.39	2.79	11.99	4.65	2.58	-
19°C	16.26	2.84	5.73	15.17	2.97	5.11	13.96	3.14	4.45	12.75	3.34	3.82	12.50	3.82	3.27	12.24	4.33	2.83	11.99	4.58	2.62	-
20°C	16.26	2.77	5.87	15.17	2.91	5.21	13.96	3.09	4.52	12.75	3.29	3.88	12.50	3.77	3.32	12.24	4.27	2.87	11.99	4.52	2.65	-
21°C	16.26	2.72	5.98	15.17	2.86	5.30	13.96	3.03	4.61	12.75	3.23	3.95	12.50	3.70	3.38	12.24	4.20	2.91	11.99	4.46	2.69	-
22°C	16.26	2.67	6.09	15.17	2.80	5.42	13.96	2.98	4.68	12.75	3.17	4.02	12.50	3.63	3.44	12.24	4.13	2.96	11.99	4.40	2.73	-
23°C	16.26	2.62	6.21	15.17	2.75	5.52	13.96	2.92	4.78	12.75	3.11	4.10	12.50	3.56	3.51	12.24	4.06	3.01	11.99	4.34	2.76	-
24°C	16.26	2.58	6.30	15.17	2.70	5.62	13.96	2.86	4.88	12.75	3.05	4.18	12.50	3.49	3.58	12.24	3.98	3.08	11.99	4.28	2.80	-
25°C	16.26	2.53	6.43	15.17	2.64	5.75	13.96	2.81	4.97	12.75	2.99	4.26	12.50	3.42	3.65	12.24	3.91	3.13	11.99	4.22	2.84	-
26°C	16.26	2.48	6.56	15.17	2.59	5.86	13.96	2.75	5.08	12.75	2.93	4.35	12.50	3.35	3.73	12.24	3.84	3.19	11.99	4.16	2.88	-
27°C	16.26	2.43	6.69	15.17	2.54	5.97	13.96	2.69	5.19	12.75	2.87	4.44	12.50	3.28	3.81	12.24	3.77	3.25	11.99	4.10	2.92	-
28°C	16.26	2.38	6.83	15.17	2.48	6.12	13.96	2.64	5.29	12.75	2.80	4.55	12.50	3.22	3.88	12.24	3.70	3.31	11.99	4.03	2.98	-
29°C	16.26	2.33	6.98	15.17	2.43	6.24	13.96	2.58	5.41	12.75	2.74	4.65	12.50	3.15	3.97	12.24	3.63	3.37	11.99	3.97	3.02	-
30°C	16.26	2.28	7.13	15.17	2.38	6.37	13.96	2.52	5.54	12.75	2.68	4.76	12.50	3.08	4.06	12.24	3.56	3.44	11.99	3.91	3.07	-
31°C	16.26	2.23	7.29	15.17	2.32	6.54																

COOLING CAPACITY *

MODEL: WO*A060 (4.5kW type)

FT	6 °C			7 °C			10 °C			13 °C			15 °C			18 °C			22 °C		
	OT	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP
20 °C	2.80	0.93	3.02	2.90	0.91	3.19	3.20	0.85	3.75	3.50	0.79	4.44	3.70	0.74	4.97	4.00	0.68	5.86	4.40	0.61	7.22
21 °C	2.80	0.94	2.98	2.90	0.93	3.12	3.20	0.87	3.68	3.50	0.81	4.32	3.70	0.77	4.81	4.00	0.71	5.63	4.40	0.64	6.88
22 °C	2.80	0.96	2.92	2.90	0.94	3.09	3.20	0.89	3.60	3.50	0.83	4.22	3.70	0.79	4.68	4.00	0.74	5.41	4.40	0.67	6.57
23 °C	2.80	0.98	2.86	2.90	0.96	3.02	3.20	0.91	3.52	3.50	0.86	4.07	3.70	0.81	4.57	4.00	0.77	5.19	4.40	0.71	6.20
24 °C	2.80	0.99	2.83	2.90	0.98	2.96	3.20	0.93	3.44	3.50	0.88	3.98	3.70	0.84	4.40	4.00	0.79	5.06	4.40	0.74	5.95
25 °C	2.80	1.01	2.77	2.90	1.00	2.90	3.20	0.95	3.37	3.50	0.90	3.89	3.70	0.86	4.30	4.00	0.82	4.88	4.40	0.77	5.71
26 °C	2.80	1.03	2.72	2.90	1.02	2.84	3.20	0.97	3.30	3.50	0.93	3.76	3.70	0.89	4.16	4.00	0.86	4.65	4.40	0.81	5.43
27 °C	2.80	1.05	2.66	2.90	1.04	2.79	3.20	0.99	3.23	3.50	0.96	3.65	3.70	0.92	4.02	4.00	0.89	4.48	4.40	0.85	5.15
28 °C	2.80	1.08	2.59	2.90	1.06	2.74	3.20	1.02	3.14	3.50	0.98	3.57	3.70	0.95	3.89	4.00	0.92	4.35	4.40	0.88	5.00
29 °C	2.80	1.10	2.55	2.90	1.09	2.66	3.20	1.05	3.05	3.50	1.01	3.47	3.70	0.97	3.81	4.00	0.94	4.26	4.40	0.90	4.89
30 °C	2.80	1.13	2.48	2.90	1.12	2.59	3.20	1.07	2.99	3.50	1.04	3.37	3.70	1.00	3.70	4.00	0.97	4.12	4.40	0.92	4.78
31 °C	2.80	1.16	2.41	2.90	1.14	2.54	3.20	1.10	2.91	3.50	1.06	3.30	3.70	1.03	3.59	4.00	0.99	4.04	4.40	0.95	4.63
32 °C	2.80	1.19	2.35	2.90	1.17	2.48	3.20	1.13	2.83	3.50	1.09	3.21	3.70	1.06	3.49	4.00	1.02	3.92	4.40	0.97	4.54
33 °C	2.80	1.21	2.31	2.90	1.20	2.42	3.20	1.16	2.76	3.50	1.12	3.13	3.70	1.09	3.39	4.00	1.05	3.81	4.40	1.00	4.40
34 °C	2.80	1.25	2.24	2.90	1.23	2.36	3.20	1.19	2.69	3.50	1.15	3.04	3.70	1.12	3.30	4.00	1.07	3.74	4.40	1.02	4.31
35 °C	2.80	1.28	2.19	2.90	1.26	2.30	3.20	1.23	2.60	3.50	1.18	2.96	3.70	1.16	3.20	4.00	1.11	3.61	4.40	1.06	4.17
36 °C	2.80	1.30	2.15	2.90	1.29	2.25	3.20	1.25	2.56	3.50	1.20	2.92	3.70	1.18	3.14	4.00	1.13	3.54	4.40	1.07	4.11
37 °C	2.80	1.33	2.11	2.90	1.31	2.21	3.20	1.27	2.52	3.50	1.22	2.87	3.70	1.20	3.08	4.00	1.15	3.48	4.40	1.09	4.05
38 °C	2.73	1.33	2.06	2.83	1.31	2.15	3.14	1.28	2.45	3.45	1.23	2.80	3.65	1.22	3.00	3.95	1.17	3.37	4.37	1.12	3.91
39 °C	2.65	1.32	2.00	2.76	1.32	2.09	3.07	1.29	2.39	3.40	1.25	2.72	3.60	1.24	2.91	3.91	1.20	3.26	4.33	1.15	3.76
40 °C	2.58	1.32	1.95	2.69	1.32	2.04	3.01	1.30	2.32	3.35	1.26	2.65	3.55	1.25	2.83	3.86	1.22	3.16	4.30	1.19	3.62
41 °C	2.51	1.32	1.90	2.61	1.32	1.98	2.94	1.30	2.25	3.29	1.28	2.58	3.49	1.27	2.74	3.82	1.25	3.05	4.26	1.23	3.47
42 °C	2.43	1.32	1.84	2.54	1.32	1.92	2.88	1.31	2.19	3.24	1.29	2.50	3.44	1.30	2.66	3.77	1.28	2.94	4.23	1.27	3.33
43 °C	2.36	1.32	1.79	2.47	1.33	1.86	2.81	1.33	2.12	3.19	1.31	2.43	3.39	1.32	2.57	3.73	1.32	2.83	4.19	1.32	3.18

* : OPTIONAL PARTS "Cooling kit" is necessary for cooling operation.

FT : Flow temperature
 OT : Outdoor temperature
 CC : Cooling capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

The values of cooling capacity/power input/COP are based on measurement of EN14511 standard;
 FT < 10°C : The flow rate obtained during the test at the standard rating conditions of OT 35°C and Water temp. flow/return 7°C / 12°C, 500 l/h
 FT ≥ 10°C : The flow rate obtained during the test at the standard rating conditions of OT 35°C and Water temp. flow/return 18°C / 23°C, 690 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

MODEL: WO*A060 (6.0kW type)

FT	6 °C			7 °C			10 °C			13 °C			15 °C			18 °C			22 °C		
	OT	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP
20 °C	3.60	1.10	3.27	3.70	1.10	3.37	4.10	1.04	3.94	4.50	0.98	4.59	4.80	0.93	5.14	5.20	0.89	5.86	5.70	0.84	6.77
21 °C	3.60	1.13	3.19	3.70	1.12	3.30	4.10	1.07	3.83	4.50	1.01	4.46	4.80	0.97	4.95	5.20	0.92	5.65	5.70	0.88	6.48
22 °C	3.60	1.15	3.13	3.70	1.14	3.25	4.10	1.09	3.76	4.50	1.04	4.33	4.80	1.00	4.80	5.20	0.96	5.42	5.70	0.91	6.26
23 °C	3.60	1.17	3.08	3.70	1.16	3.19	4.10	1.12	3.66	4.50	1.07	4.21	4.80	1.03	4.66	5.20	0.99	5.25	5.70	0.95	6.00
24 °C	3.60	1.20	3.00	3.70	1.19	3.11	4.10	1.14	3.60	4.50	1.10	4.09	4.80	1.07	4.49	5.20	1.03	5.05	5.70	0.99	5.76
25 °C	3.60	1.22	2.95	3.70	1.21	3.06	4.10	1.17	3.50	4.50	1.13	3.98	4.80	1.10	4.36	5.20	1.07	4.86	5.70	1.03	5.53
26 °C	3.60	1.25	2.88	3.70	1.24	2.98	4.10	1.20	3.42	4.50	1.16	3.88	4.80	1.14	4.21	5.20	1.11	4.68	5.70	1.07	5.33
27 °C	3.60	1.28	2.81	3.70	1.27	2.92	4.10	1.24	3.31	4.50	1.20	3.76	4.80	1.18	4.06	5.20	1.16	4.50	5.70	1.12	5.11
28 °C	3.60	1.32	2.73	3.70	1.30	2.85	4.10	1.27	3.23	4.50	1.24	3.63	4.80	1.23	3.90	5.20	1.20	4.33	5.70	1.16	4.91
29 °C	3.60	1.35	2.67	3.70	1.34	2.76	4.10	1.31	3.13	4.50	1.28	3.52	4.80	1.27	3.78	5.20	1.25	4.16	5.70	1.20	4.75
30 °C	3.60	1.39	2.59	3.70	1.37	2.70	4.10	1.35	3.04	4.50	1.32	3.41	4.80	1.31	3.66	5.20	1.29	4.03	5.70	1.24	4.60
31 °C	3.60	1.42	2.54	3.70	1.41	2.62	4.10	1.39	2.95	4.50	1.37	3.28	4.80	1.36	3.53	5.20	1.34	3.88	5.70	1.28	4.45
32 °C	3.60	1.46	2.47	3.70	1.45	2.55	4.10	1.43	2.87	4.50	1.41	3.19	4.80	1.41	3.40	5.20	1.39	3.74	5.70	1.32	4.32
33 °C	3.60	1.50	2.40	3.70	1.49	2.48	4.10	1.48	2.77	4.50	1.46	3.08	4.80	1.45	3.31	5.20	1.44	3.61	5.70	1.37	4.16
34 °C	3.60	1.54	2.34	3.70	1.53	2.42	4.10	1.52	2.70	4.50	1.51	2.98	4.80	1.50	3.20	5.20	1.50	3.47	5.70	1.42	4.01
35 °C	3.60	1.59	2.26	3.70	1.58	2.34	4.10	1.57	2.61	4.50	1.56	2.88	4.80	1.56	3.07	5.20	1.56	3.34	5.70	1.47	3.87
36 °C	3.60	1.62	2.22	3.70	1.61	2.30	4.10	1.60	2.56	4.50	1.59	2.83	4.80	1.58	3.04	5.20	1.59	3.28	5.70	1.50	3.80
37 °C	3.60	1.65	2.18	3.70	1.64	2.26	4.10	1.63	2.51	4.50	1.62	2.78	4.80	1.59	3.01	5.20	1.61	3.22	5.70	1.53	3.73
38 °C	3.39	1.60	2.12	3.50	1.59	2.19	3.89	1.59	2.45	4.28	1.57	2.72	4.57	1.55	2.94	4.98	1.59	3.14	5.45	1.50	3.64
39 °C	3.19	1.55	2.05	3.29	1.55	2.13	3.67	1.54	2.38	4.06	1.53	2.66	4.33	1.51	2.86	4.73	1.54	3.08	5.20	1.47	3.55
40 °C	2.98	1.50	1.99	3.09	1.50	2.06	3.46	1.49	2.32	3.85	1.48	2.61	4.10	1.47	2.79	4.48	1.48	3.02	4.95	1.43	3.46
41 °C	2.77	1.44	1.92	2.88	1.44	1.99	3.24	1.44	2.25	3.63	1.42	2.55	3.86	1.42	2.72	4.23	1.43	2.95	4.69	1.40	3.36
42 °C	2.57	1.38	1.86	2.68	1.39	1.93	3.03	1.38	2.19	3.41	1.37	2.49	3.63	1.37	2.64	3.98	1.38	2.89	4.44	1.36	3.27
43 °C	2.36	1.32	1.79	2.47	1.33	1.86	2.81	1.33	2.12	3.19	1.31	2.43	3.39	1.32	2.57	3.73	1.32	2.83	4.19	1.32	3.18

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The values of cooling capacity/power input/COP are based on measurement of EN14511 standard;
 FT < 10°C : The flow rate obtained during the test at the standard rating conditions of OT 35°C and Water temp. flow/return 7°C / 12°C, 637 l/h
 FT ≥ 10°C : The flow rate obtained during the test at the standard rating conditions of OT 35°C and Water temp. flow/return 18°C / 23°C, 897 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

MODEL: WO*A080

FT	6 °C			7 °C			10 °C			13 °C			15 °C			18 °C			22 °C		
	OT	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP
20 °C	4.90	1.44	3.41	5.10	1.42	3.60	5.70	1.36	4.18	6.20	1.31	4.74	6.60	1.26	5.25	7.10	1.21	5.87	7.80	1.15	6.81
21 °C	4.90	1.46	3.36	5.10	1.44	3.54	5.70	1.40	4.07	6.20	1.35	4.59	6.60	1.30	5.08	7.10	1.26	5.63	7.80	1.20	6.50
22 °C	4.90	1.49	3.29	5.10	1.47	3.47	5.70	1.43	3.99	6.20	1.38	4.49	6.60	1.34	4.93	7.10	1.30	5.46	7.80	1.25	6.24
23 °C	4.90	1.52	3.22	5.10	1.50	3.40	5.70	1.46	3.90	6.20	1.42	4.37	6.60	1.39	4.75	7.10	1.35	5.26	7.80	1.31	5.95
24 °C	4.90	1.54	3.18	5.10	1.53	3.33	5.70	1.50	3.80	6.20	1.46	4.25	6.60	1.43	4.62	7.10	1.40	5.07	7.80	1.36	5.74
25 °C	4.90	1.57	3.12	5.10	1.56	3.27	5.70	1.54	3.70	6.20	1.51	4.11	6.60	1.48	4.46	7.10	1.46	4.86	7.80	1.42	5.49
26 °C	4.90	1.60	3.06	5.10	1.59	3.21	5.70	1.57	3.63	6.20	1.55	4.00	6.60	1.53	4.31	7.10	1.51	4.70	7.80	1.48	5.27
27 °C	4.90	1.63	3.00	5.10	1.63	3.13	5.70	1.62	3.52	6.20	1.60	3.87	6.60	1.59	4.16	7.10	1.57	4.51	7.80	1.56	5.01
28 °C	4.90	1.69	2.90	5.10	1.69	3.02	5.70	1.68	3.39	6.20	1.66	3.73	6.60	1.65	4.00	7.10	1.64	4.33	7.80	1.62	4.81
29 °C	4.90	1.75	2.80	5.10	1.74	2.93	5.70	1.74	3.28	6.20	1.73	3.58	6.60	1.71	3.86	7.10	1.70	4.18	7.80	1.68	4.64
30 °C	4.90	1.81	2.71	5.10	1.80	2.83	5.70	1.80	3.17	6.20	1.79	3.46	6.60	1.78	3.71	7.10	1.76	4.03	7.80	1.75	4.46
31 °C	4.90	1.87	2.62	5.10	1.86	2.74	5.70	1.86	3.06	6.20	1.86	3.33	6.60	1.84	3.59	7.10	1.83	3.88	7.80	1.81	4.31
32 °C	4.90	1.94	2.53	5.10	1.93	2.64	5.70	1.93	2.95	6.20	1.93	3.21	6.60	1.91	3.46	7.10	1.90	3.74	7.80	1.88	4.15
33 °C	4.90	2.00	2.45	5.10	1.99	2.56	5.70	2.00	2.85	6.20	2.00	3.10	6.60	1.98	3.33	7.10	1.97	3.60	7.80	1.95	4.00
34 °C	4.90	2.07	2.37	5.10	2.06	2.48	5.70	2.07	2.75	6.20	2.07	3.00	6.60	2.05	3.22	7.10	2.04	3.48	7.80	2.03	3.84
35 °C	4.90	2.15	2.28	5.10	2.14	2.39	5.70	2.15	2.65	6.20	2.15	2.88	6.60	2.13	3.09	7.10	2.13	3.34	7.80	2.11	3.69
36 °C	4.90	2.19	2.24	5.10	2.18	2.34	5.70	2.19	2.60	6.20	2.18	2.84	6.60	2.16	3.05	7.10	2.15	3.30	7.80	2.14	3.64
37 °C	4.90	2.23	2.20	5.10	2.23	2.29	5.70	2.24	2.55	6.20	2.21	2.81	6.60	2.20	3.00	7.10	2.17	3.27	7.80	2.17	3.60
38 °C	4.73	2.21	2.14	4.91	2.20	2.24	5.49	2.20	2.50	5.97	2.15	2.77	6.36	2.15	2.96	6.83	2.11	3.24	7.51	2.10	3.58
39 °C	4.56	2.18	2.09	4.72	2.17	2.18	5.29	2.16	2.45	5.75	2.10	2.73	6.11	2.09	2.93	6.57	2.04	3.21	7.22	2.03	3.56
40 °C	4.38	2.16	2.03	4.54	2.13	2.13	5.08	2.11	2.41	5.53	2.05	2.70	5.87	2.03	2.89	6.30	1.98	3.19	6.93	1.95	3.55
41 °C	4.21	2.13	1.97	4.35	2.10	2.07	4.88	2.07	2.36	5.30	2.00	2.66	5.62	1.97	2.85	6.03	1.91	3.16	6.64	1.88	3.53
42 °C	4.04	2.11	1.92	4.16	2.06	2.02	4.67	2.02	2.31	5.08	1.94	2.62	5.38	1.91	2.82	5.77	1.84	3.13	6.35	1.81	3.51
43 °C	3.86	2.08	1.86	3.97	2.03	1.96	4.47	1.98	2.26	4.86	1.88	2.58	5.13	1.85	2.78	5.50	1.77	3.10	6.05	1.73	3.49

* : OPTIONAL PARTS "Cooling kit" is necessary for cooling operation.

FT : Flow temperature
 OT : Outdoor temperature
 CC : Cooling capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

The values of cooling capacity/power input/COP are based on measurement of EN14511 standard;
 FT < 10°C : The flow rate obtained during the test at the standard rating conditions of OT 35°C and Water temp. flow/return 7°C / 12°C, 878 l/h
 FT ≥ 10°C : The flow rate obtained during the test at the standard rating conditions of OT 35°C and Water temp. flow/return 18°C / 23°C, 1225 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

MODEL: WO*A100

FT	6 °C			7 °C			10 °C			13 °C			15 °C			18 °C			22 °C		
	OT	CC	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP
20 °C	5.90	1.68	3.51	6.10	1.66	3.68	6.80	1.60	4.26	7.40	1.52	4.86	7.90	1.48	5.33	8.50	1.44	5.92	9.40	1.38	6.83
21 °C	5.90	1.72	3.43	6.10	1.69	3.61	6.80	1.64	4.15	7.40	1.57	4.71	7.90	1.53	5.16	8.50	1.49	5.70	9.40	1.44	6.53
22 °C	5.90	1.75	3.37	6.10	1.73	3.53	6.80	1.68	4.05	7.40	1.62	4.57	7.90	1.59	4.97	8.50	1.55	5.48	9.40	1.50	6.27
23 °C	5.90	1.78	3.31	6.10	1.76	3.47	6.80	1.72	3.95	7.40	1.67	4.43	7.90	1.64	4.82	8.50	1.61	5.28	9.40	1.56	6.03
24 °C	5.90	1.82	3.24	6.10	1.80	3.39	6.80	1.76	3.86	7.40	1.72	4.30	7.90	1.69	4.67	8.50	1.66	5.12	9.40	1.62	5.80
25 °C	5.90	1.86	3.17	6.10	1.84	3.32	6.80	1.81	3.76	7.40	1.78	4.16	7.90	1.75	4.51	8.50	1.73	4.91	9.40	1.69	5.56
26 °C	5.90	1.89	3.12	6.10	1.88	3.24	6.80	1.85	3.68	7.40	1.83	4.04	7.90	1.81	4.36	8.50	1.79	4.75	9.40	1.76	5.34
27 °C	5.90	1.94	3.04	6.10	1.92	3.17	6.80	1.91	3.56	7.40	1.90	3.90	7.90	1.88	4.20	8.50	1.86	4.56	9.40	1.84	5.12
28 °C	5.90	2.01	2.94	6.10	1.99	3.07	6.80	1.98	3.43	7.40	1.96	3.78	7.90	1.94	4.07	8.50	1.92	4.43	9.40	1.89	4.97
29 °C	5.90	2.07	2.85	6.10	2.05	2.98	6.80	2.04	3.33	7.40	2.02	3.66	7.90	2.00	3.95	8.50	1.98	4.29	9.40	1.95	4.82
30 °C	5.90	2.14	2.76	6.10	2.12	2.88	6.80	2.11	3.22	7.40	2.07	3.57	7.90	2.06	3.83	8.50	2.04	4.17	9.40	2.00	4.70
31 °C	5.90	2.21	2.67	6.10	2.19	2.79	6.80	2.18	3.12	7.40	2.13	3.47	7.90	2.13	3.71	8.50	2.10	4.05	9.40	2.06	4.56
32 °C	5.90	2.28	2.59	6.10	2.26	2.70	6.80	2.25	3.02	7.40	2.20	3.36	7.90	2.19	3.61	8.50	2.16	3.94	9.40	2.12	4.43
33 °C	5.90	2.36	2.50	6.10	2.34	2.61	6.80	2.33	2.92	7.40	2.26	3.27	7.90	2.26	3.50	8.50	2.23	3.81	9.40	2.18	4.31
34 °C	5.90	2.44	2.42	6.10	2.41	2.53	6.80	2.41	2.82	7.40	2.33	3.18	7.90	2.33	3.39	8.50	2.30	3.70	9.40	2.24	4.20
35 °C	5.90	2.53	2.33	6.10	2.50	2.44	6.80	2.50	2.72	7.40	2.41	3.07	7.90	2.41	3.28	8.50	2.38	3.58	9.40	2.32	4.05
36 °C	5.90	2.61	2.26	6.10	2.46	2.36	6.80	2.58	2.64	7.40	2.49	2.97	7.90	2.49	3.17	8.50	2.46	3.46	9.40	2.41	3.90
37 °C	5.90	2.69	2.19	6.10	2.42	2.28	6.80	2.65	2.57	7.40	2.59	2.86	7.90	2.58	3.06	8.50	2.55	3.33	9.40	2.50	3.76
38 °C	5.59	2.63	2.13	5.77	2.37	2.22	6.45	2.59	2.49	7.02	2.54	2.77	7.50	2.53	2.96	8.07	2.50	3.22	8.93	2.46	3.63
39 °C	5.29	2.57	2.06	5.45	2.33	2.16	6.10	2.53	2.41	6.64	2.48	2.68	7.09	2.48	2.86	7.63	2.45	3.11	8.46	2.42	3.50
40 °C	4.99	2.50	2.00	5.12	2.29	2.10	5.75	2.47	2.33	6.27	2.42	2.59	6.69	2.42	2.76	7.20	2.39	3.01	8.00	2.38	3.37
41 °C	4.68	2.43	1.93	4.79	2.24	2.04	5.40	2.40	2.25	5.89	2.36	2.49	6.28	2.36	2.66	6.76	2.33	2.90	7.53	2.33	3.23
42 °C	4.38	2.35	1.87	4.47	2.20	1.98	5.05	2.33	2.17	5.51	2.30	2.40	5.88	2.30	2.56	6.33	2.27	2.79	7.06	2.28	3.10
43 °C	4.08	2.26	1.80	4.14	2.16	1.92	4.69	2.25	2.09	5.14	2.22	2.31	5.47	2.22	2.46	5.89	2.20	2.68	6.60	2.22	2.97

* : OPTIONAL PARTS "Cooling kit" is necessary for cooling operation.

FT : Flow temperature
 OT : Outdoor temperature
 CC : Cooling capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

The values of cooling capacity/power input/COP are based on measurement of EN14511 standard;
 FT < 10 °C : The flow rate obtained during the test at the standard rating conditions of OT 35 °C and Water temp. flow/return 7 °C / 12 °C, 1051 l/h
 FT ≥ 10 °C : The flow rate obtained during the test at the standard rating conditions of OT 35 °C and Water temp. flow/return 18 °C / 23 °C, 1467 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

MODEL: WO*G112

FT	6 °C			7 °C			10 °C			13 °C			15 °C			18 °C			22 °C		
	OT	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP
20 °C	8.38	2.10	3.99	8.50	2.07	4.11	8.85	2.05	4.32	9.21	2.25	4.09	9.45	2.22	4.25	9.80	2.18	4.50	10.27	2.02	5.09
21 °C	8.38	2.21	3.79	8.50	2.17	3.92	8.85	2.14	4.14	9.21	2.35	3.92	9.45	2.32	4.07	9.80	2.29	4.28	10.27	2.11	4.87
22 °C	8.38	2.31	3.63	8.50	2.27	3.74	8.85	2.22	3.99	9.21	2.45	3.76	9.45	2.42	3.90	9.80	2.40	4.08	10.27	2.20	4.67
23 °C	8.38	2.42	3.46	8.50	2.37	3.59	8.85	2.31	3.83	9.21	2.55	3.61	9.45	2.52	3.75	9.80	2.51	3.90	10.27	2.29	4.48
24 °C	8.38	2.52	3.33	8.50	2.47	3.44	8.85	2.39	3.70	9.21	2.65	3.48	9.45	2.62	3.61	9.80	2.62	3.74	10.27	2.38	4.32
25 °C	8.38	2.08	4.03	8.50	2.04	4.17	8.85	1.89	4.68	9.21	1.75	5.26	9.45	1.65	5.73	9.80	1.44	6.81	10.27	1.39	7.39
26 °C	8.38	2.19	3.83	8.50	2.14	3.97	8.85	1.99	4.45	9.21	1.84	5.01	9.45	1.74	5.43	9.80	1.54	6.36	10.27	1.47	6.99
27 °C	8.38	2.30	3.64	8.50	2.25	3.78	8.85	2.09	4.24	9.21	1.93	4.77	9.45	1.83	5.16	9.80	1.63	6.01	10.27	1.56	6.59
28 °C	8.38	2.41	3.48	8.50	2.36	3.60	8.85	2.19	4.04	9.21	2.02	4.56	9.45	1.92	4.92	9.80	1.72	5.70	10.27	1.65	6.22
29 °C	8.38	2.52	3.33	8.50	2.47	3.44	8.85	2.29	3.86	9.21	2.11	4.36	9.45	2.01	4.70	9.80	1.82	5.38	10.27	1.73	5.94
30 °C	8.38	2.63	3.19	8.50	2.57	3.31	8.85	2.39	3.70	9.21	2.20	4.19	9.45	2.10	4.50	9.80	1.91	5.13	10.27	1.82	5.64
31 °C	8.38	2.74	3.06	8.50	2.68	3.17	8.85	2.49	3.55	9.21	2.30	4.00	9.45	2.19	4.32	9.80	2.01	4.88	10.27	1.91	5.38
32 °C	8.38	2.85	2.94	8.50	2.79	3.05	8.85	2.59	3.42	9.21	2.39	3.85	9.45	2.28	4.14	9.80	2.10	4.67	10.27	1.99	5.16
33 °C	8.38	2.96	2.83	8.50	2.90	2.93	8.85	2.69	3.29	9.21	2.48	3.71	9.45	2.37	3.99	9.80	2.19	4.47	10.27	2.08	4.94
34 °C	8.38	3.07	2.73	8.50	3.00	2.83	8.85	2.79	3.17	9.21	2.57	3.58	9.45	2.46	3.84	9.80	2.29	4.28	10.27	2.16	4.75
35 °C	8.38	3.18	2.64	8.50	3.11	2.73	8.85	2.89	3.06	9.21	2.66	3.46	9.45	2.55	3.70	9.80	2.38	4.12	10.27	2.25	4.57
36 °C	8.38	3.29	2.55	8.50	3.22	2.64	8.85	3.00	2.95	9.21	2.77	3.32	9.45	2.66	3.55	9.80	2.48	3.95	10.27	2.34	4.39
37 °C	8.38	3.40	2.46	8.50	3.33	2.55	8.85	3.12	2.84	9.21	2.89	3.19	9.45	2.77	3.41	9.80	2.58	3.80	10.27	2.43	4.23
38 °C	8.00	3.31	2.42	8.29	3.31	2.50	8.85	3.23	2.74	9.21	3.00	3.07	9.45	2.88	3.28	9.80	2.68	3.66	10.27	2.52	4.08
39 °C	7.74	3.32	2.33	8.02	3.32	2.42	8.85	3.33	2.66	9.21	3.11	2.96	9.45	2.99	3.16	9.80	2.81	3.49	10.27	2.66	3.86
40 °C	7.48	3.32	2.25	7.75	3.32	2.33	8.56	3.34	2.56	9.21	3.23	2.85	9.45	3.10	3.05	9.80	2.93	3.34	10.27	2.80	3.67
41 °C	7.22	3.33	2.17	7.49	3.33	2.25	8.28	3.34	2.48	9.21	3.34	2.76	9.45	3.21	2.94	9.80	3.07	3.19	10.27	2.94	3.49
42 °C	6.96	3.33	2.09	7.22	3.33	2.17	7.99	3.35	2.39	8.85	3.35	2.64	9.45	3.32	2.85	9.80	3.22	3.04	10.27	3.08	3.33
43 °C	6.70	3.34	2.01	6.95	3.34	2.08	7.70	3.35	2.30	8.49	3.36	2.53	8.96	3.37	2.66	9.71	3.38	2.87	10.27	3.22	3.19

* : OPTIONAL PARTS "Cooling kit" is necessary for cooling operation.

FT : Flow temperature
 OT : Outdoor temperature
 CC : Cooling capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

The values of cooling capacity/power input/COP are based on measurement of EN14511 standard;
 FT < 10 °C : The flow rate obtained during the test at the standard rating conditions of OT 35 °C and Water temp. flow/return 7 °C / 12 °C, 1464 l/h
 FT ≥ 10 °C : The flow rate obtained during the test at the standard rating conditions of OT 35 °C and Water temp. flow/return 18 °C / 23 °C, 1691 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

MODEL: WO*G140

FT	6 °C			7 °C			10 °C			13 °C			15 °C			18 °C			22 °C		
	OT	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP	COP	CC	IP
20 °C	8.68	2.24	3.88	9.00	2.27	3.96	9.95	2.39	4.16	10.91	2.48	4.40	11.55	2.53	4.57	12.50	2.60	4.81	13.77	2.75	5.01
21 °C	8.68	2.35	3.69	9.00	2.38	3.78	9.95	2.49	4.00	10.91	2.59	4.21	11.55	2.65	4.36	12.50	2.73	4.58	13.77	2.87	4.80
22 °C	8.68	2.46	3.53	9.00	2.49	3.61	9.95	2.59	3.84	10.91	2.69	4.06	11.55	2.76	4.18	12.50	2.86	4.37	13.77	2.99	4.61
23 °C	8.68	2.57	3.38	9.00	2.60	3.46	9.95	2.69	3.70	10.91	2.80	3.90	11.55	2.88	4.01	12.50	2.99	4.18	13.77	3.11	4.43
24 °C	8.68	2.68	3.24	9.00	2.71	3.32	9.95	2.79	3.57	10.91	2.90	3.76	11.55	2.99	3.86	12.50	3.12	4.01	13.77	3.23	4.26
25 °C	8.68	2.20	3.95	9.00	2.19	4.11	9.95	2.17	4.59	10.91	2.14	5.10	11.55	2.13	5.42	12.50	2.11	5.92	13.77	2.09	6.59
26 °C	8.68	2.31	3.76	9.00	2.31	3.90	9.95	2.29	4.34	10.91	2.26	4.83	11.55	2.25	5.13	12.50	2.24	5.58	13.77	2.22	6.20
27 °C	8.68	2.43	3.58	9.00	2.42	3.72	9.95	2.41	4.13	10.91	2.39	4.56	11.55	2.38	4.85	12.50	2.37	5.29	13.77	2.36	5.83
28 °C	8.68	2.54	3.42	9.00	2.54	3.54	9.95	2.53	3.93	10.91	2.52	4.33	11.55	2.51	4.60	12.50	2.49	5.02	13.77	2.50	5.51
29 °C	8.68	2.65	3.28	9.00	2.65	3.40	9.95	2.65	3.75	10.91	2.65	4.12	11.55	2.64	4.38	12.50	2.62	4.77	13.77	2.64	5.22
30 °C	8.68	2.77	3.13	9.00	2.77	3.25	9.95	2.77	3.59	10.91	2.77	3.94	11.55	2.76	4.18	12.50	2.75	4.55	13.77	2.77	4.97
31 °C	8.68	2.88	3.01	9.00	2.88	3.13	9.95	2.89	3.44	10.91	2.90	3.76	11.55	2.89	4.00	12.50	2.87	4.36	13.77	2.91	4.73
32 °C	8.68	3.00	2.89	9.00	3.00	3.00	9.95	3.01	3.31	10.91	3.03	3.60	11.55	3.02	3.82	12.50	3.00	4.17	13.77	3.05	4.51
33 °C	8.68	3.11	2.79	9.00	3.11	2.89	9.95	3.13	3.18	10.91	3.16	3.45	11.55	3.15	3.67	12.50	3.13	3.99	13.77	3.19	4.32
34 °C	8.68	3.23	2.69	9.00	3.23	2.79	9.95	3.25	3.06	10.91	3.28	3.33	11.55	3.27	3.53	12.50	3.25	3.85	13.77	3.32	4.15
35 °C	8.68	3.34	2.60	9.00	3.34	2.69	9.95	3.37	2.95	10.91	3.41	3.20	11.55	3.40	3.40	12.50	3.38	3.70	13.77	3.46	3.98
36 °C	8.68	3.45	2.52	9.00	3.46	2.60	9.95	3.49	2.85	10.91	3.54	3.08	11.55	3.53	3.27	12.50	3.51	3.56	13.77	3.60	3.83
37 °C	8.68	3.57	2.43	9.00	3.57	2.52	9.95	3.61	2.76	10.91	3.67	2.97	11.55	3.66	3.16	12.50	3.63	3.44	13.77	3.74	3.68
38 °C	8.00	3.33	2.40	8.29	3.33	2.49	9.17	3.36	2.73	10.04	3.40	2.95	10.63	3.42	3.11	11.51	3.45	3.34	12.68	3.45	3.68
39 °C	7.74	3.34	2.32	8.02	3.34	2.40	8.88	3.36	2.64	9.73	3.40	2.86	10.30	3.42	3.01	11.15	3.44	3.24	12.29	3.45	3.56
40 °C	7.48	3.35	2.23	7.75	3.35	2.31	8.58	3.37	2.55	9.42	3.40	2.77	9.96	3.42	2.91	10.79	3.44	3.14	11.89	3.44	3.46
41 °C	7.22	3.35	2.16	7.49	3.35	2.24	8.29	3.37	2.46	9.11	3.40	2.68	9.63	3.41	2.82	10.43	3.43	3.04	11.50	3.44	3.34
42 °C	6.96	3.36	2.07	7.22	3.36	2.15	7.99	3.38	2.36	8.80	3.40	2.59	9.29	3.41	2.72	10.07	3.43	2.94	11.10	3.43	3.24
43 °C	6.70	3.37	1.99	6.95	3.37	2.06	7.70	3.38	2.28	8.49	3.40	2.50	8.96	3.41	2.63	9.71	3.42	2.84	10.71	3.43	3.12

* : OPTIONAL PARTS "Cooling kit" is necessary for cooling operation.

FT : Flow temperature
 OT : Outdoor temperature
 CC : Cooling capacity (kW)
 IP : Input power (kW)
 COP : Coefficient of performance

The values of cooling capacity/power input/COP are based on measurement of EN14511 standard;

FT < 10 °C : The flow rate obtained during the test at the standard rating conditions of OT 35 °C and Water temp. flow/return 7 °C / 12 °C, 1550 l/h

FT ≥ 10 °C : The flow rate obtained during the test at the standard rating conditions of OT 35 °C and Water temp. flow/return 18 °C / 23 °C, 2157 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.

MODEL: WO*K160

FT	6 °C			7 °C			10 °C			13 °C			15 °C			18 °C			22 °C		
	OT	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP
20 °C	9.14	2.70	3.39	9.50	2.78	3.42	10.59	3.06	3.47	11.68	3.24	3.61	12.41	3.27	3.80	13.50	3.22	4.20	14.95	3.21	4.66
21 °C	9.14	2.81	3.25	9.50	2.90	3.28	10.59	3.16	3.35	11.68	3.33	3.51	12.41	3.35	3.70	13.50	3.32	4.07	14.87	3.32	4.48
22 °C	9.14	2.91	3.14	9.50	3.01	3.16	10.59	3.27	3.24	11.68	3.41	3.43	12.41	3.43	3.62	13.33	3.42	3.90	14.78	3.43	4.31
23 °C	9.14	3.02	3.02	9.50	3.13	3.04	10.59	3.38	3.13	11.43	3.50	3.26	12.15	3.52	3.45	13.25	3.53	3.75	14.70	3.54	4.15
24 °C	9.14	3.13	2.92	9.50	3.24	2.93	10.59	3.49	3.03	11.35	3.59	3.16	12.06	3.60	3.35	13.16	3.63	3.63	14.62	3.65	4.01
25 °C	9.14	2.53	3.61	9.50	2.54	3.74	10.59	2.57	4.12	11.68	2.60	4.49	12.41	2.62	4.74	13.50	2.66	5.08	14.95	2.58	5.79
26 °C	9.14	2.68	3.41	9.50	2.68	3.54	10.59	2.72	3.89	11.68	2.75	4.25	12.41	2.77	4.48	13.50	2.81	4.80	14.95	2.73	5.48
27 °C	9.14	2.82	3.24	9.50	2.83	3.36	10.59	2.86	3.70	11.68	2.90	4.03	12.41	2.92	4.25	13.50	2.96	4.57	14.95	2.88	5.20
28 °C	9.14	2.96	3.09	9.50	2.97	3.20	10.59	3.01	3.52	11.68	3.05	3.83	12.41	3.07	4.04	13.50	3.10	4.35	14.95	3.02	4.95
29 °C	9.14	3.10	2.95	9.50	3.12	3.04	10.59	3.16	3.35	11.68	3.20	3.65	12.41	3.22	3.85	13.50	3.25	4.15	14.95	3.17	4.72
30 °C	9.14	3.25	2.81	9.50	3.26	2.91	10.59	3.31	3.20	11.68	3.34	3.50	12.41	3.37	3.68	13.50	3.40	3.97	14.95	3.32	4.50
31 °C	9.14	3.39	2.70	9.50	3.41	2.79	10.59	3.46	3.06	11.68	3.49	3.35	12.41	3.52	3.53	13.50	3.55	3.80	14.95	3.47	4.31
32 °C	9.14	3.53	2.59	9.50	3.56	2.67	10.59	3.61	2.93	11.68	3.64	3.21	12.41	3.67	3.38	13.50	3.69	3.66	14.95	3.62	4.13
33 °C	9.14	3.67	2.49	9.50	3.70	2.57	10.59	3.76	2.82	11.68	3.79	3.08	12.41	3.82	3.25	13.50	3.84	3.52	14.95	3.76	3.98
34 °C	9.14	3.82	2.39	9.50	3.85	2.47	10.59	3.91	2.71	11.68	3.94	2.96	12.41	3.97	3.13	13.50	3.99	3.38	14.95	3.91	3.82
35 °C	9.14	3.96	2.31	9.50	3.99	2.38	10.59	4.06	2.61	11.68	4.09	2.86	12.41	4.12	3.02	13.50	4.14	3.26	14.95	4.06	3.68
36 °C	9.14	4.12	2.22	9.50	4.14	2.29	10.59	4.20	2.52	11.68	4.23	2.76	12.41	4.26	2.91	13.50	4.28	3.15	14.95	4.20	3.56
37 °C	9.14	4.28	2.14	9.50	4.30	2.21	10.59	4.34	2.44	11.68	4.38	2.67	12.41	4.40	2.82	13.50	4.43	3.05	14.95	4.35	3.44
38 °C	9.14	4.44	2.06	9.50	4.45	2.13	10.59	4.49	2.36	11.68	4.52	2.58	12.41	4.54	2.73	13.50	4.58	2.95	14.95	4.49	3.33
39 °C	9.14	4.60	1.99	9.50	4.60	2.07	10.59	4.63	2.29	11.68	4.66	2.51	12.41	4.68	2.65	13.50	4.72	2.86	14.95	4.63	3.23
40 °C	8.31	4.23	1.97	8.63	4.23	2.04	9.58	4.25	2.25	10.52	4.27	2.47	11.15	4.28	2.61	12.10	4.29	2.82	13.36	4.31	3.10
41 °C	8.07	4.24	1.90	8.39	4.24	1.98	9.30	4.26	2.18	10.19	4.28	2.38	10.83	4.29	2.52	11.77	4.31	2.73	12.98	4.33	3.00
42 °C	7.83	4.24	1.85	8.15	4.25	1.92	9.03	4.27	2.11	9.87	4.29	2.30	10.51	4.31	2.44	11.43	4.33	2.64	12.60	4.35	2.90
43 °C	7.59	4.25	1.78	7.91	4.26	1.86	8.75	4.28	2.04	9.54	4.30	2.22	10.19	4.32	2.36	11.10	4.34	2.56	12.22	4.37	2.79

* : OPTIONAL PARTS "Cooling kit" is necessary for cooling operation.

FT : Flow temperature
 OT : Outdoor temperature
 CC : Cooling capacity (kW)
 IP : Input power (kW)
 EER : Energy efficiency ratio

The values of cooling capacity/power input/COP are based on measurement of EN14511 standard;
 FT < 10°C : The flow rate obtained during the test at the standard rating conditions of OT 35°C and Water temp. flow/return 7°C / 12°C, 1636 l/h
 FT ≥ 10°C : The flow rate obtained during the test at the standard rating conditions of OT 35°C and Water temp. flow/return 18°C / 23°C, 2330 l/h

Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined and measured values.