ideal HEATING

Logic Air.

Power charts and COP

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Logic Air 4kW power charts.

DFT = DESIGN FLOW TEMPERATURE →
ODT = OUTDOOR DESIGN TEMPERATURE ↓

	30°C			35°C			40°C			45°C			50°C			55°C		
	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP
7°C	0.72	4	5.59	0.77	4	5.21	0.86	4	4.64	1.02	4	3.93	1.18	4	3.4	1.33	4	3
6°C	0.82	4.17	5.11	0.91	4.16	4.59	1.02	4.15	4.06	1.18	4.13	3.51	1.33	4.12	3.09	1.49	4.11	2.76
5°C	0.9	4.32	4.82	1.01	4.29	4.24	1.14	4.27	3.73	1.3	4.25	3.27	1.45	4.22	2.91	1.61	4.2	2.61
4°C	0.95	4.44	4.66	1.09	4.4	4.04	1.23	4.37	3.55	1.39	4.34	3.13	1.54	4.3	2.8	1.69	4.27	2.52
3°C	0.99	4.53	4.59	1.13	4.49	3.96	1.28	4.45	3.46	1.44	4.41	3.07	1.59	4.37	2.75	1.74	4.33	2.48
2°C	1	4.65	4.66	1.15	4.6	4	1.3	4.55	3.49	1.46	4.5	3.09	1.61	4.45	2.77	1.76	4.4	2.5
1°C	1	4.61	4.61	1.15	4.54	3.95	1.3	4.49	3.45	1.46	4.44	3.05	1.61	4.39	2.73	1.76	4.32	2.45
0°C	1.01	4.56	4.54	1.16	4.49	3.88	1.31	4.44	3.39	1.46	4.38	3	1.61	4.33	2.68	1.76	4.24	2.41
-1°C	1.02	4.52	4.45	1.16	4.43	3.81	1.32	4.38	3.33	1.47	4.33	2.94	1.62	4.27	2.64	1.77	4.17	2.36
-2°C	1.03	4.48	4.34	1.18	4.38	3.73	1.33	4.32	3.26	1.48	4.27	2.88	1.63	4.22	2.58	1.78	4.09	2.3
-3°C	1.05	4.44	4.22	1.19	4.32	3.63	1.34	4.27	3.18	1.49	4.21	2.82	1.65	4.16	2.52	1.78	4.01	2.25
-4°C	1.07	4.39	4.09	1.21	4.27	3.54	1.36	4.21	3.1	1.51	4.15	2.75	1.66	4.1	2.46	1.8	3.93	2.19
-5°C	1.1	4.35	3.95	1.23	4.21	3.43	1.38	4.15	3.01	1.53	4.09	2.67	1.69	4.04	2.4	1.81	3.86	2.13
-6°C	1.13	4.31	3.8	1.25	4.16	3.32	1.4	4.1	2.92	1.56	4.04	2.59	1.71	3.98	2.33	1.82	3.78	2.07
-7°C	1.17	4.27	3.65	1.28	4.1	3.21	1.43	4.04	2.82	1.58	3.98	2.51	1.74	3.92	2.26	1.84	3.7	2.01

Logic Air 5kW power charts.

DFT = DESIGN FLOW TEMPERATURE →
ODT = OUTDOOR DESIGN TEMPERATURE ↓

	30°C			35°C			40°C			45°C			50°C			55°C		
	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP
7°C	0.9	5	5.53	0.99	5	5.06	1.11	5	4.51	1.29	5	3.88	1.47	5	3.41	1.64	5	3.04
6°C	1.1	5.31	4.84	1.21	5.29	4.36	1.35	5.27	3.9	1.53	5.25	3.43	1.71	5.23	3.06	1.88	5.21	2.77
5°C	1.25	5.58	4.47	1.39	5.54	3.99	1.54	5.5	3.56	1.72	5.47	3.18	1.9	5.43	2.86	2.07	5.39	2.6
4°C	1.35	5.79	4.28	1.51	5.74	3.79	1.68	5.69	3.39	1.85	5.64	3.04	2.03	5.59	2.75	2.2	5.54	2.51
3°C	1.42	5.96	4.2	1.59	5.9	3.71	1.76	5.84	3.31	1.94	5.78	2.98	2.11	5.71	2.71	2.28	5.65	2.47
2°C	1.44	6.17	4.29	1.61	6.1	3.78	1.79	6.02	3.37	1.96	5.95	3.03	2.14	5.88	2.75	2.31	5.8	2.51
1°C	1.44	6.06	4.21	1.61	5.99	3.71	1.79	5.91	3.31	1.96	5.84	2.98	2.14	5.77	2.7	2.31	5.69	2.46
0°C	1.44	5.95	4.13	1.61	5.88	3.64	1.79	5.8	3.25	1.96	5.73	2.92	2.13	5.66	2.65	2.31	5.58	2.42
-1°C	1.44	5.83	4.04	1.62	5.77	3.57	1.79	5.69	3.18	1.96	5.62	2.86	2.13	5.55	2.6	2.3	5.47	2.37
-2°C	1.44	5.72	3.96	1.62	5.66	3.5	1.79	5.58	3.12	1.96	5.5	2.81	2.13	5.45	2.56	2.3	5.36	2.33
-3°C	1.45	5.6	3.87	1.62	5.54	3.43	1.79	5.47	3.06	1.96	5.39	2.76	2.13	5.34	2.51	2.29	5.24	2.29
-4°C	1.45	5.49	3.78	1.62	5.43	3.35	1.79	5.36	3	1.96	5.28	2.7	2.12	5.23	2.47	2.29	5.13	2.25
-5°C	1.46	5.37	3.69	1.62	5.32	3.28	1.79	5.25	2.93	1.95	5.17	2.65	2.12	5.13	2.42	2.28	5.02	2.21
-6°C	1.46	5.26	3.6	1.63	5.21	3.2	1.79	5.13	2.87	1.95	5.06	2.59	2.11	5.02	2.38	2.27	4.91	2.17
-7°C	1.47	5.14	3.51	1.63	5.1	3.13	1.79	5.02	2.81	1.95	4.95	2.54	2.1	4.91	2.33	2.25	4.8	2.13

Logic Air 8kW power charts.

DFT = DESIGN FLOW TEMPERATURE →
ODT = OUTDOOR DESIGN TEMPERATURE ↓

	30°C			35°C			40°C			45°C			50°C			55°C		
	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP
7°C	1.44	8	5.54	1.57	8	5.1	1.76	8	4.54	2.05	8	3.91	2.34	8	3.43	2.62	8	3.05
6°C	1.67	8.07	4.84	1.87	8.05	4.3	2.12	8.04	3.79	2.43	8.03	3.3	2.74	8.01	2.92	3.05	8	2.62
5°C	1.84	8.12	4.42	2.11	8.1	3.84	2.4	8.07	3.36	2.73	8.05	2.95	3.06	8.03	2.63	3.38	8	2.37
4°C	1.96	8.17	4.16	2.28	8.14	3.57	2.6	8.1	3.11	2.94	8.07	2.74	3.28	8.03	2.45	3.62	8	2.21
3°C	2.04	8.2	4.03	2.38	8.16	3.43	2.72	8.12	2.98	3.07	8.08	2.63	3.42	8.04	2.35	3.76	8	2.13
2°C	2.06	8.25	4	2.41	8.2	3.4	2.76	8.15	2.95	3.11	8.1	2.6	3.46	8.05	2.33	3.81	8	2.1
1°C	2.07	8.25	3.99	2.41	8.2	3.4	2.76	8.14	2.95	3.11	8.08	2.6	3.46	8.04	2.32	3.81	7.94	2.09
0°C	2.07	8.25	3.98	2.42	8.2	3.39	2.76	8.13	2.94	3.11	8.06	2.59	3.46	8.03	2.32	3.79	7.89	2.08
-1°C	2.09	8.25	3.95	2.43	8.19	3.37	2.77	8.12	2.93	3.11	8.04	2.59	3.45	8.03	2.33	3.78	7.83	2.07
-2°C	2.11	8.25	3.9	2.44	8.19	3.35	2.78	8.11	2.92	3.11	8.03	2.58	3.45	8.02	2.33	3.75	7.78	2.07
-3°C	2.14	8.25	3.85	2.46	8.19	3.33	2.78	8.1	2.91	3.11	8.01	2.57	3.44	8.01	2.33	3.72	7.72	2.08
-4°C	2.18	8.25	3.79	2.48	8.19	3.3	2.8	8.09	2.89	3.11	7.99	2.57	3.43	8	2.34	3.67	7.67	2.09
-5°C	2.22	8.25	3.72	2.5	8.18	3.27	2.81	8.08	2.88	3.11	7.97	2.56	3.41	8	2.34	3.63	7.61	2.1
-6°C	2.26	8.25	3.64	2.53	8.18	3.23	2.82	8.07	2.86	3.11	7.95	2.56	3.4	7.99	2.35	3.57	7.56	2.12
-7°C	2.32	8.24	3.56	2.56	8.18	3.19	2.84	8.06	2.84	3.11	7.93	2.55	3.38	7.98	2.36	3.5	7.5	2.14

Logic Air 10kW power charts.

DFT = DESIGN FLOW TEMPERATURE →
ODT = OUTDOOR DESIGN TEMPERATURE ↓

	30°C			35°C			40°C			45°C			50°C			55°C		
	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP	Power in (kW)	Power out (kW)	COP
7°C	1.84	10	5.42	2.07	10	4.83	2.34	10	4.27	2.68	10	3.73	3.02	10	3.32	3.36	10	2.98
6°C	2.14	10.13	4.72	2.4	10.05	4.18	2.69	9.97	3.7	3.03	9.9	3.27	3.36	9.82	2.92	3.69	9.74	2.64
5°C	2.38	10.25	4.31	2.67	10.1	3.79	2.97	9.95	3.35	3.3	9.81	2.98	3.62	9.66	2.67	3.95	9.51	2.41
4°C	2.55	10.34	4.06	2.85	10.14	3.55	3.16	9.93	3.14	3.49	9.73	2.79	3.81	9.53	2.5	4.14	9.33	2.25
3°C	2.65	10.41	3.93	2.96	10.16	3.43	3.28	9.92	3.02	3.6	9.67	2.68	3.93	9.43	2.4	4.25	9.18	2.16
2°C	2.68	10.5	3.92	3	10.2	3.4	3.32	9.9	2.98	3.64	9.6	2.64	3.96	9.3	2.35	4.29	9	2.1
1°C	2.68	10.39	3.88	3	10.13	3.37	3.32	9.84	2.96	3.64	9.56	2.62	3.96	9.27	2.34	4.28	8.94	2.09
0°C	2.68	10.28	3.83	3	10.05	3.35	3.32	9.79	2.95	3.64	9.52	2.62	3.96	9.25	2.34	4.27	8.89	2.08
-1°C	2.69	10.16	3.78	3.01	9.98	3.32	3.32	9.73	2.93	3.64	9.48	2.61	3.95	9.22	2.33	4.25	8.83	2.08
-2°C	2.69	10.05	3.73	3.01	9.9	3.29	3.32	9.67	2.91	3.63	9.44	2.6	3.94	9.2	2.33	4.22	8.78	2.08
-3°C	2.7	9.94	3.68	3.02	9.83	3.26	3.32	9.62	2.89	3.63	9.4	2.59	3.93	9.17	2.33	4.19	8.72	2.08
-4°C	2.71	9.83	3.63	3.02	9.75	3.23	3.32	9.56	2.88	3.62	9.36	2.59	3.92	9.15	2.34	4.15	8.67	2.09
-5°C	2.72	9.71	3.57	3.03	9.68	3.19	3.32	9.5	2.86	3.61	9.32	2.58	3.9	9.12	2.34	4.1	8.61	2.1
-6°C	2.73	9.6	3.52	3.04	9.6	3.16	3.32	9.44	2.84	3.6	9.28	2.58	3.88	9.1	2.34	4.04	8.56	2.12
-7°C	2.74	9.49	3.46	3.05	9.53	3.12	3.32	9.39	2.83	3.59	9.24	2.58	3.86	9.07	2.35	3.97	8.5	2.14

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