

**ideal**  
HEATING

# HP290.

Power charts  
and COP



# HP290 4.5kW power charts.

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

	30°C			35°C			40°C			45°C			50°C				55°C			60°C			65°C			70°C			75°C		
	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)		Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)
-25°C	3.22	1.99	1.62	3.19	1.86	1.71	3.15	1.79	1.76	3.1	1.68	1.84	3.03	1.58	1.92		2.87	1.44	2	/	/	/	/	/	/	/	/	/	/	/	/
-20°C	3.88	2.29	1.7	3.82	2.14	1.79	3.77	2.04	1.85	3.69	1.91	1.94	3.61	1.78	2.03		3.33	1.59	2.1	3.29	1.49	2.21	3.14	1.36	2.31	/	/	/	/	/	/
-15°C	4.56	2.65	1.72	4.42	2.4	1.84	4.38	2.29	1.92	4.28	2.12	2.02	4.16	1.96	2.12		3.93	1.77	2.22	3.78	1.62	2.34	3.61	1.47	2.45	3.46	1.35	2.57	/	/	/
-10°C	4.42	3.17	1.39	4.42	2.86	1.55	4.5	2.65	1.7	4.63	2.51	1.84	4.61	2.28	2.02		4.6	1.99	2.32	4.47	1.8	2.49	4.26	1.62	2.62	4.06	1.47	2.77	3.74	1.28	2.93
-7°C	4.42	3.44	1.29	4.5	3.1	1.45	4.5	2.89	1.56	4.7	2.7	1.74	4.64	2.42	1.92		4.7	2.15	2.19	4.61	1.93	2.39	4.44	1.73	2.57	4.25	1.57	2.71	3.93	1.37	2.86
-5°C	4.36	3.69	1.18	4.37	3.32	1.32	4.45	3.02	1.47	4.51	2.81	1.61	4.51	2.57	1.75		4.55	2.25	2.02	4.58	2.03	2.26	4.55	1.83	2.48	4.42	1.64	2.69	4.12	1.44	2.86
-2°C	4.4	4.02	1.09	4.27	3.58	1.19	4.29	3.28	1.31	4.36	3.02	1.44	4.43	2.71	1.64		4.46	2.5	1.78	4.44	2.28	1.95	4.46	2.09	2.14	4.46	1.89	2.35	4.42	1.62	2.74
0°C	4.42	4.19	1.05	4.38	3.78	1.16	4.4	3.47	1.27	4.46	3.2	1.39	4.54	2.9	1.56		4.61	2.61	1.76	4.41	2.35	1.88	4.37	2.14	2.04	4.38	1.95	2.25	4.52	1.7	2.66
2°C	4.42	4.51	0.98	4.4	4.1	1.07	4.4	3.64	1.21	4.4	3.35	1.31	4.5	3	1.5		4.6	2.7	1.7	4.37	2.51	1.74	4.31	2.19	1.96	4.31	2.07	2.08	4.64	1.77	2.63
5°C	4.36	5.15	0.85	4.33	4.61	0.94	4.39	4.13	1.06	4.5	3.72	1.21	4.44	3.34	1.33		4.48	3.03	1.48	4.56	2.8	1.63	4.51	2.43	1.86	4.5	2.29	1.96	4.5	1.97	2.28
7°C	4.54	5.63	0.81	4.5	5.15	0.87	4.49	4.46	1.01	4.5	4.05	1.11	4.57	3.54	1.29		4.6	3.2	1.44	4.58	2.94	1.56	4.63	2.57	1.8	4.64	2.4	1.93	4.65	2.1	2.22
10°C	4.44	6.34	0.7	4.43	5.58	0.79	4.53	4.92	0.92	4.49	4.37	1.03	4.54	3.9	1.16		4.59	3.45	1.33	4.57	3.1	1.47	4.58	2.75	1.67	4.56	2.55	1.79	4.6	2.21	2.08
12°C	4.42	6.58	0.67	4.49	6.01	0.75	4.47	5.27	0.85	4.43	4.64	0.96	4.63	4.12	1.13		4.69	3.69	1.27	4.66	3.24	1.44	4.58	2.85	1.6	4.64	2.68	1.73	4.54	2.31	1.96
15°C	4.53	6.8	0.67	4.49	6.2	0.72	4.47	5.45	0.82	4.44	4.79	0.93	4.77	4.25	1.12		4.83	3.8	1.27	4.79	3.39	1.41	4.6	2.93	1.57	4.66	2.7	1.72	4.66	2.32	2.01
20°C	4.53	7.55	0.6	4.52	6.52	0.69	4.45	5.94	0.75	4.43	5.18	0.85	4.51	4.55	0.99		4.6	4.1	1.12	4.62	3.66	1.26	4.64	3.15	1.47	4.68	2.8	1.67	4.38	2.4	1.82
25°C	4.44	8.78	0.51	4.46	7.48	0.6	4.45	6.55	0.68	4.5	5.79	0.78	4.61	5.06	0.91		4.71	4.51	1.04	4.6	3.92	1.17	4.55	3.38	1.34	4.58	2.87	1.6	/	/	/
30°C	4.44	9.61	0.46	4.45	8.58	0.52	4.46	7.27	0.61	4.96	6.45	0.77	5.08	5.7	0.89		5.19	4.9	1.06	4.95	4.25	1.17	4.66	3.7	1.26	/	/	/	/	/	/
35°C	/	/	/	4.4	10.04	0.44	4.71	8.17	0.58	5.2	6.88	0.76	5.58	6.16	0.91		5.73	5.06	1.13	/	/	/	/	/	/	/	/	/	/	/	/

# HP290 6kW power charts.

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

	30°C			35°C			40°C			45°C			50°C				55°C			60°C			65°C			70°C			75°C		
	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)		Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)
-25°C	3.46	1.89	1.83	3.4	1.76	1.94	3.34	1.65	2.03	3.28	1.55	2.11	3.2	1.46	2.19		3	1.4	2.14	/	/	/	/	/	/	/	/	/	/	/	/
-20°C	4.3	2.25	1.91	4.24	2.1	2.01	4.17	1.98	2.11	4.08	1.86	2.2	3.98	1.74	2.29		3.66	1.57	2.34	3.6	1.41	2.55	3.44	1.29	2.66	/	/	/	/	/	/
-15°C	5.11	2.58	1.98	5.05	2.43	2.08	4.96	2.21	2.24	4.88	2.08	2.34	4.75	1.9	2.5		4.46	1.71	2.61	4.31	1.6	2.7	4.12	1.38	2.99	3.96	1.3	3.04	/	/	/
-10°C	5.77	2.98	1.94	5.81	2.78	2.09	5.6	2.61	2.15	5.42	2.42	2.24	5.23	2.16	2.42		5.12	1.92	2.67	5.05	1.78	2.83	4.83	1.56	3.1	4.18	1.39	3	3.81	1.26	3.02
-7°C	5.76	3.29	1.75	5.9	2.95	2	5.59	2.79	2	5.5	2.5	2.2	5.26	2.29	2.3		5.02	2.14	2.35	5.1	1.86	2.74	5.05	1.69	2.99	4.48	1.48	3.03	4.09	1.29	3.17
-5°C	5.68	3.51	1.62	5.7	3.2	1.78	5.56	2.94	1.89	5.43	2.71	2	5.29	2.49	2.12		5.17	2.2	2.35	5.15	1.91	2.7	4.93	1.76	2.8	4.5	1.54	2.91	4.6	1.34	3.43
-2°C	5.48	3.9	1.41	5.51	3.55	1.55	5.45	3.24	1.68	5.47	2.9	1.88	5.37	2.67	2.01		5.28	2.35	2.24	5.29	2.04	2.6	5.31	1.89	2.81	5.13	1.7	3.01	4.67	1.5	3.11
0°C	5.66	4.08	1.39	5.64	3.73	1.51	5.7	3.39	1.68	5.74	3.05	1.88	5.69	2.79	2.04		5.34	2.6	2.06	5.66	2.22	2.55	5.35	1.99	2.68	5.35	1.76	3.04	5.06	1.51	3.34
2°C	5.65	4.31	1.31	5.6	3.9	1.44	5.74	3.57	1.61	5.8	3.1	1.87	5.74	2.88	1.99		5.8	2.65	2.19	5.44	2.34	2.32	5.41	2.07	2.61	5.44	1.83	2.97	5.17	1.58	3.27
5°C	5.87	4.99	1.18	5.92	4.48	1.32	5.94	4.04	1.47	6.06	3.6	1.68	5.96	3.21	1.85		5.99	2.95	2.03	5.96	2.65	2.25	5.96	2.32	2.57	5.92	1.95	3.04	5.6	1.8	3.11
7°C	6.18	5.42	1.14	6.2	4.9	1.27	6.35	4.31	1.47	6.4	3.8	1.68	6.29	3.4	1.85		6.2	3.1	2	6.2	2.82	2.2	6.19	2.47	2.51	6.27	2.23	2.81	5.84	1.95	3
10°C	6.22	6.04	1.03	6.19	5.36	1.15	6.33	4.76	1.33	6.47	4.24	1.53	6.28	3.72	1.69		6.22	3.4	1.83	6.21	2.98	2.08	6.22	2.63	2.37	6.19	2.38	2.6	6.03	2	3.02
12°C	6.23	6.23	1	6.24	5.77	1.08	6.3	5.1	1.24	6.35	4.53	1.4	6.37	3.98	1.6		6.2	3.58	1.73	6.18	3.1	1.99	6.2	2.75	2.25	6.18	2.48	2.49	6.12	2.12	2.89
15°C	6.25	6.45	0.97	6.25	5.96	1.05	6.3	5.25	1.2	6.51	4.66	1.4	6.42	4.15	1.55		6.25	3.72	1.68	6.34	3.25	1.95	6.25	2.82	2.22	6.34	2.52	2.52	5.91	2.2	2.69
20°C	6.23	7.14	0.87	5.97	6.3	0.95	6.33	5.75	1.1	6.5	5.04	1.29	6.42	4.4	1.46		6.24	3.98	1.57	6.27	3.46	1.81	6.18	3.05	2.03	5.94	2.59	2.29	5.46	2.22	2.46
25°C	6.31	8.18	0.77	6.31	7.1	0.89	6.32	6.38	0.99	6.41	5.68	1.13	6.34	4.93	1.29		6.26	4.35	1.44	6.09	3.76	1.62	5.74	3.27	1.76	5.41	2.72	1.99	/	/	/
30°C	6.17	9.24	0.67	6.17	8.1	0.76	6.35	6.98	0.91	6.47	6.35	1.02	6.41	5.5	1.17		6.22	4.75	1.31	6.18	4.13	1.5	5.78	3.55	1.63	/	/	/	/	/	/
35°C	/	/	/	6.14	9.51	0.65	6.3	8.01	0.79	6.44	6.76	0.95	6.21	6.12	1.01		6.18	4.98	1.24	/	/	/	/	/	/	/	/	/	/	/	/

# HP290 8kW power charts.

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

	30°C			35°C			40°C			45°C			50°C				55°C			60°C			65°C			70°C			75°C		
	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)		Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)
-25°C	5.46	2.01	2.71	5.37	1.92	2.8	5.29	1.64	3.23	5.21	1.59	3.27	5.09	1.43	3.56		5	1.36	3.67	/	/	/	/	/	/	/	/	/	/	/	/
-20°C	6.62	2.31	2.86	6.54	2.19	2.99	6.46	2.1	3.08	6.24	1.91	3.27	6.27	1.62	3.87		6.21	1.55	3.99	5.97	1.57	3.8	6.1	1.47	4.16	/	/	/	/	/	/
-15°C	7.57	2.54	2.98	7.45	2.39	3.12	7.35	2.25	3.28	7.24	2.08	3.47	6.96	1.95	3.56		6.98	1.69	4.13	6.94	1.61	4.31	6.81	1.57	4.34	6.86	1.45	4.72	/	/	/
-10°C	8.05	2.94	2.73	7.6	2.82	2.7	7.86	2.62	3	7.45	2.23	3.34	7.57	2.21	3.42		7.34	2.02	3.64	7.1	1.97	3.61	7.4	1.84	4.03	7.11	1.75	4.06	7.14	1.58	4.51
-7°C	8.03	3.2	2.51	8	2.85	2.81	7.84	2.85	2.75	7.6	2.25	3.38	7.55	2.24	3.37		7.4	2.1	3.52	7.12	2.03	3.51	7.39	1.99	3.71	7.01	1.87	3.76	7.12	1.73	4.12
-5°C	8.03	3.45	2.33	8	3.22	2.49	7.89	3	2.63	7.64	2.63	2.9	7.65	2.51	3.05		7.67	2.18	3.52	7.46	2.16	3.46	7.6	2.05	3.72	7.2	1.96	3.67	7.26	1.78	4.07
-2°C	8.04	3.86	2.08	8.02	3.55	2.26	7.98	3.27	2.44	7.65	2.78	2.75	7.86	2.7	2.91		8.01	2.23	3.59	7.46	2.22	3.36	7.87	2.1	3.75	7.39	1.99	3.71	7.81	1.82	4.28
0°C	8.2	4	2.05	8.06	3.65	2.21	8.05	3.31	2.43	7.7	2.84	2.71	8.03	2.76	2.91		8.01	2.46	3.26	8.01	2.32	3.45	8.15	2.18	3.74	7.58	2.03	3.74	8.01	1.84	4.36
2°C	8.21	4.27	1.92	8.2	3.65	2.25	8.2	3.5	2.34	8.2	2.95	2.78	8.26	2.8	2.95		8.4	2.5	3.36	8.35	2.36	3.54	8.28	2.24	3.69	8.4	2.03	4.13	8.14	1.89	4.3
5°C	8.77	4.82	1.82	8.81	4.35	2.02	8.74	3.94	2.22	8.82	3.47	2.54	8.63	3.12	2.77		8.62	2.92	2.95	8.65	2.65	3.27	8.66	2.41	3.6	8.9	2.18	4.08	8.6	1.95	4.42
7°C	9.92	5.16	1.92	10	4.7	2.13	9.98	4.15	2.4	10	3.65	2.74	9.75	3.33	2.93		9.5	3.05	3.11	9.27	2.82	3.28	9.26	2.55	3.64	9.23	2.31	4	8.85	2.05	4.32
10°C	9.66	5.94	1.63	9.63	5.32	1.81	9.69	4.74	2.05	9.68	4.14	2.34	9.45	3.68	2.57		9.17	3.35	2.74	9.28	3.01	3.08	9.2	2.77	3.32	9.43	2.45	3.85	8.91	2.23	3.99
12°C	9.71	6.28	1.55	9.7	5.81	1.67	9.8	5.15	1.9	9.63	4.49	2.15	9.42	3.98	2.37		9.24	3.5	2.64	9.23	3.29	2.81	9.28	2.94	3.16	9.66	2.61	3.7	9.12	2.35	3.88
15°C	9.53	6.78	1.41	9.82	6.03	1.63	9.75	5.35	1.82	9.65	4.68	2.06	9.41	4.13	2.28		9.24	3.79	2.44	9.22	3.4	2.71	9.3	3.03	3.07	9.4	2.68	3.51	8.94	2.43	3.68
20°C	9.62	7.77	1.24	9.6	6.67	1.44	9.73	5.87	1.66	9.75	5.11	1.91	9.53	4.48	2.13		9.07	4.1	2.21	9.31	3.67	2.54	9.3	3.26	2.86	9.21	2.87	3.21	8.89	2.65	3.36
25°C	9.68	8.8	1.1	9.66	7.84	1.23	9.64	6.78	1.42	9.57	5.78	1.65	9.38	5.04	1.86		9.08	4.6	1.97	9.1	4.04	2.25	9.22	3.54	2.61	9.18	3.04	3.02	/	/	/
30°C	9.57	10.06	0.95	9.66	9.25	1.04	9.81	7.84	1.25	9.75	6.58	1.48	9.36	5.71	1.64		9.09	5.16	1.76	9.26	4.49	2.06	9.18	3.9	2.36	/	/	/	/	/	/
35°C	/	/	/	9.67	10.92	0.89	9.66	9.14	1.06	9.63	7.59	1.27	9.5	6.47	1.47		9.13	5.49	1.66	/	/	/	/	/	/	/	/	/	/	/	/

# HP290 10kW power charts.

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

	30°C			35°C			40°C			45°C			50°C				55°C			60°C			65°C			70°C			75°C		
	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)		Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)
-25°C	7.2	2.03	3.55	7	1.88	3.73	6.82	1.75	3.9	6.64	1.63	4.08	6.46	1.52	4.26		6.35	1.43	4.44	/	/	/	/	/	/	/	/	/	/	/	/
-20°C	8.71	2.34	3.72	8.53	2.18	3.92	8.34	2.03	4.11	8.18	1.9	4.31	7.99	1.77	4.51		7.93	1.69	4.7	7.69	1.56	4.93	7.42	1.43	5.19	/	/	/	/	/	/
-15°C	9.87	2.74	3.6	10.07	2.51	4.01	10.03	2.34	4.29	9.85	2.18	4.51	9.67	1.9	5.09		9.62	1.94	4.96	9.38	1.75	5.35	8.99	1.6	5.61	8.45	1.57	5.4	/	/	/
-10°C	9.86	2.82	3.5	9.84	2.59	3.8	10.21	2.36	4.33	10.13	2.2	4.59	10.07	2.05	4.91		10.06	1.98	5.09	10.01	1.87	5.36	9.76	1.78	5.48	9.4	1.72	5.47	8.97	1.48	6.05
-7°C	9.92	3.17	3.13	10	2.8	3.57	10.24	2.68	3.83	10.5	2.45	4.29	10.42	2.24	4.66		10.4	2.15	4.84	10.35	1.99	5.2	10.27	1.83	5.61	9.86	1.8	5.47	9.18	1.63	5.64
-5°C	9.54	3.29	2.9	9.66	2.98	3.24	10.09	2.75	3.67	10.49	2.46	4.27	10.27	2.27	4.52		10.24	2.16	4.75	10.15	2.02	5.03	9.83	1.86	5.28	9.52	1.82	5.24	8.79	1.68	5.23
-2°C	9.37	3.7	2.53	9.42	3.34	2.82	10.27	2.95	3.48	10.71	2.67	4.01	10.78	2.43	4.43		10.69	2.29	4.67	10.44	2.11	4.96	10.06	1.96	5.14	9.71	1.85	5.24	8.89	1.7	5.23
0°C	9.23	4.05	2.28	9.28	3.61	2.57	10.09	3.16	3.19	11.05	2.8	3.94	11.02	2.56	4.31		10.91	2.4	4.54	10.59	2.19	4.84	9.97	2.01	4.96	9.56	1.89	5.06	8.83	1.74	5.09
2°C	9	4.35	2.07	9.1	3.8	2.39	10.33	3.34	3.09	11.3	2.9	3.9	11.32	2.68	4.23		11.3	2.55	4.43	10.87	2.28	4.77	10.37	2.06	5.03	10.04	1.93	5.19	9.26	1.76	5.25
5°C	10.84	5.13	2.11	10.77	4.59	2.34	11.27	4.07	2.77	11.84	3.59	3.3	11.85	3.24	3.66		11.86	2.99	3.96	11.76	2.68	4.38	11.77	2.39	4.91	11.62	2.19	5.32	10.51	1.97	5.33
7°C	12.02	5.43	2.21	12	4.8	2.5	12.02	4.32	2.78	12	3.7	3.24	12.08	3.45	3.5		12	3.1	3.87	12.06	2.88	4.18	12.02	2.63	4.58	12.05	2.3	5.24	10.89	2.01	5.41
10°C	11.91	6.48	1.84	12	5.45	2.2	11.9	4.84	2.46	11.97	4.31	2.78	12.07	3.83	3.15		12.08	3.52	3.43	12.01	3.12	3.85	12.07	2.78	4.34	11.91	2.52	4.72	11.27	2.2	5.13
12°C	11.84	7.12	1.66	12.12	5.91	2.05	12.04	5.24	2.3	11.9	4.63	2.57	11.96	4.12	2.9		11.96	3.75	3.19	12.18	3.32	3.67	12.04	2.93	4.11	11.88	2.66	4.47	11.82	2.31	5.11
15°C	11.82	7.45	1.59	12.06	6.34	1.9	11.84	5.56	2.13	11.83	4.9	2.41	12	4.32	2.78		11.92	3.9	3.06	12.03	3.46	3.48	11.88	3.06	3.88	11.88	2.83	4.2	11.73	2.48	4.73
20°C	12	8.01	1.5	11.96	6.95	1.72	11.97	6.02	1.99	11.98	5.32	2.25	11.93	4.71	2.53		11.87	4.2	2.83	11.98	3.71	3.23	11.84	3.3	3.59	11.95	2.95	4.05	11.12	2.64	4.21
25°C	11.96	8.5	1.41	11.84	7.5	1.58	11.87	6.4	1.85	11.87	5.61	2.12	11.85	4.96	2.39		11.99	4.5	2.66	11.91	4	2.98	11.99	3.52	3.41	11.82	3.21	3.68	/	/	/
30°C	11.93	9.98	1.2	12.13	8.44	1.44	11.96	7.35	1.63	11.99	6.43	1.87	11.97	5.63	2.13		11.88	5.13	2.32	11.82	4.54	2.6	11.95	3.96	3.02	/	/	/	/	/	/
35°C	/	/	/	12.02	9.89	1.22	12.15	8.41	1.44	11.93	7.28	1.64	11.94	6.32	1.89		11.85	5.67	2.09	/	/	/	/	/	/	/	/	/	/	/	/

# HP290 12kW power charts.

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

	30°C			35°C			40°C			45°C			50°C				55°C			60°C			65°C			70°C			75°C		
	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)		Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)
-25°C	7.97	1.97	4.05	7.78	1.85	4.22	7.59	1.7	4.47	7.41	1.58	4.69	7.22	1.47	4.9		7.14	1.41	5.08	/	/	/	/	/	/	/	/	/	/	/	/
-20°C	9.57	2.25	4.25	9.38	2.11	4.45	9.22	1.98	4.65	9.02	1.85	4.87	8.85	1.74	5.08		8.78	1.66	5.28	8.54	1.54	5.55	8.14	1.42	5.75	/	/	/	/	/	/
-15°C	10.92	2.51	4.34	10.75	2.35	4.57	10.6	2.23	4.76	10.67	2.09	5.11	10.62	1.85	5.74		10.58	1.88	5.62	10.11	1.7	5.94	9.46	1.54	6.15	8.93	1.54	5.79	/	/	/
-10°C	11.57	2.62	4.42	11.34	2.42	4.68	11.11	2.25	4.94	10.95	2.1	5.21	10.9	1.99	5.48		10.79	1.93	5.58	10.52	1.84	5.71	10.25	1.75	5.85	9.87	1.68	5.87	9.33	1.46	6.41
-7°C	11.6	3.05	3.8	11.5	2.7	4.26	11.44	2.5	4.57	11.4	2.3	4.96	11.36	2.12	5.36		11.3	2.1	5.38	11.24	1.95	5.75	10.74	1.8	5.96	10.07	1.75	5.74	9.48	1.6	5.93
-5°C	11.11	3.16	3.52	11.27	2.82	3.99	11.45	2.58	4.44	11.58	2.35	4.92	11.33	2.17	5.21		11.12	2.14	5.21	10.65	1.99	5.35	10.18	1.84	5.53	9.75	1.77	5.52	9.04	1.65	5.48
-2°C	10.9	3.46	3.15	10.92	3.15	3.47	11.15	2.87	3.89	11.72	2.58	4.54	11.75	2.36	4.98		11.64	2.22	5.24	11.17	2.07	5.39	10.77	1.93	5.59	10.33	1.8	5.74	9.55	1.66	5.74
0°C	10.87	3.72	2.93	11.14	3.35	3.33	11.28	3.05	3.7	11.38	2.77	4.11	11.93	2.5	4.78		11.83	2.35	5.04	11.52	2.15	5.36	10.7	1.98	5.4	10.33	1.84	5.63	9.62	1.69	5.7
2°C	10.62	4.04	2.63	10.8	3.5	3.09	11.1	3.26	3.4	12	2.85	4.21	11.89	2.63	4.52		12	2.5	4.8	11.69	2.25	5.2	11.08	2.04	5.42	10.55	1.89	5.58	9.66	1.71	5.65
5°C	12.7	4.55	2.79	12.6	4.11	3.07	12.93	3.68	3.51	13.22	3.32	3.99	13.32	3	4.45		13.33	2.8	4.77	13.37	2.58	5.18	13.21	2.36	5.6	12.27	2.16	5.69	11.18	1.91	5.85
7°C	14.1	5.01	2.82	14	4.5	3.11	14.06	4.07	3.46	14	3.5	4	14.03	3.3	4.25		14	3	4.67	14	2.77	5.05	13.71	2.51	5.47	12.71	2.24	5.67	11.4	1.97	5.79
10°C	13.93	6.19	2.25	13.53	5.27	2.57	13.81	4.63	2.99	14.06	4.11	3.42	14.05	3.67	3.83		14.05	3.38	4.16	13.94	3.02	4.62	13.94	2.69	5.19	13.03	2.46	5.3	11.82	2.12	5.57
12°C	14.05	6.76	2.08	13.98	5.72	2.44	14.07	5.04	2.79	14.11	4.44	3.18	13.9	3.96	3.51		13.93	3.64	3.83	14.02	3.22	4.36	14.04	2.82	4.98	13.87	2.58	5.38	12.4	2.23	5.56
15°C	13.94	6.98	2	13.98	5.85	2.39	14.08	5.14	2.74	14.14	4.55	3.11	14.14	4.01	3.52		14.16	3.68	3.85	14.07	3.27	4.3	13.72	2.91	4.71	13.36	2.73	4.9	12.5	2.37	5.28
20°C	13.82	7.53	1.83	14.13	6.47	2.18	13.93	5.52	2.52	13.89	4.79	2.9	13.65	4.34	3.14		13.59	4	3.4	13.27	3.56	3.73	12.9	3.17	4.06	12.74	2.89	4.41	11.12	2.64	4.21
25°C	14.13	7.93	1.78	13.88	6.96	1.99	14.12	5.79	2.44	13.87	5.17	2.68	13.61	4.63	2.94		13.54	4.27	3.17	13.23	3.84	3.44	12.85	3.44	3.74	12.67	3.14	4.03	/	/	/
30°C	14.12	9.53	1.48	13.95	7.83	1.78	13.75	6.88	2	13.49	6.06	2.23	13.22	5.39	2.45		13.13	4.91	2.67	12.8	4.38	2.92	12.43	3.9	3.18	/	/	/	/	/	/
35°C	/	/	/	13.22	9.58	1.38	13.04	8.24	1.58	12.81	7.19	1.78	12.53	6.28	1.99		12.42	5.57	2.23	/	/	/	/	/	/	/	/	/	/	/	/

# HP290 14kW power charts.

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

	30°C			35°C			40°C			45°C			50°C				55°C			60°C			65°C			70°C			75°C		
	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)		Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)	Heating Capacity (kW)	COP	Power Input (kW)
-25°C	9.03	1.82	4.96	8.83	1.74	5.08	8.64	1.56	5.53	8.45	1.48	5.7	8.26	1.38	6.01		8.18	1.3	6.3	/	/	/	/	/	/	/	/	/	/	/	/
-20°C	10.78	2.07	5.21	10.56	1.96	5.39	10.39	1.83	5.68	10.59	1.7	6.22	9.99	1.63	6.14		9.82	1.56	6.28	9.37	1.45	6.45	8.66	1.39	6.21	/	/	/	/	/	/
-15°C	12.13	2.41	5.03	11.96	2.23	5.37	11.78	2.05	5.74	11.6	1.9	6.11	11.6	1.77	6.56		11.19	1.79	6.26	10.45	1.67	6.24	9.67	1.52	6.36	9.17	1.53	5.99	/	/	/
-10°C	12.71	2.52	5.05	12.55	2.33	5.39	12.31	2.08	5.92	12.08	2.04	5.92	11.7	1.9	6.15		11.3	1.9	5.95	10.85	1.79	6.07	10.37	1.72	6.02	9.99	1.67	5.98	9.69	1.43	6.79
-7°C	12.64	2.8	4.51	12.7	2.5	5.08	12.59	2.36	5.33	12.5	2.25	5.56	12.23	2.05	5.96		12.4	2.05	6.05	11.65	1.88	6.19	10.85	1.79	6.05	10.61	1.73	6.14	10.06	1.57	6.42
-5°C	12.65	2.93	4.32	12.55	2.71	4.64	12.56	2.49	5.05	12.56	2.29	5.49	12.28	2.11	5.83		11.85	2.09	5.68	11.39	1.91	5.98	10.83	1.81	5.98	10.38	1.75	5.92	9.71	1.63	5.94
-2°C	12.4	3.29	3.77	12.47	3.01	4.14	12.64	2.74	4.61	12.66	2.51	5.05	12.78	2.29	5.59		12.28	2.18	5.64	11.54	2.01	5.74	10.89	1.9	5.72	10.45	1.79	5.84	9.71	1.65	5.89
0°C	12.54	3.51	3.58	12.8	3.17	4.03	12.85	2.9	4.43	13.17	2.63	5.01	13.15	2.39	5.5		12.91	2.26	5.7	11.91	2.08	5.72	11.29	1.94	5.83	10.45	1.82	5.73	9.68	1.67	5.79
2°C	12.64	3.72	3.4	12.8	3.2	4	13.14	3.05	4.31	13.1	2.75	4.76	13.05	2.55	5.13		13.1	2.45	5.35	12.18	2.18	5.59	11.32	2.01	5.63	10.68	1.88	5.7	9.72	1.69	5.74
5°C	14.18	4.33	3.28	14.2	3.92	3.63	14.2	3.55	4	14.18	3.24	4.38	14.13	2.95	4.79		14.27	2.75	5.19	14.19	2.49	5.7	13.21	2.36	5.6	12.9	2.13	6.07	11.59	1.89	6.15
7°C	15.23	4.86	3.13	15	4.4	3.41	15.12	3.97	3.81	15	3.35	4.48	15.06	3.25	4.64		15	2.85	5.26	15.1	2.68	5.64	14.71	2.43	6.06	13.59	2.19	6.22	12.36	1.92	6.43
10°C	15.19	5.93	2.56	14.94	5.04	2.97	14.99	4.48	3.34	15.01	4.02	3.73	15.16	3.59	4.22		14.99	3.34	4.49	15	2.94	5.11	15	2.61	5.75	13.71	2.44	5.61	11.91	2.1	5.68
12°C	15.03	6.65	2.26	15.01	5.52	2.72	15.1	4.89	3.09	15.12	4.24	3.57	15.1	3.87	3.9		15	3.56	4.22	14.97	3.17	4.72	15.17	2.74	5.53	13.87	2.58	5.38	12.4	2.23	5.56
15°C	15.03	6.8	2.21	15.03	5.61	2.68	15.11	4.95	3.05	15.14	4.38	3.46	15.14	3.92	3.87		14.95	3.61	4.14	15.04	3.2	4.69	15.04	2.81	5.36	14.32	2.64	5.42	12.88	2.31	5.57
20°C	15	7.26	2.07	15	6.09	2.46	15	5.35	2.8	15.01	4.62	3.25	14.77	4.13	3.57		14.72	3.79	3.88	14.03	3.35	4.18	13.09	3.06	4.27	13.14	2.86	4.6	11.12	2.64	4.21
25°C	15.04	7.58	1.98	14.97	6.45	2.32	14.98	5.7	2.63	14.96	5.07	2.95	14.89	4.43	3.36		15	4.14	3.63	14.67	3.73	3.93	14.27	3.31	4.32	13.45	3.12	4.32	/	/	/
30°C	14.89	9.34	1.59	14.95	7.47	2	14.74	6.61	2.23	14.48	5.86	2.47	14.19	5.2	2.73		14.09	4.75	2.97	13.75	4.24	3.24	13.37	3.79	3.52	/	/	/	/	/	/
35°C	/	/	/	13.82	9.45	1.46	13.63	8.17	1.67	13.38	7.1	1.88	13.09	6.23	2.1		12.99	5.5	2.36	/	/	/	/	/	/	/	/	/	/	/	/







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