

3.2 Hi-Therma Monobloc

3.2.1 Maximum heating capacity table (kW) (Integrated)

		Ambient temperature (°C DB)									
		-25		-20		-15		-10		-7	
	Water outlet temp (°C)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)
AHZ-044HCDS1	60									3.64	2.35
	55							3.65	2.17	4.20	2.30
	50					3.84	2.14	4.23	2.12	4.34	2.25
	45	3.47	2.27	3.88	2.18	4.12	2.10	4.57	2.03	4.62	2.20
	40	3.80	2.23	4.02	2.14	4.25	2.05	4.78	1.95	4.90	2.11
	35	3.98	2.21	4.17	2.10	4.36	1.95	4.87	1.86	5.00	1.99
	30	4.09	2.17	4.36	2.04	4.65	1.91	5.15	1.76	5.25	1.86
	25	4.20	2.05	4.56	1.95	4.94	1.86	5.43	1.66	5.74	1.70
	20	4.31	1.91	4.75	1.86	5.23	1.82	5.71	1.56	5.95	1.56
AHZ-080HCDS1	60									5.10	3.81
	55							5.76	3.94	6.40	3.52
	50					5.34	3.55	6.00	3.32	6.49	3.24
	45	4.84	3.41	5.25	3.32	5.71	3.28	6.31	3.18	6.68	3.12
	40	5.13	3.38	5.64	3.29	6.20	3.20	6.76	3.11	7.09	3.06
	35	5.77	3.14	6.01	3.11	6.33	3.07	7.04	2.93	7.30	2.85
	30	6.00	3.12	6.26	3.07	6.53	3.01	7.24	2.87	7.66	2.80
	25	6.22	3.12	6.51	3.03	6.81	2.95	7.43	2.82	7.81	2.74
	20	6.44	3.10	6.76	2.99	7.09	2.89	7.63	2.77	7.95	2.69

		Ambient temperature (°C DB)									
		-2		2		7		12		15	
	Water outlet temp (°C)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)
AHZ-044HCDS1	60	3.92	2.31	4.39	2.31	5.38	2.20	5.92	1.93	6.10	1.78
	55	4.82	2.28	5.16	2.27	6.00	2.07	6.78	1.83	6.96	1.70
	50	5.22	2.16	5.55	2.08	6.62	1.99	7.16	1.73	7.38	1.63
	45	5.62	2.03	5.81	1.89	6.78	1.80	7.54	1.65	7.79	1.56
	40	5.73	1.89	5.99	1.72	6.89	1.61	7.81	1.50	8.06	1.44
	35	5.84	1.76	6.09	1.55	7.00	1.40	8.08	1.36	8.32	1.32
	30	6.13	1.67	6.32	1.52	7.22	1.36	8.35	1.32	8.59	1.29
	25	6.41	1.58	6.59	1.48	7.43	1.32	8.62	1.29	8.86	1.25
	20	6.70	1.50	6.87	1.45	7.65	1.28	8.88	1.26	9.13	1.21
AHZ-080HCDS1	60	5.78	3.47	6.32	3.43	7.87	3.39	8.32	3.14	8.39	3.09
	55	6.60	3.35	7.16	3.33	9.00	3.27	9.81	2.96	9.86	2.92
	50	6.84	3.18	7.44	3.12	9.16	3.02	9.91	2.77	10.04	2.74
	45	7.25	3.00	7.71	2.90	9.31	2.80	10.01	2.57	10.22	2.55
	40	7.65	2.90	8.10	2.77	10.16	2.71	10.76	2.47	10.89	2.46
	35	8.05	2.66	8.48	2.51	11.00	2.55	11.51	2.38	11.56	2.37
	30	8.37	2.58	8.95	2.41	11.16	2.45	11.66	2.21	11.71	2.19
	25	8.70	2.50	9.41	2.31	11.31	2.34	11.81	2.05	11.86	2.01
	20	9.10	2.44	10.01	2.24	11.51	2.22	12.01	1.90	12.17	1.87

NOTE:

CAP: Capacity at compressor maximum frequency. Capacity is valid for difference between water inlet and water outlet of 3-8°C.

IPT: Total input power.

The table above shows the input power (IPT) at maximum capacity (CAP). Most of the time, the unit will run at partial load, so that the actual input power will be lower.

		Ambient temperature (°C DB)							
		20		25		30		35	
	Water outlet temp (°C)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)
AHZ-044HCDS1	60	6.39	1.63	6.68	1.41	6.73	1.40	6.74	1.36
	55	7.25	1.50	7.54	1.32	7.60	1.29	7.66	1.27
	50	7.72	1.45	8.08	1.29	8.24	1.26	8.37	1.25
	45	8.21	1.40	8.62	1.25	8.90	1.23	8.96	1.22
	40	8.48	1.33	8.88	1.23	9.05	1.21	9.17	1.20
	35	8.74	1.26	9.15	1.20	9.22	1.19	9.29	1.18
	30	9.01	1.22	9.42	1.16	9.49	1.14	9.55	1.12
	25	9.28	1.18	9.69	1.11	9.76	1.07	9.82	1.04
	20	9.55	1.14	9.96	1.07	10.18	1.04	10.22	1.01
AHZ-080HCDS1	60	8.59	3.03	8.78	3.00	8.85	2.93	8.86	2.91
	55	9.93	2.86	10.01	2.80	10.09	2.73	10.17	2.70
	50	10.25	2.69	10.46	2.65	10.67	2.60	10.89	2.55
	45	10.56	2.53	10.91	2.50	11.27	2.47	11.35	2.45
	40	11.10	2.44	11.31	2.41	11.52	2.38	11.67	2.35
	35	11.63	2.34	11.71	2.32	11.79	2.30	11.87	2.28
	30	11.78	2.15	11.86	2.11	11.94	2.07	12.02	2.04
	25	11.93	1.96	12.01	1.90	12.09	1.85	12.17	1.79
	20	12.44	1.83	12.71	1.78	12.99	1.73	13.11	1.69

NOTE:

CAP: Capacity at compressor maximum frequency. Capacity is valid for difference between water inlet and water outlet of 3-8°C.

IPT: Total input power.

The table above shows the input power (IPT) at maximum capacity (CAP). Most of the time, the unit will run at partial load, so that the actual input power will be lower.

3.2.2 Maximum cooling capacity table (kW)

		Ambient temperature (°C DB)									
		5		10		15		20		25	
	Water outlet temp (°C)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)
AHZ-044HCDS1	22										
	18					7.85	0.94	7.65	0.96	7.24	0.99
	15	7.22	0.91	7.14	0.95	7.06	0.98	6.97	1.00	6.89	1.02
	10	6.89	0.93	6.78	0.97	6.71	1.01	6.50	1.04	6.27	1.08
	7					6.22	1.03	6.12	1.07	5.92	1.12
	5					5.61	1.08	5.30	1.17	5.00	1.26
AHZ-080HCDS1	22										
	18					10.44	1.35	10.22	1.50	10.01	1.62
	15	10.08	1.19	9.94	1.31	9.79	1.44	9.50	1.57	9.36	1.68
	10	9.33	1.25	9.14	1.37	8.96	1.50	8.78	1.64	8.50	1.78
	7					8.26	1.60	8.06	1.71	7.85	1.83
	5					7.99	1.65	7.78	1.77	7.42	1.89

		Ambient temperature (°C DB)							
		30		35		40		45	
	Water outlet temp (°C)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)	CAP (kW)	IPT (kW)
AHZ-044HCDS1	22	7.09	1.02	6.58	1.10	6.12	1.18	5.61	1.26
	18	6.83	1.06	6.27	1.16	5.71	1.25	5.20	1.32
	15	6.40	1.10	5.91	1.19	5.42	1.29	4.93	1.38
	10	5.82	1.17	5.37	1.25	4.92	1.36	4.46	1.47
	7	5.51	1.23	5.10	1.33	4.64	1.43	4.18	1.52
	5	4.69	1.34	4.39	1.43	4.08	1.52	3.77	1.61
AHZ-080HCDS1	22	10.18	1.64	9.57	1.71	8.95	1.77	8.33	1.83
	18	9.77	1.71	9.07	1.79	8.23	1.85	7.56	1.93
	15	9.11	1.78	8.38	1.86	7.65	1.95	6.98	2.03
	10	8.19	1.89	7.61	1.99	7.04	2.11	6.45	2.21
	7	7.70	1.95	7.20	2.08	6.69	2.20	6.17	2.33
	5	7.23	2.00	6.77	2.12	6.33	2.27	5.76	2.39

NOTE:

CAP: Capacity at compressor maximum frequency. Capacity is valid for difference between water inlet and water outlet of 3-8°C.

IPT: Total input power.