

EMERGE X

AIR SOURCE HEAT PUMP WATER HEATER SIZING CHART

Model	Entering Air Condition	Entering Water Temp (°F)	Leaving Water Temp (°F)	Supply Heating Capacity (BTU/hr)	Heating COP	Air Cooling Capacity (BTU/hr)	Cooling COP	CFM
AHPA060	25°F 60% RH	35	50	36,030	3.96	29,952	3.29	5,087
		40	55	35,511	3.90	29,260	3.21	
		50	65	34,944	3.67	28,367	2.98	
		60	75	34,792	3.32	27,374	2.61	
		70	85	34,591	3.00	26,286	2.28	
		80	95	34,406	2.68	24,982	1.94	
		90	105	34,239	2.39	23,424	1.64	
		100	115	34,013	2.16	22,026	1.40	
		110	125	34,061	1.91	20,290	1.14	
		120	135	34,141	1.72	18,593	0.94	
		130	145	34,340	1.55	16,791	0.76	
		140	155	33,454	1.45	15,075	0.65	
	35°F 60% RH	35	50	41,965	4.78	35,703	4.07	4,253
		40	55	41,321	4.71	35,056	3.99	
		50	65	40,405	4.34	33,695	3.62	
		60	75	40,045	3.90	32,522	3.17	
		70	85	39,813	3.55	31,482	2.80	
		80	95	39,496	3.16	30,042	2.40	
		90	105	39,241	2.83	28,545	2.06	
		100	115	38,964	2.52	26,873	1.74	
		110	125	38,777	2.24	25,072	1.45	
		120	135	38,707	2.00	23,262	1.20	
		130	145	38,813	1.79	21,190	0.98	
		140	155	38,328	1.64	19,273	0.83	
	45°F 60% RH	35	50	47,773	5.57	41,478	4.83	3,784
		40	55	47,045	5.48	40,760	4.75	
		50	65	45,970	4.97	39,274	4.25	
		60	75	45,070	4.42	37,454	3.67	
		70	85	44,625	4.00	36,190	3.24	
		80	95	44,154	3.61	34,846	2.85	
		90	105	43,405	3.18	32,812	2.40	
		100	115	42,918	2.85	31,312	2.08	
		110	125	42,313	2.52	28,838	1.72	
		120	135	41,678	2.23	26,513	1.42	
		130	145	41,341	1.95	24,136	1.14	
		140	155	40,819	1.75	21,643	0.93	
	55°F 60% RH	35	50	55,489	6.61	49,329	5.87	3,399
		40	55	54,521	6.49	48,416	5.76	
		50	65	53,342	5.75	46,497	5.02	
		60	75	52,148	5.10	44,566	4.36	
		70	85	51,213	4.57	42,683	3.81	
		80	95	50,066	4.09	40,722	3.32	
		90	105	49,584	3.70	39,140	2.92	
		100	115	48,826	3.23	36,750	2.43	
		110	125	48,405	2.90	34,948	2.09	
		120	135	47,924	2.59	32,886	1.78	
		130	145	47,303	2.28	30,292	1.46	
		140	155	46,742	2.01	27,430	1.18	



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HEAT PUMP WATER HEATERS

Model	Entering Air Condition	Entering Water Temp (°F)	Leaving Water Temp (°F)	Supply Heating Capacity (BTU/hr)	Heating COP	Air Cooling Capacity (BTU/hr)	Cooling COP	CFM
AHPA060	65°F 60% RH	35	50	63,780	7.77	57,821	7.04	2,989
		40	55	62,834	7.50	56,635	6.76	
		50	65	61,358	6.59	54,549	5.86	
		60	75	60,023	5.82	52,018	5.05	
		70	85	58,679	5.19	48,564	4.30	
		80	95	57,334	4.64	47,609	3.85	
		90	105	56,053	4.14	45,151	3.34	
		100	115	54,769	3.60	42,524	2.79	
		110	125	53,957	3.22	40,395	2.41	
		120	135	53,427	2.90	38,458	2.08	
		130	145	52,939	2.60	36,196	1.78	
		140	155	52,508	2.32	33,682	1.49	
	75°F 60% RH	35	50	70,412	8.77	65,092	8.10	2,553
		40	55	70,483	8.37	64,938	7.71	
		50	65	68,930	7.37	62,560	6.69	
		60	75	67,186	6.48	59,955	5.78	
		70	85	65,663	5.76	57,529	5.04	
		80	95	64,123	5.13	55,109	4.41	
		90	105	62,585	4.56	52,450	3.83	
		100	115	60,864	3.96	49,196	3.20	
		110	125	59,311	3.52	46,217	2.74	
		120	135	58,149	3.14	43,600	2.36	
		130	145	57,443	2.82	41,147	2.02	
		140	155	56,911	2.54	38,889	1.73	
	85°F 60% RH	35	50	75,214	9.55	71,432	9.07	2,071
		40	55	76,581	9.16	71,097	8.50	
		50	65	76,124	8.12	69,880	7.46	
		60	75	74,376	7.15	67,213	6.46	
		70	85	72,418	6.29	64,371	5.60	
		80	95	70,807	5.60	61,718	4.88	
		90	105	69,251	5.00	58,976	4.26	
		100	115	67,526	4.36	55,817	3.61	
		110	125	65,396	3.85	52,305	3.08	
		120	135	64,072	3.43	49,551	2.66	
		130	145	62,262	3.05	45,962	2.25	
		140	155	61,408	2.74	43,424	1.93	
	95°F 60% RH	35	50	73,864	9.46	68,984	8.83	1,544
		40	55	79,897	9.61	74,505	8.96	
		50	65	79,394	8.49	73,323	7.84	
		60	75	77,752	7.50	70,507	6.80	
		70	85	75,974	6.61	67,746	5.90	
		80	95	74,203	5.85	65,003	5.12	
		90	105	72,803	5.23	62,759	4.51	
		100	115	71,209	4.59	59,585	3.84	
		110	125	69,477	4.08	56,251	3.30	
		120	135	67,888	3.63	53,224	2.85	
		130	145	66,329	3.23	50,039	2.44	
		140	155	64,577	2.88	46,568	2.08	



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HEAT PUMP WATER HEATERS

Model	Entering Air Condition	Entering Water Temp (°F)	Leaving Water Temp (°F)	Supply Heating Capacity (BTU/hr)	Heating COP	Air Cooling Capacity (BTU/hr)	Cooling COP	CFM
AHPA140	25°F 60% RH	35	50	71,768	4.1	58,090	3.3	8,047
		40	55	70,724	4.1	57,147	3.3	
		50	65	69,510	3.8	55,313	3.0	
		60	75	69,317	3.5	53,274	2.7	
		70	85	69,113	3.1	51,249	2.3	
		80	95	69,295	2.8	48,981	2.0	
		90	105	69,544	2.5	46,220	1.6	
		100	115	70,229	2.2	43,186	1.3	
		110	125	71,676	1.9	39,671	1.1	
		120	135	72,977	1.7	36,557	0.9	
		130	145	75,637	1.5	32,593	0.7	
		140	155	75,994	1.4	29,457	0.6	
	35°F 60% RH	35	50	82,141	4.7	68,289	3.9	7,275
		40	55	80,828	4.6	67,232	3.8	
		50	65	79,414	4.3	64,724	3.5	
		60	75	78,887	3.9	62,451	3.1	
		70	85	78,546	3.5	60,402	2.7	
		80	95	78,461	3.1	57,992	2.3	
		90	105	78,437	2.8	55,268	2.0	
		100	115	78,895	2.5	52,311	1.7	
		110	125	79,709	2.2	48,754	1.3	
		120	135	80,918	1.9	45,231	1.1	
		130	145	82,810	1.7	40,991	0.9	
		140	155	84,198	1.6	37,308	0.7	
	45°F 60% RH	35	50	94,838	5.3	80,746	4.5	6,720
		40	55	93,230	5.2	79,060	4.4	
		50	65	91,329	4.8	76,489	4.0	
		60	75	89,582	4.3	73,052	3.5	
		70	85	88,896	3.9	70,324	3.1	
		80	95	88,306	3.5	67,492	2.7	
		90	105	88,220	3.1	64,984	2.3	
		100	115	88,155	2.8	61,792	2.0	
		110	125	88,835	2.5	58,877	1.7	
		120	135	89,483	2.2	55,385	1.4	
		130	145	90,785	2.0	50,621	1.1	
		140	155	91,614	1.7	45,556	0.9	
	55°F 60% RH	35	50	111,697	6.1	97,214	5.3	6,196
		40	55	110,047	5.9	95,728	5.2	
		50	65	107,445	5.4	91,612	4.6	
		60	75	104,973	4.8	87,524	4.0	
		70	85	102,717	4.3	83,831	3.5	
		80	95	101,256	3.9	80,123	3.1	
		90	105	100,586	3.5	76,697	2.7	
		100	115	99,966	3.1	73,270	2.3	
		110	125	99,726	2.8	69,555	2.0	
		120	135	100,112	2.5	65,810	1.7	
		130	145	100,582	2.2	61,920	1.4	
		140	155	101,590	2.0	56,864	1.1	



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Model	Entering Air Condition	Entering Water Temp (°F)	Leaving Water Temp (°F)	Supply Heating Capacity (BTU/hr)	Heating COP	Air Cooling Capacity (BTU/hr)	Cooling COP	CFM
AHPA140	65°F 60% RH	35	50	129,533	6.8	114,819	6.0	5,701
		40	55	127,979	6.5	112,575	5.8	
		50	65	124,500	6.0	108,288	5.2	
		60	75	121,582	5.4	103,536	4.6	
		70	85	118,716	4.8	99,107	4.0	
		80	95	116,118	4.3	94,463	3.5	
		90	105	113,227	3.9	89,253	3.0	
		100	115	112,219	3.5	84,859	2.6	
		110	125	111,392	3.1	80,918	2.2	
		120	135	110,762	2.8	76,758	1.9	
		130	145	110,800	2.5	72,466	1.6	
		140	155	111,042	2.2	67,645	1.4	
	75°F 60% RH	35	50	148,644	7.4	133,973	6.7	5,278
		40	55	147,262	7.1	131,595	6.4	
		50	65	143,230	6.5	126,761	5.8	
		60	75	139,497	5.9	121,754	5.2	
		70	85	136,050	5.3	116,474	4.6	
		80	95	132,242	4.8	110,737	4.0	
		90	105	129,119	4.3	105,061	3.5	
		100	115	125,848	3.8	99,128	3.0	
		110	125	123,456	3.4	93,741	2.6	
		120	135	122,026	3.0	88,548	2.2	
		130	145	121,095	2.7	83,461	1.9	
		140	155	120,554	2.4	78,593	1.6	
	85°F 60% RH	35	50	163,362	7.8	147,987	7.1	4,791
		40	55	167,725	7.7	151,650	7.0	
		50	65	164,640	7.1	146,883	6.4	
		60	75	160,419	6.5	141,526	5.7	
		70	85	155,303	5.9	135,092	5.1	
		80	95	151,422	5.3	129,197	4.5	
		90	105	147,151	4.7	121,973	3.9	
		100	115	143,125	4.2	115,979	3.4	
		110	125	139,798	3.7	108,884	2.9	
		120	135	136,106	3.3	101,851	2.5	
		130	145	132,426	2.9	94,799	2.1	
		140	155	129,106	2.6	87,359	1.8	
	95°F 60% RH	35	50	172,426	8.1	156,507	7.4	4,170
		40	55	182,773	8.1	165,617	7.4	
		50	65	186,522	7.7	167,965	7.0	
		60	75	181,048	7.1	161,519	6.3	
		70	85	176,004	6.4	154,828	5.6	
		80	95	170,820	5.8	147,755	5.0	
		90	105	166,008	5.2	140,525	4.4	
		100	115	162,077	4.6	134,426	3.8	
		110	125	157,205	4.1	126,225	3.3	
		120	135	152,512	3.7	118,303	2.8	
		130	145	147,767	3.2	110,281	2.4	
		140	155	143,044	2.9	101,491	2.0	



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Model	Entering Air Condition	Entering Water Temp (°F)	Leaving Water Temp (°F)	Supply Heating Capacity (BTU/hr)	Heating COP	Air Cooling Capacity (BTU/hr)	Cooling COP	CFM
AHPA200	25°F 60% RH	35	50	107,798	4.0	88,042	3.3	13,133
		40	55	106,235	4.0	86,407	3.2	
		50	65	106,712	3.7	86,457	3.0	
		60	75	105,516	3.4	84,521	2.6	
		70	85	106,359	3.1	84,376	2.3	
		80	95	105,130	2.7	82,129	2.0	
		90	105	106,007	2.4	81,514	1.6	
		100	115	104,737	2.2	79,173	1.4	
		110	125	105,829	1.9	78,380	1.1	
		120	135	104,865	1.7	75,740	0.9	
		130	145	106,108	1.5	74,881	0.7	
		140	155	104,178	1.4	72,222	0.6	
	35°F 60% RH	35	50	113,733	4.7	93,793	4.0	11,528
		40	55	112,045	4.7	92,203	3.9	
		50	65	112,173	4.3	91,785	3.6	
		60	75	110,769	3.9	89,669	3.1	
		70	85	111,581	3.5	89,572	2.7	
		80	95	110,220	3.2	87,189	2.4	
		90	105	111,009	2.8	86,635	2.0	
		100	115	109,688	2.5	84,020	1.7	
		110	125	110,545	2.2	83,162	1.4	
		120	135	109,431	2.0	80,409	1.1	
		130	145	110,581	1.8	79,280	0.9	
		140	155	109,052	1.6	76,420	0.8	
	45°F 60% RH	35	50	119,541	5.4	99,568	4.7	10,504
		40	55	117,769	5.3	97,907	4.6	
		50	65	117,738	4.9	97,364	4.1	
		60	75	115,794	4.4	94,601	3.6	
		70	85	116,393	3.9	94,280	3.2	
		80	95	114,878	3.6	91,993	2.8	
		90	105	115,173	3.2	90,902	2.4	
		100	115	113,642	2.8	88,459	2.0	
		110	125	114,081	2.5	86,928	1.7	
		120	135	112,402	2.2	83,660	1.4	
		130	145	113,109	2.0	82,226	1.1	
		140	155	111,543	1.7	78,790	0.9	
	55°F 60% RH	35	50	127,257	6.3	107,419	5.6	9,595
		40	55	125,245	6.2	105,563	5.5	
		50	65	125,110	5.6	104,587	4.8	
		60	75	122,872	5.0	101,713	4.2	
		70	85	122,981	4.5	100,773	3.7	
		80	95	120,790	4.0	97,869	3.2	
		90	105	121,352	3.6	97,230	2.8	
		100	115	119,550	3.2	93,897	2.4	
		110	125	120,173	2.9	93,038	2.0	
		120	135	118,648	2.6	90,033	1.7	
		130	145	119,071	2.3	88,382	1.4	
		140	155	117,466	2.0	84,577	1.1	



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HEAT PUMP WATER HEATERS

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AHPA200	65°F 60% RH	35	50	135,548	7.3	115,911	6.5	8,690
		40	55	133,558	7.0	113,782	6.3	
		50	65	133,126	6.3	112,639	5.5	
		60	75	130,747	5.6	109,165	4.8	
		70	85	130,447	5.0	106,654	4.2	
		80	95	128,058	4.5	104,756	3.7	
		90	105	127,821	4.0	103,241	3.2	
		100	115	125,493	3.5	99,671	2.7	
		110	125	125,725	3.2	98,485	2.3	
		120	135	124,151	2.8	95,605	2.0	
		130	145	124,707	2.5	94,286	1.7	
		140	155	123,232	2.3	90,829	1.4	
	75°F 60% RH	35	50	142,180	8.1	123,182	7.4	7,831
		40	55	141,207	7.8	122,085	7.0	
		50	65	140,698	6.9	120,650	6.2	
		60	75	137,910	6.2	117,102	5.5	
		70	85	137,431	5.5	115,619	4.8	
		80	95	134,847	5.0	112,256	4.2	
		90	105	134,353	4.4	110,540	3.6	
		100	115	131,588	3.9	106,343	3.1	
		110	125	131,079	3.4	104,307	2.7	
		120	135	128,873	3.1	100,747	2.3	
		130	145	129,211	2.8	99,237	1.9	
		140	155	127,635	2.5	96,036	1.7	
	85°F 60% RH	35	50	146,982	8.7	129,522	8.1	6,863
		40	55	147,305	8.4	128,244	7.7	
		50	65	147,892	7.6	127,970	6.9	
		60	75	145,100	6.8	124,360	6.1	
		70	85	144,186	6.1	122,461	5.3	
		80	95	141,531	5.4	118,865	4.7	
		90	105	141,019	4.9	117,066	4.1	
		100	115	138,250	4.3	112,964	3.5	
		110	125	137,164	3.8	110,395	3.0	
		120	135	134,796	3.4	106,698	2.6	
		130	145	134,030	3.0	104,052	2.2	
		140	155	132,132	2.7	100,571	1.9	
	95°F 60% RH	35	50	145,632	8.8	127,074	8.1	5,714
		40	55	150,621	8.9	131,652	8.2	
		50	65	151,162	8.1	131,413	7.4	
		60	75	148,476	7.3	127,654	6.5	
		70	85	147,742	6.5	125,836	5.8	
		80	95	144,927	5.8	122,150	5.1	
		90	105	144,571	5.2	120,849	4.4	
		100	115	141,933	4.6	116,732	3.8	
		110	125	141,245	4.1	114,341	3.3	
		120	135	138,612	3.6	110,371	2.8	
		130	145	138,097	3.2	108,129	2.4	
		140	155	135,301	2.9	103,715	2.1	



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AHPA280	25°F 60% RH	35	50	143,536	4.1	116,180	3.3	16,093
		40	55	141,448	4.1	114,294	3.3	
		50	65	139,020	3.8	110,626	3.0	
		60	75	138,634	3.5	106,548	2.7	
		70	85	138,226	3.1	102,498	2.3	
		80	95	138,590	2.8	97,962	2.0	
		90	105	139,088	2.5	92,440	1.6	
		100	115	140,458	2.2	86,372	1.3	
		110	125	143,352	1.9	79,342	1.1	
		120	135	145,954	1.7	73,114	0.9	
		130	145	151,274	1.5	65,186	0.7	
		140	155	151,988	1.4	58,914	0.6	
	35°F 60% RH	35	50	164,282	4.7	136,578	3.9	14,550
		40	55	161,656	4.6	134,464	3.8	
		50	65	158,828	4.3	129,448	3.5	
		60	75	157,774	3.9	124,902	3.1	
		70	85	157,092	3.5	120,804	2.7	
		80	95	156,922	3.1	115,984	2.3	
		90	105	156,874	2.8	110,536	2.0	
		100	115	157,790	2.5	104,622	1.7	
		110	125	159,418	2.2	97,508	1.3	
		120	135	161,836	1.9	90,462	1.1	
		130	145	165,620	1.7	81,982	0.9	
		140	155	168,396	1.6	74,616	0.7	
	45°F 60% RH	35	50	189,676	5.3	161,492	4.5	13,440
		40	55	186,460	5.2	158,120	4.4	
		50	65	182,658	4.8	152,978	4.0	
		60	75	179,164	4.3	146,104	3.5	
		70	85	177,792	3.9	140,648	3.1	
		80	95	176,612	3.5	134,984	2.7	
		90	105	176,440	3.1	129,968	2.3	
		100	115	176,310	2.8	123,584	2.0	
		110	125	177,670	2.5	117,754	1.7	
		120	135	178,966	2.2	110,770	1.4	
		130	145	181,570	2.0	101,242	1.1	
		140	155	183,228	1.7	91,112	0.9	
	55°F 60% RH	35	50	223,394	6.1	194,428	5.3	12,391
		40	55	220,094	5.9	191,456	5.2	
		50	65	214,890	5.4	183,224	4.6	
		60	75	209,946	4.8	175,048	4.0	
		70	85	205,434	4.3	167,662	3.5	
		80	95	202,512	3.9	160,246	3.1	
		90	105	201,172	3.5	153,394	2.7	
		100	115	199,932	3.1	146,540	2.3	
		110	125	199,452	2.8	139,110	2.0	
		120	135	200,224	2.5	131,620	1.7	
		130	145	201,164	2.2	123,840	1.4	
		140	155	203,180	2.0	113,728	1.1	



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HEAT PUMP WATER HEATERS

Model	Entering Air Condition	Entering Water Temp (°F)	Leaving Water Temp (°F)	Supply Heating Capacity (BTU/hr)	Heating COP	Air Cooling Capacity (BTU/hr)	Cooling COP	CFM
AHPA280	65°F 60% RH	35	50	259,066	6.8	229,638	6.0	11,402
		40	55	255,958	6.5	225,150	5.8	
		50	65	249,000	6.0	216,576	5.2	
		60	75	243,164	5.4	207,072	4.6	
		70	85	237,432	4.8	198,214	4.0	
		80	95	232,236	4.3	188,926	3.5	
		90	105	226,454	3.9	178,506	3.0	
		100	115	224,438	3.5	169,718	2.6	
		110	125	222,784	3.1	161,836	2.2	
		120	135	221,524	2.8	153,516	1.9	
		130	145	221,600	2.5	144,932	1.6	
		140	155	222,084	2.2	135,290	1.4	
	75°F 60% RH	35	50	297,288	7.4	267,946	6.7	10,556
		40	55	294,524	7.1	263,190	6.4	
		50	65	286,460	6.5	253,522	5.8	
		60	75	278,994	5.9	243,508	5.2	
		70	85	272,100	5.3	232,948	4.6	
		80	95	264,484	4.8	221,474	4.0	
		90	105	258,238	4.3	210,122	3.5	
		100	115	251,696	3.8	198,256	3.0	
		110	125	246,912	3.4	187,482	2.6	
		120	135	244,052	3.0	177,096	2.2	
		130	145	242,190	2.7	166,922	1.9	
		140	155	241,108	2.4	157,186	1.6	
	85°F 60% RH	35	50	326,724	7.8	295,974	7.1	9,583
		40	55	335,450	7.7	303,300	7.0	
		50	65	329,280	7.1	293,766	6.4	
		60	75	320,838	6.5	283,052	5.7	
		70	85	310,606	5.9	270,184	5.1	
		80	95	302,844	5.3	258,394	4.5	
		90	105	294,302	4.7	243,946	3.9	
		100	115	286,250	4.2	231,958	3.4	
		110	125	279,596	3.7	217,768	2.9	
		120	135	272,212	3.3	203,702	2.5	
		130	145	264,852	2.9	189,598	2.1	
		140	155	258,212	2.6	174,718	1.8	
	95°F 60% RH	35	50	344,852	8.1	313,014	7.4	8,339
		40	55	365,546	8.1	331,234	7.4	
		50	65	373,044	7.7	335,930	7.0	
		60	75	362,096	7.1	323,038	6.3	
		70	85	352,008	6.4	309,656	5.6	
		80	95	341,640	5.8	295,510	5.0	
		90	105	332,016	5.2	281,050	4.4	
		100	115	324,154	4.6	268,852	3.8	
		110	125	314,410	4.1	252,450	3.3	
		120	135	305,024	3.7	236,606	2.8	
		130	145	295,534	3.2	220,562	2.4	
		140	155	286,088	2.9	202,982	2.0	



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HEAT PUMP WATER HEATERS

Model	Entering Air Condition	Entering Water Temp (°F)	Leaving Water Temp (°F)	Supply Heating Capacity (BTU/hr)	Heating COP	Air Cooling Capacity (BTU/hr)	Cooling COP	CFM
AHPA350	25°F 60% RH	35	50	179,566	4.1	146,132	3.3	21,180
		40	55	176,959	4.0	143,554	3.3	
		50	65	173,964	3.8	138,993	3.0	
		60	75	173,426	3.4	133,922	2.6	
		70	85	172,817	3.1	128,784	2.3	
		80	95	172,996	2.8	122,944	2.0	
		90	105	173,327	2.4	115,864	1.6	
		100	115	174,471	2.2	108,398	1.4	
		110	125	177,413	1.9	99,632	1.1	
		120	135	180,095	1.7	91,707	0.9	
		130	145	185,614	1.5	81,977	0.7	
		140	155	185,442	1.4	73,989	0.6	
	35°F 60% RH	35	50	206,247	4.7	172,281	3.9	18,803
		40	55	202,977	4.6	169,520	3.9	
		50	65	199,233	4.3	163,143	3.5	
		60	75	197,819	3.9	157,424	3.1	
		70	85	196,905	3.5	152,286	2.7	
		80	95	196,418	3.1	146,026	2.3	
		90	105	196,115	2.8	139,081	2.0	
		100	115	196,754	2.5	131,495	1.7	
		110	125	198,195	2.2	122,580	1.4	
		120	135	200,543	2.0	113,724	1.1	
		130	145	204,433	1.7	103,172	0.9	
		140	155	206,724	1.6	93,889	0.7	
	45°F 60% RH	35	50	237,449	5.4	202,970	4.6	17,224
		40	55	233,505	5.3	198,880	4.5	
		50	65	228,628	4.8	192,252	4.1	
		60	75	224,234	4.3	183,558	3.6	
		70	85	222,417	3.9	176,838	3.1	
		80	95	220,766	3.5	169,830	2.7	
		90	105	219,845	3.2	162,780	2.3	
		100	115	219,228	2.8	154,896	2.0	
		110	125	219,983	2.5	146,592	1.7	
		120	135	220,644	2.2	137,283	1.4	
		130	145	222,911	2.0	125,378	1.1	
		140	155	224,047	1.7	112,755	0.9	
	55°F 60% RH	35	50	278,883	6.2	243,757	5.5	15,791
		40	55	274,615	6.1	239,872	5.4	
		50	65	268,232	5.5	229,721	4.7	
		60	75	262,094	4.9	219,614	4.1	
		70	85	256,647	4.4	210,345	3.6	
		80	95	252,578	4.0	200,968	3.2	
		90	105	250,756	3.6	192,534	2.8	
		100	115	248,758	3.2	183,290	2.3	
		110	125	247,857	2.8	174,058	2.0	
		120	135	248,148	2.5	164,506	1.7	
		130	145	248,467	2.3	154,132	1.4	
		140	155	249,922	2.0	141,158	1.1	



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HEAT PUMP WATER HEATERS

Model	Entering Air Condition	Entering Water Temp (°F)	Leaving Water Temp (°F)	Supply Heating Capacity (BTU/hr)	Heating COP	Air Cooling Capacity (BTU/hr)	Cooling COP	CFM
AHPA350	65°F 60% RH	35	50	322,846	7.1	287,459	6.4	14,391
		40	55	318,792	6.9	281,785	6.1	
		50	65	310,358	6.2	271,125	5.4	
		60	75	303,187	5.5	259,090	4.7	
		70	85	296,111	5.0	246,778	4.1	
		80	95	289,570	4.4	236,535	3.6	
		90	105	282,507	4.0	223,657	3.1	
		100	115	279,207	3.5	212,242	2.7	
		110	125	276,741	3.1	202,231	2.3	
		120	135	274,951	2.8	191,974	2.0	
		130	145	274,539	2.5	181,128	1.7	
		140	155	274,592	2.3	168,972	1.4	
	75°F 60% RH	35	50	367,700	7.9	333,038	7.2	13,109
		40	55	365,007	7.5	328,128	6.8	
		50	65	355,390	6.8	316,082	6.1	
		60	75	346,180	6.1	303,463	5.4	
		70	85	337,763	5.5	290,477	4.7	
		80	95	328,607	4.9	276,583	4.1	
		90	105	320,823	4.4	262,572	3.6	
		100	115	312,560	3.8	247,452	3.1	
		110	125	306,223	3.4	233,699	2.6	
		120	135	302,201	3.1	220,696	2.2	
		130	145	299,633	2.7	208,069	1.9	
		140	155	298,019	2.5	196,075	1.6	
	85°F 60% RH	35	50	401,938	8.4	367,406	7.8	11,654
		40	55	412,031	8.2	374,397	7.5	
		50	65	405,404	7.5	363,646	6.7	
		60	75	395,214	6.7	350,265	6.0	
		70	85	383,024	6.0	334,555	5.3	
		80	95	373,651	5.4	320,112	4.6	
		90	105	363,553	4.8	302,922	4.0	
		100	115	353,776	4.2	287,775	3.5	
		110	125	344,992	3.8	270,073	3.0	
		120	135	336,284	3.4	253,253	2.5	
		130	145	327,114	3.0	235,560	2.2	
		140	155	319,620	2.7	218,142	1.8	
	95°F 60% RH	35	50	418,716	8.6	381,998	7.9	9,883
		40	55	445,443	8.6	405,739	7.9	
		50	65	452,438	8.0	409,253	7.2	
		60	75	439,848	7.2	393,545	6.5	
		70	85	427,982	6.5	377,402	5.7	
		80	95	415,843	5.8	360,513	5.0	
		90	105	404,819	5.2	343,809	4.4	
		100	115	395,363	4.6	328,437	3.8	
		110	125	383,887	4.1	308,701	3.3	
		120	135	372,912	3.6	289,830	2.8	
		130	145	361,863	3.2	270,601	2.4	
		140	155	350,665	2.9	249,550	2.0	