

**SpaceKeeper Vertical Heat Pumps Performance Data**

**(SKV070 - 320)**

Cooling Entering Air Temp.

Heating Entering Air Temp

Fluid Flow

Fluid

Water

Belt Driven Fan

Unit Model	SKV070	SKV080	SKV100	SKV120	SKV150	SKV180	SKV240	SKV280	SKV320
Air Flow (CFM)	2,400	2,800	3,400	4,000	5,000	6,000	8,000	9,000	10,000
Fluid Flow (gpm)	12	14	16	20	25	30	40	48	56
MCA/MOP @ 208-230/3	29.7/40.0	33.7/40.0	42.2/50.0	51.4/70.0	59.3/80.0	85.5/100.0	91.8/100.0	112.1/125.0	124.3/150.0
MCA/MOP @ 460/3	13.5/20.0	15.3/20.0	19.1/25.0	23.3/30.0	26.8/40.0	38.7/40.0	41.5/50.0	50.7/60.0	56.2/60.0
MCA/MOP @ 575/3	10.8/20.0	12.2/20.0	15.3/20.0	18.6/25.0	21.4/30.0	30.9/40.0	33.2/40.0	40.6/50.0	45.0/50.0

80°F EWT	COOLING	Total Capacity (BTU/h)	75,989	86,947	103,782	64,974	76,646	213,071	244,784	285,844	330,090
		Sensible (BTU/h)	59,277	67,497	81,613	64,974	76,646	155,516	192,145	222,460	249,598
Total Power (W)	4,573	5,546	7,242	4,793	6,295	13,474	15,756	17,159	20,005		
LAT (DB/WB) (° F)	57.2/56.5	57.8/57.1	57.9/57.2	65.0/61.6	65.9/62.2	56.1/55.4	57.9/57.2	57.2/56.5	57.0/56.3		
Operating EER	15.9	14.9	13.5	12.2	10.6	15.2	14.7	15.9	15.7		
HEATING	Total Capacity (BTU/h)	17,902	20,076	22,924	29,318	34,441	46,412	57,469	64,172	70,284	
	Total Power (W)	978	1,269	1,821	1,939	2,895	2,408	3,968	4,008	4,754	
	Leaving Air Temp. (° F)	76.9	76.6	76.2	76.8	76.3	77.1	76.6	76.6	76.5	
	Leaving Water Temp. (° F)	77.0	77.1	77.1	77.1	77.2	76.9	77.1	77.3	77.5	

85°F EWT	COOLING	Total Capacity (BTU/h)	70,567	80,232	94,918	56,677	64,752	199,415	224,247	264,719	306,415
		Sensible (BTU/h)	54,408	62,716	74,903	56,677	64,752	143,422	177,289	203,111	231,979
Total Power (W)	4,814	5,798	7,531	4,989	6,527	14,054	16,389	17,890	20,794		
LAT (DB/WB) (° F)	57.8/57.1	57.9/57.2	58.0/57.3	65.4/62.1	66.2/62.2	56.7/56.0	58.0/57.3	57.8/57.1	57.1/56.4		
Operating EER	14.7	13.8	12.6	11.4	9.9	14.2	13.7	14.8	14.7		
HEATING	Total Capacity (BTU/h)	26,853	30,113	34,386	43,977	51,661	69,618	86,204	96,258	105,427	
	Total Power (W)	978	1,269	1,821	1,939	2,895	2,408	3,968	4,008	4,754	
	Leaving Air Temp. (° F)	80.3	79.9	79.3	80.1	79.5	80.7	79.9	79.9	79.7	
	Leaving Water Temp. (° F)	80.5	80.7	80.7	80.6	80.9	80.4	80.7	81.0	81.2	

90°F EWT	COOLING	Total Capacity (BTU/h)	68,441	77,798	92,155	54,945	62,670	193,763	217,256	257,123	298,234
		Sensible (BTU/h)	53,995	62,244	74,367	54,945	62,670	142,327	175,934	201,638	225,650
Total Power (W)	5,069	6,065	7,839	5,196	6,772	14,675	17,058	18,669	21,673		
LAT (DB/WB) (° F)	58.0/57.3	58.1/57.4	58.2/57.5	65.8/62.1	66.6/62.3	56.9/56.2	58.2/57.5	58.0/57.3	57.7/57.0		
Operating EER	13.5	12.8	11.8	10.6	9.3	13.2	12.7	13.8	13.8		
HEATING	Total Capacity (BTU/h)	35,804	40,151	45,849	58,636	68,881	92,824	114,939	128,345	140,569	
	Total Power (W)	978	1,269	1,821	1,939	2,895	2,408	3,968	4,008	4,754	
	Leaving Air Temp. (° F)	83.7	83.2	82.4	83.5	82.7	84.3	83.2	83.1	83.0	
	Leaving Water Temp. (° F)	84.0	84.3	84.3	84.1	84.5	83.8	84.3	84.7	85.0	

100°F EWT	COOLING	Total Capacity (BTU/h)	64,069	72,792	86,370	51,380	58,379	181,934	203,296	241,506	280,029
		Sensible (BTU/h)	52,009	59,946	71,633	51,380	58,379	140,034	169,432	194,342	222,121
Total Power (W)	5,624	6,646	8,524	5,653	7,314	16,055	18,525	20,392	23,699		
LAT (DB/WB) (° F)	58.8/58.0	58.8/58.1	58.9/58.2	66.6/62.3	67.4/62.5	57.2/56.5	58.9/58.2	58.7/58.0	58.0/57.3		
Operating EER	11.4	11.0	10.1	9.1	8.0	11.3	11.0	11.8	11.8		
HEATING	Total Capacity (BTU/h)	53,706	60,227	68,773	87,953	103,322	139,237	172,408	192,517	210,853	
	Total Power (W)	978	1,269	1,821	1,939	2,895	2,408	3,968	4,008	4,754	
	Leaving Air Temp. (° F)	90.6	89.8	88.6	90.3	89.0	91.4	89.9	89.7	89.4	
	Leaving Water Temp. (° F)	91.0	91.4	91.4	91.2	91.7	90.7	91.4	92.0	92.5	

180618

**SpaceKeeper Vertical Heat Pumps Performance Data**

**(SKV070 - 320)**

Cooling Entering Air Temp.

Heating Entering Air Temp

Fluid Flow

Fluid

Water

Belt Driven Fan

Unit Model	SKV070	SKV080	SKV100	SKV120	SKV150	SKV180	SKV240	SKV280	SKV320
Air Flow (CFM)	2,400	2,800	3,400	4,000	5,000	6,000	8,000	9,000	10,000
Fluid Flow (gpm)	12	14	16	20	25	30	40	48	56
MCA/MOP @ 208-230/3	29.7/40.0	33.7/40.0	42.2/50.0	51.4/70.0	59.3/80.0	85.5/100.0	91.8/100.0	112.1/125.0	124.3/150.0
MCA/MOP @ 460/3	13.5/20.0	15.3/20.0	19.1/25.0	23.3/30.0	26.8/40.0	38.7/40.0	41.5/50.0	50.7/60.0	56.2/60.0
MCA/MOP @ 575/3	10.8/20.0	12.2/20.0	15.3/20.0	18.6/25.0	21.4/30.0	30.9/40.0	33.2/40.0	40.6/50.0	45.0/50.0

105°F EWT	COOLING	Total Capacity (BTU/h)	61,807	70,200	83,356	49,536	56,160	175,771	196,253	233,418	270,082
		Sensible (BTU/h)	51,571	59,443	71,049	49,536	56,160	135,993	168,067	192,774	192,774
Total Power (W)	5,927	6,964	8,906	5,907	7,616	16,824	19,334	21,350	21,350	24,846	
LAT (DB/WB) (° F)	58.9/58.2	59.0/58.3	59.1/58.4	67.1/62.4	67.8/62.5	57.9/57.2	59.1/58.4	58.9/58.2	58.9/58.2	58.2/57.5	
Operating EER	10.4	10.1	9.4	8.4	7.4	10.4	10.2	10.9	10.9	10.9	
HEATING	Total Capacity (BTU/h)	62,657	70,265	80,235	102,612	120,542	162,443	201,143	224,603	245,996	
	Total Power (W)	978	1,269	1,821	1,939	2,895	2,408	3,968	4,008	4,754	
	Leaving Air Temp. (° F)	94.1	93.1	91.7	93.6	92.2	95.0	93.2	93.0	92.7	
	Leaving Water Temp. (° F)	94.6	95.0	95.0	94.7	95.4	94.2	94.9	95.6	96.2	

110°F EWT	COOLING	Total Capacity (BTU/h)	59,485	67,539	80,265	47,645	53,882	169,452	189,119	225,100	259,622
		Sensible (BTU/h)	51,121	58,927	68,540	47,645	53,882	134,768	162,191	191,161	191,161
Total Power (W)	6,249	7,301	9,316	6,182	7,942	17,652	20,200	22,381	22,381	26,085	
LAT (DB/WB) (° F)	59.1/58.4	59.2/58.5	59.7/59.0	67.5/62.5	68.3/63.1	58.0/57.3	59.8/59.1	59.0/58.3	59.0/58.3	58.8/58.1	
Operating EER	9.5	9.3	8.6	7.7	6.8	9.6	9.4	10.1	10.1	10.0	
HEATING	Total Capacity (BTU/h)	71,608	80,302	91,697	117,271	137,762	185,649	229,878	256,689	281,138	
	Total Power (W)	978	1,269	1,821	1,939	2,895	2,408	3,968	4,008	4,754	
	Leaving Air Temp. (° F)	97.5	96.4	94.9	97.0	95.4	98.5	96.5	96.3	95.9	
	Leaving Water Temp. (° F)	98.1	98.5	98.5	98.3	99.0	97.6	98.5	99.3	100.0	

120°F EWT	COOLING	Total Capacity (BTU/h)	54,626	61,967	73,867	43,698	49,126	156,367	174,425	207,641	237,306
		Sensible (BTU/h)	48,831	56,275	67,300	43,698	49,126	129,385	159,343	182,723	182,723
Total Power (W)	6,952	8,037	10,236	6,803	8,678	19,504	22,124	24,684	22,124	28,837	
LAT (DB/WB) (° F)	60.0/59.3	60.1/59.4	60.1/59.4	68.4/63.1	69.1/63.2	58.9/58.2	60.1/59.4	59.9/59.2	60.1/59.4	59.8/59.1	
Operating EER	7.9	7.7	7.2	6.4	5.7	8.0	7.9	8.4	8.4	8.2	
HEATING	Total Capacity (BTU/h)	89,510	100,378	114,621	146,589	172,203	232,061	287,347	320,862	351,422	
	Total Power (W)	978	1,269	1,821	1,939	2,895	2,408	3,968	4,008	4,754	
	Leaving Air Temp. (° F)	104.4	103.0	101.1	103.8	101.7	105.6	103.1	102.9	102.4	
	Leaving Water Temp. (° F)	105.1	105.7	105.7	105.3	106.2	104.5	105.6	106.6	107.4	

\*Net Capacities - Not adjusted for ISO corrections