

NAPPS Scroll Water Cooled Chiller Units

Table 1. SWC Dimensions and Specifications

SWC Model	Dimensions			Operating Weight	* Connection Sizes			Capacity Steps (%)	MCA @ 60 Hz, 3φ	
	L	W	H		Evap.	Cond.	# Circuits		208/230 Volt	460 Volt
20	57"	30 ¼"	51 ¼"	1477 lb.	3" MPT	3" FPT	1	100/50	77	32
25	88"	30 ¼"	51 ¼"	1832 lb.	3" MPT	3" FPT	1	100/60	99	43
30	88"	30 ¼"	51 ¼"	2135 lb.	3" MPT	4" FPT	1	100/50	117	52
40	80"	35 ½"	63 ¼"	2560 lb.	4" Flg	3" FPT	2	100/75/50/25	146	60
50	95"	35 ½"	63 ¼"	2951 lb.	4" Flg	3" FPT	2	100/80/60/30	186	80
60	95"	35 ½"	63 ¼"	3729 lb.	5" Flg	4" FPT	2	100/75/50/25	222	98

* All connections are as noted (FLG = flange fitting)

Table -2. SWC Performance Data - 60 Hz

Evaporator Leaving Water Temperature = 44°(F)

SWC Model	Entering Condenser Water Temperature (F)																								
	75					80					85					90					95				
	Tons	kW	EER	Evap. DP	Cond. DP	Tons	kW	EER	Evap. DP	Cond. DP	Tons	kW	EER	Evap. DP	Cond. DP	Tons	kW	EER	Evap. DP	Cond. DP	Tons	kW	EER	Evap. DP	Cond. DP
20	20.7	13.7	17.9	3.6	5.9	20.3	14.5	16.6	3.5	5.7	19.8	15.3	15.4	3.3	5.5	19.3	16.1	14.3	3.2	5.4	18.9	17.1	13.1	3.0	5.2
25	25.8	16.9	18.1	4.1	7.5	25.3	17.8	16.9	3.9	7.3	24.7	18.8	15.6	3.7	7.1	24.2	19.8	14.5	3.6	6.9	23.5	21.0	13.3	3.4	6.7
30	31.1	20.4	18.1	2.9	7.5	30.5	21.5	16.9	2.8	7.3	29.7	22.6	15.6	2.7	7.1	28.9	23.9	14.4	2.5	6.8	28.3	25.2	13.4	2.4	6.7
40	41.3	27.4	17.9	3.6	5.8	40.4	28.9	16.6	3.4	5.7	39.5	30.5	15.4	3.3	5.5	38.6	32.2	14.3	3.1	5.4	37.5	34.1	13.1	3.0	5.2
50	51.6	33.9	18.2	3.3	7.5	50.7	35.6	17.0	3.1	7.3	49.3	37.6	15.7	3.0	7.1	48.3	39.7	14.5	2.9	6.9	47.0	41.9	13.4	2.7	6.7
60	62.1	40.8	18.1	3.5	7.5	60.4	43.0	16.8	3.3	7.2	59.2	45.3	15.6	3.2	7.0	57.9	47.8	14.5	3.1	6.8	56.5	50.5	13.4	2.9	6.7

NOTES:

1. Rated in accordance with ARI Standard 550/590-2004 with water-side fouling factor of .0001 in evaporator and .00025 in condenser.
2. Evaporator Flow in gpm = Tons x 2.4
3. Total Condenser Flow in gpm = 2.4 x (tons + (0.285 x compressor kW)).
4. 100% of the total condenser flow will pass through single condenser on SWC 20, 25 and 30.
5. 50% of the total condenser flow will pass through each of two condensers on SWC 40, 50 and 60.
6. Ratings are based on a 10° F temperature drop in evaporator and 10° F temperature rise in condenser.
7. DP = Water-side pressure drop in psi
8. kW input is for compressors only.
9. EER = Energy Efficiency Ratio (BTU/watt-hour). Power input includes compressors and control power.
10. Interpolation between points is permissible. Extrapolation is not permitted.
11. Consult Napps representative for performance at temperatures outside of the ranges shown.



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For more information contact your local sales office or e-mail us at pmkrug@nappsac.com

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File Number	
Supersedes	
Stocking Location	Longview, Texas