



# PERFORMANCE DATA

## SWU Scroll Water Cooled Condensing Units

**Table 1-1 Performance Data - SWU Scroll Water Cooled Condensing Units**

NAPPS Model #	Number of Compressors	SST	Entering Condenser Water Temperature											
			75				85				95			
			Tons	EER	Flow	DP	Tons	EER	Flow	DP	Tons	EER	Flow	DP
SWU-10	1	30	9.7	17.0	28.5	11.3	9.2	14.8	26.3	9.7	8.8	12.7	27.8	10.4
		40	11.7	20.4	31.5	13.6	11.2	17.6	32.3	13.8	10.7	15.1	33.0	14.3
		50	14.0	23.9	37.5	18.7	13.3	20.6	39.0	19.6	12.8	17.5	39.0	19.1
SWU-15	1	30	14.3	16.7	39.4	14.8	13.7	14.3	40.5	15.2	12.8	12.1	40.5	14.8
		40	17.3	19.9	47.3	20.5	16.7	17.3	48.4	21.0	15.7	14.4	48.4	20.5
		50	20.8	23.4	57.4	29.3	19.8	20.0	56.3	27.7	18.8	17.0	56.3	27.0
SWU-20	2	30	18.7	16.0	55.5	6.5	17.8	13.6	54.0	6.0	16.8	11.5	54.0	5.8
		40	22.7	18.9	64.5	8.5	21.7	16.2	63.0	7.8	20.5	13.7	61.5	7.4
		50	27.0	21.9	75.0	11.1	25.8	18.7	75.0	10.8	24.5	15.8	72.0	9.9
SWU-25	2	30	23.2	15.5	67.5	7.4	22.2	13.5	67.5	7.2	20.8	11.4	65.6	6.7
		40	28.0	18.5	80.6	10.2	26.7	15.8	78.8	9.5	25.3	13.3	76.9	8.8
		50	33.5	21.4	93.8	13.1	31.8	18.2	91.9	12.5	30.3	15.7	90.0	11.8
SWU-30	2	30	28.0	15.9	81.6	5.3	26.5	13.6	81.6	5.1	25.0	11.5	79.1	4.8
		40	33.8	19.0	96.9	7.2	32.2	16.2	91.8	6.2	30.5	13.7	91.8	6.2
		50	40.4	22.0	112.0	9.2	38.8	19.1	109.0	8.8	36.7	16.2	107.0	8.1
SWU-35	3	30	32.2	15.6	94.4	6.9	30.5	13.3	91.8	6.2	28.8	11.2	91.8	6.2
		40	38.8	18.2	112.0	9.2	37.1	15.6	110.0	8.8	35.0	13.4	107.0	8.1
		50	46.3	21.4	130.0	12.2	44.2	18.3	127.0	11.5	42.1	15.5	125.0	10.8
SWU-40	3	30	36.7	15.8	108.0	9.7	35.0	13.4	107.0	9.5	33.0	11.4	104.0	8.8
		40	44.6	18.4	126.0	12.9	42.5	16.0	126.0	12.7	40.4	13.5	123.0	11.8
		50	53.3	21.7	148.0	17.3	50.4	18.5	145.0	16.1	47.9	15.7	142.0	15.2
SWU-45	3	30	41.3	15.7	124.0	5.5	39.2	13.4	120.0	5.1	37.1	11.3	116.0	4.6
		40	50.0	18.4	142.0	6.9	47.5	15.9	142.0	6.9	45.0	13.5	140.0	6.5
		50	59.6	21.6	169.0	9.5	56.7	18.5	165.0	9.0	54.2	15.9	161.0	8.3
SWU-50	4	30	46.3	16.0	137.0	7.4	44.2	13.7	132.0	6.7	41.7	11.6	132.0	6.7
		40	56.3	19.1	161.0	9.7	53.3	16.3	156.0	9.0	50.8	13.8	156.0	8.8
		50	66.7	22.1	189.0	13.1	64.2	19.2	184.0	12.2	60.8	16.3	180.0	11.3
SWU-60	4	30	55.0	15.7	161.0	9.7	52.1	13.4	156.0	9.0	49.2	11.3	156.0	8.8
		40	66.3	18.4	189.0	13.1	63.3	15.9	189.0	12.7	60.0	13.5	184.0	12.0
		50	79.6	21.6	222.0	17.5	75.8	18.5	217.0	16.4	71.7	15.6	213.0	15.5

**Notes:**

1. Ratings are based on 60 Hz, R-22, 15°F superheat, 15°F subcooling and 10°F water temperature rise per ARI Standard 365-87
2. EER = Energy Efficiency Ratio (cooling capacity in BTUH divided by total power input in watts).
3. Flow = Water-side flowrate in gpm.
4. DP = Water-side pressure drop in feet of water.
5. Rated with water-side fouling factor allowance of 0.00025 hr-ft<sup>2</sup>-°F/BTU for condenser.
6. Interpolation between points is permissible. Extrapolation is not permitted.