



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 (°F)	Entering Condenser Water Temperature (°F)											
			75				85				95			
			Tons	EER	Flow	DP	Tons	EER	Flow	DP	Tons	EER	Flow	DP
SWU-10	1	30	9.5	15.9	27.7	10.8	9.0	13.8	27.0	9.8	8.6	11.9	26.7	9.6
		40	11.5	19.1	32.5	13.9	11.0	16.4	31.8	13.3	10.5	14.1	31.3	12.8
		50	13.7	22.3	38.0	18.6	13.0	19.2	36.9	17.1	12.6	16.3	36.4	16.7
SWU-15	1	30	14.0	15.6	41.0	15.6	13.4	13.4	40.5	14.8	12.6	11.3	39.2	13.9
		40	17.0	18.6	48.2	20.8	16.4	16.2	47.6	19.8	15.4	13.5	46.3	18.8
		50	20.4	21.9	56.6	28.0	19.4	18.7	55.1	25.9	18.4	15.9	53.8	24.6
SWU-20	2	30	18.3	14.9	54.1	6.0	17.5	12.7	53.2	5.6	16.5	10.7	52.1	5.4
		40	22.3	17.7	63.8	8.0	21.3	15.1	62.6	7.7	20.1	12.8	61.1	7.3
		50	26.5	20.5	74.2	10.6	25.3	17.5	72.6	10.1	24.0	14.8	71.0	9.6
SWU-25	2	30	22.8	14.5	67.5	7.2	21.8	12.6	66.4	6.9	20.4	10.6	64.6	6.5
		40	27.5	17.3	78.9	9.5	26.2	14.8	77.4	8.9	24.8	12.4	75.9	8.6
		50	32.9	20.0	92.3	12.6	31.2	17.0	89.9	11.8	29.7	14.7	87.9	11.3
SWU-30	2	30	27.5	14.9	81.1	5.0	26.0	12.7	79.1	4.8	24.5	10.7	77.5	4.6
		40	33.2	17.7	94.9	6.6	31.6	15.1	92.9	6.3	29.9	12.8	90.9	6.1
		50	39.6	20.6	110.9	9.1	38.1	17.8	108.8	8.4	36.0	15.1	105.9	7.9
SWU-35	3	30	31.6	14.6	93.5	6.4	29.9	12.4	91.5	6.2	28.2	10.5	89.9	5.9
		40	38.1	17.0	109.7	8.7	36.4	14.6	107.8	8.2	34.3	12.5	104.8	7.8
		50	45.4	20.0	127.6	11.6	43.4	17.1	124.8	10.8	41.3	14.5	122.5	10.4
SWU-40	3	30	36.0	14.8	106.4	9.4	34.3	12.5	104.8	8.9	32.4	10.6	102.6	8.6
		40	43.7	17.2	125.8	12.7	41.7	14.9	122.9	11.8	39.6	12.6	120.8	11.4
		50	52.3	20.3	146.6	16.5	49.4	17.3	142.1	15.2	47.0	14.7	139.0	14.6
SWU-45	3	30	40.5	14.7	119.8	5.1	38.4	12.5	117.4	4.7	36.4	10.6	115.6	4.6
		40	49.0	17.2	141.1	6.8	46.6	14.9	137.5	6.3	44.1	12.6	134.6	6.0
		50	58.5	20.2	164.0	8.9	55.6	17.3	159.8	8.2	53.2	14.9	156.9	7.9
SWU-50	4	30	45.4	14.9	133.9	6.9	43.4	12.8	131.8	6.7	40.9	10.8	129.1	6.4
		40	55.2	17.8	157.9	9.2	52.3	15.2	153.6	8.5	49.8	12.9	151.2	8.3
		50	65.4	20.6	183.0	12.1	63.0	17.9	179.9	11.3	59.6	15.2	175.2	10.7
SWU-60	4	30	53.9	14.7	159.6	9.4	51.1	12.5	156.1	8.8	48.3	10.6	153.2	8.5
		40	65.0	17.2	187.0	12.4	62.1	14.9	183.2	11.9	58.8	12.6	179.4	11.4
		50	78.1	20.2	219.1	16.7	74.3	17.3	213.7	15.6	70.3	14.6	208.3	14.8

Notes:

1. All R-407C data is estimated from ratings 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-ft²-°F/BTU for condenser.
6. Interpolation between points is permissible. Extrapolation is not permitted.