

Water - cooled condensing unit

WCU080SSY

60 Hz Performance Data - English Units - Refrigerant R-134a

Water Leaving		40	41	42	43	44	45	46	47	48	49	50
Chiller °F												
Water Entering												
Condenser °F												
65	Tons	71.5	73.1	74.7	76.4	78.0	79.7	81.5	83.3	85.1	86.9	88.7
	Btuh	857,710	876,896	896,410	916,257	936,441	956,966	977,836	999,054	1,020,626	1,042,555	1,064,845
	W	40,958	41,032	41,107	41,183	41,260	41,338	41,418	41,498	41,580	41,663	41,748
	EER	20.9	21.4	21.8	22.2	22.7	23.1	23.6	24.1	24.5	25.0	25.5
	THR - Btuh	997,580	1,017,019	1,036,789	1,056,896	1,077,344	1,098,135	1,119,276	1,140,770	1,162,621	1,184,834	1,207,412
70	Tons	69.5	71.1	72.7	74.3	75.9	77.6	79.3	81.1	82.8	84.6	86.4
	Btuh	834,126	852,944	872,084	891,550	911,345	931,475	951,942	972,752	993,907	1,015,412	1,037,272
	W	43,369	43,467	43,566	43,667	43,770	43,874	43,980	44,088	44,198	44,309	44,422
	EER	19.2	19.6	20.0	20.4	20.8	21.2	21.6	22.1	22.5	22.9	23.4
	THR - Btuh	982,230	1,001,383	1,020,862	1,040,673	1,060,819	1,081,305	1,102,134	1,123,312	1,144,841	1,166,727	1,188,974
75	Tons	67.5	69.0	70.6	72.2	73.8	75.4	77.1	78.8	80.5	82.3	84.1
	Btuh	809,800	828,242	846,998	866,074	885,472	905,197	925,253	945,644	966,374	987,446	1,008,867
	W	45,749	45,867	45,987	46,108	46,232	46,358	46,487	46,618	46,751	46,886	47,024
	EER	17.7	18.1	18.4	18.8	19.2	19.5	19.9	20.3	20.7	21.1	21.5
	THR - Btuh	966,034	984,877	1,004,042	1,023,533	1,043,354	1,063,510	1,084,005	1,104,842	1,126,027	1,147,563	1,169,454
80	Tons	65.4	66.9	68.4	70.0	71.6	73.2	74.8	76.5	78.2	79.9	81.6
	Btuh	784,774	802,830	821,194	839,870	858,862	878,173	897,809	917,772	938,067	958,699	979,671
	W	48,154	48,287	48,422	48,561	48,702	48,845	48,992	49,141	49,294	49,449	49,608
	EER	16.3	16.6	17.0	17.3	17.6	18.0	18.3	18.7	19.0	19.4	19.7
	THR - Btuh	949,219	967,729	986,556	1,005,704	1,025,177	1,044,979	1,065,115	1,085,589	1,106,405	1,127,568	1,149,080
85	Tons	63.3	64.7	66.2	67.7	69.3	70.9	72.5	74.1	75.8	77.4	79.1
	Btuh	759,089	776,751	794,713	812,981	831,557	850,446	869,652	889,178	909,030	929,211	949,725
	W	50,637	50,781	50,928	51,078	51,232	51,389	51,550	51,714	51,881	52,053	52,227
	EER	15.0	15.3	15.6	15.9	16.2	16.5	16.9	17.2	17.5	17.9	18.2
	THR - Btuh	932,013	950,167	968,632	987,413	1,006,514	1,025,940	1,045,694	1,065,781	1,086,205	1,106,970	1,128,081
90	Tons	61.1	62.5	64.0	65.5	67.0	68.5	70.1	71.7	73.3	74.9	76.6
	Btuh	732,788	750,046	767,598	785,447	803,599	822,056	840,823	859,904	879,304	899,025	919,072
	W	53,252	53,403	53,558	53,717	53,879	54,045	54,216	54,390	54,568	54,751	54,937
	EER	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7
	THR - Btuh	914,644	932,418	950,498	968,889	987,595	1,006,620	1,025,969	1,045,645	1,065,653	1,085,998	1,106,682
95	Tons	58.8	60.2	61.7	63.1	64.6	66.1	67.6	69.2	70.7	72.3	74.0
	Btuh	705,911	722,756	739,888	757,311	775,029	793,045	811,365	829,991	848,929	868,181	887,753
	W	56,056	56,209	56,367	56,530	56,696	56,868	57,043	57,224	57,408	57,598	57,792
	EER	12.6	12.9	13.1	13.4	13.7	13.9	14.2	14.5	14.8	15.1	15.4
	THR - Btuh	897,341	914,711	932,382	950,359	968,646	987,247	1,006,167	1,025,409	1,044,978	1,064,878	1,085,113
100	Tons	56.5	57.9	59.3	60.7	62.2	63.6	65.1	66.6	68.2	69.7	71.3
	Btuh	678,500	694,924	711,627	728,614	745,889	763,456	781,318	799,481	817,948	836,723	855,809
	W	59,101	59,253	59,410	59,572	59,739	59,910	60,087	60,270	60,457	60,649	60,847
	EER	11.5	11.7	12.0	12.2	12.5	12.7	13.0	13.3	13.5	13.8	14.1
	THR - Btuh	880,329	897,272	914,511	932,051	949,896	968,049	986,516	1,005,301	1,024,407	1,043,839	1,063,602

W (Total Power Input in Watts) - Power input to unit, including controls

EER (Energy Efficiency Ratio) - Btuh / Total power input in Watts

THR (Total Heat Rejection in Btuh) - Btuh

Notes:

Shaded area rated in accordance with ARI Standard 550/590

- 1. Condenser: Flow 3.0 gpm / ton
Fouling factor 0.00025 h · ft² · °F/Btu
- 2. - Single screw compressor
- 3. - Refrigerant R-134A
- 4. - Sea Level
- 5. - Interpolation between points is acceptable
- 6. - Extrapolation is not acceptable