

Water - cooled condensing unit

WCU070SSY

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	56.6	57.9	59.2	60.5	61.9	63.2	64.6	66.0	67.4	68.9	70.4
	Btuh	679,556	694,839	710,387	726,202	742,287	758,646	775,281	792,196	809,392	826,874	844,644
	W	33,933	34,109	34,287	34,469	34,653	34,839	35,027	35,218	35,411	35,605	35,801
	EER	20.0	20.4	20.7	21.1	21.4	21.8	22.1	22.5	22.9	23.2	23.6
	THR - Btuh	795,437	811,321	827,478	843,912	860,626	877,620	894,899	912,465	930,319	948,465	966,905
70	Tons	55.1	56.4	57.6	58.9	60.2	61.6	62.9	64.3	65.7	67.2	68.6
	Btuh	661,587	676,549	691,770	707,253	722,999	739,013	755,298	771,855	788,689	805,802	823,197
	W	35,891	36,084	36,280	36,479	36,680	36,884	37,091	37,300	37,511	37,725	37,940
	EER	18.4	18.7	19.1	19.4	19.7	20.0	20.4	20.7	21.0	21.4	21.7
	THR - Btuh	784,153	799,775	815,665	831,827	848,262	864,973	881,964	899,235	916,790	934,632	952,762
75	Tons	53.6	54.8	56.0	57.3	58.6	59.9	61.2	62.6	63.9	65.3	66.7
	Btuh	642,814	657,447	672,333	687,474	702,874	718,535	734,460	750,653	767,115	783,851	800,863
	W	37,800	38,007	38,217	38,430	38,647	38,866	39,088	39,312	39,539	39,768	39,999
	EER	17.0	17.3	17.6	17.9	18.2	18.5	18.8	19.1	19.4	19.7	20.0
	THR - Btuh	771,900	787,240	802,844	818,714	834,853	851,262	867,944	884,903	902,140	919,658	937,459
80	Tons	51.9	53.1	54.3	55.6	56.8	58.1	59.4	60.7	62.1	63.4	64.8
	Btuh	623,286	637,582	652,125	666,917	681,961	697,261	712,819	728,638	744,721	761,072	777,692
	W	39,709	39,927	40,148	40,373	40,600	40,831	41,065	41,301	41,540	41,782	42,026
	EER	15.7	16.0	16.2	16.5	16.8	17.1	17.4	17.6	17.9	18.2	18.5
	THR - Btuh	758,891	773,931	789,230	804,789	820,611	836,699	853,055	869,682	886,581	903,756	921,210
85	Tons	50.3	51.4	52.6	53.8	55.0	56.3	57.5	58.8	60.1	61.5	62.8
	Btuh	603,054	617,005	631,196	645,630	660,311	675,241	690,423	705,861	721,556	737,513	753,734
	W	41,665	41,891	42,120	42,353	42,589	42,828	43,071	43,316	43,564	43,815	44,069
	EER	14.5	14.7	15.0	15.2	15.5	15.8	16.0	16.3	16.6	16.8	17.1
	THR - Btuh	745,340	760,062	775,036	790,265	805,752	821,500	837,510	853,785	870,328	887,142	904,228
90	Tons	48.5	49.6	50.8	52.0	53.2	54.4	55.6	56.9	58.1	59.4	60.8
	Btuh	582,167	595,764	609,595	623,664	637,972	652,525	667,323	682,370	697,670	713,224	729,037
	W	43,717	43,948	44,182	44,420	44,661	44,906	45,154	45,405	45,659	45,916	46,176
	EER	13.3	13.6	13.8	14.0	14.3	14.5	14.8	15.0	15.3	15.5	15.8
	THR - Btuh	731,461	745,845	760,475	775,356	790,489	805,877	821,522	837,427	853,595	870,028	886,728
95	Tons	46.7	47.8	48.9	50.1	51.2	52.4	53.6	54.9	56.1	57.4	58.6
	Btuh	560,674	573,909	587,372	601,067	614,995	629,161	643,567	658,217	673,112	688,256	703,652
	W	45,913	46,145	46,381	46,620	46,864	47,111	47,361	47,615	47,872	48,132	48,395
	EER	12.2	12.4	12.7	12.9	13.1	13.4	13.6	13.8	14.1	14.3	14.5
	THR - Btuh	717,469	731,494	745,763	760,275	775,035	790,044	805,306	820,822	836,595	852,627	868,922
100	Tons	44.9	46.0	47.0	48.2	49.3	50.4	51.6	52.8	54.0	55.2	56.5
	Btuh	538,626	551,491	564,578	577,890	591,430	605,201	619,207	633,449	647,932	662,658	677,629
	W	48,301	48,531	48,765	49,004	49,246	49,492	49,742	49,995	50,252	50,512	50,775
	EER	11.2	11.4	11.6	11.8	12.0	12.2	12.4	12.7	12.9	13.1	13.3
	THR - Btuh	703,575	717,225	731,111	745,237	759,604	774,216	789,074	804,182	819,541	835,155	851,026

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