

Water - cooled condensing unit

WCU120SSY

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	105.9	108.2	110.5	112.9	115.4	117.9	120.4	122.9	125.6	128.2	130.9
	Btuh	1,270,311	1,298,149	1,326,461	1,355,253	1,384,530	1,414,299	1,444,565	1,475,334	1,506,611	1,538,403	1,570,714
	W	64,829	65,368	65,923	66,495	67,084	67,691	68,315	68,957	69,618	70,298	70,997
	EER	19.6	19.9	20.1	20.4	20.6	20.9	21.1	21.4	21.6	21.9	22.1
	THR - Btuh	1,491,702	1,521,380	1,551,588	1,582,333	1,613,622	1,645,462	1,677,860	1,710,822	1,744,357	1,778,470	1,813,170
70	Tons	103.2	105.5	107.8	110.2	112.6	115.0	117.5	120.0	122.6	125.2	127.9
	Btuh	1,238,474	1,265,882	1,293,757	1,322,105	1,350,933	1,380,245	1,410,047	1,440,346	1,471,146	1,502,454	1,534,275
	W	67,147	67,645	68,158	68,686	69,230	69,789	70,366	70,958	71,569	72,196	72,842
	EER	18.4	18.7	19.0	19.2	19.5	19.8	20.0	20.3	20.6	20.8	21.1
	THR - Btuh	1,467,779	1,496,888	1,526,515	1,556,667	1,587,351	1,618,575	1,650,345	1,682,668	1,715,552	1,749,003	1,783,029
75	Tons	100.4	102.7	104.9	107.3	109.6	112.0	114.5	117.0	119.5	122.0	124.7
	Btuh	1,204,907	1,231,864	1,259,281	1,287,166	1,315,522	1,344,357	1,373,675	1,403,483	1,433,786	1,464,589	1,495,899
	W	69,749	70,211	70,688	71,178	71,682	72,201	72,735	73,284	73,849	74,430	75,027
	EER	17.3	17.5	17.8	18.1	18.4	18.6	18.9	19.2	19.4	19.7	19.9
	THR - Btuh	1,443,097	1,471,635	1,500,679	1,530,237	1,560,316	1,590,922	1,622,063	1,653,746	1,685,978	1,718,766	1,752,117
80	Tons	97.5	99.7	101.9	104.2	106.5	108.9	111.3	113.7	116.2	118.7	121.3
	Btuh	1,169,691	1,196,176	1,223,116	1,250,516	1,278,381	1,306,718	1,335,531	1,364,828	1,394,612	1,424,891	1,455,670
	W	72,644	73,077	73,522	73,980	74,451	74,934	75,431	75,943	76,468	77,008	77,563
	EER	16.1	16.4	16.6	16.9	17.2	17.4	17.7	18.0	18.2	18.5	18.8
	THR - Btuh	1,417,768	1,445,734	1,474,194	1,503,157	1,532,629	1,562,617	1,593,129	1,624,171	1,655,750	1,687,873	1,720,548
85	Tons	94.4	96.6	98.8	101.0	103.3	105.6	108.0	110.4	112.8	115.3	117.8
	Btuh	1,132,908	1,158,902	1,185,343	1,212,238	1,239,592	1,267,410	1,295,698	1,324,462	1,353,709	1,383,442	1,413,669
	W	75,842	76,251	76,671	77,102	77,544	77,999	78,465	78,944	79,435	79,940	80,459
	EER	14.9	15.2	15.5	15.7	16.0	16.2	16.5	16.8	17.0	17.3	17.6
	THR - Btuh	1,391,906	1,419,298	1,447,174	1,475,541	1,504,405	1,533,774	1,563,655	1,594,054	1,624,979	1,656,437	1,688,435
90	Tons	91.2	93.3	95.5	97.7	99.9	102.2	104.5	106.9	109.3	111.7	114.2
	Btuh	1,094,641	1,120,122	1,146,045	1,172,414	1,199,235	1,226,514	1,254,257	1,282,469	1,311,156	1,340,323	1,369,977
	W	79,351	79,742	80,143	80,553	80,973	81,403	81,844	82,296	82,760	83,235	83,723
	EER	13.8	14.0	14.3	14.6	14.8	15.1	15.3	15.6	15.8	16.1	16.4
	THR - Btuh	1,365,623	1,392,441	1,419,731	1,447,501	1,475,756	1,504,505	1,533,754	1,563,510	1,593,780	1,624,572	1,655,891
95	Tons	87.9	90.0	92.1	94.3	96.4	98.7	100.9	103.2	105.6	108.0	110.4
	Btuh	1,054,971	1,079,920	1,105,303	1,131,126	1,157,394	1,184,113	1,211,290	1,238,929	1,267,036	1,295,617	1,324,678
	W	83,181	83,560	83,946	84,341	84,745	85,157	85,578	86,010	86,451	86,903	87,365
	EER	12.7	12.9	13.2	13.4	13.7	13.9	14.2	14.4	14.7	14.9	15.2
	THR - Btuh	1,339,033	1,365,276	1,391,979	1,419,150	1,446,796	1,474,923	1,503,539	1,532,650	1,562,265	1,592,389	1,623,029
100	Tons	84.5	86.5	88.6	90.7	92.8	95.0	97.2	99.5	101.8	104.1	106.5
	Btuh	1,013,980	1,038,376	1,063,199	1,088,455	1,114,150	1,140,290	1,166,879	1,193,925	1,221,432	1,249,406	1,277,853
	W	87,341	87,713	88,091	88,477	88,869	89,269	89,676	90,092	90,517	90,951	91,394
	EER	11.6	11.8	12.1	12.3	12.5	12.8	13.0	13.3	13.5	13.7	14.0
	THR - Btuh	1,312,249	1,337,915	1,364,031	1,390,602	1,417,637	1,445,142	1,473,123	1,501,589	1,530,547	1,560,002	1,589,963

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