

Water - cooled condensing unit

WCU100SSY

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	93.1	95.1	97.1	99.2	101.3	103.4	105.6	107.8	110.0	112.3	114.6
	Btuh	1,117,073	1,141,002	1,165,326	1,190,052	1,215,185	1,240,728	1,266,688	1,293,070	1,319,878	1,347,117	1,374,794
	W	53,959	54,170	54,386	54,605	54,830	55,060	55,295	55,536	55,783	56,036	56,296
	EER	20.7	21.1	21.4	21.8	22.2	22.5	22.9	23.3	23.7	24.0	24.4
	THR - Btuh	1,301,342	1,325,992	1,351,052	1,376,529	1,402,429	1,428,757	1,455,520	1,482,724	1,510,375	1,538,479	1,567,043
70	Tons	90.9	92.9	94.9	96.9	99.0	101.1	103.2	105.4	107.6	109.8	112.1
	Btuh	1,090,964	1,114,558	1,138,543	1,162,923	1,187,704	1,212,890	1,238,487	1,264,499	1,290,933	1,317,792	1,345,082
	W	56,720	56,905	57,093	57,284	57,480	57,681	57,886	58,096	58,311	58,532	58,759
	EER	19.2	19.6	19.9	20.3	20.7	21.0	21.4	21.8	22.1	22.5	22.9
	THR - Btuh	1,284,662	1,308,887	1,333,513	1,358,549	1,383,998	1,409,868	1,436,165	1,462,895	1,490,064	1,517,677	1,545,742
75	Tons	88.6	90.5	92.5	94.5	96.5	98.6	100.7	102.8	105.0	107.2	109.5
	Btuh	1,063,251	1,086,484	1,110,100	1,134,107	1,158,508	1,183,309	1,208,515	1,234,131	1,260,162	1,286,613	1,313,489
	W	59,769	59,932	60,097	60,266	60,438	60,614	60,793	60,977	61,166	61,360	61,558
	EER	17.8	18.1	18.5	18.8	19.2	19.5	19.9	20.2	20.6	21.0	21.3
	THR - Btuh	1,267,363	1,291,151	1,315,332	1,339,915	1,364,903	1,390,304	1,416,124	1,442,368	1,469,043	1,496,155	1,523,710
80	Tons	86.2	88.1	90.0	92.0	94.0	96.0	98.1	100.2	102.3	104.5	106.7
	Btuh	1,034,053	1,056,895	1,080,116	1,103,721	1,127,715	1,152,103	1,176,890	1,202,081	1,227,682	1,253,697	1,280,131
	W	63,103	63,248	63,396	63,546	63,699	63,855	64,015	64,177	64,344	64,515	64,691
	EER	16.4	16.7	17.0	17.4	17.7	18.0	18.4	18.7	19.1	19.4	19.8
	THR - Btuh	1,249,548	1,272,888	1,296,613	1,320,731	1,345,247	1,370,168	1,395,499	1,421,247	1,447,417	1,474,016	1,501,050
85	Tons	83.6	85.5	87.4	89.3	91.3	93.3	95.3	97.4	99.5	101.6	103.8
	Btuh	1,003,484	1,025,909	1,048,706	1,071,882	1,095,441	1,119,388	1,143,728	1,168,467	1,193,610	1,219,161	1,245,125
	W	66,717	66,850	66,985	67,122	67,261	67,402	67,545	67,692	67,842	67,995	68,153
	EER	15.0	15.3	15.7	16.0	16.3	16.6	16.9	17.3	17.6	17.9	18.3
	THR - Btuh	1,231,321	1,254,202	1,277,460	1,301,102	1,325,135	1,349,564	1,374,395	1,399,635	1,425,289	1,451,364	1,477,866
90	Tons	81.0	82.8	84.7	86.6	88.5	90.4	92.4	94.5	96.5	98.6	100.7
	Btuh	971,663	993,642	1,015,988	1,038,707	1,061,802	1,085,281	1,109,147	1,133,405	1,158,062	1,183,121	1,208,588
	W	70,607	70,734	70,861	70,989	71,118	71,249	71,382	71,517	71,655	71,796	71,940
	EER	13.8	14.0	14.3	14.6	14.9	15.2	15.5	15.8	16.2	16.5	16.8
	THR - Btuh	1,212,786	1,235,196	1,257,976	1,281,132	1,304,670	1,328,596	1,352,916	1,377,637	1,402,764	1,428,304	1,454,262
95	Tons	78.2	80.0	81.8	83.7	85.6	87.5	89.4	91.4	93.4	95.5	97.6
	Btuh	938,705	960,211	982,078	1,004,311	1,026,917	1,049,898	1,073,262	1,097,013	1,121,155	1,145,695	1,170,636
	W	74,771	74,895	75,019	75,143	75,268	75,394	75,521	75,650	75,781	75,913	76,049
	EER	12.6	12.8	13.1	13.4	13.6	13.9	14.2	14.5	14.8	15.1	15.4
	THR - Btuh	1,194,047	1,215,976	1,238,266	1,260,924	1,283,956	1,307,368	1,331,166	1,355,356	1,379,945	1,404,938	1,430,342
100	Tons	75.4	77.1	78.9	80.7	82.6	84.4	86.3	88.3	90.3	92.2	94.3
	Btuh	904,728	925,733	947,093	968,813	990,900	1,013,357	1,036,191	1,059,405	1,083,006	1,106,998	1,131,387
	W	79,204	79,330	79,456	79,581	79,706	79,832	79,958	80,086	80,214	80,344	80,475
	EER	11.4	11.7	11.9	12.2	12.4	12.7	13.0	13.2	13.5	13.8	14.1
	THR - Btuh	1,175,208	1,196,644	1,218,433	1,240,582	1,263,097	1,285,983	1,309,248	1,332,897	1,356,936	1,381,371	1,406,209

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