

**Water - cooled condensing unit**

**WCU140SSY**

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

<b>Water Leaving</b>		<b>40</b>	<b>41</b>	<b>42</b>	<b>43</b>	<b>44</b>	<b>45</b>	<b>46</b>	<b>47</b>	<b>48</b>	<b>49</b>	<b>50</b>
<b>Chiller °F</b>												
<b>Water Entering</b>												
<b>Condenser °F</b>												
<b>65</b>	<b>Tons</b>	121.9	124.7	127.5	130.3	133.1	136.1	139.0	142.1	145.1	148.3	151.4
	<b>Btuh</b>	1,463,384	1,496,111	1,529,412	1,563,293	1,597,761	1,632,823	1,668,485	1,704,752	1,741,633	1,779,132	1,817,256
	<b>W</b>	69,796	70,139	70,485	70,831	71,179	71,529	71,879	72,229	72,581	72,933	73,285
	<b>EER</b>	21.0	21.3	21.7	22.1	22.4	22.8	23.2	23.6	24.0	24.4	24.8
	<b>THR - Btuh</b>	1,701,735	1,735,636	1,770,116	1,805,181	1,840,838	1,877,092	1,913,949	1,951,415	1,989,496	2,028,197	2,067,524
<b>70</b>	<b>Tons</b>	118.6	121.3	124.0	126.8	129.6	132.4	135.3	138.3	141.3	144.4	147.5
	<b>Btuh</b>	1,423,511	1,455,504	1,488,059	1,521,182	1,554,880	1,589,159	1,624,025	1,659,485	1,695,546	1,732,213	1,769,493
	<b>W</b>	72,793	73,126	73,462	73,799	74,138	74,478	74,818	75,160	75,503	75,846	76,189
	<b>EER</b>	19.6	19.9	20.3	20.6	21.0	21.3	21.7	22.1	22.5	22.8	23.2
	<b>THR - Btuh</b>	1,672,096	1,705,230	1,738,931	1,773,206	1,808,060	1,843,499	1,879,530	1,916,157	1,953,387	1,991,225	2,029,678
<b>75</b>	<b>Tons</b>	115.2	117.8	120.5	123.2	125.9	128.7	131.6	134.4	137.4	140.4	143.4
	<b>Btuh</b>	1,382,785	1,414,033	1,445,832	1,478,186	1,511,102	1,544,588	1,578,648	1,613,290	1,648,519	1,684,344	1,720,768
	<b>W</b>	76,009	76,335	76,662	76,992	77,322	77,654	77,987	78,321	78,656	78,992	79,328
	<b>EER</b>	18.2	18.5	18.9	19.2	19.5	19.9	20.2	20.6	21.0	21.3	21.7
	<b>THR - Btuh</b>	1,642,355	1,674,716	1,707,633	1,741,111	1,775,157	1,809,776	1,844,973	1,880,756	1,917,130	1,954,100	1,991,673
<b>80</b>	<b>Tons</b>	111.8	114.3	116.9	119.5	122.2	124.9	127.7	130.5	133.4	136.3	139.3
	<b>Btuh</b>	1,341,235	1,371,729	1,402,759	1,434,333	1,466,458	1,499,138	1,532,382	1,566,194	1,600,582	1,635,552	1,671,111
	<b>W</b>	79,489	79,808	80,129	80,452	80,776	81,102	81,429	81,757	82,086	82,416	82,746
	<b>EER</b>	16.9	17.2	17.5	17.8	18.2	18.5	18.8	19.2	19.5	19.8	20.2
	<b>THR - Btuh</b>	1,612,690	1,644,273	1,676,400	1,709,076	1,742,307	1,776,100	1,810,460	1,845,393	1,880,904	1,917,001	1,953,687
<b>85</b>	<b>Tons</b>	108.2	110.7	113.2	115.8	118.4	121.1	123.8	126.5	129.3	132.2	135.0
	<b>Btuh</b>	1,298,891	1,328,618	1,358,870	1,389,654	1,420,974	1,452,840	1,485,255	1,518,227	1,551,763	1,585,868	1,620,550
	<b>W</b>	83,277	83,590	83,906	84,224	84,543	84,864	85,187	85,510	85,835	86,160	86,486
	<b>EER</b>	15.6	15.9	16.2	16.5	16.8	17.1	17.4	17.8	18.1	18.4	18.7
	<b>THR - Btuh</b>	1,583,280	1,614,079	1,645,410	1,677,278	1,709,689	1,742,650	1,776,167	1,810,244	1,844,888	1,880,105	1,915,900
<b>90</b>	<b>Tons</b>	104.6	107.1	109.5	112.0	114.6	117.1	119.8	122.5	125.2	127.9	130.8
	<b>Btuh</b>	1,255,782	1,284,731	1,314,194	1,344,175	1,374,682	1,405,720	1,437,297	1,469,418	1,502,091	1,535,320	1,569,113
	<b>W</b>	87,415	87,725	88,038	88,352	88,668	88,986	89,305	89,625	89,947	90,270	90,593
	<b>EER</b>	14.4	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17.0	17.3
	<b>THR - Btuh</b>	1,554,304	1,584,313	1,614,842	1,645,896	1,677,482	1,709,606	1,742,273	1,775,489	1,809,259	1,843,591	1,878,489
<b>95</b>	<b>Tons</b>	101.0	103.3	105.7	108.2	110.6	113.2	115.7	118.3	121.0	123.7	126.4
	<b>Btuh</b>	1,211,935	1,240,097	1,268,759	1,297,927	1,327,609	1,357,810	1,388,537	1,419,796	1,451,594	1,483,937	1,516,831
	<b>W</b>	91,949	92,257	92,567	92,880	93,194	93,510	93,827	94,147	94,467	94,788	95,111
	<b>EER</b>	13.2	13.4	13.7	14.0	14.2	14.5	14.8	15.1	15.4	15.7	15.9
	<b>THR - Btuh</b>	1,525,939	1,555,153	1,584,874	1,615,110	1,645,865	1,677,145	1,708,957	1,741,306	1,774,197	1,807,638	1,841,633
<b>100</b>	<b>Tons</b>	97.3	99.6	101.9	104.2	106.6	109.1	111.6	114.1	116.7	119.3	122.0
	<b>Btuh</b>	1,167,380	1,194,743	1,222,593	1,250,938	1,279,784	1,309,137	1,339,003	1,369,389	1,400,302	1,431,747	1,463,731
	<b>W</b>	96,921	97,229	97,538	97,850	98,164	98,480	98,798	99,117	99,438	99,759	100,082
	<b>EER</b>	12.0	12.3	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.6
	<b>THR - Btuh</b>	1,498,364	1,526,777	1,555,686	1,585,096	1,615,015	1,645,446	1,676,397	1,707,873	1,739,881	1,772,425	1,805,511

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 · ft<sup>2</sup> · °F/Btu
- 2. - Single screw compressor
- 3. - Refrigerant R-134A
- 4. - Sea Level
- 5. - Interpolation between points is acceptable
- 6. - Extrapolation is not acceptable