Water - cooled condensing unit WCU090SSY

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

Water Leaving Chiller °F		40	41	42	43	44	45	46	47	48	49	50
Water Entering Condenser °F												
65	Tons	80.5	82.3	84.1	85.9	87.8	89.7	91.6	93.6	95.6	97.6	99.7
	Btuh	966,056	987,438	1,009,177	1,031,276	1,053,741	1,076,577	1,099,787	1,123,377	1,147,352	1,171,716	1,196,473
	W	47,901	48,066	48,234	48,407	48,582	48,762	48,945	49,132	49,322	49,517	49,715
	EER	20.2	20.5	20.9	21.3	21.7	22.1	22.5	22.9	23.3	23.7	24.1
	THR - Btuh	1,129,639	1,151,584	1,173,897	1,196,584	1,219,649	1,243,097	1,266,933	1,291,161	1,315,787	1,340,815	1,366,249
70	Tons	78.5	80.3	82.0	83.9	85.7	87.6	89.5	91.4	93.4	95.4	97.4
	Btuh	942,072	963,121	984,519	1,006,273	1,028,387	1,050,865	1,073,712	1,096,933	1,120,533	1,144,515	1,168,886
	W	50,277	50,454	50,634	50,818	51,006	51,197	51,392	51,590	51,792	51,998	52,208
	EER	18.7	19.1	19.4	19.8	20.2	20.5	20.9	21.3	21.6	22.0	22.4
	THR - Btuh	1,113,766	1,135,419	1,157,435	1,179,817	1,202,572	1,225,703	1,249,215	1,273,114	1,297,403	1,322,088	1,347,174
75	Tons	76.4	78.1	79.9	81.6	83.5	85.3	87.2	89.1	91.0	93.0	95.0
	Btuh	916,682	937,374	958,410	979,796	1,001,535	1,023,632	1,046,093	1,068,922	1,092,123	1,115,702	1,139,662
	W	52,739	52,927	53,118	53,313	53,511	53,713	53,918	54,126	54,338	54,554	54,773
	EER	17.4	17.7	18.0	18.4	18.7	19.1	19.4	19.7	20.1	20.5	20.8
	THR - Btuh	1,096,786	1,118,120	1,139,809	1,161,859	1,184,275	1,207,061	1,230,222	1,253,763	1,277,688	1,302,003	1,326,712
80	Tons	74.2	75.9	77.6	79.3	81.1	82.9	84.7	86.6	88.5	90.4	92.4
	Btuh	889,945	910,257	930,907	951,901	973,242	994,936	1,016,987	1,039,401	1,062,181	1,085,332	1,108,860
	W	55,316	55,513	55,714	55,918	56,125	56,336	56,550	56,767	56,987	57,211	57,439
	EER	16.1	16.4	16.7	17.0	17.3	17.7	18.0	18.3	18.6	19.0	19.3
	THR - Btuh	1,078,849	1,099,835	1,121,171	1,142,860	1,164,909	1,187,322	1,210,104	1,233,259	1,256,792	1,280,708	1,305,012
85	Tons	71.8	73.5	75.2	76.9	78.6	80.4	82.2	84.0	85.9	87.8	89.7
	Btuh	861,918	881,827	902,068	922,647	943,568	964,835	986,453	1,008,428	1,030,764	1,053,464	1,076,536
	W	58,034	58,240	58,448	58,660	58,875	59,093	59,314	59,539	59,766	59,997	60,231
	EER	14.9	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.2	17.6	17.9
	THR - Btuh	1,060,105	1,080,715	1,101,669	1,122,971	1,144,625	1,166,637	1,189,011	1,211,752	1,234,865	1,258,354	1,282,225
90	Tons	69.4	71.0	72.7	74.3	76.0	77.8	79.5	81.3	83.2	85.0	86.9
	Btuh	832,660	852,142	871,951	892,092	912,569	933,386	954,549	976,062	997,929	1,020,157	1,042,749
	W	60,921	61,133	61,348	61,566	61,787	62,012	62,239	62,469	62,702	62,939	63,178
	EER	13.7	13.9	14.2	14.5	14.8	15.1	15.3	15.6	15.9	16.2	16.5
	THR - Btuh	1,040,705	1,060,912	1,081,455	1,102,341	1,123,572	1,145,155	1,167,093	1,189,392	1,212,057	1,235,092	1,258,502
95	Tons	66.9	68.4	70.1	71.7	73.4	75.1	76.8	78.5	80.3	82.1	84.0
	Btuh	802,227	821,260	840,614	860,294	880,303	900,647	921,331	942,359	963,736	985,467	1,007,556
	W	64,004	64,221	64,441	64,664	64,890	65,119	65,350	65,585	65,822	66,063	66,307
	EER	12.5	12.8	13.0	13.3	13.6	13.8	14.1	14.4	14.6	14.9	15.2
	THR - Btuh	1,020,799	1,040,574	1,060,680	1,081,120	1,101,901	1,123,027	1,144,502	1,166,331	1,188,519	1,211,072	1,233,992
100	Tons	64.2	65.8	67.3	68.9	70.6	72.2	73.9	75.6	77.4	79.1	80.9
	Btuh	770,678	789,239	808,115	827,310	846,829	866,677	886,859	907,379	928,242	949,453	971,016
	W	67,309	67,530	67,753	67,980	68,209	68,441	68,676	68,913	69,154	69,397	69,643
	EER	11.4	11.7	11.9	12.2	12.4	12.7	12.9	13.2	13.4	13.7	13.9
	THR - Btuh	1,000,537	1,019,852	1,039,492	1,059,461	1,079,763	1,100,403	1,121,386	1,142,718	1,164,402	1,186,443	1,208,847

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