

Water - cooled condensing unit

WCU060SSY

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 | 51.0 | 52.1 | 53.3 | 54.5 | 55.7 | 56.9 | 58.1 | 59.4 | 60.7 | 62.0 | 63.3 |
| | Btuh | 611,713 | 625,401 | 639,321 | 653,477 | 667,869 | 682,502 | 697,378 | 712,499 | 727,869 | 743,489 | 759,363 |
| | W | 30,586 | 30,692 | 30,801 | 30,911 | 31,025 | 31,140 | 31,257 | 31,377 | 31,499 | 31,624 | 31,750 |
| | EER | 20.0 | 20.4 | 20.8 | 21.1 | 21.5 | 21.9 | 22.3 | 22.7 | 23.1 | 23.5 | 23.9 |
| | THR - Btuh | 716,163 | 730,214 | 744,505 | 759,039 | 773,818 | 788,845 | 804,122 | 819,652 | 835,439 | 851,483 | 867,789 |
| 70 | Tons | 49.6 | 50.8 | 51.9 | 53.0 | 54.2 | 55.4 | 56.6 | 57.9 | 59.1 | 60.4 | 61.7 |
| | Btuh | 595,624 | 609,048 | 622,698 | 636,578 | 650,690 | 665,037 | 679,621 | 694,446 | 709,513 | 724,826 | 740,387 |
| | W | 32,125 | 32,240 | 32,357 | 32,476 | 32,597 | 32,721 | 32,847 | 32,975 | 33,105 | 33,237 | 33,371 |
| | EER | 18.5 | 18.9 | 19.2 | 19.6 | 20.0 | 20.3 | 20.7 | 21.1 | 21.4 | 21.8 | 22.2 |
| | THR - Btuh | 705,330 | 719,146 | 733,196 | 747,483 | 762,009 | 776,778 | 791,792 | 807,053 | 822,565 | 838,329 | 854,349 |
| 75 | Tons | 48.2 | 49.3 | 50.4 | 51.6 | 52.7 | 53.9 | 55.1 | 56.3 | 57.5 | 58.8 | 60.0 |
| | Btuh | 578,701 | 591,853 | 605,226 | 618,824 | 632,648 | 646,701 | 660,987 | 675,508 | 690,266 | 705,264 | 720,505 |
| | W | 33,718 | 33,841 | 33,965 | 34,092 | 34,221 | 34,352 | 34,485 | 34,620 | 34,757 | 34,896 | 35,038 |
| | EER | 17.2 | 17.5 | 17.8 | 18.2 | 18.5 | 18.8 | 19.2 | 19.5 | 19.9 | 20.2 | 20.6 |
| | THR - Btuh | 693,849 | 707,419 | 721,217 | 735,247 | 749,511 | 764,012 | 778,752 | 793,734 | 808,961 | 824,435 | 840,159 |
| 80 | Tons | 46.7 | 47.8 | 48.9 | 50.0 | 51.1 | 52.3 | 53.5 | 54.6 | 55.8 | 57.1 | 58.3 |
| | Btuh | 560,954 | 573,827 | 586,916 | 600,224 | 613,753 | 627,507 | 641,487 | 655,697 | 670,138 | 684,815 | 699,729 |
| | W | 35,386 | 35,515 | 35,646 | 35,780 | 35,915 | 36,052 | 36,192 | 36,333 | 36,477 | 36,622 | 36,770 |
| | EER | 15.9 | 16.2 | 16.5 | 16.8 | 17.1 | 17.4 | 17.7 | 18.0 | 18.4 | 18.7 | 19.0 |
| | THR - Btuh | 681,797 | 695,111 | 708,648 | 722,411 | 736,403 | 750,625 | 765,082 | 779,774 | 794,706 | 809,880 | 825,298 |
| 85 | Tons | 45.2 | 46.2 | 47.3 | 48.4 | 49.5 | 50.6 | 51.8 | 52.9 | 54.1 | 55.3 | 56.5 |
| | Btuh | 542,392 | 554,979 | 567,777 | 580,788 | 594,016 | 607,462 | 621,130 | 635,021 | 649,140 | 663,488 | 678,068 |
| | W | 37,149 | 37,284 | 37,421 | 37,559 | 37,700 | 37,843 | 37,988 | 38,135 | 38,284 | 38,434 | 38,587 |
| | EER | 14.6 | 14.9 | 15.2 | 15.5 | 15.8 | 16.1 | 16.4 | 16.7 | 17.0 | 17.3 | 17.6 |
| | THR - Btuh | 669,255 | 682,302 | 695,568 | 709,053 | 722,762 | 736,696 | 750,858 | 765,251 | 779,878 | 794,741 | 809,843 |
| 90 | Tons | 43.6 | 44.6 | 45.7 | 46.7 | 47.8 | 48.9 | 50.0 | 51.1 | 52.3 | 53.4 | 54.6 |
| | Btuh | 523,026 | 535,320 | 547,819 | 560,527 | 573,445 | 586,577 | 599,925 | 613,492 | 627,280 | 641,293 | 655,532 |
| | W | 39,026 | 39,166 | 39,307 | 39,451 | 39,597 | 39,744 | 39,893 | 40,045 | 40,198 | 40,353 | 40,510 |
| | EER | 13.4 | 13.7 | 13.9 | 14.2 | 14.5 | 14.8 | 15.0 | 15.3 | 15.6 | 15.9 | 16.2 |
| | THR - Btuh | 656,299 | 669,070 | 682,054 | 695,252 | 708,667 | 722,303 | 736,161 | 750,244 | 764,556 | 779,098 | 793,873 |
| 95 | Tons | 41.9 | 42.9 | 43.9 | 45.0 | 46.0 | 47.1 | 48.2 | 49.3 | 50.4 | 51.5 | 52.7 |
| | Btuh | 502,865 | 514,859 | 527,053 | 539,450 | 552,052 | 564,863 | 577,884 | 591,119 | 604,569 | 618,239 | 632,130 |
| | W | 41,038 | 41,182 | 41,327 | 41,475 | 41,624 | 41,775 | 41,928 | 42,083 | 42,240 | 42,398 | 42,559 |
| | EER | 12.3 | 12.5 | 12.8 | 13.0 | 13.3 | 13.5 | 13.8 | 14.0 | 14.3 | 14.6 | 14.9 |
| | THR - Btuh | 643,008 | 655,493 | 668,185 | 681,085 | 694,198 | 707,524 | 721,068 | 734,832 | 748,818 | 763,029 | 777,467 |
| 100 | Tons | 40.2 | 41.1 | 42.1 | 43.1 | 44.2 | 45.2 | 46.3 | 47.3 | 48.4 | 49.5 | 50.7 |
| | Btuh | 481,919 | 493,606 | 505,487 | 517,566 | 529,846 | 542,328 | 555,015 | 567,911 | 581,017 | 594,337 | 607,873 |
| | W | 43,205 | 43,351 | 43,500 | 43,650 | 43,803 | 43,957 | 44,112 | 44,270 | 44,429 | 44,590 | 44,753 |
| | EER | 11.2 | 11.4 | 11.6 | 11.9 | 12.1 | 12.3 | 12.6 | 12.8 | 13.1 | 13.3 | 13.6 |
| | THR - Btuh | 629,462 | 641,650 | 654,039 | 666,632 | 679,431 | 692,439 | 705,658 | 719,092 | 732,742 | 746,612 | 760,703 |

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