

Air - cooled module

VX035DZV (C)

60 Hz Performance Data - English Units - Refrigerant R-410A

| Water Leaving | | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
|---------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Chiller °F | | | | | | | | | | | | |
| Air Entering | | | | | | | | | | | | |
| Condenser °F | | | | | | | | | | | | |
| 65 | Tons | 38.9 | 39.7 | 40.6 | 41.4 | 42.2 | 43.1 | 44.0 | 44.9 | 45.8 | 46.7 | 47.6 |
| | Btuh | 467,256 | 476,956 | 486,810 | 496,820 | 506,988 | 517,315 | 527,803 | 538,454 | 549,270 | 560,252 | 571,403 |
| | W | 31,351 | 31,405 | 31,458 | 31,508 | 31,555 | 31,600 | 31,641 | 31,679 | 31,714 | 31,744 | 31,771 |
| | EER | 14.9 | 15.2 | 15.5 | 15.8 | 16.1 | 16.4 | 16.7 | 17.0 | 17.3 | 17.6 | 18.0 |
| | Flow (GPM) | 93.5 | 95.4 | 97.4 | 99.4 | 101.4 | 103.5 | 105.6 | 107.7 | 109.9 | 112.1 | 114.3 |
| | PD (Hd. Ft.) | 19.8 | 20.6 | 21.3 | 22.1 | 23.0 | 23.8 | 24.7 | 25.7 | 26.6 | 27.6 | 28.6 |
| 70 | Tons | 37.7 | 38.5 | 39.3 | 40.1 | 40.9 | 41.8 | 42.6 | 43.5 | 44.3 | 45.2 | 46.1 |
| | Btuh | 452,576 | 461,982 | 471,538 | 481,245 | 491,105 | 501,119 | 511,290 | 521,619 | 532,108 | 542,759 | 553,573 |
| | W | 32,686 | 32,749 | 32,810 | 32,870 | 32,928 | 32,983 | 33,036 | 33,087 | 33,134 | 33,179 | 33,221 |
| | EER | 13.8 | 14.1 | 14.4 | 14.6 | 14.9 | 15.2 | 15.5 | 15.8 | 16.1 | 16.4 | 16.7 |
| | Flow (GPM) | 90.5 | 92.4 | 94.3 | 96.2 | 98.2 | 100.2 | 102.3 | 104.3 | 106.4 | 108.6 | 110.7 |
| | PD (Hd. Ft.) | 18.7 | 19.4 | 20.1 | 20.9 | 21.7 | 22.5 | 23.3 | 24.2 | 25.1 | 26.0 | 27.0 |
| 75 | Tons | 36.5 | 37.3 | 38.0 | 38.8 | 39.6 | 40.4 | 41.2 | 42.1 | 42.9 | 43.8 | 44.6 |
| | Btuh | 437,916 | 447,025 | 456,279 | 465,680 | 475,228 | 484,927 | 494,777 | 504,780 | 514,939 | 525,255 | 535,729 |
| | W | 34,105 | 34,174 | 34,242 | 34,309 | 34,374 | 34,438 | 34,501 | 34,562 | 34,620 | 34,676 | 34,730 |
| | EER | 12.8 | 13.1 | 13.3 | 13.6 | 13.8 | 14.1 | 14.3 | 14.6 | 14.9 | 15.1 | 15.4 |
| | Flow (GPM) | 87.6 | 89.4 | 91.3 | 93.1 | 95.0 | 97.0 | 99.0 | 101.0 | 103.0 | 105.1 | 107.1 |
| | PD (Hd. Ft.) | 17.6 | 18.3 | 19.0 | 19.7 | 20.4 | 21.2 | 22.0 | 22.8 | 23.6 | 24.5 | 25.4 |
| 80 | Tons | 35.3 | 36.0 | 36.7 | 37.5 | 38.3 | 39.1 | 39.9 | 40.7 | 41.5 | 42.3 | 43.2 |
| | Btuh | 423,221 | 432,030 | 440,979 | 450,069 | 459,303 | 468,682 | 478,208 | 487,882 | 497,707 | 507,685 | 517,816 |
| | W | 35,628 | 35,700 | 35,772 | 35,844 | 35,915 | 35,985 | 36,054 | 36,122 | 36,189 | 36,254 | 36,318 |
| | EER | 11.9 | 12.1 | 12.3 | 12.6 | 12.8 | 13.0 | 13.3 | 13.5 | 13.8 | 14.0 | 14.3 |
| | Flow (GPM) | 84.6 | 86.4 | 88.2 | 90.0 | 91.9 | 93.7 | 95.6 | 97.6 | 99.5 | 101.5 | 103.6 |
| | PD (Hd. Ft.) | 16.5 | 17.2 | 17.8 | 18.5 | 19.2 | 19.9 | 20.7 | 21.4 | 22.2 | 23.0 | 23.9 |
| 85 | Tons | 34.0 | 34.7 | 35.5 | 36.2 | 36.9 | 37.7 | 38.5 | 39.2 | 40.0 | 40.8 | 41.6 |
| | Btuh | 408,437 | 416,941 | 425,581 | 434,358 | 443,274 | 452,330 | 461,528 | 470,870 | 480,358 | 489,993 | 499,778 |
| | W | 37,274 | 37,346 | 37,420 | 37,493 | 37,567 | 37,641 | 37,715 | 37,788 | 37,861 | 37,932 | 38,003 |
| | EER | 11.0 | 11.2 | 11.4 | 11.6 | 11.8 | 12.0 | 12.2 | 12.5 | 12.7 | 12.9 | 13.2 |
| | Flow (GPM) | 81.7 | 83.4 | 85.1 | 86.9 | 88.7 | 90.5 | 92.3 | 94.2 | 96.1 | 98.0 | 100.0 |
| | PD (Hd. Ft.) | 15.5 | 16.1 | 16.7 | 17.3 | 18.0 | 18.7 | 19.4 | 20.1 | 20.8 | 21.6 | 22.4 |
| 90 | Tons | 32.8 | 33.5 | 34.2 | 34.9 | 35.6 | 36.3 | 37.1 | 37.8 | 38.6 | 39.3 | 40.1 |
| | Btuh | 393,507 | 401,704 | 410,032 | 418,491 | 427,085 | 435,815 | 444,682 | 453,688 | 462,835 | 472,125 | 481,560 |
| | W | 39,060 | 39,131 | 39,203 | 39,277 | 39,351 | 39,426 | 39,502 | 39,577 | 39,653 | 39,729 | 39,805 |
| | EER | 10.1 | 10.3 | 10.5 | 10.7 | 10.9 | 11.1 | 11.3 | 11.5 | 11.7 | 11.9 | 12.1 |
| | Flow (GPM) | 78.7 | 80.3 | 82.0 | 83.7 | 85.4 | 87.2 | 88.9 | 90.7 | 92.6 | 94.4 | 96.3 |
| | PD (Hd. Ft.) | 14.5 | 15.0 | 15.6 | 16.2 | 16.8 | 17.4 | 18.1 | 18.8 | 19.5 | 20.2 | 20.9 |
| 95 | Tons | 31.5 | 32.2 | 32.9 | 33.5 | 34.2 | 34.9 | 35.6 | 36.4 | 37.1 | 37.8 | 38.6 |
| | Btuh | 378,376 | 386,262 | 394,274 | 402,414 | 410,682 | 419,082 | 427,614 | 436,281 | 445,084 | 454,025 | 463,107 |
| | W | 41,007 | 41,073 | 41,142 | 41,213 | 41,321 | 41,359 | 41,434 | 41,510 | 41,586 | 41,664 | 41,742 |
| | EER | 9.2 | 9.4 | 9.6 | 9.8 | 9.9 | 10.1 | 10.3 | 10.5 | 10.7 | 10.9 | 11.1 |
| | Flow (GPM) | 75.7 | 77.3 | 78.9 | 80.5 | 82.1 | 83.8 | 85.5 | 87.3 | 89.0 | 90.8 | 92.6 |
| | PD (Hd. Ft.) | 13.5 | 14.0 | 14.5 | 15.1 | 15.6 | 16.2 | 16.8 | 17.5 | 18.1 | 18.8 | 19.5 |
| 100 | Tons | 30.2 | 30.9 | 31.5 | 32.2 | 32.8 | 33.5 | 34.2 | 34.9 | 35.6 | 36.3 | 37.0 |
| | Btuh | 362,989 | 370,561 | 378,254 | 386,069 | 394,009 | 402,076 | 410,270 | 418,594 | 427,049 | 435,638 | 444,363 |
| | W | 43,132 | 43,192 | 43,255 | 43,320 | 43,388 | 43,458 | 43,530 | 43,603 | 43,679 | 43,755 | 43,833 |
| | EER | 8.4 | 8.6 | 8.7 | 8.9 | 9.1 | 9.3 | 9.4 | 9.6 | 9.8 | 10.0 | 10.1 |
| | Flow (GPM) | 72.6 | 74.1 | 75.7 | 77.2 | 78.8 | 80.4 | 82.1 | 83.7 | 85.4 | 87.1 | 88.9 |
| | PD (Hd. Ft.) | 12.5 | 13.0 | 13.5 | 14.0 | 14.5 | 15.1 | 15.6 | 16.2 | 16.8 | 17.4 | 18.1 |
| 105 | Tons | 28.9 | 29.5 | 30.2 | 30.8 | 31.4 | 32.1 | 32.7 | 33.4 | 34.1 | 34.7 | 35.4 |
| | Btuh | 347,291 | 354,545 | 361,915 | 369,404 | 377,011 | 384,741 | 392,593 | 400,571 | 408,676 | 416,909 | 425,273 |
| | W | 45,456 | 45,506 | 45,560 | 45,618 | 45,679 | 45,742 | 45,809 | 45,877 | 45,949 | 46,022 | 46,097 |
| | EER | 7.6 | 7.8 | 7.9 | 8.1 | 8.3 | 8.4 | 8.6 | 8.7 | 8.9 | 9.1 | 9.2 |
| | Flow (GPM) | 69.5 | 70.9 | 72.4 | 73.9 | 75.4 | 76.9 | 78.5 | 80.1 | 81.7 | 83.4 | 85.1 |
| | PD (Hd. Ft.) | 11.5 | 12.0 | 12.4 | 12.9 | 13.4 | 13.9 | 14.4 | 14.9 | 15.5 | 16.1 | 16.7 |

| | | | | | | |
|-----------------|--------------|----------------|-------------|-------------|-----------------|-------------|
| EER IPLV | 14.69 | Kw/Ton | IPLV | 0.82 | COP IPLV | 4.30 |
| EER at 100% | 9.94 | kW/ton at 100% | | 1.21 | COP at 100% | 2.91 |
| EER at 75% | 13.44 | kW/ton at 75% | | 0.89 | COP at 75% | 3.94 |
| EER at 50% | 15.38 | kW/ton at 50% | | 0.78 | COP at 50% | 4.51 |
| EER at 25% | 16.88 | kW/ton at 25% | | 0.71 | COP at 25% | 4.94 |

Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P). Certified units may be found in the AHRI Directory at www.ahridirectory.org

W (Total Power Input in Watts) - Power input to unit, including controls

KW/ton (Power Input per Ton) - Power input to unit, including controls - in kW to the net refrigerating capacity in tons

EER (Energy Efficiency Ratio) - Btuh / Total power input in Watts IPLV (Integrated Part Load Value)

COP (Coefficient of Performance) - Cooling capacity in Watts / Total power input in Watts

Notes:

1. Evaporator: Flow based on 2.4 gpm / ton for 10°F Evaporator temperature drop, with Fouling factor 0.0001 h · ft² · °F/Btu
2. Condenser: 95°F Ambient Air Temperature, 120°F Condensing Temperature, Sea Level.
3. Interpolation between points is acceptable, Extrapolation is not acceptable.

