

PHYSICAL SPECIFICATIONS

60 Hz

10-80 Ton

| Model ACDS | 010 | 020 | 030 | 040 | 050 | 060 | 070 | 080 |
|---|-----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| Unit Nominal Capacity TR[kW] | 10.0 [35.2] | 23.1 [81.2] | 29.0 [102.0] | 46.4 [163.2] | 57.4 [201.9] | 67.3 [236.7] | 77.9 [274.0] | 87.2 [306.7] |
| Unit Nominal Power Input kW | 11.66 | 27.0 | 33.7 | 53.6 | 66.8 | 78.8 | 91.6 | 102.5 |
| EER | 10.3 | 10.28 | 10.33 | 10.39 | 10.32 | 10.24 | 10.21 | 10.21 |
| COMPRESSOR | | | | | | | | |
| RPM | 3500 | | | | | | | |
| Min. % Unit Capacity | 100% | 50% | 50% | 25% | 25% | 25% | 25% | 25% |
| No. Of Refrigerant Circuit | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 |
| EVAPORATOR | | | | | | | | |
| Water Connector inches[mm] | 2 [50.8] | 2.0 [50.8] | 2.0 [50.8] | 2.5[63.5] | 2.5[63.5] | 2.5[63.5] | 2.5[63.5] | 2.5[63.5] |
| Nominal Water Flow USgpm[m ³ /hr] | 24.0 [5.4] | 55.4 [12.6] | 69.6 [15.8] | 111.4 [25.3] | 137.8 [31.3] | 161.5 [36.7] | 187.0 [42.5] | 209.3 [47.5] |
| Nominal Pressure Drop ft.wg[kPa] | 11.6 [34.7] | 14.7 [43.9] | 15.4 [46.0] | 18.4 [55.0] | 18.0 [53.8] | 19.0 [56.8] | 14.3 [42.7] | 15.2 [45.4] |
| Min/Max. Water Flow USgpm[m ³ /hr] | 23.0/ 73.0 [5.2/ 16.6] | 42.0/ 131.0 [9.5/ 29.8] | 53.0/ 161.0 [12.0/ 36.6] | 72.0/ 216.0 [16.4/ 49.1] | 90.0/ 272.0 [20.4/ 61.8] | 116.0/ 351.0 [26.3/ 79.7] | 121.0/ 363.0 [27.5/ 82.4] | 136.0/ 410.0 [30.9/ 93.1] |
| Min/Max. Water Pressure Drop ft.wg[kPa] | 11.1/ 93.7 [33.2/ 280.1] | 8.8/ 72.4 [26.3/ 216.4] | 9.3/ 72.7 [27.8/ 217.3] | 8.2/ 62.7 [24.5/ 187.4] | 8.2/ 63.2 [24.5/ 188.9] | 10.3/ 80.0 [30.8/ 239.1] | 6.4/ 48.9 [19.1/ 146.2] | 6.8/ 52.6 [20.3/ 157.2] |
| CONDENSER | | | | | | | | |
| Total Face Area ft ² [m ²] | 21.1[2.0] | 40.6[3.8] | 47.1[4.4] | 94.1[8.7] | 94.1[8.7] | 94.1[8.7] | 94.1[8.7] | 133.0[12.4] |
| Total Air Flow cfm[m ³ /hr] | 9000 [15290] | 24800 [42135] | 24100 [40946] | 51200 [86989] | 48200 [81892] | 48200 [81892] | 48200 [81892] | 71100 [120800] |
| No Of Fan | 1 | 2 | 2 | 4 | 4 | 4 | 4 | 6 |
| Fan Diameter inches[mm] | 28.0[710] | 31.5[800] | 31.5[800] | 31.5[800] | 31.5[800] | 31.5[800] | 31.5[800] | 31.5[800.0] |
| Motor kW ¹ (Qty) | 1.40 (1) | 2.40 (2) | 2.40 (2) | 2.40 (4) | 2.40 (4) | 2.40 (4) | 2.40 (4) | 2.40 (6) |
| Fan FLA . Amp (Qty) | 2.2 (1) | 4.0 (2) | 4.0 (4) | 4.0 (4) | 4.0 (4) | 4.0 (4) | 4.0 (4) | 4.0 (6) |
| GENERAL | | | | | | | | |
| Unit Length inches[mm] | 60 5/8[1540] | 99[2510] | 99[2510] | 115 3/4[2940] | 115 3/4[2940] | 115 3/4[2940] | 115 3/4[2940] | 151 1/2[3850] |
| Unit Width inches[mm] | 49 1/4[1250] | 49 1/4[1250] | 52 3/4[1340] | 89[2260] | 89[2260] | 89[2260] | 89[2260] | 89[2260] |
| Unit Height inches[mm] | 73 3/4[1880] | 74 5/8[1900] | 88 1/2[2250] | 87 1/2[2220] | 87 1/2[2220] | 87 1/2[2220] | 87 1/2[2220] | 93 1/2[2380] |
| Shipping Weight lbs[kg] | 947[430] | 1449[657] | 1843[836] | 3177[1441] | 3829[1737] | 3872[1756] | 3897[1768] | 5033[2292] |
| Operating Weight lbs[kg] | 952[432] | 1461[663] | 1858[843] | 3203[1453] | 3863[1752] | 3911[1774] | 3936[1786] | 5106[2316] |
| Operating Charge R410A lbs[kg] | 24[11] | 51[23] | 77[35] | 101[46] | 128[58] | 152[69] | 179[81] | 203[92] |

Notes: 1. The above data are rated in accordance with AHRI Standard 550/590 with following conditions:
 Evaporator leaving fluid temperature 44°F with fluid flow rate 2.4 USgpm/ton; ambient temperature at 95°F; evaporator fouling factor 0.0001hr.ft².°F/Btu
 2. To consult nearest Dunham-Bush sales office for computer selections other than above operating conditions