

Modular Packaged Unit Performance Data

MPU1

| Item/Description | MPU1-2 | MPU1-3 | MPU1-5 |
|--------------------------------------|----------------------|----------------------|----------------------|
| Model | 2EZ0801M-30.00x27.00 | 2EZ1001N-30.00x27.00 | 2EZ0902M-30.00x27.00 |
| Run | 1 | 2 | 3 |
| Entering db (°F) | 90.0 | 90.0 | 90.0 |
| Entering wb 50 (°F) | 75.0 | 75.0 | 75.0 |
| Air flow A - (ft ³ /min) | 1,200 | 1,800 | 2,400 |
| Altitude (ft) | 0 | 0 | 0 |
| Air flow orientation | Normal | Normal | Normal |
| Refrigerant | R-410A | R-410A | R-410A |
| Circulation ratio | 1 | 1 | 1 |
| Liquid temp. (°F) | 110.0 | 110.0 | 110.0 |
| Evaporating temp. (°F) | 45.0 | 45.0 | 45.0 |
| Flow pattern | Counter | Counter | Counter |
| Superheat (d°F) | 10.0 | 10.0 | 10.0 |
| Tube O.D. (in) | 5/16 | 5/16 | 5/16 |
| Fin name | 2M#11 | 2M#6 | 2M#11 |
| Coil Code | 11 | 6 | 11 |
| Tube pattern (in) | 1.000 x 0.625 | 1.000 x 0.625 | 1.000 x 0.625 |
| Fin style | Corrugated | Sine Wave | Corrugated |
| Fin spacing (/in) | 8.00 | 10.00 | 9.00 |
| Rows | 1 | 1 | 2 |
| Fin height (in) | 30 | 30 | 30 |
| Finned length (in) | 27.00 | 27.00 | 27.00 |
| Coils in bank | 1 | 1 | 1 |
| Fin material (in) | 0.0075 Aluminum | 0.0075 Aluminum | 0.0075 Aluminum |
| Tube wall (in) | 0.012 | 0.012 | 0.012 |
| Fin coating | None | None | None |
| Conn. O.D. (in) | 5/8 | 7/8 | 7/8 |
| Header O.D. (in) | 5/8 | 7/8 | 7/8 |
| Circuits | 3 | 5 | 10 |
| Total capacity (Btu/hr) | 24,411 | 37,669 | 64,179 |
| Sensible capacity (Btu/hr) | 13,971 | 22,612 | 37,770 |
| Leaving db (°F) | 79.1 | 78.3 | 75.3 |
| Leaving wb (°F) | 69.6 | 69.5 | 67.8 |
| Face velocity (ft/min) | 213 | 320 | 427 |
| Air pressure drop (in H2O) | 0.014 | 0.042 | 0.096 |
| Tubeside pd (lbf/in ²) | 5.82 | 3.26 | 2.59 |
| Refr. charge (oz) | 8 | 8 | 17 |
| Refr. flow rate (lbm/hr) | 361 | 557 | 949 |
| Vapor velocity (ft/min) | 1608 | 1506 | 1287 |
| Abs. pressure (lbf/in ²) | 0.00 | 0.00 | 0.00 |

MPU1 - MPU2

| Item/Description | MPU1-5E | MPU2-5 | MPU2-7.5 |
|--------------------------------------|----------------------|----------------------|----------------------|
| Model | 2EZ0902M-30.00x27.00 | 3EZ1001R-36.00x36.00 | 3EZ1101C-36.00x36.00 |
| Run | 4 | 5 | 6 |
| Entering db (°F) | 90.0 | 90.0 | 90.0 |
| Entering wb 50 (°F) | 75.0 | 75.0 | 75.0 |
| Air flow A - (ft ³ /min) | 2,400 | 3,000 | 4,500 |
| Altitude (ft) | 0 | 0 | 0 |
| Air flow orientation | Normal | Normal | Normal |
| Refrigerant | R-410A | R-410A | R-410A |
| Circulation ratio | 1 | 1 | 1 |
| Liquid temp. (°F) | 110.0 | 110.0 | 110.0 |
| Evaporating temp. (°F) | 45.0 | 45.0 | 45.0 |
| Flow pattern | Counter | Counter | Counter |
| Superheat (d°F) | 10.0 | 10.0 | 10.0 |
| Tube O.D. (in) | 5/16 | 3/8 | 3/8 |
| Fin name | 2M#11 | 3R#13 | 3C#7 |
| Coil Code | 11 | 13 | 7 |
| Tube pattern (in) | 1.000 x 0.625 | 1.000 x 0.750 | 1.000 x 0.866 |
| Fin style | Corrugated | Corrugated | Sine Wave |
| Fin spacing (/in) | 9.00 | 10.00 | 11.00 |
| Rows | 2 | 1 | 1 |
| Fin height (in) | 30 | 36 | 36 |
| Finned length (in) | 27.00 | 36.00 | 36.00 |
| Coils in bank | 1 | 1 | 1 |
| Fin material (in) | 0.0075 Aluminum | 0.0075 Aluminum | 0.0060 Aluminum |
| Tube wall (in) | 0.012 | 0.013 | 0.013 |
| Fin coating | None | None | None |
| Conn. O.D. (in) | 7/8 | 7/8 | 7/8 |
| Header O.D. (in) | 7/8 | 7/8 | 7/8 |
| Circuits | 10 | 6 | 6 |
| Total capacity (Btu/hr) | 64,179 | 61,561 | 90,049 |
| Sensible capacity (Btu/hr) | 37,770 | 36,301 | 59,193 |
| Leaving db (°F) | 75.3 | 78.7 | 77.7 |
| Leaving wb (°F) | 67.8 | 69.6 | 69.7 |
| Face velocity (ft/min) | 427 | 333 | 500 |
| Air pressure drop (in H2O) | 0.096 | 0.048 | 0.152 |
| Tubeside pd (lbf/in ²) | 2.59 | 3.06 | 5.84 |
| Refr. charge (oz) | 17 | 19 | 17 |
| Refr. flow rate (lbm/hr) | 949 | 911 | 1331 |
| Vapor velocity (ft/min) | 1287 | 1442 | 2084 |
| Abs. pressure (lbf/in ²) | 0.00 | 0.00 | 0.00 |

MPU2 - MPU3

| Item/Description | MPU2-8 | MPU2-10 | MPU3-10 |
|--------------------------------------|----------------------|----------------------|----------------------|
| Model | 3E21101D-36.00x36.00 | 3E20802B-36.00x36.00 | 3E20602M-43.00x42.00 |
| Run | 7 | 8 | 9 |
| Entering db (°F) | 90.0 | 90.0 | 90.0 |
| Entering wb 50 (°F) | 75.0 | 75.0 | 75.0 |
| Air flow A - (ft ³ /min) | 4,800 | 5,000 | 6,000 |
| Altitude (ft) | 0 | 0 | 0 |
| Air flow orientation | Normal | Normal | Normal |
| Refrigerant | R-410A | R-410A | R-410A |
| Circulation ratio | 1 | 1 | 1 |
| Liquid temp. (°F) | 110.0 | 110.0 | 110.0 |
| Evaporating temp. (°F) | 45.0 | 45.0 | 45.0 |
| Flow pattern | Counter | Counter | Counter |
| Superheat (d°F) | 10.0 | 10.0 | 10.0 |
| Tube O.D. (in) | 3/8 | 3/8 | 3/8 |
| Fin name | 3D#4 | 3B#14 | 3M#12 |
| Coil Code | 4 | 14 | 12 |
| Tube pattern (in) | 1.000 x 0.866 | 1.000 x 0.866 | 1.000 x 0.625 |
| Fin style | Raised Lance | Corrugated | Corrugated |
| Fin spacing (/in) | 11.00 | 8.00 | 6.00 |
| Rows | 1 | 2 | 2 |
| Fin height (in) | 36 | 36 | 43 |
| Finned length (in) | 36.00 | 36.00 | 42.00 |
| Coils in bank | 1 | 1 | 1 |
| Fin material (in) | 0.0060 Aluminum | 0.0075 Aluminum | 0.0075 Aluminum |
| Tube wall (in) | 0.013 | 0.016 | 0.016 |
| Fin coating | None | None | None |
| Conn. O.D. (in) | 7/8 | 7/8 | 7/8 |
| Header O.D. (in) | 7/8 | 7/8 | 7/8 |
| Circuits | 8 | 12 | 14 |
| Total capacity (Btu/hr) | 98,870 | 121,007 | 123,631 |
| Sensible capacity (Btu/hr) | 70,166 | 72,453 | 70,889 |
| Leaving db (°F) | 76.4 | 76.5 | 79.0 |
| Leaving wb (°F) | 69.5 | 69.5 | 69.6 |
| Face velocity (ft/min) | 533 | 556 | 478 |
| Air pressure drop (in H2O) | 0.180 | 0.166 | 0.112 |
| Tubeside pd (lbf/in ²) | 3.45 | 3.60 | 3.42 |
| Refr. charge (oz) | 18 | 36 | 52 |
| Refr. flow rate (lbm/hr) | 1461 | 1789 | 1828 |
| Vapor velocity (ft/min) | 1735 | 1463 | 1283 |
| Abs. pressure (lbf/in ²) | 0.00 | 0.00 | 0.00 |

MPU3 - MPU4

| Item/Description | MPU3-15 | MPU4-10 | MPU4-15 |
|--------------------------------------|----------------------|----------------------|----------------------|
| Model | 3E21002B-43.00x42.00 | 4E20801C-52.50x48.00 | 4E20602B-52.50x48.00 |
| Run | 10 | 11 | 12 |
| Entering db (°F) | 90.0 | 90.0 | 90.0 |
| Entering wb 50 (°F) | 75.0 | 75.0 | 75.0 |
| Air flow A - (ft ³ /min) | 6,500 | 7,000 | 9,000 |
| Altitude (ft) | 0 | 0 | 0 |
| Air flow orientation | Normal | Normal | Normal |
| Refrigerant | R-410A | R-410A | R-410A |
| Circulation ratio | 1 | 1 | 1 |
| Liquid temp. (°F) | 110.0 | 110.0 | 110.0 |
| Evaporating temp. (°F) | 45.0 | 45.0 | 45.0 |
| Flow pattern | Counter | Counter | Counter |
| Superheat (d°F) | 10.0 | 10.0 | 10.0 |
| Tube O.D. (in) | 3/8 | 1/2 | 1/2 |
| Fin name | 3B#14 | 4C#9 | 4B#15 |
| Coil Code | 14 | 9 | 15 |
| Tube pattern (in) | 1.000 x 0.866 | 1.250 x 1.083 | 1.250 x 1.083 |
| Fin style | Corrugated | Sine Wave | Corrugated |
| Fin spacing (/in) | 10.00 | 8.00 | 6.00 |
| Rows | 2 | 1 | 2 |
| Fin height (in) | 43 | 52.50 | 52.50 |
| Finned length (in) | 42.00 | 48.00 | 48.00 |
| Coils in bank | 1 | 1 | 1 |
| Fin material (in) | 0.0060 Aluminum | 0.0060 Aluminum | 0.0075 Aluminum |
| Tube wall (in) | 0.016 | 0.016 | 0.016 |
| Fin coating | None | None | None |
| Conn. O.D. (in) | 7/8 | 7/8 | 7/8 |
| Header O.D. (in) | 1 1/8 | 1 1/8 | 1 1/8 |
| Circuits | 15 | 6 | 12 |
| Total capacity (Btu/hr) | 184,040 | 122,989 | 182,606 |
| Sensible capacity (Btu/hr) | 111,988 | 78,826 | 109,418 |
| Leaving db (°F) | 73.9 | 79.5 | 78.7 |
| Leaving wb (°F) | 67.4 | 70.4 | 69.6 |
| Face velocity (ft/min) | 518 | 400 | 514 |
| Air pressure drop (in H2O) | 0.171 | 0.076 | 0.121 |
| Tubeside pd (lbf/in ²) | 5.94 | 4.14 | 3.53 |
| Refr. charge (oz) | 48 | 51 | 109 |
| Refr. flow rate (lbm/hr) | 2720 | 1819 | 2700 |
| Vapor velocity (ft/min) | 1768 | 1597 | 1193 |
| Abs. pressure (lbf/in ²) | 0.00 | | |