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# HOT WATER COIL TOTAL UNIT HEATING CAPACITY

EVT-028

EVT-028

| EVT-028 TOTAL UNIT HEATING CAPACITY -- HOT WATER COIL |               |        |            |               |            |               |          |                       |            |                            |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|---|---------------|--------|------------|---------------|------------|---------------|----------|-----------------------|------------|----------------------------|---------------|--------------|-------|--------------------------------------|--------------|------------------|---------------|------------------|------------------|------------|--------------|-------------|---------|---------------------|-------------|-------|--|--|------------------|--|--|
| WINTER APPLICATION RATINGS - ENTHALPY WHEEL           |               |        |            |               |            |               |          |                       |            |                            |               |              |       | PERFORMANCE RATINGS - HOT WATER COIL |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| AIR VOLUME (cfm)                                      | OA CONDITIONS |        |            | RA CONDITIONS |            | EFFECTIVENESS |          | AIR-LVG WHL / ENT HWC |            | HEATING CAP-ENTHALPY WHEEL |               |              |       | FLUID DATA                           |              |                  |               |                  | LEAVING AIR DATA |            |              |             |         | COOLING CAP-HW COIL |             |       |  |  | UNIT PERFORMANCE |  |  |
|   | DB (deg F)    | RH (%) | WB (deg F) | DB (deg F)    | WB (deg F) | LATENT (%)    | SENS (%) | DB (deg F)            | WB (deg F) | SENS (Btuh)                | LATENT (Btuh) | TOTAL (Btuh) | S/T   | FR (gpm)                             | VEL (ft/sec) | ENT TEMP (deg F) | PR DROP (fwc) | LVG TEMP (deg F) | DB (deg F)       | WB (deg F) | TOTAL (Btuh) | SENS (Btuh) | S/T     | TOTAL (Btuh)        | SENS (Btuh) | S/T   |  |  |                  |  |  |
| 1600  | -10           | 30     | -11.5      | 72.0          | 54.0       | 72.2          | 77.7     | 52.44                 | 42.31      | 109,116                    | 26,097        | 135,213      | 0.81  | 10                                   | 1.88         | 120              | 1.56          | 110.8            | 78.8             | 54.3       | 45,785       | 45,785      | 1.00    | 180,998             | 154,901     | 0.856 |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 1.49         | 145.0            | 94.8          | 60.4             | 73,515           | 73,515     | 1.00         | 208,728     | 182,631 | 0.875               |             |       |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 1.43         | 179.2            | 110.9         | 85.9             | 101,471          | 101,471    | 1.00         | 236,684     | 210,587 | 0.890               |             |       |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 20                                   | 3.75         | 120              | 5.65          | 115.1            | 80.4             | 54.9       | 48,548       | 48,548      | 1.00    | 183,761             | 157,664     | 0.858 |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 5.41         | 152.1            | 97.2          | 61.3             | 77,703           | 77,703     | 1.00         | 212,916     | 186,819 | 0.877               |             |       |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 5.22         | 189.0            | 114.1         | 67.0             | 106,999          | 106,999    | 1.00         | 242,212     | 216,115 | 0.892               |             |       |  |  |                  |  |  |
|   | 30            | 5.63   | 120        | 12.09         | 116.7      | 81.0          | 55.2     | 49,568                | 49,568     | 1.00                       | 184,781       | 158,684      | 0.859 |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 160           | 11.63  | 154.6      | 98.1          | 61.6       | 79,227        | 79,227   | 1.00                  | 214,440    | 188,343                    | 0.878         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 200           | 11.24  | 192.5      | 115.3         | 67.3       | 108,992       | 108,992  | 1.00                  | 244,205    | 218,108                    | 0.893         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 10            | 1.88   | 120        | 1.56          | 111.8      | 83.4          | 56.4     | 40,668                | 40,668     | 1.00                       | 133,353       | 109,567      | 0.822 |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 160           | 1.49   | 146.1      | 99.4          | 62.3       | 68,357        | 68,357   | 1.00                  | 161,042    | 137,256                    | 0.852         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 200           | 1.43   | 180.3      | 115.5         | 67.6       | 96,282        | 96,282   | 1.00                  | 188,967    | 165,181                    | 0.874         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 20  | 3.75          | 120    | 5.65       | 115.6         | 84.9       | 57.0          | 43,113   | 43,113                | 1.00       | 135,798                    | 112,012       | 0.825        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 5.41          | 152.6  | 101.6      | 63.1          | 72,239     | 72,239        | 1.00     | 164,924               | 141,138    | 0.856                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 5.22          | 189.8  | 118.5      | 68.6          | 101,515    | 101,515       | 1.00     | 194,200               | 170,414    | 0.878                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 30  | 5.63          | 120    | 5.63       | 117.0         | 85.4       | 57.2          | 44,016   | 44,016                | 1.00       | 136,701                    | 112,915       | 0.826        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 11.63         | 155.0  | 102.5      | 63.4          | 73,653     | 73,653        | 1.00     | 166,338               | 142,552    | 0.857                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 11.24         | 192.9  | 119.5      | 68.9          | 103,403    | 103,403       | 1.00     | 196,088               | 172,302    | 0.879                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 10  | 1.88          | 120    | 1.55       | 112.8         | 87.8       | 59.0          | 35,873   | 35,873                | 1.00       | 78,926                     | 64,903        | 0.822        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 1.48          | 147.1  | 103.7      | 64.6          | 63,524     | 63,524        | 1.00     | 106,577               | 92,554     | 0.868                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 1.43          | 181.2  | 119.8      | 69.6          | 91,421     | 91,421        | 1.00     | 134,474               | 120,451    | 0.896                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 20  | 3.75          | 120    | 5.65       | 116.2         | 89.0       | 59.4          | 38,021   | 38,021                | 1.00       | 81,074                     | 67,051        | 0.827        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 5.40          | 153.2  | 105.8      | 85.3          | 67,121     | 67,121        | 1.00     | 110,174               | 96,151     | 0.873                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 5.22          | 190.1  | 122.6      | 70.5          | 96,378     | 96,378        | 1.00     | 139,431               | 125,408    | 0.899                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 30  | 5.63          | 120    | 12.09      | 117.4         | 89.5       | 59.6          | 38,815   | 38,815                | 1.00       | 81,868                     | 67,845        | 0.829        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 11.63         | 155.3  | 106.5      | 65.5          | 68,433     | 68,433        | 1.00     | 111,486               | 97,463     | 0.874                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 11.24         | 193.3  | 123.7      | 70.8          | 98,169     | 98,169        | 1.00     | 141,222               | 127,199    | 0.901                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 2200  | -10           | 30     | -11.5      | 72.0          | 54.0       | 65.4          | 72.4     | 47.85                 | 39.18      | 139,892                    | 32,460        | 172,352      | 0.81  | 10                                   | 1.88         | 120              | 1.57          | 108.0            | 72.8             | 51.2       | 59,446       | 59,446      | 1.00    | 231,798             | 199,338     | 0.860 |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 1.50         | 141.0            | 87.0          | 57.0             | 93,357           | 93,357     | 1.00         | 265,709     | 233,249 | 0.878               |             |       |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 1.44         | 173.9            | 101.3         | 62.2             | 127,606          | 127,606    | 1.00         | 299,958     | 267,498 | 0.892               |             |       |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 20                                   | 3.75         | 120              | 5.67          | 113.5            | 74.7             | 51.7       | 64,059       | 64,059      | 1.00    | 236,411             | 203,951     | 0.863 |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 5.43         | 149.8            | 89.9          | 58.1             | 100,229          | 100,229    | 1.00         | 272,581     | 240,121 | 0.881               |             |       |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 5.23         | 186.0            | 105.1         | 63.5             | 136,613          | 136,613    | 1.00         | 308,965     | 276,505 | 0.895               |             |       |  |  |                  |  |  |
|   | 30            | 5.63   | 120        | 12.12         | 115.6      | 75.4          | 52.3     | 65,780                | 65,780     | 1.00                       | 238,132       | 205,672      | 0.864 |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 160           | 11.64  | 153.0      | 90.9          | 58.5       | 102,753       | 102,753  | 1.00                  | 275,105    | 242,645                    | 0.882         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 200           | 11.27  | 190.4      | 106.5         | 64.0       | 139,887       | 139,887  | 1.00                  | 312,239    | 279,779                    | 0.896         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 10            | 1.88   | 120        | 1.57          | 109.5      | 78.9          | 54.1     | 51,804                | 51,804     | 1.00                       | 169,643       | 140,059      | 0.826 |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 160           | 1.50   | 142.6      | 93.1          | 59.6       | 85,645        | 85,645   | 1.00                  | 203,484    | 173,900                    | 0.855         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 200           | 1.44   | 175.5      | 107.4         | 64.6       | 119,867       | 119,867  | 1.00                  | 237,706    | 208,122                    | 0.876         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 20  | 3.75          | 120    | 5.66       | 114.4         | 80.6       | 54.8          | 55,796   | 55,796                | 1.00       | 173,635                    | 144,051       | 0.830        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 5.42          | 150.6  | 95.7       | 60.5          | 91,913     | 91,913        | 1.00     | 209,752               | 180,168    | 0.859                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 5.23          | 186.8  | 110.9      | 65.7          | 128,259    | 128,259       | 1.00     | 246,098               | 216,514    | 0.880                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 30  | 5.63          | 120    | 12.12      | 116.1         | 81.2       | 55.0          | 57,289   | 57,289                | 1.00       | 175,128                    | 145,544       | 0.831        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 11.63         | 153.6  | 96.7       | 60.9          | 94,221     | 94,221        | 1.00     | 212,060               | 182,476    | 0.860                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 11.27         | 191.0  | 112.2      | 66.2          | 131,325    | 131,325       | 1.00     | 249,164               | 219,580    | 0.881                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 10  | 1.88          | 120    | 1.56       | 111.0         | 84.6       | 57.5          | 44,620   | 44,620                | 1.00       | 99,216                     | 81,775        | 0.824        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 1.49          | 144.1  | 98.8       | 62.6          | 78,395     | 78,395        | 1.00     | 132,991               | 115,550    | 0.869                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 1.44          | 177.0  | 113.1      | 67.4          | 112,537    | 112,537       | 1.00     | 167,133               | 149,692    | 0.896                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 20  | 3.75          | 120    | 5.66       | 115.1         | 86.1       | 58.0          | 48,034   | 48,034                | 1.00       | 102,630                    | 85,189        | 0.830        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 5.42          | 151.4  | 101.2      | 63.5          | 84,103     | 84,103        | 1.00     | 138,699               | 121,258    | 0.874                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 5.23          | 187.6  | 116.4      | 68.4          | 120,414    | 120,414       | 1.00     | 175,010               | 157,569    | 0.900                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 30  | 5.63          | 120    | 12.11      | 116.7         | 86.6       | 58.2          | 49,315   | 49,315                | 1.00       | 103,911                    | 86,470        | 0.832        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 11.63         | 154.1  | 102.1      | 63.8          | 86,209     | 86,209        | 1.00     | 140,805               | 123,364    | 0.876                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 11.26         | 191.5  | 117.6      | 68.7          | 123,286    | 123,286       | 1.00     | 177,882               | 160,441    | 0.902                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 2800  | -10           | 30     | -11.5      | 72.0          | 54.0       | 58.6          | 67.1     | 43.36                 | 35.95      | 165,016                    | 36,936        | 201,952      | 0.82  | 10                                   | 1.88         | 120              | 1.58          | 105.4            | 67.2             | 48.0       | 72,496       | 72,496      | 1.00    | 274,448             | 237,512     | 0.865 |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 1.51         | 137.4            | 80.1          | 53.6             | 111,633          | 111,633    | 1.00         | 313,585     | 276,649 | 0.882               |             |       |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 1.45         | 169.1            | 93.2          | 58.8             | 151,218          | 151,218    | 1.00         | 353,170     | 316,234 | 0.895               |             |       |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 20                                   | 3.75         | 120              | 5.69          | 112.0            | 69.5             | 49.1       | 79,289       | 79,289      | 1.00    | 281,241             | 244,305     | 0.869 |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 5.45         | 147.6            | 83.4          | 55.0             | 121,600          | 121,600    | 1.00         | 323,552     | 286,616 | 0.886               |             |       |  |  |                  |  |  |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 5.26         | 183.2            | 97.4          | 60.3             | 164,200          | 164,200    | 1.00         | 366,152     | 329,216 | 0.899               |             |       |  |  |                  |  |  |
|   | 30            | 5.63   | 120        | 12.15         | 114.5      | 70.3          | 49.4     | 81,848                | 81,848     | 1.00                       | 283,800       | 246,864      | 0.870 |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 160           | 11.66  | 151.5      | 84.6          | 55.5       | 125,288       | 125,288  | 1.00                  | 327,240    | 290,304                    | 0.887         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 200           | 11.30  | 188.4      | 99.0          | 60.9       | 168,946       | 168,946  | 1.00                  | 370,898    | 333,962                    | 0.900         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 10            | 1.88   | 120        | 1.58          | 107.5      | 74.8          | 51.8     | 62,163                | 62,163     | 1.00                       | 199,841       | 166,180      | 0.832 |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 160           | 1.51   | 139.5      | 87.7          | 57.1       | 101,195       | 101,195  | 1.00                  | 238,873    | 205,212                    | 0.859         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
|   | 200           | 1.45   | 171.3      | 100.7         | 61.9       | 140,695       | 140,695  | 1.00                  | 278,373    | 244,712                    | 0.879         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 20  | 3.75          | 120    | 5.67       | 113.1         | 76.7       | 52.6          | 67,924   | 67,924                | 1.00       | 205,602                    | 171,941       | 0.836        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 5.44          | 148.8  | 90.6       | 58.3          | 110,151    | 110,151       | 1.00     | 247,829               | 214,168    | 0.864                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 5.25          | 184.3  | 104.7      | 63.3          | 152,689    | 152,689       | 1.00     | 290,367               | 256,706    | 0.884                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 30  | 5.63          | 120    | 12.13      | 115.3         | 77.5       | 53.0          | 70,103   | 70,103                | 1.00       | 207,781                    | 174,120       | 0.838        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 11.66         | 152.3  | 91.7       | 58.6          | 113,477    | 113,477       | 1.00     | 251,155               | 217,494    | 0.866                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 11.27         | 189.2  | 106.1      | 63.7          | 157,086    | 157,086       | 1.00     | 294,764               | 261,103    | 0.886                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 10  | 1.88          | 120    | 1.57       | 109.4         | 82.0       | 56.2          | 52,385   | 52,385                | 1.00       | 115,982                    | 96,137        | 0.829        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 1.50          | 141.5  | 94.8       | 61.0          | 91,323     | 91,323        | 1.00     | 154,920               | 135,075    | 0.872                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 1.45          | 173.3  | 107.8      | 65.4          | 130,748    | 130,748       | 1.00     | 194,345               | 174,500    | 0.898                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 20  | 3.75          | 120    | 5.66       | 114.2         | 83.6       | 56.8          | 57,191   | 57,191                | 1.00       | 120,788                    | 100,943       | 0.836        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 5.43          | 149.9  | 97.5       | 61.9          | 89,342     | 89,342        | 1.00     | 152,939               | 133,094    | 0.870                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 5.25          | 185.4  | 111.5      | 66.6          | 141,821    | 141,821       | 1.00     | 205,418               | 185,573    | 0.903                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 30  | 5.63          | 120    | 12.12      | 116.0         | 84.2       | 57.0          | 59,014   | 59,014                | 1.00       | 122,611                    | 102,766       | 0.838        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 160   | 11.66         | 153.1  | 98.5       | 62.3          | 102,327    | 102,327       | 1.00     | 165,924               | 146,079    | 0.880                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |
| 200   | 11.27         | 190.0  | 112.8      | 67.0          | 145,891    | 145,891       | 1.00     | 209,                  |            |                            |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                     |             |       |  |  |                  |  |  |

EVT-036

## HOT WATER COIL TOTAL UNIT HEATING CAPACITY

EVT-036

### EVT-036 TOTAL UNIT HEATING CAPACITY -- HOT WATER COIL

| WINTER APPLICATION RATINGS - ENTHALPY WHEEL |               |        |            |               |            |               |          |                       |            |                            |               |              |       | PERFORMANCE RATINGS - HOT WATER COIL |              |                  |               |                  |                  |            |              |             |         | UNIT PERFORMANCE     |             |       |
|---|---------------|--------|------------|---------------|------------|---------------|----------|-----------------------|------------|----------------------------|---------------|--------------|-------|--------------------------------------|--------------|------------------|---------------|------------------|------------------|------------|--------------|-------------|---------|----------------------|-------------|-------|
| AIR VOLUME (cfm)                            | OA CONDITIONS |        |            | RA CONDITIONS |            | EFFECTIVENESS |          | AIR-LVG WHL / ENT HWC |            | HEATING CAP-ENTHALPY WHEEL |               |              |       | FLUID DATA                           |              |                  |               |                  | LEAVING AIR DATA |            |              |             |         | COMBINED HEATING CAP |             |       |
|   | DB (deg F)    | RH (%) | WB (deg F) | DB (deg F)    | WB (deg F) | LATENT (%)    | SENS (%) | DB (deg F)            | WB (deg F) | SENS (Btuh)                | LATENT (Btuh) | TOTAL (Btuh) | S/T   | FR (gpm)                             | VEL (ft/sec) | ENT TEMP (deg F) | PR DROP (fwc) | LVG TEMP (deg F) | DB (deg F)       | WB (deg F) | TOTAL (Btuh) | SENS (Btuh) | S/T     | TOTAL (Btuh)         | SENS (Btuh) | S/T   |
| 2400  | -10           | 30     | -11.5      | 72.0          | 54.0       | 67.6          | 74.1     | 49.25                 | 40.15      | 156,140                    | 36,600        | 192,740      | 0.81  | 10                                   | 1.88         | 120              | 1.57          | 106.4            | 75.2             | 52.4       | 67,523       | 67,523      | 1.00    | 260,263              | 223,663     | 0.859 |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 1.50         | 138.3            | 90.3          | 58.4             | 106,952          | 106,952    | 1.00         | 299,692     | 263,092 | 0.878                |             |       |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 1.44         | 170.0            | 105.7         | 63.9             | 146,844          | 146,844    | 1.00         | 339,584     | 302,984 | 0.892                |             |       |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 20                                   | 3.75         | 120              | 5.67          | 112.6            | 77.6             | 53.4       | 73,674       | 73,674      | 1.00    | 266,414              | 229,814     | 0.863 |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 5.43         | 148.2            | 93.9          | 59.8             | 116,214          | 116,214    | 1.00         | 308,954     | 272,354 | 0.882                |             |       |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 5.25         | 183.7            | 110.4         | 65.5             | 159,055          | 159,055    | 1.00         | 351,795     | 315,195 | 0.896                |             |       |
|   | 30            | 5.63   | 120        | 12.12         | 114.9      | 78.4          | 53.7     | 75,994                | 75,994     | 1.00                       | 268,734       | 232,134      | 0.864 |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 160           | 11.66  | 151.9      | 95.2          | 60.2       | 119,647       | 119,647  | 1.00                  | 312,387    | 275,787                    | 0.883         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 200           | 11.27  | 188.8      | 112.1         | 66.0       | 163,528       | 163,528  | 1.00                  | 356,268    | 319,668                    | 0.897         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 10            | 1.88   | 120        | 1.57          | 108.1      | 80.8          | 55.0     | 59,185                | 59,185     | 1.00                       | 191,076       | 157,718      | 0.825 |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 160           | 1.50   | 140.0      | 95.9          | 60.8       | 98,527        | 98,527   | 1.00                  | 230,418    | 197,060                    | 0.855         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 200           | 1.44   | 171.7      | 111.2         | 66.0       | 138,350       | 138,350  | 1.00                  | 270,241    | 236,883                    | 0.877         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 20  | 3.75          | 120    | 5.66       | 113.5         | 82.8       | 55.8          | 64,537   | 64,537                | 1.00       | 196,428                    | 163,070       | 0.830        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 5.43          | 149.1  | 99.2       | 61.9          | 107,009    | 107,009       | 1.00     | 238,900               | 205,542    | 0.860                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 5.24          | 184.6  | 115.6      | 67.4          | 149,800    | 149,800       | 1.00     | 281,691               | 248,333    | 0.882                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 30  | 5.63          | 120    | 12.12      | 115.5         | 83.6       | 56.2          | 66,561   | 66,561                | 1.00       | 198,452                    | 165,094       | 0.832        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 11.65         | 152.5  | 100.4      | 62.4          | 110,161    | 110,161       | 1.00     | 242,052               | 208,694    | 0.862                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 11.27         | 189.4  | 117.2      | 67.9          | 154,003    | 154,003       | 1.00     | 285,894               | 252,536    | 0.883                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 10  | 1.88          | 120    | 1.56       | 109.6         | 86.0       | 58.1          | 51,355   | 51,355                | 1.00       | 112,514                    | 92,848        | 0.825        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 1.50          | 141.6  | 101.1      | 63.5          | 90,618     | 90,618        | 1.00     | 151,777               | 132,111    | 0.870                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 1.44          | 173.3  | 118.4      | 69.1          | 130,378    | 130,378       | 1.00     | 191,537               | 171,871    | 0.897                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 20  | 3.75          | 120    | 5.66       | 114.3         | 87.8       | 58.8          | 55,967   | 55,967                | 1.00       | 117,126                    | 97,460        | 0.832        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 5.42          | 150.0  | 104.1      | 64.5          | 98,378     | 98,378        | 1.00     | 159,537               | 139,871    | 0.877                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 5.23          | 185.5  | 120.5      | 69.6          | 141,123    | 141,123       | 1.00     | 202,282               | 182,616    | 0.903                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 30  | 5.63          | 120    | 12.12      | 116.1         | 88.5       | 59.0          | 57,715   | 57,715                | 1.00       | 118,874                    | 99,208        | 0.835        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 11.63         | 153.1  | 105.2      | 64.9          | 101,266    | 101,266       | 1.00     | 162,425               | 142,759    | 0.879                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 11.27         | 190.1  | 122.0      | 70.1          | 145,073    | 145,073       | 1.00     | 206,232               | 186,566    | 0.905                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 3000  | -10           | 30     | -11.5      | 72.0          | 54.0       | 61.9          | 69.7     | 45.35                 | 37.40      | 183,551                    | 41,838        | 225,389      | 0.81  | 10                                   | 1.88         | 120              | 1.59          | 103.8            | 70.1             | 49.6       | 80,559       | 80,559      | 1.00    | 305,948              | 264,110     | 0.863 |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 1.52         | 134.6            | 83.9          | 55.4             | 125,369          | 125,369    | 1.00         | 350,758     | 308,920 | 0.881                |             |       |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 1.46         | 165.2            | 97.8          | 60.7             | 170,777          | 170,777    | 1.00         | 396,166     | 354,328 | 0.894                |             |       |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 20                                   | 3.75         | 120              | 5.69          | 111.0            | 72.8             | 50.8       | 89,303       | 89,303      | 1.00    | 314,692              | 272,854     | 0.867 |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 5.45         | 145.9            | 87.9          | 57.0             | 138,369          | 138,369    | 1.00         | 363,758     | 321,920 | 0.885                |             |       |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 5.26         | 180.7            | 103.1         | 62.6             | 187,830          | 187,830    | 1.00         | 413,219     | 371,381 | 0.899                |             |       |
|   | 30            | 5.63   | 120        | 12.15         | 113.8      | 73.8          | 51.2     | 92,638                | 92,638     | 1.00                       | 318,027       | 276,189      | 0.868 |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 160           | 11.68  | 150.3      | 89.4          | 57.6       | 143,231       | 143,231  | 1.00                  | 368,620    | 326,782                    | 0.887         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 200           | 11.30  | 186.7      | 105.0         | 63.2       | 194,125       | 194,125  | 1.00                  | 419,514    | 377,676                    | 0.900         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 10            | 1.88   | 120        | 1.58          | 106.0      | 77.0          | 53.0     | 69,582                | 69,582     | 1.00                       | 223,461       | 185,331      | 0.829 |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 160           | 1.51   | 136.8      | 90.7          | 58.4       | 114,270       | 114,270  | 1.00                  | 268,149    | 230,019                    | 0.858         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 200           | 1.45   | 167.4      | 104.7         | 63.5       | 159,577       | 159,577  | 1.00                  | 313,456    | 275,326                    | 0.878         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 20  | 3.75          | 120    | 5.68       | 112.2         | 79.3       | 54.0          | 77,050   | 77,050                | 1.00       | 230,929                    | 192,799       | 0.835        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 5.45          | 147.2  | 94.4       | 59.8          | 126,013    | 126,013       | 1.00     | 279,892               | 241,762    | 0.864                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 5.26          | 182.0  | 109.5      | 65.1          | 175,398    | 175,398       | 1.00     | 329,277               | 291,147    | 0.884                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 30  | 5.63          | 120    | 12.14      | 114.8         | 80.2       | 54.3          | 79,910   | 79,910                | 1.00       | 233,789                    | 195,659       | 0.837        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 11.66         | 151.1  | 95.7       | 60.3          | 130,420    | 130,420       | 1.00     | 284,299               | 246,169    | 0.866                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 11.29         | 187.6  | 111.3      | 65.6          | 181,253    | 181,253       | 1.00     | 335,132               | 297,002    | 0.886                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 10  | 1.88          | 120    | 1.57       | 108.1         | 83.5       | 56.9          | 59,223   | 59,223                | 1.00       | 130,411                    | 107,931       | 0.828        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 1.51          | 138.9  | 97.2       | 62.0          | 103,803    | 103,803       | 1.00     | 174,991               | 152,511    | 0.872                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 1.45          | 169.6  | 111.1      | 66.6          | 149,021    | 149,021       | 1.00     | 220,209               | 197,729    | 0.898                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 20  | 3.75          | 120    | 5.67       | 113.4         | 85.4       | 57.6          | 65,515   | 65,515                | 1.00       | 136,703                    | 114,223       | 0.836        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 5.43          | 148.4  | 100.4      | 63.1          | 114,384    | 114,384       | 1.00     | 185,572               | 163,092    | 0.879                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 5.25          | 183.2  | 115.6      | 68.0          | 163,698    | 163,698       | 1.00     | 234,886               | 212,406    | 0.904                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 30  | 5.63          | 120    | 12.12      | 115.4         | 86.2       | 57.9          | 67,933   | 67,933                | 1.00       | 139,121                    | 116,641       | 0.838        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 11.66         | 152.0  | 101.7      | 63.5          | 118,367    | 118,367       | 1.00     | 189,555               | 167,075    | 0.881                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 11.28         | 188.4  | 117.3      | 68.5          | 169,143    | 169,143       | 1.00     | 240,331               | 217,851    | 0.906                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 3600  | -10           | 30     | -11.5      | 72.0          | 54.0       | 56.2          | 65.2     | 41.50                 | 34.57      | 206,194                    | 45,489        | 251,683      | 0.82  | 10                                   | 1.88         | 120              | 1.60          | 101.3            | 65.3             | 46.9       | 93,017       | 93,017      | 1.00    | 344,700              | 299,211     | 0.868 |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 1.53         | 131.2            | 78.0          | 52.5             | 142,438          | 142,438    | 1.00         | 394,121     | 348,632 | 0.885                |             |       |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 1.47         | 160.8            | 90.8          | 57.7             | 192,586          | 192,586    | 1.00         | 444,269     | 398,780 | 0.898                |             |       |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 20                                   | 3.75         | 120              | 5.71          | 109.4            | 68.3             | 48.3       | 104,671      | 104,671     | 1.00    | 356,354              | 310,865     | 0.872 |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 160                                  | 5.47         | 143.8            | 82.4          | 54.3             | 159,569          | 159,569    | 1.00         | 411,252     | 365,763 | 0.889                |             |       |
|   |               |        |            |               |            |               |          |                       |            |                            |               |              |       | 200                                  | 5.29         | 178.0            | 96.6          | 59.8             | 214,957          | 214,957    | 1.00         | 466,640     | 421,151 | 0.903                |             |       |
|   | 30            | 5.63   | 120        | 12.18         | 112.7      | 69.5          | 48.8     | 109,156               | 109,156    | 1.00                       | 360,839       | 315,500      | 0.874 |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 160           | 11.70  | 148.7      | 84.0          | 55.0       | 168,020       | 168,020  | 1.00                  | 419,703    | 374,214                    | 0.892         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 200           | 11.34  | 184.7      | 98.7          | 60.6       | 223,257       | 223,257  | 1.00                  | 474,940    | 429,451                    | 0.904         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 10            | 1.88   | 120        | 1.59          | 104.0      | 73.5          | 51.1     | 79,332                | 79,332     | 1.00                       | 250,720       | 209,266      | 0.835 |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 160           | 1.52   | 134.0      | 86.1          | 56.3       | 128,601       | 128,601  | 1.00                  | 299,989    | 258,535                    | 0.862         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
|   | 200           | 1.47   | 163.6      | 99.0          | 61.1       | 178,619       | 178,619  | 1.00                  | 350,007    | 308,553                    | 0.882         |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 20  | 3.75          | 120    | 5.70       | 111.0         | 76.0       | 52.1          | 89,117   | 89,117                | 1.00       | 260,505                    | 219,051       | 0.841        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 5.46          | 145.4  | 90.1       | 57.8          | 143,872    | 143,872       | 1.00     | 315,260               | 273,806    | 0.869                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 5.28          | 179.6  | 104.2      | 62.9          | 199,150    | 199,150       | 1.00     | 370,538               | 329,084    | 0.888                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 30  | 5.63          | 120    | 12.16      | 113.7         | 77.0       | 52.6          | 92,903   | 92,903                | 1.00       | 264,291                    | 222,837       | 0.843        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 11.69         | 149.8  | 91.5       | 58.3          | 149,649    | 149,649       | 1.00     | 321,037               | 279,583    | 0.871                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 11.31         | 185.8  | 106.2      | 63.6          | 206,798    | 206,798       | 1.00     | 378,186               | 336,732    | 0.890                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 10  | 1.88          | 120    | 1.58       | 106.6         | 81.3       | 55.8          | 68,340   | 68,340                | 1.00       | 147,419                    | 122,978       | 0.834        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 1.52          | 136.6  | 93.8       | 60.5          | 115,477    | 115,477       | 1.00     | 194,556               | 170,115    | 0.874                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 1.46          | 166.3  | 106.6      | 64.9          | 165,381    | 165,381       | 1.00     | 244,460               | 220,019    | 0.900                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 20  | 3.75          | 120    | 5.68       | 112.5         | 83.3       | 56.6          | 74,407   | 74,407                | 1.00       | 153,486                    | 129,045       | 0.841        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 5.45          | 146.9  | 97.3       | 61.8          | 129,030    | 129,030       | 1.00     | 208,109               | 183,668    | 0.883                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 5.27          | 181.1  | 111.5      | 66.5          | 184,209    | 184,209       | 1.00     | 263,288               | 238,847    | 0.907                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 30  | 5.63          | 120    | 12.15      | 114.8         | 84.1       | 56.9          | 11,543   | 11,543                | 1.00       | 90,622                     | 66,181        | 0.730        |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 160   | 11.68         | 150.9  | 98.6       | 62.2          | 134,180    | 134,180       | 1.00     | 213,259               | 188,818    | 0.885                      |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |
| 200   | 11.31         | 186.9  | 113.3      | 67.1          | 191,248    | 191,248       | 1.00     | 270,327               |            |                            |               |              |       |                                      |              |                  |               |                  |                  |            |              |             |         |                      |             |       |