



## 500 and 600 Series Conventional Oil Separators: kW

|                                   | Model   | 600   | 501<br>601 | 502<br>602 | 503<br>603 | 504<br>604 | 505<br>605 | 506<br>606 | 507<br>607 |
|-----------------------------------|---------|---|------------|------------|------------|------------|------------|------------|------------|
| Connection Size                   |         | 3/8"  | 1/2"       | 5/8"       | 7/8"       | 1-1/8"     | 1-3/8"     | 1-5/8"     | 2-1/8"     |
| Refrigerant                       | Temp °C | kW @ 37.8°C Condensing 5.6°C Superheat 0°C Subcooling |            |            |            |            |            |            |            |
| R-134a<br>R-12<br>MP-39           | 4.4     | 4.29  | 6.44       | 12.87      | 19.31      | 25.74      | 32.22      | 45.72      | 80.89      |
|                                   | -6.7    | 4.11  | 6.16       | 12.31      | 18.43      | 24.62      | 30.80      | 43.70      | 77.37      |
|                                   | -12.2   | 4.01  | 6.02       | 12.03      | 17.99      | 24.06      | 30.10      | 42.70      | 75.63      |
|                                   | -17.8   | 3.92  | 5.88       | 11.75      | 17.55      | 23.49      | 29.39      | 41.68      | 73.86      |
|                                   | -23.3   | 3.83  | 5.74       | 11.47      | 17.11      | 22.93      | 28.68      | 40.67      | 72.11      |
| R-22                              | 4.4     | 6.58  | 9.85       | 19.70      | 29.54      | 39.39      | 49.24      | 83.00      | 140.68     |
|                                   | -6.7    | 6.33  | 9.48       | 18.96      | 28.43      | 37.91      | 47.39      | 79.75      | 135.41     |
|                                   | -12.2   | 6.21  | 9.30       | 18.59      | 27.88      | 37.18      | 46.48      | 78.14      | 132.79     |
|                                   | -17.8   | 6.09  | 9.11       | 18.22      | 27.33      | 36.44      | 45.55      | 76.50      | 130.13     |
|                                   | -23.3   | 5.96  | 8.93       | 17.85      | 26.78      | 35.70      | 44.63      | 74.88      | 127.52     |
|                                   | -28.9   | 5.84  | 8.74       | 17.48      | 26.22      | 34.96      | 43.70      | 73.24      | 124.86     |
|                                   | -34.4   | 5.71  | 8.56       | 17.11      | 25.67      | 34.23      | 42.78      | 71.63      | 122.24     |
| -28.9                             | 5.59    | 8.37  | 16.74      | 25.11      | 33.48      | 41.85      | 69.99      | 119.58     |            |
| R-410A<br>AZ-20                   | 4.4     | 9.14  | 14.07      | 27.08      | 40.80      | 54.51      | 67.88      | 114.65     | 194.14     |
|                                   | -6.7    | 8.79  | 13.54      | 26.11      | 39.31      | 52.40      | 65.33      | 110.17     | 186.84     |
|                                   | -12.2   | 8.62  | 13.28      | 25.63      | 38.56      | 51.35      | 64.07      | 107.95     | 183.23     |
|                                   | -17.8   | 8.44  | 13.02      | 25.15      | 37.81      | 50.29      | 62.78      | 105.69     | 179.55     |
|                                   | -23.3   | 8.27  | 12.75      | 24.67      | 37.07      | 49.24      | 61.52      | 103.46     | 175.93     |
|                                   | -28.9   | 8.09  | 12.49      | 24.18      | 36.32      | 48.18      | 60.23      | 101.20     | 172.25     |
|                                   | -34.4   | 7.92  | 12.23      | 23.70      | 35.57      | 47.13      | 58.97      | 98.98      | 168.63     |
| -40                               | 7.74    | 11.96   | 23.21      | 34.82      | 46.07      | 57.68      | 96.72      | 164.95     |            |
| R-507<br>AZ-50                    | 4.4     | 6.58  | 9.85       | 19.70      | 29.54      | 39.39      | 49.24      | 83.00      | 140.68     |
|                                   | -6.7    | 6.33  | 9.48       | 18.96      | 28.43      | 37.91      | 47.39      | 79.75      | 135.41     |
|                                   | -12.2   | 6.21  | 9.30       | 18.59      | 27.88      | 37.18      | 46.48      | 78.14      | 132.79     |
|                                   | -17.8   | 6.09  | 9.11       | 18.22      | 27.33      | 36.44      | 45.55      | 76.50      | 130.13     |
|                                   | -23.3   | 5.96  | 8.93       | 17.85      | 26.78      | 35.70      | 44.63      | 74.88      | 127.52     |
|                                   | -28.9   | 5.84  | 8.74       | 17.48      | 26.22      | 34.96      | 43.70      | 73.24      | 124.86     |
|                                   | -34.4   | 5.71  | 8.56       | 17.11      | 25.67      | 34.23      | 42.78      | 71.63      | 122.24     |
| -40                               | 5.59    | 8.37  | 16.74      | 25.11      | 33.48      | 41.85      | 69.99      | 119.58     |            |
| R-404A<br>HP-62<br>HP-80<br>R-502 | 4.4     | 6.58  | 9.85       | 19.70      | 29.54      | 39.39      | 49.24      | 83.00      | 140.68     |
|                                   | -6.7    | 6.33  | 9.48       | 18.96      | 28.43      | 37.91      | 47.39      | 79.75      | 135.41     |
|                                   | -12.2   | 6.21  | 9.30       | 18.59      | 27.88      | 37.18      | 46.48      | 78.14      | 132.79     |
|                                   | -17.8   | 6.09  | 9.11       | 18.22      | 27.33      | 36.44      | 45.55      | 76.50      | 130.13     |
|                                   | -23.3   | 5.96  | 8.93       | 17.85      | 26.78      | 35.70      | 44.63      | 74.88      | 127.52     |
|                                   | -28.9   | 5.84  | 8.74       | 17.48      | 26.22      | 34.96      | 43.70      | 73.24      | 124.86     |
|                                   | -34.4   | 5.71  | 8.56       | 17.11      | 25.67      | 34.23      | 42.78      | 71.63      | 122.24     |
| -40                               | 5.59    | 8.37  | 16.74      | 25.11      | 33.48      | 41.85      | 69.99      | 119.58     |            |
| R-717<br>NH <sub>3</sub>          | 4.4     |   |            |            |            |            |            | 93.76      | 158.97     |
|                                   | -1.1    |   |            |            |            |            |            | 92.85      | 157.51     |
|                                   | -6.7    |   |            |            |            |            |            | 91.94      | 156.06     |
|                                   | -12.2   |   |            |            |            |            |            | 91.03      | 154.60     |
|                                   | -17.8   |   |            |            |            |            |            | 90.12      | 153.15     |
|                                   | -23.3   |   |            |            |            |            |            | 89.21      | 151.69     |
|                                   | -28.9   |   |            |            |            |            |            | 88.30      | 150.24     |
|                                   | -34.4   |   |            |            |            |            |            | 87.39      | 148.78     |
| -40                               |         |   |            |            |            |            | 86.48      | 147.33     |            |

SELECT OIL SEPARATOR WITH CONNECTION SIZE NO LESS THAN DISCHARGE LINE SIZE.

### 500 and 600 Series (kW) Notes:

1. kW = Capacity based on +37.8°C Condensing Temperature, 5.6°C Superheat, 0°C Subcooling.
2. For applications other than reciprocating compressors, (scroll, screw type, 2-stage) please contact Temprite engineering at [temprite@temprite.com](mailto:temprite@temprite.com).