



**Liquid Line Filter Drier Selection Recommendations**  
**[DCH, DCHSG, DCHBF & DCHSF]**



| Description | Connections Inlet/outlet          | Drying Capacity (kg refrigerant) <sup>1</sup> |                |                |               |                 |      |                |      | Liquid Capacity (Kw) <sup>2</sup><br>(for tons/3.5) |                |                 |               |
|-------------|-----------------------------------|---|----------------|----------------|---------------|-----------------|------|----------------|------|---|----------------|-----------------|---------------|
|             |                                   | R-134a  |                | R-22           |               | R-407C & R-410A |      | R-404A & R-507 |      | R-134a  | R-22           | R-407C & R-410A | R-404 & R-507 |
|             |                                   | 24°C  | 52°C           | 24°C           | 52°C          | 24°C            | 52°C | 24°C           | 52°C |   |                |                 |               |
| 032F        | 1/4 SAE                           | 4.7   | 4.2            | 4.2            | 3.7           | 4.2             | 3.7  | 7              | 3.7  | 7 (2 ton)   | 7 (2 ton)      | 7 (2 ton)       | 5 (1.42 ton)  |
| 032S        | 1/4 ODS                           |   |                |                |               |                 |      |                |      | 17 (4.85 ton)                                       | 17 (4.85 ton)  | 19 (5.42 ton)   | 13 (3.7 ton)  |
| 033F        | 3/8 SAE                           |   |                |                |               |                 |      |                |      | 7.5   | 6.5            | 5.7             | 5.2           |
| 033F        | 3/8 ODS                           | 18 (5.14ton)                                  | 19 (5.42 ton)  | 19 (5.42 ton)  | 14 (4 ton)    |                 |      |                |      |   |                |                 |               |
| 052F        | 1/4 SAE                           | 11.5  | 10.5           | 9              | 8             | 10              | 9.5  | 17             | 9    | 7 (2 ton)   | 8 (2.28 ton)   | 8 (2.28 ton)    | 5 (1.42 ton)  |
| 052S        | 1/4 ODS                           |   |                |                |               |                 |      |                |      | 19 (5.42 ton)                                       | 21 (6 ton)     | 21 (6 ton)      | 14 (4 ton)    |
| 053F        | 3/8 SAE                           |   |                |                |               |                 |      |                |      | 23  | 21             | 20              | 19            |
| 053S        | 3/8 ODS                           | 22 (6.28 ton)                                 | 24 (6.85 ton)  | 24 (6.85 ton)  | 16 (4.57 ton) |                 |      |                |      |   |                |                 |               |
| 082F        | 1/4 SAE                           | 46  | 43             | 42             | 41            | 43              | 40   | 76             | 40   | 22 (6.28 ton)                                       | 24 (6.85 ton)  | 24 (6.85 ton)   | 16 (4.57 ton) |
| 082S        | 1/4 ODS                           |   |                |                |               |                 |      |                |      | 30 (8.57 ton)                                       | 33 (9.42 ton)  | 33 (9.42 ton)   | 22 (6.28 ton) |
| 083F        | 3/8 SAE                           |   |                |                |               |                 |      |                |      | 46  | 43             | 42              | 41            |
| 083S        | 3/8 ODS                           | 21 (6 ton)                                    | 23 (6.57 ton)  | 23 (6.57 ton)  | 15 (4.28 ton) |                 |      |                |      |   |                |                 |               |
| 084F        | 1/2 SAE                           | 46  | 43             | 42             | 41            | 43              | 40   | 76             | 40   | 31 (8.85 ton)                                       | 34 (9.71 ton)  | 34 (9.71 ton)   | 22 (6.28 ton) |
| 084S        | 1/2 ODS                           |   |                |                |               |                 |      |                |      | 45 (12.85 ton)                                      | 49 (14 ton)    | 49 (14 ton)     | 33 (9.42 ton) |
| 163F        | 3/8 SAE                           |   |                |                |               |                 |      |                |      | 65  | 61             | 59              | 56            |
| 163S        | 3/8 ODS                           | 62(17.71 ton)                                 | 68(19.42)      | 68(19.42)      | 45(12.85 ton) |                 |      |                |      |   |                |                 |               |
| 163R        | 11/16-16 ORFS                     | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 62(17.71 ton)                                       | 68(19.42)      | 68(19.42)       | 45(12.85 ton) |
| 164F        | 1/2 SAE                           |   |                |                |               |                 |      |                |      | 32(9.14 ton)  | 35(10 ton)     | 35(10 ton)      | 23(6.57 ton)  |
| 164S        | 1/2 ODS                           |   |                |                |               |                 |      |                |      | 53(15.14 ton)                                       | 58(16.57 ton)  | 58(16.57 ton)   | 37(10.57 ton) |
| 164R        | 13/16-16 ORFS                     | 91(26)  | 100(28.57 ton) | 100(28.57 ton) | 65(18.57 ton) |                 |      |                |      |   |                |                 |               |
| 165F        | 5/8 SAE                           | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |
| 165S        | 5/8 ODS                           |   |                |                |               |                 |      |                |      | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |
| 165R        | 1"-14 ORFS                        |   |                |                |               |                 |      |                |      | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |
| 303F        | 3/8 SAE                           | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 32(9.14 ton)  | 35(10 ton)     | 35(10 ton)      | 23(6.57 ton)  |
| 303S        | 3/8 ODS                           |   |                |                |               |                 |      |                |      | 53(15.14 ton)                                       | 58(16.57 ton)  | 58(16.57 ton)   | 37(10.57 ton) |
| 303R        | 11/16-16 ORFS                     |   |                |                |               |                 |      |                |      |   |                |                 |               |
| 303ORN      | 3/8" O-Ring                       | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |
| 304F        | 1/2 SAE                           |   |                |                |               |                 |      |                |      | 53(15.14 ton)                                       | 58(16.57 ton)  | 58(16.57 ton)   | 37(10.57 ton) |
| 304S        | 1/2 ODS                           |   |                |                |               |                 |      |                |      |   |                |                 |               |
| 304R        | 13/16-16 ORFS                     | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |
| 305F        | 5/8 SAE                           |   |                |                |               |                 |      |                |      | 53(15.14 ton)                                       | 58(16.57 ton)  | 58(16.57 ton)   | 37(10.57 ton) |
| 305S        | 5/8 ODS                           |   |                |                |               |                 |      |                |      |   |                |                 |               |
| 305R        | 1"-14 ORFS                        | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |
| 306F        | 3/4 SAE                           |   |                |                |               |                 |      |                |      | 53(15.14 ton)                                       | 58(16.57 ton)  | 58(16.57 ton)   | 37(10.57 ton) |
| 306S        | 3/4 ODS                           |   |                |                |               |                 |      |                |      |   |                |                 |               |
| 307S        | 7/8 ODS                           | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |
| 309S        | 11/8 ODS                          |   |                |                |               |                 |      |                |      | 53(15.14 ton)                                       | 58(16.57 ton)  | 58(16.57 ton)   | 37(10.57 ton) |
| 414F        | 1/2 SAE                           |   |                |                |               |                 |      |                |      |   |                |                 |               |
| 414S        | 1/2 ODS                           | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |
| 415-4F      | 1/2 SAE IN & 5/8 SAE OUT          |   |                |                |               |                 |      |                |      | 53(15.14 ton)                                       | 58(16.57 ton)  | 58(16.57 ton)   | 37(10.57 ton) |
| 415-4R      | 13/16-16 ORFS IN & 1"-14 ORFS OUT |   |                |                |               |                 |      |                |      |   |                |                 |               |
| 415F        | 5/8 SAE                           | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |
| 415S        | 5/8 ODS                           |   |                |                |               |                 |      |                |      | 53(15.14 ton)                                       | 58(16.57 ton)  | 58(16.57 ton)   | 37(10.57 ton) |
| 417S        | 7/8 ODS                           |   |                |                |               |                 |      |                |      |   |                |                 |               |
| 419S        | 1 1/8 ODF                         | 65  | 61             | 59             | 56            | 61              | 56   | 106            | 56   | 91(26)  | 100(28.57 ton) | 100(28.57 ton)  | 65(18.57 ton) |

1) Drying capacity is based on following moisture content test standards before and after drying-  
R134a: From 1050 ppm W to 75 ppm W. If drying to 50 ppm W is required, reduce stated capacities by 15%.  
R404A/R507: From 1020 ppm W to 30 ppm W.  
R407C: From 1020 ppm W to 30 ppm W.  
R410A: From 1050 ppm W to 60 ppm W. in accordance with ARI 710-86.

2) Given in accordance with ARI 710-86 for t<sub>e</sub> = -15°C (5°F) t<sub>c</sub> = 30°C (85°F) and Δp = 0.07 bar (1 psig)