

Data sheet

ELIMINATOR® filter drier with replaceable solid core

Type DCR



Danfoss ELIMINATOR® filter driers with replaceable solid core, type DCR, are for use in liquid and / or suction lines in refrigeration, freezing and air-conditioning systems.

Besides being able to meet the demanding requirements of high working pressure levels when operating with R410A, thanks to replaceable solid cores the DCR programme offers flexibility with respect to different applications.

Available with steel and copper connections.

Features

DCR housing:

- UL approved for MWP up to 667 psig
- DCR housing (incl. core holder) are made entirely of steel and are thus compatible with all refrigerants
- DCR housings have undergone phosphate pre-treatment and have a corrosion-resistant powder-paint finish
- DCR housings are helium leak tested

Top covers for DCR housings:

- Zinc-chromated steel top covers with or without external access connection

Inserts for DCR housings - strainer

48 - F strainer - compatible with all refrigerants:

- Retains dirt particles larger than 15 µm
- For use direct in DCR housings
- Utilised in the suction or liquid line

Inserts for DCR housings - solid cores

48 - DM - 100% molecular sieve solid core suitable for HFC (R134a, R404A, R507, R407C and R410A) refrigerants:

- Provides high moisture adsorption at low and high condensing temperatures
- Effective protection against impurities

48 - DC - 80% molecular sieve and 20% activated alumina solid core suitable for HCFC (R22) refrigerants

and compatible with HFC (R134a, R404A, R507, R407C and R410A) refrigerants:

- Adsorbs moisture and acid in the system throughout the entire temperature range

48 - DA - 30% molecular sieve and 70% activated alumina solid core suitable after compressor burnout and compatible with HCFC (R22)/ HFC (R134a, R404A, R507, R407C and R410A) refrigerants:

- High acid adsorption and standard water adsorption

Approvals

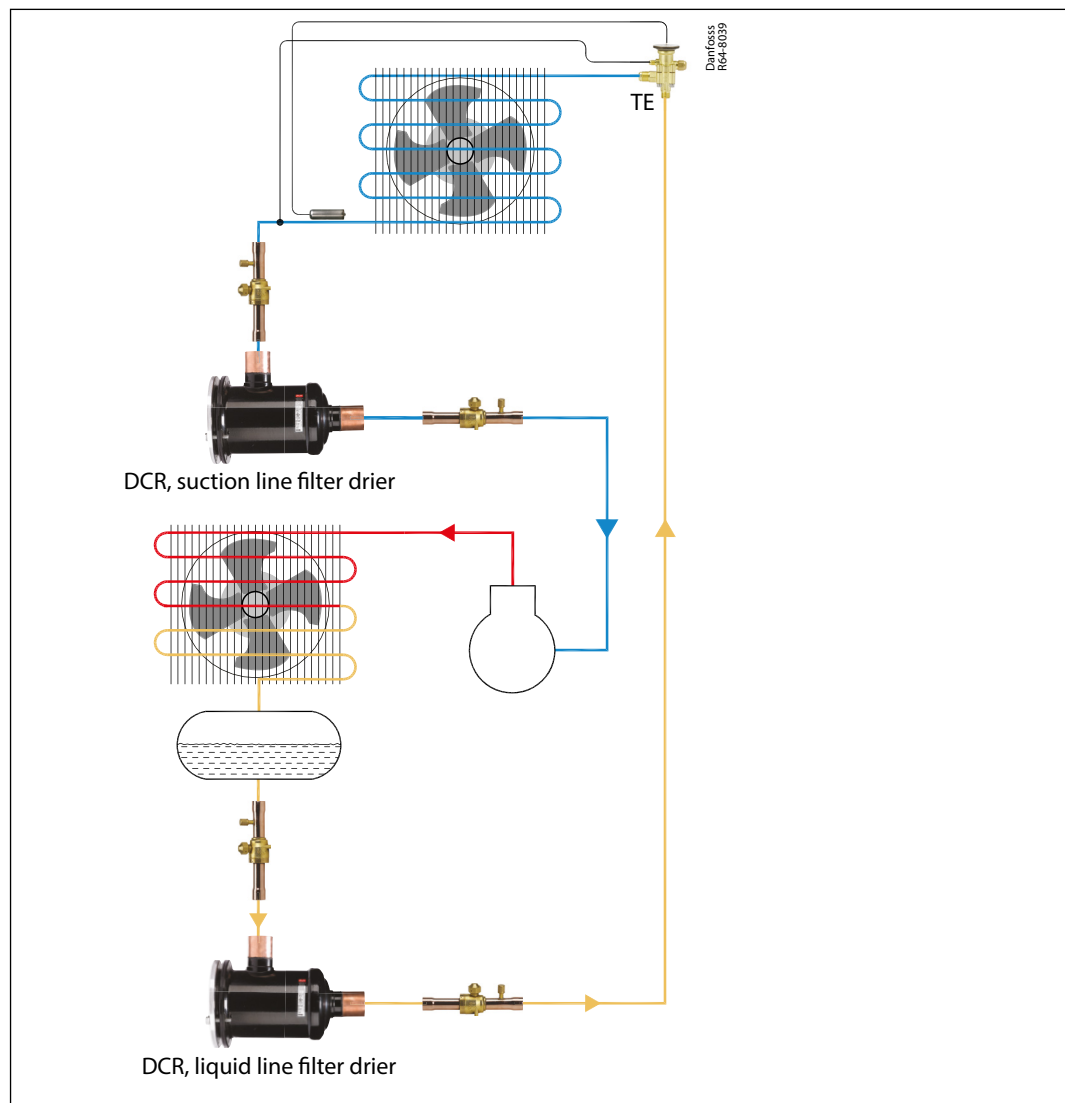
CE marked in accordance with the European Pressure Equipment Directive - 97/23/EC

UL US listed 207 and C22.2 no. 140.3 EN 12284

Introduction

Danfoss ELIMINATOR® filter driers with replaceable solid core, type DCR, protect refrigeration, freezing and air-conditioning systems from moisture, acids, and solid particles.

With these contaminants eliminated, systems are safer from harmful chemical reactions and from abrasive impurities.



Technical data

| Type | Maximum working pressure MWP | Temperature range |
|---------|---------------------------------------|-------------------|
| | [psig] | °F |
| DCR 048 | 667 | - 40 – 160 |
| DCR 096 | 667 | - 40 – 160 |
| DCR 144 | 507 ¹⁾ / 667 ²⁾ | - 40 – 160 |
| DCR 192 | 406 ¹⁾ / 580 ²⁾ | - 40 – 160 |

¹⁾ For usage with strainer or as a receiver application
²⁾ For "drier" application using all the permissible cores

Data sheet | ELIMINATOR® filter drier with replaceable solid core, type DCR

Capacity

Drying and liquid capacity , type 48-DM

| Type | N° of cores | Drying capacity [lb refrigerant] ¹⁾ | | | | | | | | | | Liquid capacity [TR] ²⁾ | | | | | Max. working pressure MWP [psig] |
|-----------|-------------|--|-------|-------|-------|-------|-------|-----------|-------|-------|-------|------------------------------------|-------|-------|-------------|-------|---------------------------------------|
| | | R134a | | R404A | | R507 | | R22/R407C | | R410A | | R134a | R404A | R507 | R22 / R407C | R410A | |
| | | [°F] | | | | | | | | | | | | | | | |
| | | 75 | 125 | 75 | 125 | 75 | 125 | 75 | 125 | 75 | 125 | | | | | | |
| DCR 0485 | 1 | 181.9 | 172.0 | 195.6 | 185.2 | 199.1 | 183.9 | 182.3 | 168.4 | 165.8 | 152.8 | 22.9 | 16.9 | 16.3 | 24.0 | 25.0 | 667 |
| DCR 0487 | 1 | 181.9 | 172.0 | 195.6 | 185.2 | 199.1 | 183.9 | 182.3 | 168.4 | 165.8 | 152.8 | 36.4 | 26.3 | 25.5 | 37.7 | 38.9 | 667 |
| DCR 0489 | 1 | 181.9 | 172.0 | 195.6 | 185.2 | 199.1 | 183.9 | 182.3 | 168.4 | 165.8 | 152.8 | 52.4 | 37.7 | 36.5 | 54.1 | 55.7 | 667 |
| DCR 04811 | 1 | 181.9 | 172.0 | 195.6 | 185.2 | 199.1 | 183.9 | 182.3 | 168.4 | 165.8 | 152.8 | 70.9 | 51.3 | 49.7 | 73.5 | 75.9 | 667 |
| DCR 04813 | 1 | 181.9 | 172.0 | 195.6 | 185.2 | 199.1 | 183.9 | 182.3 | 168.4 | 165.8 | 152.8 | 86.5 | 63.1 | 61.2 | 90.2 | 93.4 | 667 |
| DCR 04817 | 1 | 181.9 | 172.0 | 195.6 | 185.2 | 199.1 | 183.9 | 182.3 | 168.4 | 165.8 | 152.8 | 123.5 | 92.2 | 89.4 | 130.6 | 136.7 | 667 |
| DCR 04821 | 1 | 181.9 | 172.0 | 195.6 | 185.2 | 199.1 | 183.9 | 182.3 | 168.4 | 165.8 | 152.8 | 91.1 | 66.7 | 64.6 | 95.1 | 98.6 | 667 |
| DCR 0967 | 2 | 363.8 | 341.7 | 390.9 | 370.6 | 397.9 | 367.7 | 364.4 | 336.9 | 331.8 | 305.8 | 34.0 | 24.4 | 23.6 | 35.0 | 36.0 | 667 |
| DCR 0969 | 2 | 363.8 | 341.7 | 390.9 | 370.6 | 397.9 | 367.7 | 364.4 | 336.9 | 331.8 | 305.8 | 53.9 | 38.8 | 37.5 | 55.6 | 57.2 | 667 |
| DCR 09611 | 2 | 363.8 | 341.7 | 390.9 | 370.6 | 397.9 | 367.7 | 364.4 | 336.9 | 331.8 | 305.8 | 73.8 | 53.2 | 51.6 | 76.4 | 78.7 | 667 |
| DCR 09613 | 2 | 363.8 | 341.7 | 390.9 | 370.6 | 397.9 | 367.7 | 364.4 | 336.9 | 331.8 | 305.8 | 94.4 | 68.5 | 66.3 | 98.0 | 101.3 | 667 |
| DCR 09617 | 2 | 363.8 | 341.7 | 390.9 | 370.6 | 397.9 | 367.7 | 364.4 | 336.9 | 331.8 | 305.8 | 135.7 | 99.3 | 96.2 | 141.7 | 146.9 | 667 |
| DCR 1449 | 3 | 545.6 | 515.7 | 586.4 | 557.1 | 597.0 | 551.4 | 546.7 | 505.1 | 497.6 | 458.6 | 52.4 | 37.7 | 36.5 | 54.2 | 55.7 | 507 ³⁾ / 667 ⁴⁾ |
| DCR 14411 | 3 | 545.6 | 515.7 | 586.4 | 557.1 | 597.0 | 551.4 | 546.7 | 505.1 | 497.6 | 458.6 | 77.5 | 56.0 | 54.2 | 80.2 | 82.7 | 507 ³⁾ / 667 ⁴⁾ |
| DCR 14413 | 3 | 545.6 | 515.7 | 586.4 | 557.1 | 597.0 | 551.4 | 546.7 | 505.1 | 497.6 | 458.6 | 96.7 | 70.2 | 68.0 | 100.4 | 103.8 | 507 ³⁾ / 667 ⁴⁾ |
| DCR 14417 | 3 | 545.6 | 515.7 | 586.4 | 557.1 | 597.0 | 551.4 | 546.7 | 505.1 | 497.6 | 458.6 | 125.8 | 91.8 | 89.0 | 131.2 | 135.9 | 507 ³⁾ / 667 ⁴⁾ |
| DCR 19211 | 4 | 727.3 | 687.6 | 782.0 | 741.2 | 795.9 | 735.2 | 728.8 | 673.5 | 663.4 | 610.7 | 82.5 | 60.2 | 58.3 | 86.0 | 89.0 | 406 ³⁾ / 580 ⁴⁾ |
| DCR 19213 | 4 | 727.3 | 687.6 | 782.0 | 741.2 | 795.9 | 735.2 | 728.8 | 673.5 | 663.4 | 610.7 | 102.3 | 74.4 | 72.1 | 106.4 | 110.0 | 406 ³⁾ / 580 ⁴⁾ |
| DCR 19217 | 4 | 727.3 | 687.6 | 782.0 | 741.2 | 795.9 | 735.2 | 728.8 | 673.5 | 663.4 | 610.7 | 125.8 | 91.5 | 88.6 | 130.9 | 135.3 | 406 ³⁾ / 580 ⁴⁾ |
| DCR 19221 | 4 | 727.3 | 687.6 | 782.0 | 741.2 | 795.9 | 735.2 | 728.8 | 673.5 | 663.4 | 610.7 | 143.8 | 104.1 | 100.8 | 149.1 | 153.8 | 406 ³⁾ / 580 ⁴⁾ |

Drying and liquid capacity , type 48-DC

| Type | N° of cores | Drying capacity [lb refrigerant] ¹⁾ | | | | | | | | | | Liquid capacity [TR] ²⁾ | | | | | Max. working pressure MWP [psig] |
|-----------|-------------|--|-------|-------|-------|-------|-------|-----------|-------|-------|-------|------------------------------------|-------|-------|-------------|-------|---------------------------------------|
| | | R134a | | R404A | | R507 | | R22/R407C | | R410A | | R134a | R404A | R507 | R22 / R407C | R410A | |
| | | [°F] | | | | | | | | | | | | | | | |
| | | 75 | 125 | 75 | 125 | 75 | 125 | 75 | 125 | 75 | 125 | | | | | | |
| DCR 0485 | 1 | 142.6 | 134.9 | 153.4 | 145.3 | 156.1 | 144.2 | 143.1 | 132.1 | 130.1 | 119.9 | 22.9 | 16.9 | 16.3 | 24.0 | 25.0 | 667 |
| DCR 0487 | 1 | 142.6 | 134.9 | 153.4 | 145.3 | 156.1 | 144.2 | 143.1 | 132.1 | 130.1 | 119.9 | 36.4 | 26.3 | 25.5 | 37.7 | 38.9 | 667 |
| DCR 0489 | 1 | 142.6 | 134.9 | 153.4 | 145.3 | 156.1 | 144.2 | 143.1 | 132.1 | 130.1 | 119.9 | 52.4 | 37.7 | 36.5 | 54.1 | 55.7 | 667 |
| DCR 04811 | 1 | 142.6 | 134.9 | 153.4 | 145.3 | 156.1 | 144.2 | 143.1 | 132.1 | 130.1 | 119.9 | 70.9 | 51.3 | 49.7 | 73.5 | 75.9 | 667 |
| DCR 04813 | 1 | 142.6 | 134.9 | 153.4 | 145.3 | 156.1 | 144.2 | 143.1 | 132.1 | 130.1 | 119.9 | 86.5 | 63.1 | 61.2 | 90.2 | 93.4 | 667 |
| DCR 04817 | 1 | 142.6 | 134.9 | 153.4 | 145.3 | 156.1 | 144.2 | 143.1 | 132.1 | 130.1 | 119.9 | 123.5 | 92.2 | 89.4 | 130.6 | 136.7 | 667 |
| DCR 04821 | 1 | 142.6 | 134.9 | 153.4 | 145.3 | 156.1 | 144.2 | 143.1 | 132.1 | 130.1 | 119.9 | 91.1 | 66.7 | 64.6 | 95.1 | 98.6 | 667 |
| DCR 0967 | 2 | 285.3 | 269.6 | 306.7 | 290.8 | 312.2 | 288.4 | 285.9 | 264.3 | 260.4 | 239.9 | 34.0 | 24.4 | 23.6 | 35.0 | 36.0 | 667 |
| DCR 0969 | 2 | 285.3 | 269.6 | 306.7 | 290.8 | 312.2 | 288.4 | 285.9 | 264.3 | 260.4 | 239.9 | 53.9 | 38.8 | 37.5 | 55.6 | 57.2 | 667 |
| DCR 09611 | 2 | 285.3 | 269.6 | 306.7 | 290.8 | 312.2 | 288.4 | 285.9 | 264.3 | 260.4 | 239.9 | 73.8 | 53.2 | 51.6 | 76.4 | 78.7 | 667 |
| DCR 09613 | 2 | 285.3 | 269.6 | 306.7 | 290.8 | 312.2 | 288.4 | 285.9 | 264.3 | 260.4 | 239.9 | 94.4 | 68.5 | 66.3 | 98.0 | 101.3 | 667 |
| DCR 09617 | 2 | 285.3 | 269.6 | 306.7 | 290.8 | 312.2 | 288.4 | 285.9 | 264.3 | 260.4 | 239.9 | 135.7 | 99.3 | 96.2 | 141.7 | 146.9 | 667 |
| DCR 1449 | 3 | 427.9 | 404.5 | 460.1 | 436.1 | 468.3 | 432.5 | 429.0 | 396.4 | 390.4 | 357.6 | 52.4 | 37.7 | 36.5 | 54.2 | 55.7 | 507 ³⁾ / 667 ⁴⁾ |
| DCR 14411 | 3 | 427.9 | 404.5 | 460.1 | 436.1 | 468.3 | 432.5 | 429.0 | 396.4 | 390.4 | 357.6 | 77.5 | 56.0 | 54.2 | 80.2 | 82.7 | 507 ³⁾ / 667 ⁴⁾ |
| DCR 14413 | 3 | 427.9 | 404.5 | 460.1 | 436.1 | 468.3 | 432.5 | 429.0 | 396.4 | 390.4 | 357.6 | 96.7 | 70.2 | 68.0 | 100.4 | 103.8 | 507 ³⁾ / 667 ⁴⁾ |
| DCR 14417 | 3 | 427.9 | 404.5 | 460.1 | 436.1 | 468.3 | 432.5 | 429.0 | 396.4 | 390.4 | 357.6 | 125.8 | 91.8 | 89.0 | 131.2 | 135.9 | 507 ³⁾ / 667 ⁴⁾ |
| DCR 19211 | 4 | 570.8 | 539.5 | 613.5 | 581.6 | 624.3 | 576.9 | 571.9 | 528.4 | 520.5 | 479.7 | 82.5 | 60.2 | 58.3 | 86.0 | 89.0 | 406 ³⁾ / 580 ⁴⁾ |
| DCR 19213 | 4 | 570.8 | 539.5 | 613.5 | 581.6 | 624.3 | 576.9 | 571.9 | 528.4 | 520.5 | 479.7 | 102.3 | 74.4 | 72.1 | 106.4 | 110.0 | 406 ³⁾ / 580 ⁴⁾ |
| DCR 19217 | 4 | 570.8 | 539.5 | 613.5 | 581.6 | 624.3 | 576.9 | 571.9 | 528.4 | 520.5 | 479.7 | 125.8 | 91.5 | 88.6 | 130.9 | 135.3 | 406 ³⁾ / 580 ⁴⁾ |
| DCR 19221 | 4 | 570.8 | 539.5 | 613.5 | 581.6 | 624.3 | 576.9 | 571.9 | 528.4 | 520.5 | 479.7 | 143.8 | 104.1 | 100.8 | 149.1 | 153.8 | 406 ³⁾ / 580 ⁴⁾ |

¹⁾ Drying capacity is based on following moisture content test standards before and after drying:
 - R134a: 1050 – 50 ppm W
 - R404A, R507: 1020 – 50 ppm W
 - R407C: 1020 – 50 ppm W
 - R410A: 1050 – 50 ppm W
 - R22: 1050 – 60 ppm W
 In accordance with ARI 710-2004

²⁾ Given in accordance with ARI 710-2004 for:
 - t_e = 5 °F
 - t_e = 85 °F
 - Δp = 1 psig

³⁾ For usage with strainer or as a receiver application

⁴⁾ For "drier" application using all the permissible cores

Refrigerants other than specified in the table please contact Danfoss for the approval .

Capacity (continued)

Drying and acid capacity, type 48-DA

| Type | Number of cores | Drying capacity [g of water] ¹⁾ | | | | | | | | | | | | Acid capacity ²⁾ |
|---------|-----------------|---|----|----|-------|-----|-----|--------------|-----|----|-------|-----|-----|-----------------------------|
| | | Evaporating temperature t _e [°F] | | | | | | | | | | | | |
| | | -40 | -4 | 40 | -22 | -4 | 40 | -40 | -4 | 40 | -40 | -4 | 40 | |
| | | R22 / R407C | | | R134a | | | R404A / R507 | | | R410A | | | |
| DCR 048 | 1 | 28 | 19 | 12 | 45 | 38 | 27 | 47 | 30 | 19 | 42 | 35 | 25 | 0.94 |
| DCR 096 | 2 | 56 | 37 | 24 | 90 | 77 | 54 | 94 | 60 | 37 | 84 | 70 | 50 | 1.88 |
| DCR 144 | 3 | 84 | 56 | 36 | 135 | 115 | 81 | 142 | 90 | 56 | 126 | 105 | 75 | 2.82 |
| DCR 192 | 4 | 112 | 74 | 48 | 180 | 153 | 108 | 189 | 120 | 75 | 168 | 140 | 100 | 3.76 |

¹⁾ Drying capacity is expressed during drying in:

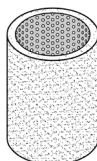
- R22: EPD = 10 ppm W, corresponding to a dew point temperature = -58 °F
- R134a: EPD = 50 ppm W, corresponding to a dew point temperature = -34.6 °F
- R404A: EPD = 10 ppm W, corresponding to a dew point temperature = -40 °F
- R407C: EPD = 10 ppm W, corresponding to a dew point temperature = -40 °F

²⁾ Adsorption capacity of oleic acid at 0.05 TAN (Total Acid Number)

Recommended plant capacity in suction line - burn-out, type 48-DA

| Type | Recommended plant capacity [TR] | | | | | | | | | | | | | | | | | |
|-----------|---|------|------|-------|-----|------|--------------|------|------|-------|------|------|------|--|--|------|--|--|
| | Evaporating temperature t _e [°F] | | | | | | | | | | | | | | | | | |
| | -40 | -4 | 40 | -22 | -4 | 40 | -40 | -4 | 40 | -40 | -4 | 40 | | | | | | |
| | 0.58 | | | 1 | | | 2.03 | | | 0.58 | | | 1.45 | | | 3.05 | | |
| | R22 / R407C | | | R134a | | | R404A / R507 | | | R410A | | | | | | | | |
| DCR 0485 | 0.9 | 2.5 | 6.0 | 0.9 | 1.5 | 3.7 | 0.7 | 2.0 | 5.0 | 0.9 | 2.5 | 6.0 | | | | | | |
| DCR 0487 | 1.6 | 4.6 | 10.7 | 1.6 | 2.8 | 6.7 | 1.3 | 3.7 | 8.9 | 1.6 | 4.6 | 10.7 | | | | | | |
| DCR 0489 | 2.2 | 6.1 | 14.4 | 2.1 | 3.8 | 9.0 | 1.7 | 4.9 | 11.9 | 2.2 | 6.1 | 14.4 | | | | | | |
| DCR 04811 | 2.8 | 7.8 | 18.0 | 2.7 | 4.8 | 11.2 | 2.2 | 6.2 | 14.8 | 2.8 | 7.8 | 18.0 | | | | | | |
| DCR 04813 | 2.8 | 7.8 | 18.0 | 2.7 | 4.8 | 11.2 | 2.2 | 6.2 | 14.8 | 2.8 | 7.8 | 18.0 | | | | | | |
| DCR 04817 | 2.8 | 7.8 | 18.0 | 2.7 | 4.8 | 11.2 | 2.2 | 6.2 | 14.8 | 2.8 | 7.8 | 18.0 | | | | | | |
| DCR 04821 | 2.8 | 7.8 | 18.0 | 2.7 | 4.8 | 11.2 | 2.2 | 6.2 | 14.8 | 2.8 | 7.8 | 18.0 | | | | | | |
| DCR 0965 | 0.9 | 2.6 | 6.1 | 0.9 | 1.6 | 3.8 | 0.7 | 2.1 | 5.1 | 0.9 | 2.6 | 6.1 | | | | | | |
| DCR 0967 | 1.6 | 4.6 | 10.8 | 1.6 | 2.8 | 6.7 | 1.3 | 3.7 | 8.9 | 1.6 | 4.6 | 10.8 | | | | | | |
| DCR 0969 | 2.5 | 7.0 | 16.6 | 2.4 | 4.3 | 10.2 | 1.9 | 5.6 | 13.7 | 2.5 | 7.0 | 16.6 | | | | | | |
| DCR 09611 | 3.4 | 9.5 | 22.5 | 3.2 | 5.8 | 13.9 | 2.6 | 7.6 | 18.6 | 3.4 | 9.5 | 22.5 | | | | | | |
| DCR 09613 | 4.0 | 11.3 | 27.1 | 3.9 | 6.9 | 16.6 | 3.1 | 9.1 | 22.4 | 4.0 | 11.3 | 27.1 | | | | | | |
| DCR 09617 | 4.0 | 11.3 | 27.1 | 3.9 | 6.9 | 16.6 | 3.1 | 9.1 | 22.4 | 4.0 | 11.3 | 27.1 | | | | | | |
| DCR 09621 | 4.0 | 11.3 | 27.1 | 3.9 | 6.9 | 16.6 | 3.1 | 9.1 | 22.4 | 4.0 | 11.3 | 27.1 | | | | | | |
| DCR 1445 | 1.0 | 2.8 | 6.5 | 1.0 | 1.7 | 4.0 | 0.8 | 2.2 | 5.4 | 1.0 | 2.8 | 6.5 | | | | | | |
| DCR 1447 | 1.9 | 5.4 | 12.2 | 1.8 | 3.2 | 7.5 | 1.5 | 4.1 | 10.1 | 1.9 | 5.4 | 12.2 | | | | | | |
| DCR 1449 | 2.5 | 7.1 | 16.3 | 2.4 | 4.3 | 10.0 | 1.9 | 5.5 | 13.5 | 2.5 | 7.1 | 16.3 | | | | | | |
| DCR 14411 | 3.8 | 10.8 | 26.2 | 3.6 | 6.5 | 16.0 | 2.9 | 8.7 | 21.8 | 3.8 | 10.8 | 26.2 | | | | | | |
| DCR 14413 | 3.8 | 10.8 | 26.2 | 3.6 | 6.5 | 16.0 | 2.9 | 8.7 | 21.8 | 3.8 | 10.8 | 26.2 | | | | | | |
| DCR 14417 | 3.8 | 10.8 | 26.2 | 3.6 | 6.5 | 16.0 | 2.9 | 8.7 | 21.8 | 3.8 | 10.8 | 26.2 | | | | | | |
| DCR 14421 | 3.8 | 10.8 | 26.2 | 3.6 | 6.5 | 16.0 | 2.9 | 8.7 | 21.8 | 3.8 | 10.8 | 26.2 | | | | | | |
| DCR 1925 | 1.2 | 3.3 | 7.8 | 1.1 | 2.0 | 4.8 | 0.9 | 2.6 | 6.5 | 1.2 | 3.3 | 7.8 | | | | | | |
| DCR 1927 | 2.2 | 6.1 | 14.6 | 2.2 | 3.8 | 9.0 | 1.7 | 4.9 | 12.1 | 2.2 | 6.1 | 14.6 | | | | | | |
| DCR 1929 | 3.0 | 8.2 | 19.6 | 2.9 | 5.1 | 12.0 | 2.3 | 6.6 | 16.3 | 3.0 | 8.2 | 19.6 | | | | | | |
| DCR 19211 | 4.2 | 11.9 | 28.3 | 4.1 | 7.3 | 17.4 | 3.3 | 9.6 | 23.4 | 4.2 | 11.9 | 28.3 | | | | | | |
| DCR 19213 | 5.1 | 14.5 | 34.7 | 4.9 | 8.8 | 21.3 | 4.0 | 11.7 | 28.7 | 5.1 | 14.5 | 34.7 | | | | | | |
| DCR 19217 | 5.1 | 14.5 | 34.7 | 4.9 | 8.8 | 21.3 | 4.0 | 11.7 | 28.7 | 5.1 | 14.5 | 34.7 | | | | | | |
| DCR 19221 | 5.1 | 14.5 | 34.7 | 4.9 | 8.8 | 21.3 | 4.0 | 11.7 | 28.7 | 5.1 | 14.5 | 34.7 | | | | | | |

 Data given in accordance with ARI-Standard 710-2004 for t_e = 40 °F; t_c = 90 °F

Strainer mounted in suction line, type 48-F


| Refrigerant | R22 / R407C | | | R134a | | | R404A / R507 | | | R410A | | |
|----------------------------------|-------------|------|------|-------|----|------|--------------|------|------|-------|------|------|
| Evaporating temperature [°F] | -40 | -4 | 40 | -22 | -4 | 40 | -40 | -4 | 40 | -40 | -4 | 40 |
| Pressure drop Δp [psig] | 0.58 | 1.45 | 3.05 | 0.58 | 1 | 2.03 | 0.58 | 1.45 | 3.05 | 0.58 | 1.45 | 3.05 |
| Recommended system capacity [TR] | 4 | 13 | 32 | 4 | 8 | 20 | 3 | 11 | 26 | 4 | 13 | 32 |

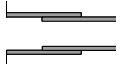
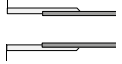
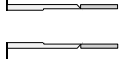
Strainer mounted in liquid line

| Refrigerant | R22 / R407C | R134a | R404A / R507 | R410A |
|----------------------------------|-------------|-------|--------------|-------|
| Recommended system capacity [TR] | 111 | 100 | 74 | 111 |

The data given apply to DCR 04811 with 48-F core

 Liquid capacity is given in accordance with ARI 710-2004 for:
 t_e = 5 °F; t_c = 86 °F; Δp = 1 psig

Data sheet | ELIMINATOR® filter drier with replaceable solid core, type DCR
Type of connector and recommended soldering material

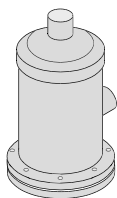
| | |
|---|--|
|  | Copper ODF solder connector Copper pipe |
|  | Steel ODF solder connector Copper pipe |
|  | Steel butt weld connector Steel pipe |

| Solder connector | Recommended soldering material |
|------------------|--------------------------------|
| Copper | Min. 5 % Ag |
| Steel | Silver-flo 55 + Easy-flow flux |

Ordering

DCR housing and insert are ordered separately.

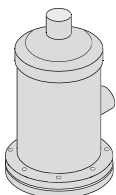
Select housing and top cover with all internal parts assembled from table 1 or 2 and required number of inserts from table 3.


Table 1. Housing with copper connectors + top cover

| Type | Number of cores | Copper connectors | | Cover type | Max. working pressure MWP [psig] | Code number |
|------------|-----------------|-------------------|------|------------|---------------------------------------|-------------|
| | | Solder ODF | | | | |
| | | [in.] | [mm] | | | |
| DCR 0485s | 1 | 5/8 | 16 | Plug | 667 | 023U7250 |
| DCR 0487s | 1 | 7/8 | 22 | Plug | 667 | 023U7251 |
| DCR 0487s | 1 | 7/8 | 22 | – | 667 | 023U7571 |
| DCR 0489s | 1 | – | 28 | Plug | 667 | 023U7252 |
| DCR 0489s | 1 | 1 1/8 | – | Plug | 667 | 023U7253 |
| DCR 0489s | 1 | – | 28 | – | 667 | 023U7268 |
| DCR 04811s | 1 | 1 3/8 | 35 | Plug | 667 | 023U7254 |
| DCR 04813s | 1 | 1 3/8 | – | Plug | 667 | 023U7255 |
| DCR 04813s | 1 | – | 42 | Plug | 667 | 023U7256 |
| DCR 04813s | 1 | – | 42 | – | 667 | 023U7303 |
| DCR 04817s | 1 | 2 1/8 | 54 | Plug | 667 | 023U7257 |
| DCR 04821s | 1 | 2 5/8 | – | Plug | 667 | 023U7276 |
| DCR 0967s | 2 | 7/8 | 22 | Plug | 667 | 023U7258 |
| DCR 0969s | 2 | – | 28 | Plug | 667 | 023U7259 |
| DCR 0969s | 2 | 1 1/8 | – | Plug | 667 | 023U7260 |
| DCR 0969s | 2 | 1 1/8 | – | – | 667 | 023U7278 |
| DCR 09611s | 2 | 1 3/8 | 35 | Plug | 667 | 023U7261 |
| DCR 09613s | 2 | 1 3/8 | – | Plug | 667 | 023U7262 |
| DCR 09613s | 2 | – | 42 | Plug | 667 | 023U7263 |
| DCR 09613s | 2 | – | 42 | – | 667 | 023U7463 |
| DCR 09617s | 2 | 2 1/8 | 54 | Plug | 667 | 023U7264 |
| DCR 09617s | 2 | 2 1/8 | 54 | – | 667 | 023U7290 |
| DCR 09621s | 2 | 2 5/8 | – | Plug | 667 | 023U7281 |
| DCR 1449s | 3 | – | 28 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7265 |
| DCR 14411s | 3 | 1 3/8 | 35 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7267 |
| DCR 14411s | 3 | 1 3/8 | – | – | 507 ¹⁾ / 667 ²⁾ | 023U7275 |
| DCR 14413s | 3 | 1 3/8 | – | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7282 |
| DCR 14413s | 3 | – | 42 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7269 |
| DCR 14413s | 3 | 1 3/8 | 42 | – | 507 ¹⁾ / 667 ²⁾ | 023U7297 |
| DCR 14417s | 3 | 2 1/8 | 54 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7270 |
| DCR 19211s | 4 | 1 3/8 | – | – | 406 ¹⁾ / 580 ²⁾ | 023U7083 |
| DCR 19213s | 4 | 1 3/8 | – | Plug | 406 ¹⁾ / 580 ²⁾ | 023U7272 |
| DCR 19213s | 4 | – | 42 | Plug | 406 ¹⁾ / 580 ²⁾ | 023U7273 |
| DCR 19213s | 4 | 1 3/8 | – | – | 406 ¹⁾ / 580 ²⁾ | 023U7082 |
| DCR 19217s | 4 | 2 1/8 | 54 | Plug | 406 ¹⁾ / 580 ²⁾ | 023U7274 |
| DCR 30013s | 3 | 1 3/8 | – | Plug | 507 | 023Z4000 |
| DCR 30017s | 3 | 2 1/8 | 54 | Plug | 507 | 023Z4001 |
| DCR 30021s | 3 | 2 5/8 | – | Plug | 507 | 023Z4002 |
| DCR 40017s | 4 | 2 1/8 | 54 | Plug | 507 | 023Z4003 |
| DCR 40021s | 4 | 2 5/8 | – | Plug | 507 | 023Z4004 |

¹⁾ For usage with strainer or as a receiver application

²⁾ For "drier" application using all the permissible cores

Ordering (continued)

Table 2. Housing with steel connectors + top cover

| Type | Number of cores | Steel connectors | | | Cover type | Max. working pressure MWP [psig] | Code number |
|-----------|-----------------|------------------|------|-----------------|------------|---------------------------------------|-------------|
| | | Solder ODF | | Butt weld [in.] | | | |
| | | [in.] | [mm] | | | | |
| DCR 0485 | 1 | 3/8 | 16 | 1/2 | Plug | 667 | 023U7050 |
| DCR 0487 | 1 | 7/8 | 22 | 3/4 | Plug | 667 | 023U7051 |
| DCR 0487 | 1 | 7/8 | 22 | 3/4 | - | 667 | 023U7151 |
| DCR 0489 | 1 | - | 28 | 1 | Plug | 667 | 023U7052 |
| DCR 0489 | 1 | 1 1/8 | - | 1 | Plug | 667 | 023U7053 |
| DCR 04811 | 1 | 1 3/8 | 35 | 1 1/4 | Plug | 667 | 023U7054 |
| DCR 04813 | 1 | 1 3/8 | - | 1 1/2 | Plug | 667 | 023U7055 |
| DCR 04813 | 1 | - | 42 | 1 1/2 | Plug | 667 | 023U7056 |
| DCR 04817 | 1 | 2 1/8 | 54 | 2 | Plug | 667 | 023U7057 |
| DCR 04821 | 1 | 2 3/8 | - | 2 1/2 | Plug | 667 | 023U7076 |
| DCR 0967 | 2 | 7/8 | 22 | 3/4 | Plug | 667 | 023U7058 |
| DCR 0969 | 2 | - | 28 | 1 | Plug | 667 | 023U7059 |
| DCR 0969 | 2 | 1 1/8 | - | 1 | Plug | 667 | 023U7060 |
| DCR 09611 | 2 | 1 3/8 | 35 | 1 1/4 | Plug | 667 | 023U7061 |
| DCR 09611 | 2 | 1 3/8 | 35 | 1 1/4 | - | 667 | 023U7161 |
| DCR 09613 | 2 | 1 3/8 | - | 1 1/2 | Plug | 667 | 023U7062 |
| DCR 09613 | 2 | - | 42 | 1 1/2 | Plug | 667 | 023U7063 |
| DCR 09617 | 2 | 2 1/8 | 54 | 2 | Plug | 667 | 023U7064 |
| DCR 1449 | 3 | - | 28 | 1 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7065 |
| DCR 1449 | 3 | 1 1/8 | - | 1 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7066 |
| DCR 14411 | 3 | 1 3/8 | 35 | 1 1/4 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7067 |
| DCR 14413 | 3 | 1 3/8 | - | 1 1/2 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7068 |
| DCR 14413 | 3 | - | 42 | 1 1/2 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7069 |
| DCR 14417 | 3 | 2 1/8 | 54 | 2 | Plug | 507 ¹⁾ / 667 ²⁾ | 023U7070 |
| DCR 19211 | 4 | 1 3/8 | 35 | 1 1/4 | Plug | 406 ¹⁾ / 580 ²⁾ | 023U7071 |
| DCR 19213 | 4 | 1 3/8 | - | 1 1/2 | Plug | 406 ¹⁾ / 580 ²⁾ | 023U7072 |
| DCR 19213 | 4 | - | 42 | 1 1/2 | Plug | 406 ¹⁾ / 580 ²⁾ | 023U7073 |
| DCR 19217 | 4 | 2 1/8 | 54 | 2 | Plug | 406 ¹⁾ / 580 ²⁾ | 023U7074 |
| DCR 19221 | 4 | 2 3/8 | - | 2 1/2 | Plug | 406 ¹⁾ / 580 ²⁾ | 023U7086 |

¹⁾ For usage with strainer or as a receiver application
²⁾ For "drier" application using all the permissible cores

Table 3. Type DCR, inserts

| Type | Material | Code number | | |
|---------------------------------|--|--------------------------|----------------|---------------------|
| | | Industrial pack (8 pcs.) | | Multi pack (3 pcs.) |
| | | with gasket | without gasket | with gasket |
| 48-DM solid core | 100% molecular sieve | 023U1392 | 023U1393 | 023U1391 |
| 48-DC solid core | 80% molecular sieve & 20% Al ₂ O ₃ | 023U4381 | 023U4382 | 023U4380 |
| 48-DA solid core | 30% molecular sieve & 70% Al ₂ O ₃ | 023U5381 | 023U5382 | 023U5380 |
| 48-F strainer | Felt-gasket, 15 µm | 023U1921 | - | - |
| Multi pack (6 pcs.) | | | | |
| 100-DM solid core ¹⁾ | 100% molecular sieve | 023U7562 | - | - |
| 100-DC solid core ¹⁾ | 80% molecular sieve & 20% Al ₂ O ₃ | 023U7563 | - | - |

¹⁾ For usage with DCR 300 - 400 housings

Core surface

| | |
|-----------------------------|---------------------|
| DM 048, DC 048 and DA 048 = | 95 in ² |
| DM 096, DC 096 and DA 096 = | 190 in ² |
| DM 144, DC 144 and DA 144 = | 285 in ² |
| DM 192, DC 192 and DA 192 = | 380 in ² |
| 48-F = | 405 in ² |

Core volume

| | |
|-----------------------------|---------------------|
| DM 048, DC 048 and DA 048 = | 44 cm ³ |
| DM 096, DC 096 and DA 096 = | 89 cm ³ |
| DM 144, DC 144 and DA 144 = | 133 cm ³ |
| DM 192, DC 192 and DA 192 = | 178 cm ³ |

Data sheet | ELIMINATOR® filter drier with replaceable solid core, type DCR

Core selection

| Refrigerant and oil types | | DC | DM | DA |
|---------------------------|---|-------------------------------|-------------|-------------|
| Refrigerant | HFC (R134a, R404A, R507, R407C and R410A) | Recommended | Recommended | Recommended |
| | HFO (R1234ze, R407F, R407A) | Recommended | Recommended | Recommended |
| | HCFC (R22) | Recommended | Recommended | Recommended |
| Oil | Mineral or AB | Recommended | Recommended | Recommended |
| | POE or PAG, pure | Recommended | Recommended | Recommended |
| | POE or PAG, with additives | Not recommended ¹⁾ | Recommended | Recommended |

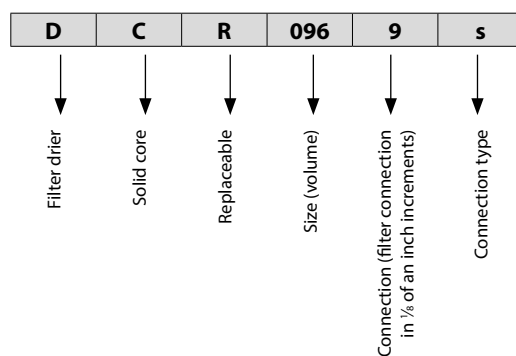
¹⁾ DC filter driers cores contain activated alumina, which is a polar material used for acid adsorption. Many oil additives are also polar substances and can be adsorbed by the activated alumina, rendering them useless, and reducing the drier's acid capacity, though this is not harmful to the system

Identification

Type codes

| Type | Code | Description |
|--|---------|---------------------|
| Filter drier | D | Drier |
| Solid core | C | Solid core |
| | R | Replaceable |
| Size (volume) | 048 | 48 in ³ |
| | 096 | 96 in ³ |
| | 144 | 144 in ³ |
| | 192 | 192 in ³ |
| | 300 | 300 in ³ |
| | 400 | 400 in ³ |
| Connection (filter connection in 1/8 of an inch increments) | 5 | 5/8 in. / 16 mm |
| | 7 | 7/8 in. / 22 mm |
| | 9 | 1 1/8 in. / 28 mm |
| | 11 | 1 1/4 in. / 35 mm |
| | 13 | 1 5/8 in. / 42 mm |
| | 17 | 2 1/8 in. / 54 mm |
| Connection type | (blank) | Steel connectors |
| | s | Copper connectors |

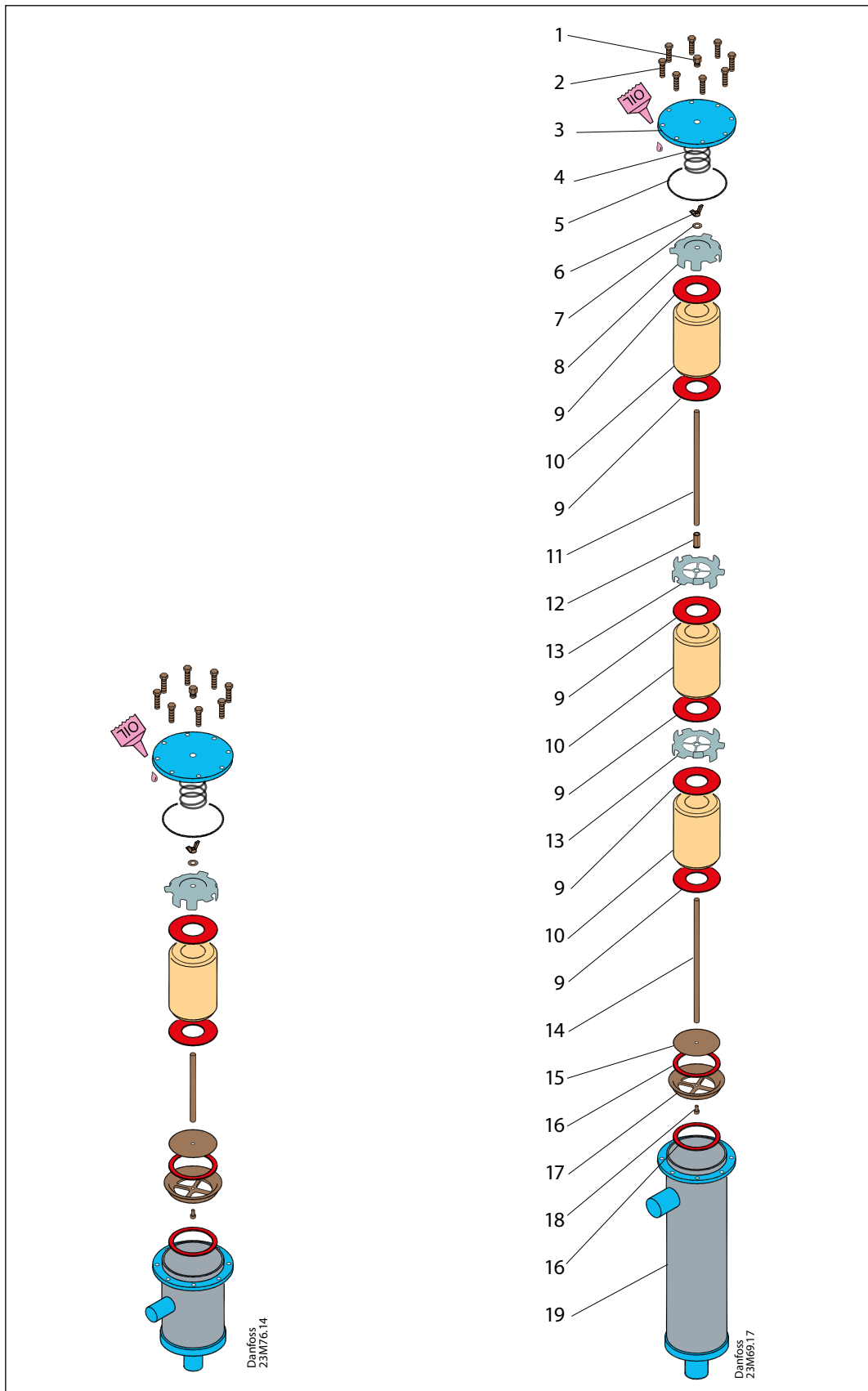
Example for type codes



Design / Function

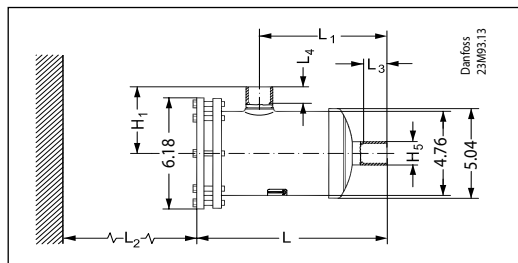
Example:

1. Plug ¼ in. NPT
2. Top cover bolts
M8 × 35, class 10.9
3. Top cover
4. Spring
5. Top cover gasket
ø121.8 × ø113.6 × 0.8 mm
6. Wing nut
M10 (torque max. 3 Nm)
7. Lock washer
8. Top plate
9. Felt gasket
ø95.5 × ø45.5 × 2 mm
10. Solid core
11. Extension rod
12. Extension nut
13. Core plate
14. Distance rod
15. Wire mesh
16. Felt gasket
ø95.5 × ø78 × 2 mm
17. Core holder
18. Hex socket head screw M6
19. Filter drier shell

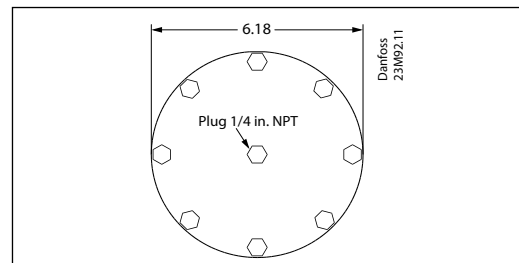


Dimensions and weights

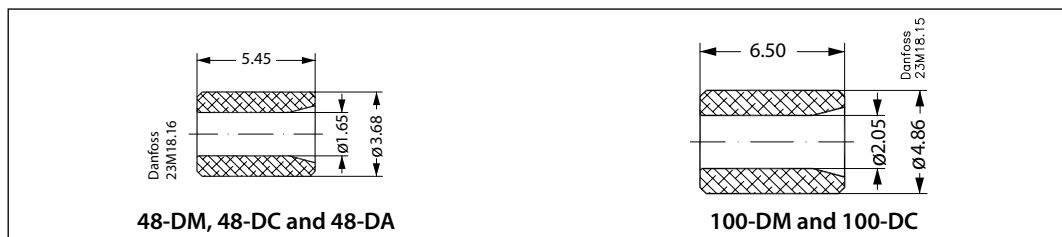
DCR 048 – 192 housing



DCR 048 – 192 top cover



DCR solid core



| Type | N° of cores | DCR with steel connectors | | | | | | | DCR with copper connectors | | | | | | | Net weight ¹⁾ [lb] |
|--------------|-------------|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------------------------|
| | | L | L ₁ | L ₂ | L ₃ | L ₄ | H ₁ | H ₅ | L | L ₁ | L ₂ | L ₃ | L ₄ | H ₁ | H ₅ | |
| | | [in] | [in] | [in] | [in] | [in] | [in] | [in] | [in] | [in] | [in] | [in] | [in] | [in] | [in] | |
| DCR 0485(s) | 1 | 9.56 | 6.41 | 6.69 | 0.47 | 0.47 | 3.81 | 0.83 | 10.23 | 7.07 | 6.69 | 0.47 | 0.47 | 4.44 | 0.75 | 11.5 |
| DCR 0487(s) | 1 | 9.33 | 6.17 | 6.69 | 0.67 | 0.67 | 3.56 | 1.06 | 10.22 | 7.06 | 6.69 | 0.67 | 0.67 | 4.44 | 0.98 | 11.5 |
| DCR 0489(s) | 1 | 9.46 | 6.31 | 6.69 | 0.87 | 0.87 | 3.71 | 1.34 | 10.31 | 7.15 | 6.69 | 0.79 | 0.79 | 4.56 | 1.26 | 11.5 |
| DCR 0489(s) | 1 | 9.46 | 6.31 | 6.69 | 0.87 | 0.87 | 3.71 | 1.34 | 10.31 | 7.15 | 6.69 | 0.79 | 0.79 | 4.56 | 1.26 | 11.5 |
| DCR 04811(s) | 1 | 9.56 | 6.40 | 6.69 | 0.98 | 0.98 | 3.83 | 1.65 | 10.41 | 7.25 | 6.69 | 0.98 | 0.98 | 4.68 | 1.54 | 11.5 |
| DCR 04813(s) | 1 | 9.76 | 6.61 | 6.69 | 1.14 | 1.14 | 4.07 | 1.89 | 10.45 | 7.30 | 6.69 | 1.14 | 1.14 | 4.76 | 1.81 | 11.5 |
| DCR 04813(s) | 1 | 9.76 | 6.61 | 6.69 | 1.14 | 1.14 | 4.07 | 1.89 | 10.45 | 7.30 | 6.69 | 1.14 | 1.14 | 4.76 | 1.81 | 11.5 |
| DCR 04817(s) | 1 | 9.99 | 6.83 | 6.69 | 1.30 | 1.30 | 4.36 | 2.36 | 10.54 | 7.38 | 6.69 | 1.34 | 1.34 | 4.91 | 2.28 | 11.5 |
| DCR 04821(s) | 1 | 10.10 | 6.94 | 6.69 | 1.50 | 1.50 | 4.56 | 2.87 | 10.61 | 7.45 | 6.69 | 1.34 | 1.34 | 5.07 | 2.80 | 11.5 |
| DCR 0965(s) | 2 | 15.04 | 11.88 | 12.20 | 0.47 | 0.47 | 3.81 | 0.83 | 15.70 | 12.55 | 12.20 | 0.47 | 0.47 | 4.44 | 0.75 | 14.6 |
| DCR 0967(s) | 2 | 14.80 | 11.65 | 12.20 | 0.67 | 0.67 | 3.56 | 1.06 | 15.69 | 12.53 | 12.20 | 0.67 | 0.67 | 4.44 | 0.98 | 14.6 |
| DCR 0969(s) | 2 | 14.94 | 11.78 | 12.20 | 0.87 | 0.87 | 3.71 | 1.34 | 15.78 | 12.63 | 12.20 | 0.79 | 0.79 | 4.56 | 1.26 | 14.6 |
| DCR 0969(s) | 2 | 14.94 | 11.78 | 12.20 | 0.87 | 0.87 | 3.71 | 1.34 | 15.78 | 12.63 | 12.20 | 0.79 | 0.79 | 4.56 | 1.26 | 14.6 |
| DCR 09611(s) | 2 | 15.03 | 11.87 | 12.20 | 0.98 | 0.98 | 3.83 | 1.65 | 15.88 | 12.72 | 12.20 | 0.98 | 0.98 | 4.68 | 1.54 | 14.6 |
| DCR 09613(s) | 2 | 15.24 | 12.08 | 12.20 | 1.14 | 1.14 | 4.07 | 1.89 | 15.93 | 12.77 | 12.20 | 1.14 | 1.14 | 4.76 | 1.81 | 14.6 |
| DCR 09613(s) | 2 | 15.24 | 12.08 | 12.20 | 1.14 | 1.14 | 4.07 | 1.89 | 15.93 | 12.77 | 12.20 | 1.14 | 1.14 | 4.76 | 1.81 | 14.6 |
| DCR 09617(s) | 2 | 15.46 | 12.30 | 12.20 | 1.30 | 1.30 | 4.36 | 2.36 | 16.01 | 12.85 | 12.20 | 1.34 | 1.34 | 4.91 | 2.28 | 14.6 |
| DCR 09621(s) | 2 | 15.57 | 12.41 | 12.20 | 1.50 | 1.50 | 4.56 | 2.87 | 16.08 | 12.93 | 12.20 | 1.34 | 1.34 | 5.07 | 2.80 | 14.6 |
| DCR 1445(s) | 3 | 20.63 | 17.47 | 12.20 | 0.47 | 0.47 | 3.81 | 0.83 | 21.30 | 18.14 | 12.20 | 0.47 | 0.47 | 4.44 | 0.75 | 17.2 |
| DCR 1447(s) | 3 | 20.39 | 17.24 | 12.20 | 0.67 | 0.67 | 3.56 | 1.06 | 21.28 | 18.12 | 12.20 | 0.67 | 0.67 | 4.44 | 0.98 | 17.2 |
| DCR 1449(s) | 3 | 20.53 | 17.37 | 12.20 | 0.87 | 0.87 | 3.71 | 1.34 | 21.37 | 18.22 | 12.20 | 0.79 | 0.79 | 4.56 | 1.26 | 17.2 |
| DCR 1449(s) | 3 | 20.53 | 17.37 | 12.20 | 0.87 | 0.87 | 3.71 | 1.34 | 21.37 | 18.22 | 12.20 | 0.79 | 0.79 | 4.56 | 1.26 | 17.2 |
| DCR 14411(s) | 3 | 20.62 | 17.46 | 12.20 | 0.98 | 0.98 | 3.83 | 1.65 | 21.47 | 18.31 | 12.20 | 0.98 | 0.98 | 4.68 | 1.54 | 17.2 |
| DCR 14413(s) | 3 | 20.83 | 17.67 | 12.20 | 1.14 | 1.14 | 4.07 | 1.89 | 21.52 | 18.36 | 12.20 | 1.14 | 1.14 | 4.76 | 1.81 | 17.2 |
| DCR 14413(s) | 3 | 20.83 | 17.67 | 12.20 | 1.14 | 1.14 | 4.07 | 1.89 | 21.52 | 18.36 | 12.20 | 1.14 | 1.14 | 4.76 | 1.81 | 17.2 |
| DCR 14417(s) | 3 | 21.05 | 17.89 | 12.20 | 1.30 | 1.30 | 4.36 | 2.36 | 21.60 | 18.44 | 12.20 | 1.34 | 1.34 | 4.91 | 2.28 | 17.2 |
| DCR 14421(s) | 3 | 21.16 | 18.00 | 12.20 | 1.50 | 1.50 | 4.56 | 2.87 | 21.67 | 18.52 | 12.20 | 1.34 | 1.34 | 5.07 | 2.80 | 17.2 |
| DCR 1925(s) | 4 | 26.14 | 22.98 | 12.20 | 0.47 | 0.47 | 3.81 | 0.83 | 26.81 | 23.65 | 12.20 | 0.47 | 0.47 | 4.44 | 0.75 | 20.1 |
| DCR 1927(s) | 4 | 25.91 | 22.75 | 12.20 | 0.67 | 0.67 | 3.56 | 1.06 | 26.79 | 23.63 | 12.20 | 0.67 | 0.67 | 4.44 | 0.98 | 20.1 |
| DCR 1929(s) | 4 | 26.04 | 22.88 | 12.20 | 0.87 | 0.87 | 3.71 | 1.34 | 26.89 | 23.73 | 12.20 | 0.79 | 0.79 | 4.56 | 1.26 | 20.1 |
| DCR 1929(s) | 4 | 26.04 | 22.88 | 12.20 | 0.87 | 0.87 | 3.71 | 1.34 | 26.89 | 23.73 | 12.20 | 0.79 | 0.79 | 4.56 | 1.26 | 20.1 |
| DCR 19211(s) | 4 | 26.13 | 22.98 | 12.20 | 0.98 | 0.98 | 3.83 | 1.65 | 26.98 | 23.82 | 12.20 | 0.98 | 0.98 | 4.68 | 1.54 | 20.1 |
| DCR 19213(s) | 4 | 26.34 | 23.18 | 12.20 | 1.14 | 1.14 | 4.07 | 1.89 | 27.03 | 23.87 | 12.20 | 1.14 | 1.14 | 4.76 | 1.81 | 20.1 |
| DCR 19213(s) | 4 | 26.34 | 23.18 | 12.20 | 1.14 | 1.14 | 4.07 | 1.89 | 27.03 | 23.87 | 12.20 | 1.14 | 1.14 | 4.76 | 1.81 | 20.1 |
| DCR 19217(s) | 4 | 26.56 | 23.41 | 12.20 | 1.30 | 1.30 | 4.36 | 2.36 | 27.11 | 23.96 | 12.20 | 1.34 | 1.34 | 4.91 | 2.28 | 20.1 |
| DCR 19221(s) | 4 | 26.67 | 23.52 | 12.20 | 1.50 | 1.50 | 4.56 | 2.87 | 27.19 | 24.03 | 12.20 | 1.34 | 1.34 | 5.07 | 2.80 | 20.1 |

¹⁾ Without core

For total weight add 1.54 lb per core for 48-DM and 48-DC, 1.76 lb per core for 48-DA or 0.89 lb per strainer 48-F

ENGINEERING
TOMORROW



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