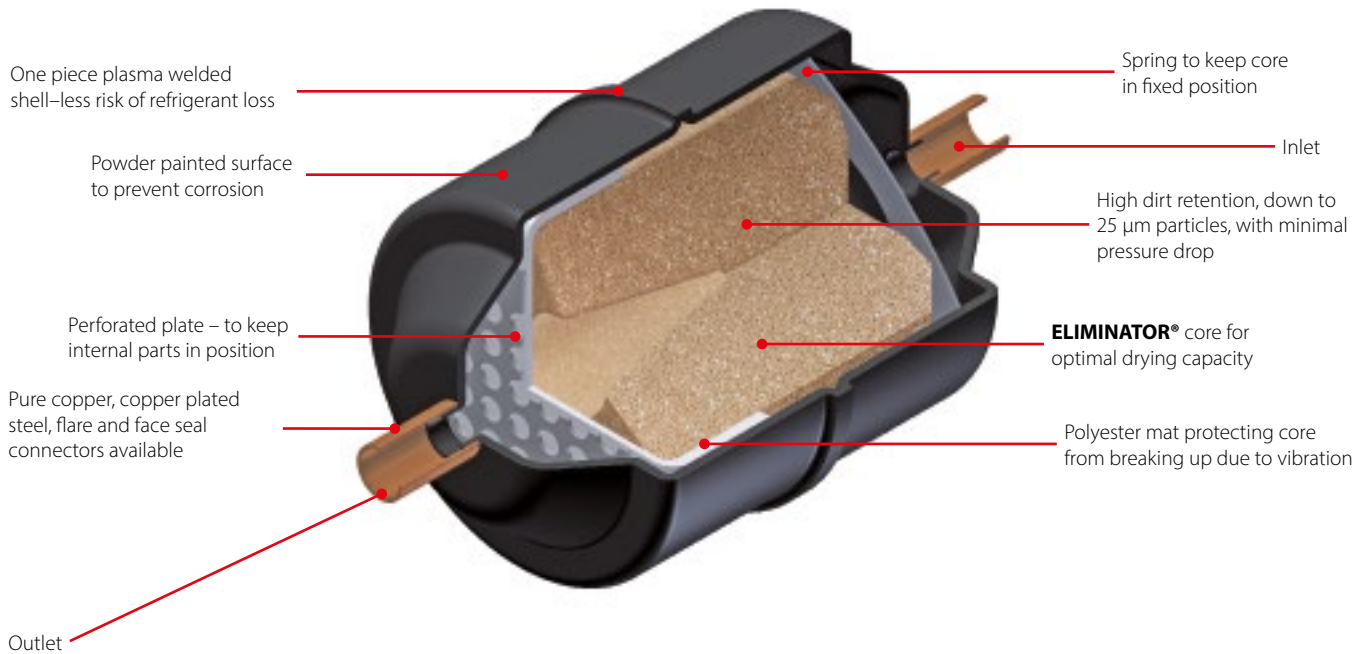
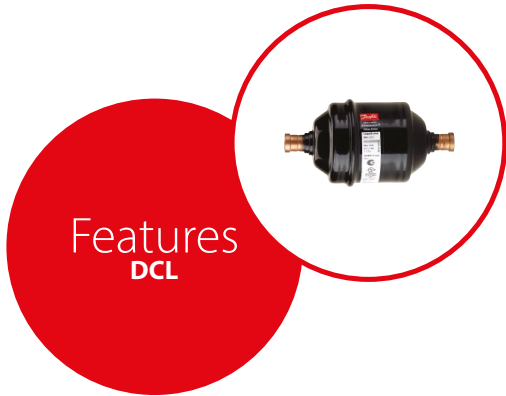


DCL, Hermetic filter drier

DCL **ELIMINATOR**® hermetic filter driers protect refrigeration and air conditioning systems from moisture, acids and solid particles, eliminating harmful chemical reaction and abrasive impurities.

DCL hermetic filter driers, with a solid core of 80% Molecular Sieve and 20% activated alumina. They are hermetic and available in many sizes and connection types.



Facts

Application:

- Traditional refrigeration
 - Air conditioning units
 - Transport refrigeration
 - Applicable to R1234ze, R125, R134a, R22/ R407C, R23, R404A, R407A, R407F, R410A, R422B, R422D, R438A, R448A, R449A, R449B, R452A, R455A, R507A, R513A, R290*), R600*), R32*), R454B*), R452B*), R444B*), R454A*), R450A*), R1234yf*)
- *) Approved for Filter drier models with connection sizes less than 25 mm refrigerants.*

- 4 times better moisture adsorption capacity than traditional filter driers with activated alumina, at both high and low humidity levels
- High drying capacity avoiding the risk of acid formation in the refrigeration system
- Solder connections are in copper plated and steel material (flare and face seal)
- Wide range with sizes: 1.5 – 75 cubic inches
- Corrosion resistant powder-painted finish. Special coating for marine applications available upon request

- 80% 3Å molecular sieve with 20% activated alumina core
- Face seal connectors for HFO refrigerants available upon request, please contact your sales representative
- Thermally stable up to 120 °C / 250 °F
- Minimal amount of binder, resistant to systems chemicals, assuring a stable core and long life
- PS / MWP up to 46 bar / 667 psig
- Available with flare, face seal, flare o-ring solder (purecopper, cu-plated) connections

Technical data

DCL - Hermetic filter drier

Drying and liquid capacity (SI units)

Type	Drying capacity [kg] of refrigerant ¹⁾														Liquid capacity [kW] ²⁾							Max. working pressure PS [bar]
	R134a		R404A		R507		R22		R407C		R410A		R32		R134a	R404A	R507	R22	R407C	R410A	R32	
	24	52	24	52	24	52	24	52	24	52	24	52	24	52								
DCL1.52XL / 2.8 mms	2.3	2.1	2.4	2.3	2.5	2.3	2.3	2.1	2.3	2.1	2.1	1.9	2.1	1.9	2.81	1.90	1.85	2.98	2.78	2.73	4.08	46
DCL 032 / 032s	3.65	3.44	3.94	3.72	4.01	3.69	3.70	3.40	3.66	3.36	3.31	3.03	3.42	3.10	6.13	4.15	4.05	6.51	6.08	5.96	8.91	46
DCL 032.5s	3.65	3.44	3.94	3.72	4.01	3.69	3.70	3.40	3.66	3.36	3.31	3.03	3.42	3.10	9.63	6.53	6.36	10.23	9.56	9.36	14.01	46
DCL 033 / 033s	3.65	3.44	3.94	3.72	4.01	3.69	3.70	3.40	3.66	3.36	3.31	3.03	3.42	3.10	11.25	6.68	7.43	10.46	11.17	9.58	16.37	46
DCL 052 / 052s	5.9	5.5	6.3	6.0	6.4	5.9	5.9	5.5	5.9	5.4	5.3	4.9	5.5	5.0	6.51	4.41	4.30	6.91	6.46	6.33	9.47	46
DCL 052.5s	5.86	5.52	6.31	5.96	6.43	5.91	5.93	5.46	5.86	5.38	5.31	4.86	5.48	4.96	12.13	8.21	8.01	12.87	12.03	11.78	17.64	46
DCL 053 / 053s	5.86	5.52	6.31	5.96	6.43	5.91	5.93	5.46	5.86	5.38	5.31	4.86	5.48	4.96	16.52	11.19	10.91	17.54	16.39	16.05	24.02	46
DCL 082 / 082s	9.45	8.90	10.18	9.62	10.37	9.54	9.57	8.80	9.45	8.68	8.56	7.84	8.84	8.00	6.46	4.38	4.27	6.86	6.41	6.28	9.40	46
DCL 082.5s	9.45	8.90	10.18	9.62	10.37	9.54	9.57	8.80	9.45	8.68	8.56	7.84	8.84	8.00	12.42	8.41	8.20	13.19	12.32	12.07	18.06	46
DCL 083 / 083s	9.45	8.90	10.18	9.62	10.37	9.54	9.57	8.80	9.45	8.68	8.56	7.84	8.84	8.00	16.28	11.03	10.75	17.28	16.15	15.82	23.68	46
DCL 084 / 084s	9.45	8.90	10.18	9.62	10.37	9.54	9.57	8.80	9.45	8.68	8.56	7.84	8.84	8.00	21.42	14.51	14.14	22.74	21.25	20.82	31.15	46
DCL 162 / 162s	21.32	20.08	22.98	21.71	23.42	21.52	21.60	19.87	21.33	19.60	19.33	17.70	19.95	18.07	6.75	4.57	4.46	7.17	6.70	6.56	9.82	46
DCL 163 / 163s	21.32	20.08	22.98	21.71	23.42	21.52	21.60	19.87	21.33	19.60	19.33	17.70	19.95	18.07	19.42	13.15	12.82	20.61	19.26	18.87	28.24	46
DCL 164 / 164s	21.32	20.08	22.98	21.71	23.42	21.52	21.60	19.87	21.33	19.60	19.33	17.70	19.95	18.07	27.04	18.32	17.86	28.71	26.83	26.28	39.33	46
DCL 165 / 165s	21.32	20.08	22.98	21.71	23.42	21.52	21.60	19.87	21.33	19.60	19.33	17.70	19.95	18.07	37.81	25.61	24.97	40.14	37.52	36.75	54.99	46
DCL 166 / 166s	21.32	20.08	22.98	21.71	23.42	21.52	21.60	19.87	21.33	19.60	19.33	17.70	19.95	18.07	44.16	29.91	29.16	46.89	43.82	42.92	64.22	46
DCL 167s	21.32	20.08	22.98	21.71	23.42	21.52	21.60	19.87	21.33	19.60	19.33	17.70	19.95	18.07	49.71	33.67	32.83	52.78	49.32	48.31	72.29	46
DCL 303 / 303s	43.83	41.27	47.24	44.62	48.13	44.24	44.40	40.84	43.84	40.29	39.73	36.39	41.00	37.13	20.48	13.87	13.52	21.74	20.32	19.90	29.79	46
DCL 304 / 304s	43.83	41.27	47.24	44.62	48.13	44.24	44.40	40.84	43.84	40.29	39.73	36.39	41.00	37.13	30.67	20.77	20.25	32.56	30.42	29.80	44.60	46
DCL 305 / 305s	43.83	41.27	47.24	44.62	48.13	44.24	44.40	40.84	43.84	40.29	39.73	36.39	41.00	37.13	48.61	32.93	32.10	51.61	48.23	47.24	70.70	46
DCL 306 / 306s	43.83	41.27	47.24	44.62	48.13	44.24	44.40	40.84	43.84	40.29	39.73	36.39	41.00	37.13	60.17	40.75	39.73	63.88	59.69	58.47	87.50	46
DCL 307s	43.83	41.27	47.24	44.62	48.13	44.24	44.40	40.84	43.84	40.29	39.73	36.39	41.00	37.13	69.46	47.05	45.86	73.74	68.91	67.50	101.01	46
DCL 309s	43.83	41.27	47.24	44.62	48.13	44.24	44.40	40.84	43.84	40.29	39.73	36.39	41.00	37.13	79.18	53.63	52.28	84.06	78.55	76.94	115.14	46
DCL 413	59.71	56.23	64.36	60.80	65.58	60.28	60.49	55.64	59.73	54.89	54.13	49.58	55.86	50.60	19.47	13.19	12.86	20.67	19.32	18.92	28.32	46
DCL 414 / 414s	59.71	56.23	64.36	60.80	65.58	60.28	60.49	55.64	59.73	54.89	54.13	49.58	55.86	50.60	31.84	21.56	21.02	33.80	31.59	30.94	46.30	46
DCL 415 / 415s	59.71	56.23	64.36	60.80	65.58	60.28	60.49	55.64	59.73	54.89	54.13	49.58	55.86	50.60	51.58	34.94	34.06	54.76	51.17	50.12	75.01	46
DCL 417s	59.71	56.23	64.36	60.80	65.58	60.28	60.49	55.64	59.73	54.89	54.13	49.58	55.86	50.60	84.69	57.37	55.92	89.91	84.03	82.30	123.17	35
DCL 419s	59.71	56.23	64.36	60.80	65.58	60.28	60.49	55.64	59.73	54.89	54.13	49.58	55.86	50.60	91.01	61.64	60.09	96.62	90.29	88.44	132.35	35
DCL 604s	87.65	82.54	94.48	89.25	96.26	88.49	88.80	81.67	87.67	80.58	79.46	72.78	82.00	74.27	34.80	24.48	23.74	37.93	35.67	36.22	53.05	46
DCL 607s	87.65	82.54	94.48	89.25	96.26	88.49	88.80	81.67	87.67	80.58	79.46	72.78	82.00	74.27	79.42	53.79	52.44	84.31	78.79	77.17	115.49	46
DCL 609s	87.65	82.54	94.48	89.25	96.26	88.49	88.80	81.67	87.67	80.58	79.46	72.78	82.00	74.27	95.42	64.63	63.01	101.30	94.67	92.73	138.77	46
DCL 757s	119.43	112.46	128.72	121.60	131.15	120.56	120.99	111.28	119.46	109.79	108.26	99.16	111.72	101.19	81.75	55.37	53.98	86.79	81.11	79.44	118.88	35
DCL 759s	119.43	112.46	128.72	121.60	131.15	120.56	120.99	111.28	119.46	109.79	108.26	99.16	111.72	101.19	101.79	68.94	67.21	108.06	100.98	98.91	148.02	35

¹⁾ Drying capacity is based on following moisture content test standards before and after drying:

- R32: 990 ppm W - 50 ppm W
- 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:

- $t_e = -15\text{ °C}$
- $t_c = 30\text{ °C}$
- $\Delta p = 0.07\text{ bar}$

Approvals

UL US, file no. SA 6398
PED 2014/68/EU -a4p3

Technical data

DCL - Hermetic filter drier

Drying and liquid capacity (US units)

Type	Drying capacity [lb] of refrigerant ¹⁾												Liquid capacity [TR] ²⁾							Max. working pressure MWP [psig]		
	R134a		R404A		R507		R22		R407C		R410A		R32		R134a	R404A	R507	R22	R407C		R410A	R32
	75	125	75	125	75	125	75	125	75	125	75	125	75	125								
DCL1.52XL 2.8 mm s	5.00	4.71	5.39	5.09	5.49	5.05	5.07	4.66	5.00	4.60	4.53	4.15	4.68	4.24	0.8	0.5	0.5	0.9	0.8	0.8	1.2	667
DCL 032.5s	8.06	7.59	8.68	8.20	8.85	8.13	8.16	7.51	8.06	7.41	7.30	6.69	7.54	6.83	1.75	1.19	1.16	1.86	1.74	1.70	2.55	667
DCL 033 / 033s	8.06	7.59	8.68	8.20	8.85	8.13	8.16	7.51	8.06	7.41	7.30	6.69	7.54	6.83	2.75	1.86	1.82	2.92	2.73	2.67	4.00	667
DCL 052 / 052s	8.06	7.59	8.68	8.20	8.85	8.13	8.16	7.51	8.06	7.41	7.30	6.69	7.54	6.83	3.22	1.91	2.12	2.99	3.19	2.74	4.68	667
DCL 052.5s	12.91	12.16	13.92	13.15	14.18	13.03	13.08	12.03	12.92	11.87	11.70	10.72	12.08	10.94	1.86	1.26	1.23	1.97	1.85	1.81	2.71	667
DCL 053 / 053s	12.91	12.16	13.92	13.15	14.18	13.03	13.08	12.03	12.92	11.87	11.70	10.72	12.08	10.94	3.46	2.35	2.29	3.68	3.44	3.37	5.04	667
DCL 082 / 082s	12.91	12.16	13.92	13.15	14.18	13.03	13.08	12.03	12.92	11.87	11.70	10.72	12.08	10.94	4.72	3.20	3.12	5.01	4.68	4.59	6.86	667
DCL 082.5s	20.82	19.61	22.45	21.20	22.87	21.02	21.10	19.40	20.83	19.14	18.88	17.29	19.48	17.65	1.85	1.25	1.22	1.96	1.83	1.79	2.69	667
DCL 083 / 083s	20.82	19.61	22.45	21.20	22.87	21.02	21.10	19.40	20.83	19.14	18.88	17.29	19.48	17.65	3.55	2.40	2.34	3.77	3.52	3.45	5.16	667
DCL 084 / 084s	20.82	19.61	22.45	21.20	22.87	21.02	21.10	19.40	20.83	19.14	18.88	17.29	19.48	17.65	4.65	3.15	3.07	4.94	4.61	4.52	6.76	667
DCL 162 / 162s	20.82	19.61	22.45	21.20	22.87	21.02	21.10	19.40	20.83	19.14	18.88	17.29	19.48	17.65	6.12	4.15	4.04	6.50	6.07	5.95	8.90	667
DCL 162.5s	47.01	44.26	50.66	47.86	51.62	47.45	47.62	43.80	47.02	43.21	42.61	39.03	43.97	39.83	1.93	1.31	1.27	2.05	1.91	1.88	2.81	667
DCL 163 / 163s	47.01	44.26	50.66	47.86	51.62	47.45	47.62	43.80	47.02	43.21	42.61	39.03	43.97	39.83	5.55	3.76	3.66	5.89	5.50	5.39	8.07	667
DCL 164 / 164s	47.01	44.26	50.66	47.86	51.62	47.45	47.62	43.80	47.02	43.21	42.61	39.03	43.97	39.83	7.73	5.23	5.10	8.20	7.67	7.51	11.24	667
DCL 165 / 165s	47.01	44.26	50.66	47.86	51.62	47.45	47.62	43.80	47.02	43.21	42.61	39.03	43.97	39.83	10.80	7.32	7.13	11.47	10.72	10.50	15.71	667
DCL 166 / 166s	47.01	44.26	50.66	47.86	51.62	47.45	47.62	43.80	47.02	43.21	42.61	39.03	43.97	39.83	12.62	8.55	8.33	13.40	12.52	12.26	18.35	667
DCL 167s	47.01	44.26	50.66	47.86	51.62	47.45	47.62	43.80	47.02	43.21	42.61	39.03	43.97	39.83	14.20	9.62	9.38	15.08	14.09	13.80	20.66	667
DCL 303 / 303s	96.62	90.99	104.14	98.38	106.11	97.54	97.88	90.03	96.64	88.82	87.59	80.22	90.39	81.87	5.85	3.96	3.86	6.21	5.81	5.69	8.51	667
DCL 304 / 304s	96.62	90.99	104.14	98.38	106.11	97.54	97.88	90.03	96.64	88.82	87.59	80.22	90.39	81.87	8.76	5.93	5.79	9.30	8.69	8.51	12.74	667
DCL 305 / 305s	96.62	90.99	104.14	98.38	106.11	97.54	97.88	90.03	96.64	88.82	87.59	80.22	90.39	81.87	13.89	9.41	9.17	14.75	13.78	13.50	20.20	667
DCL 306 / 306s	96.62	90.99	104.14	98.38	106.11	97.54	97.88	90.03	96.64	88.82	87.59	80.22	90.39	81.87	17.19	11.64	11.35	18.25	17.06	16.71	25.00	667
DCL 307s	96.62	90.99	104.14	98.38	106.11	97.54	97.88	90.03	96.64	88.82	87.59	80.22	90.39	81.87	19.84	13.44	13.10	21.07	19.69	19.29	28.86	667
DCL 309s	96.62	90.99	104.14	98.38	106.11	97.54	97.88	90.03	96.64	88.82	87.59	80.22	90.39	81.87	22.62	15.32	14.94	24.02	22.44	21.98	32.90	667
DCL 413	131.65	123.97	141.89	134.04	144.57	132.90	133.36	122.66	131.68	121.02	119.34	109.30	123.15	111.54	5.56	3.77	3.67	5.91	5.52	5.41	8.09	667
DCL 414 / 414s	131.65	123.97	141.89	134.04	144.57	132.90	133.36	122.66	131.68	121.02	119.34	109.30	123.15	111.54	9.10	6.16	6.01	9.66	9.02	8.84	13.23	667
DCL 415 / 415s	131.65	123.97	141.89	134.04	144.57	132.90	133.36	122.66	131.68	121.02	119.34	109.30	123.15	111.54	14.74	9.98	9.73	15.65	14.62	14.32	21.43	667
DCL 417s	131.65	123.97	141.89	134.04	144.57	132.90	133.36	122.66	131.68	121.02	119.34	109.30	123.15	111.54	24.20	16.39	15.98	25.69	24.01	23.52	35.19	507
DCL 419s	131.65	123.97	141.89	134.04	144.57	132.90	133.36	122.66	131.68	121.02	119.34	109.30	123.15	111.54	26.00	17.61	17.17	27.61	25.80	25.27	37.81	507
DCL 604s	193.24	181.97	208.29	196.76	212.22	195.08	195.76	180.05	193.29	177.64	175.17	160.44	180.77	163.73	9.94	6.99	6.78	10.84	10.19	10.35	15.16	667
DCL 607s	193.24	181.97	208.29	196.76	212.22	195.08	195.76	180.05	193.29	177.64	175.17	160.44	180.77	163.73	22.69	15.37	14.98	24.09	22.51	22.05	33.00	667
DCL 609s	193.24	181.97	208.29	196.76	212.22	195.08	195.76	180.05	193.29	177.64	175.17	160.44	180.77	163.73	27.26	18.47	18.00	28.94	27.05	26.49	39.65	667
DCL 757s	263.29	247.94	283.79	268.08	289.15	265.80	266.73	245.32	263.36	242.04	238.67	218.60	246.30	223.09	23.36	15.82	15.42	24.80	23.17	22.70	33.97	507
DCL 759s	263.29	247.94	283.79	268.08	289.15	265.80	266.73	245.32	263.36	242.04	238.67	218.60	246.30	223.09	29.08	19.70	19.20	30.87	28.85	28.26	42.29	507

¹⁾ Drying capacity is based on following moisture content test standards before and after drying:

- R32: 990 ppm W - 50 ppm W
- 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:

- $t_e = 5^\circ\text{F}$
- $t_c = 85^\circ\text{F}$
- $\Delta p = 1 \text{ psig}$

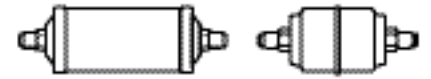
Approvals

UL US, file no. SA 6398
PED 2014/68/EU - a4p3

Ordering

DCL - Flare

Ordering



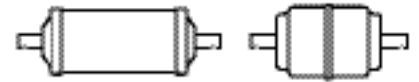
Type	Connection		Multipack Code no.
	[in]	[mm]	
DCL 032	¼	6	023Z5000 ¹⁾
	¼	6	023Z5075
DCL 033	⅜	10	023Z5001 ¹⁾
	⅜	10	023Z5089
DCL 052	¼	6	023Z5002
DCL 053	⅜	10	023Z5003
DCL 082	¼	6	023Z5004
DCL 083	⅜	10	023Z5005
DCL 084	½	12	023Z5006
DCL 162	¼	6	023Z5007
DCL 163	⅜	10	023Z5008
DCL 164	½	12	023Z5009
DCL 165	⅝	16	023Z5010
DCL 166	¾	19	023Z5011
DCL 303	⅜	10	023Z0012
DCL 304	½	12	023Z0013
DCL 305	⅝	16	023Z0014
DCL 306	¾	19	023Z0156
DCL 414	½	12	023Z0102
DCL 415	⅝	16	023Z0103

¹⁾ Wire mesh in filter drier outlet

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Ordering

DCL - Solder (pure copper)



Ordering

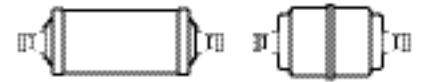
Type	Connection [in]	Multipack Code no.	Connection [mm]	Multipack Code no.
DCL 1.52XL / 2.8mm s	¼	023Z8255	–	–
DCL 032s	¼	023Z5013 ¹⁾	3	–
DCL 032.5s	⅜	023Z5014	8	–
DCL 033s	⅜	023Z5015	10	023Z5016
DCL 052s	¼	023Z5018	6	–
DCL 053s	⅜	023Z5019	10	023Z5020
DCL 082s	¼	023Z5022	6	–
DCL 083s	⅜	023Z5023	10	023Z5024
DCL 084s	½	023Z5026	12	023Z5025
DCL 085s	⅝	023Z5145	–	–
DCL 162s	¼	023Z5028	6	023Z5027
DCL 163s	⅜	023Z5029	10	023Z5030
DCL 164s	½	023Z5032	12	023Z5031
DCL 165s	⅝	023Z5033	12	–
DCL 166s	¾	023Z5070	–	–
DCL 167s	⅞	023Z5034	–	–
DCL 303s	⅜	023Z0030	10	–
DCL 304s	½	023Z0031	12	–
DCL 305s	⅝	023Z0032	16	–
DCL 306s	¾	023Z0033	18	–
DCL 307s	⅞	023Z0034	22	–
DCL 309s	1 ⅛	023Z0035	28	–
DCL 414s	½	023Z0104	12	–
DCL 415s	⅝	023Z0105	16	–
DCL 417s	⅞	023Z0106	22	–
DCL 419s	1 ⅛	023Z0107	28	–
DCL 607s	⅞	023Z0036	22	–
DCL 609s	1 ⅛	023Z0037	28	–
DCL 757s	⅞	023Z0115	22	–
DCL 759s	1 ⅛	023Z0116	28	–

¹⁾ Wire mesh in filter drier outlet

This product is approved for R290, R600 and R600a by ignition source assessment in accordance to standard EN13463-1. Only solder versions (cu-plated / pure copper) and connection sizes below 25 mm are approved for flammable refrigerants.

Ordering

DCL - Solder (cu-plated)



Ordering

Type	Connection [in]	Multipack Code no.	Connection [mm]	Multipack Code no.
DCL 032s	¼	023Z4501	6	023Z4500
DCL 032.5s	⅜	023Z4502	8	–
DCL 033s	½	023Z4504	10	023Z4503
DCL 052s	¼	023Z4506	6	023Z4505
	⅜	023Z4507	10	–
DCL 053s	½	023Z4509	10	023Z4508
DCL 082s	¼	023Z4511	6	023Z4510
	⅜	023Z4512	6	–
DCL 083s	½	023Z4514	10	023Z4513
DCL 084s	¾	023Z4516	12	023Z4515
DCL 162s	¼	023Z4518	6	023Z4517
DCL 163s	⅜	023Z4521	10	023Z4519
DCL 164s	½	023Z4523	12	023Z4522
DCL 165s	¾	023Z4524	12	–
DCL 166s	1 ¼	023Z4525	–	–
DCL 167s	1 ½	023Z4526	–	–
DCL 303s	¾	023Z4528	10	023Z4527
DCL 304s	1	023Z4530	12	023Z4529
DCL 305s	1 ¼	023Z4531	16	–
DCL 306s	1 ½	023Z4533	18	023Z4532
DCL 307s	1 ¾	023Z4534	22	–
DCL 309s	2	023Z4536	28	023Z4535
DCL 414s	½	023Z4538	12	–
DCL 415s	¾	023Z4539	16	–
DCL 417s	1	023Z4540	22	–
DCL 419s	1 ¼	023Z4542	28	023Z4541
DCL 604s	½	023Z4544	22	–
DCL 607s	¾	023Z4545	22	–
DCL 609s	1 ¼	–	28	023Z4546
DCL 757s	¾	023Z4548	22	–
DCL 759s	1 ¼	023Z4550	28	023Z4549

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