

Model: D2DB-50 X

Data

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D2DB-50 X

Technical data

Cylinder count:	2
Displacement [m ³ /h]:	28
Weight [kg]:	140
Oil charge [dm ³]:	2,3
Max. operating current [A]:	11,5
Locked rotor current [A]:	55
Power supply [V/~/Hz]:	380-420V/3/50Hz

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:		1 3/8"
Discharge line:		7/8"

Model: D2DB-50 X

Capacity

R134a

Cooling capacity [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	5.82	7.80	10.17	12.97	16.27	20.12	24.58
35	5.24	7.15	9.42	12.10	15.25	18.93	23.19
40	4.70	6.52	8.68	11.22	14.21	17.71	21.76
45	4.18	5.91	7.94	10.34	13.16	16.45	20.29
50	3.69	5.31	7.21	9.45	12.08	15.17	18.77
55	3.24	4.73	6.48	8.55	10.99	13.86	17.21
60	2.81	4.17	5.76	7.65	9.88	12.51	15.61

Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	2.44	2.71	2.93	3.10	3.21	3.23	3.16
35	2.52	2.84	3.12	3.36	3.54	3.64	3.66
40	2.59	2.95	3.29	3.59	3.84	4.02	4.12
45	2.65	3.06	3.45	3.80	4.11	4.36	4.54
50	2.70	3.15	3.58	3.98	4.35	4.67	4.92
55	2.74	3.21	3.68	4.14	4.56	4.94	5.25
60	2.76	3.26	3.77	4.26	4.73	5.16	5.54

Model: D2DB-50 X

Capacity

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	5.88	6.17	6.42	6.63	6.75	6.78	6.68
35	5.97	6.32	6.64	6.93	7.15	7.28	7.30
40	6.05	6.45	6.85	7.21	7.52	7.76	7.89
45	6.12	6.57	7.03	7.47	7.87	8.20	8.45
50	6.17	6.67	7.18	7.70	8.18	8.61	8.97
55	6.21	6.75	7.32	7.90	8.47	8.99	9.46
60	6.22	6.80	7.43	8.07	8.72	9.33	9.90

Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	137.53	180.94	230.87	288.32	354.27	429.72	515.67
35	129.94	173.81	224.05	281.66	347.62	422.94	508.60
40	122.80	166.81	217.05	274.50	340.15	415.01	500.06
45	115.94	159.78	209.69	266.67	331.70	405.78	489.91
50	109.21	152.56	201.83	258.01	322.10	395.09	477.98
55	102.43	144.97	193.28	248.35	311.18	382.77	464.10
60	95.44	136.86	183.89	237.54	298.79	368.65	448.10

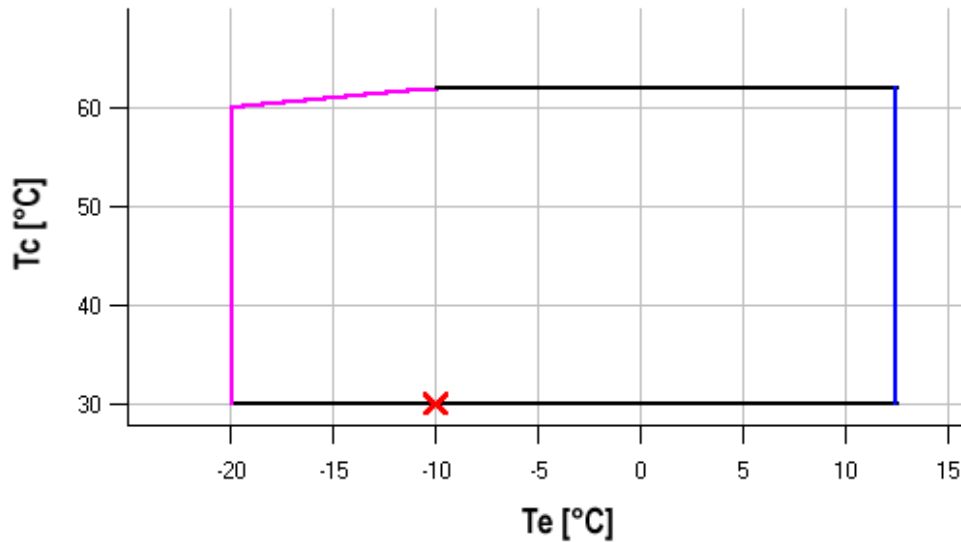
Model: D2DB-50 X

Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	2.38	2.88	3.47	4.18	5.07	6.23	7.78
35	2.08	2.52	3.02	3.60	4.31	5.20	6.34
40	1.81	2.21	2.63	3.12	3.70	4.41	5.29
45	1.58	1.93	2.30	2.72	3.20	3.77	4.47
50	1.37	1.69	2.01	2.37	2.78	3.25	3.82
55	1.18	1.47	1.76	2.07	2.41	2.81	3.28
60	1.02	1.28	1.53	1.79	2.09	2.42	2.82

Application range



- Maximum evaporating temperature
- 25°C suction gas return

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D2DB-50 X

Capacity

R404A/R507

Cooling capacity [kW]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	2.85	4.02	5.46	7.21	9.30	11.77	14.66	18.00	21.82
25	2.51	3.62	4.98	6.63	8.59	10.92	13.63	16.78	20.38
30	2.16	3.21	4.50	6.04	7.89	10.06	12.61	15.55	18.94
35	1.81	2.81	4.02	5.46	7.18	9.20	11.58	14.33	17.50
40	-	2.41	3.54	4.88	6.47	8.35	10.55	13.11	16.06
45	-	2.02	3.07	4.31	5.77	7.50	9.53	11.89	14.63
50	-	-	2.60	3.74	5.08	6.66	8.52	10.69	13.20
55	-	-	2.15	3.19	4.41	5.84	7.52	9.49	-

Power input [kW]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	1.95	2.31	2.67	3.02	3.35	3.64	3.88	4.07	4.17
25	1.94	2.33	2.73	3.12	3.50	3.86	4.17	4.43	4.63
30	1.92	2.34	2.77	3.20	3.64	4.05	4.43	4.77	5.06
35	1.90	2.33	2.79	3.27	3.75	4.23	4.68	5.09	5.46
40	-	2.31	2.81	3.32	3.85	4.38	4.90	5.39	5.84
45	-	2.29	2.81	3.36	3.94	4.52	5.10	5.66	6.20
50	-	-	2.79	3.38	4.00	4.64	5.28	5.92	6.53
55	-	-	2.77	3.39	4.05	4.74	5.44	6.15	-

Model: D2DB-50 X

Capacity

Current [A]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	5.46	5.83	6.21	6.60	6.97	7.31	7.60	7.83	8.00
25	5.44	5.84	6.26	6.70	7.13	7.55	7.94	8.28	8.57
30	5.42	5.84	6.30	6.79	7.29	7.79	8.27	8.72	9.13
35	5.39	5.83	6.33	6.87	7.44	8.02	8.59	9.15	9.68
40	-	5.81	6.35	6.94	7.57	8.23	8.90	9.56	10.21
45	-	5.77	6.34	6.98	7.68	8.42	9.18	9.96	10.73
50	-	-	6.31	7.00	7.77	8.58	9.44	10.32	11.21
55	-	-	6.25	6.99	7.82	8.71	9.66	10.65	-

Mass flow [kg/s]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	57.60	85.95	119.17	158.54	205.36	260.92	326.52	403.45	492.99
25	54.05	81.70	114.20	152.83	198.90	253.68	318.49	394.61	483.32
30	49.89	76.86	108.66	146.57	191.90	245.93	309.96	385.28	473.19
35	45.19	71.50	102.61	139.82	184.43	237.72	300.99	375.53	462.64
40	-	65.66	96.10	132.63	176.53	229.10	291.63	365.41	451.74
45	-	59.41	89.21	125.06	168.28	220.14	281.95	354.98	440.55
50	-	-	81.97	117.18	159.72	210.89	271.99	344.30	429.12
55	-	-	74.45	109.02	150.91	201.41	261.82	333.42	-

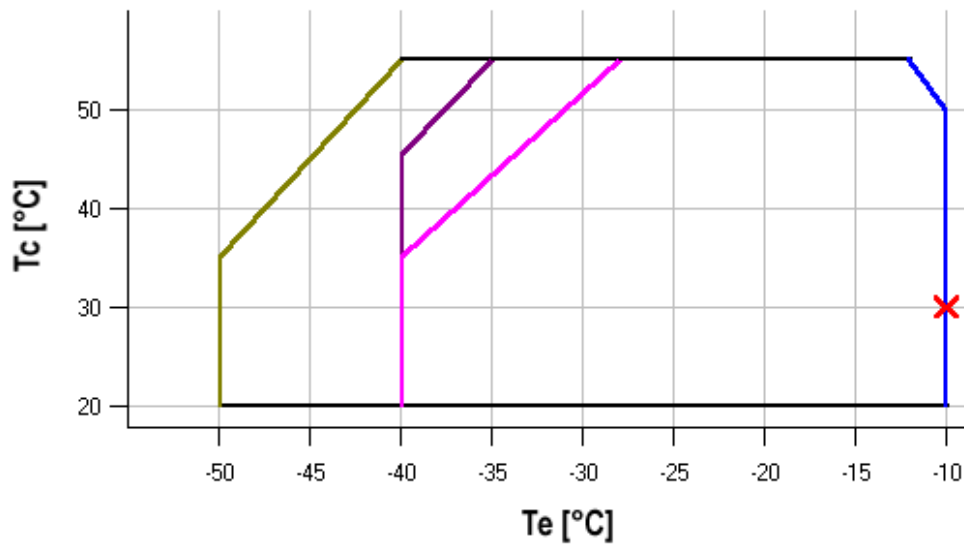
Model: D2DB-50 X





Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	1.46	1.74	2.04	2.39	2.78	3.23	3.77	4.43	5.23
25	1.29	1.55	1.83	2.12	2.45	2.83	3.27	3.78	4.40
30	1.12	1.38	1.63	1.89	2.17	2.48	2.84	3.26	3.74
35	0.96	1.21	1.44	1.67	1.91	2.18	2.48	2.81	3.20
40	-	1.04	1.26	1.47	1.68	1.91	2.15	2.43	2.75
45	-	0.88	1.09	1.28	1.47	1.66	1.87	2.10	2.36
50	-	-	0.93	1.11	1.27	1.44	1.61	1.81	2.02
55	-	-	0.78	0.94	1.09	1.23	1.38	1.54	-

Application range



-  Maximum evaporating temperature
-  25°C suction gas return
-  0°C suction gas return + additional cooling
-  0°C suction gas return

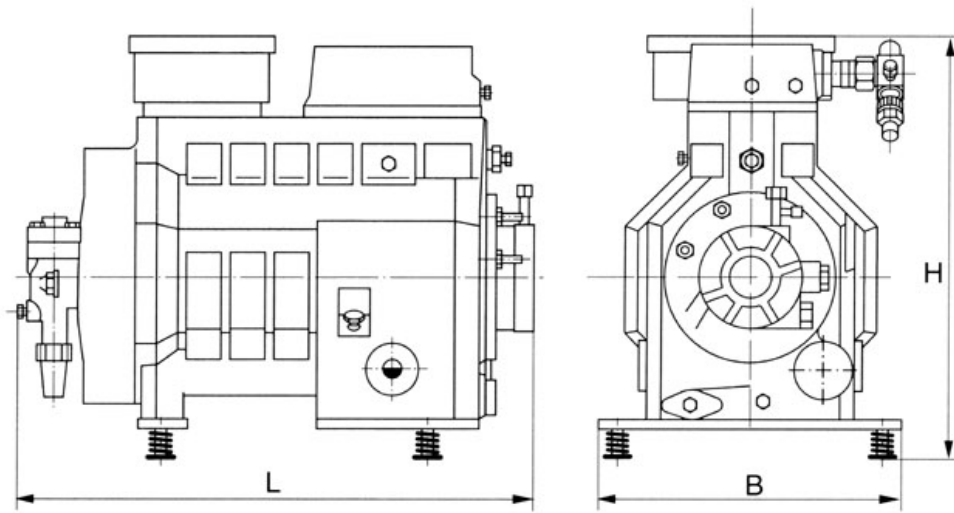
Operating conditions: ISO; subcooling: 0 K, suction superheat: - K, return gas temperature: 20

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D2DB-50 X

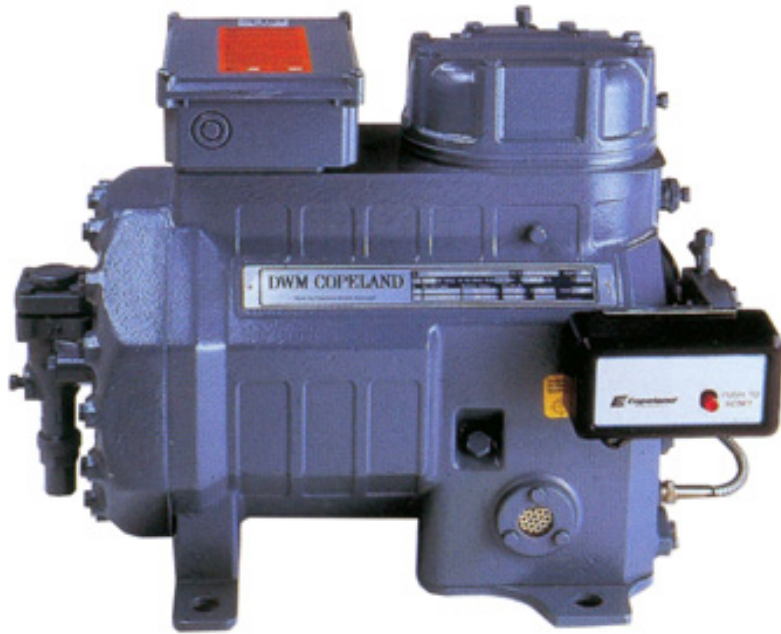
Dimensions



L	590 mm
B	330 mm
H	470 mm

Model: D2DB-50 X

Image



Model: D2DL-40 X

Data

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D2DL-40 X

Technical data

Cylinder count:	2
Displacement [m ³ /h]:	23,7
Weight [kg]:	140
Oil charge [dm ³]:	2,3
Max. operating current [A]:	10
Locked rotor current [A]:	55
Power supply [V/~/Hz]:	380-420V/3/50Hz

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:		1 3/8"
Discharge line:		7/8"

Model: D2DL-40 X

Capacity

R134a

Cooling capacity [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	4.54	6.18	8.13	10.45	13.17	16.34	20.02
35	4.04	5.61	7.47	9.68	12.27	15.29	18.79
40	3.57	5.06	6.83	8.92	11.37	14.23	17.54
45	3.14	4.55	6.20	8.16	10.46	13.15	16.27
50	2.75	4.05	5.59	7.41	9.54	12.05	14.97
55	2.39	3.59	5.00	6.66	8.63	10.94	13.65
60	2.07	3.15	4.42	5.92	7.70	9.82	12.30

Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	2.15	2.35	2.53	2.66	2.74	2.75	2.68
35	2.20	2.46	2.69	2.88	3.02	3.09	3.10
40	2.26	2.55	2.83	3.07	3.27	3.41	3.49
45	2.31	2.64	2.96	3.25	3.50	3.70	3.85
50	2.35	2.71	3.07	3.40	3.70	3.96	4.17
55	2.38	2.77	3.16	3.53	3.88	4.19	4.45
60	2.40	2.82	3.23	3.64	4.02	4.38	4.69

Model: D2DL-40 X

Capacity

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	5.30	5.53	5.74	5.91	6.00	6.01	5.92
35	5.37	5.66	5.93	6.17	6.36	6.46	6.47
40	5.43	5.77	6.11	6.42	6.69	6.89	7.00
45	5.49	5.88	6.27	6.65	6.99	7.28	7.50
50	5.53	5.96	6.41	6.85	7.27	7.65	7.96
55	5.57	6.04	6.53	7.03	7.52	7.98	8.39
60	5.59	6.09	6.63	7.19	7.75	8.29	8.78

Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	107.30	143.30	184.68	232.25	286.79	349.09	419.95
35	100.03	136.28	177.79	225.34	279.73	341.75	412.20
40	93.33	129.54	170.86	218.10	272.05	333.49	403.22
45	87.11	122.97	163.82	210.44	263.64	324.20	392.91
50	81.26	116.48	156.55	202.26	254.41	313.79	381.19
55	75.71	109.97	148.96	193.46	244.26	302.16	367.94
60	70.34	103.36	140.96	183.95	233.10	289.21	353.08

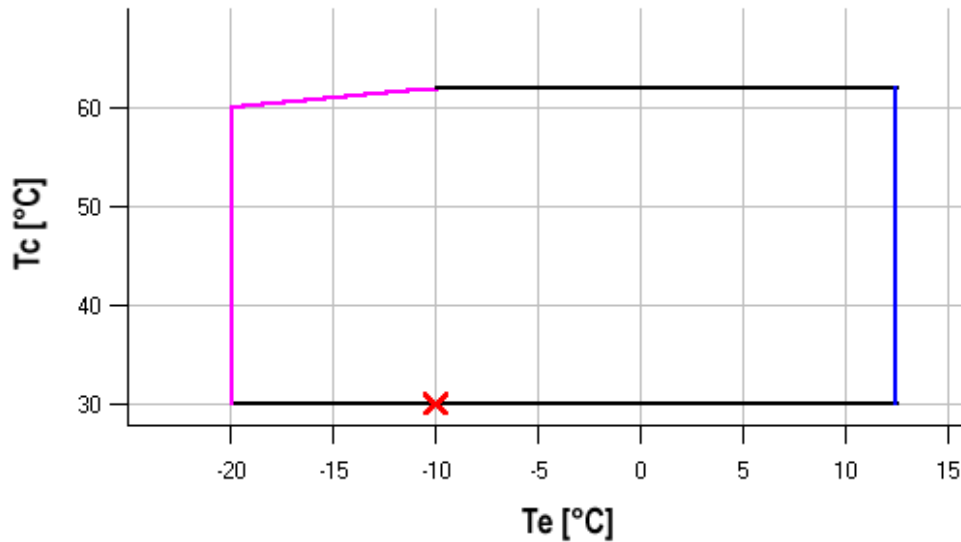
Model: D2DL-40 X



Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10
30	2.11	2.62	3.21	3.93	4.81	5.95	7.47
35	1.83	2.28	2.78	3.37	4.07	4.94	6.06
40	1.58	1.98	2.42	2.90	3.48	4.17	5.02
45	1.36	1.72	2.10	2.51	2.99	3.55	4.23
50	1.17	1.49	1.82	2.18	2.58	3.04	3.59
55	1.00	1.29	1.58	1.89	2.22	2.61	3.07
60	0.86	1.12	1.37	1.63	1.92	2.24	2.62

Application range



 Maximum evaporating temperature
 25°C suction gas return

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D2DL-40 X

Capacity

R404A/R507

Cooling capacity [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	2.19	3.15	4.35	5.79	7.52	9.57	11.95	14.71	17.86
25	1.90	2.81	3.93	5.28	6.90	8.81	11.04	13.62	16.57
30	1.61	2.47	3.52	4.78	6.29	8.06	10.14	12.54	15.30
35	1.33	2.14	3.12	4.29	5.68	7.33	9.25	11.48	14.05
40	-	1.82	2.73	3.81	5.09	6.61	8.38	10.44	12.82
45	-	1.51	2.35	3.34	4.52	5.90	7.53	9.42	11.60
50	-	-	1.99	2.90	3.96	5.22	6.69	8.41	10.40
55	-	-	1.65	2.46	3.42	4.55	5.88	7.43	9.23

Power input [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	1.71	2.03	2.34	2.63	2.88	3.11	3.28	3.41	3.47
25	1.70	2.04	2.38	2.71	3.01	3.29	3.52	3.71	3.85
30	1.67	2.04	2.41	2.78	3.12	3.45	3.74	4.00	4.20
35	1.62	2.02	2.42	2.83	3.22	3.59	3.94	4.26	4.53
40	-	1.99	2.42	2.86	3.30	3.72	4.12	4.50	4.84
45	-	1.95	2.41	2.88	3.36	3.83	4.29	4.72	5.13
50	-	-	2.39	2.89	3.40	3.92	4.43	4.92	5.39
55	-	-	2.35	2.89	3.44	4.00	4.56	5.11	5.64

Model: D2DL-40 X

Capacity

Current [A]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	4.83	5.17	5.51	5.84	6.14	6.41	6.63	6.78	6.85
25	4.84	5.21	5.60	5.98	6.34	6.68	6.98	7.22	7.39
30	4.82	5.22	5.65	6.08	6.50	6.91	7.28	7.61	7.88
35	4.77	5.21	5.67	6.15	6.63	7.10	7.55	7.96	8.32
40	-	5.17	5.67	6.19	6.73	7.26	7.79	8.28	8.73
45	-	5.11	5.65	6.21	6.80	7.40	7.99	8.57	9.11
50	-	-	5.61	6.22	6.86	7.52	8.18	8.83	9.46
55	-	-	5.57	6.22	6.91	7.62	8.35	9.08	9.80

Mass flow [kg/s]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	43.67	67.23	94.79	127.42	166.17	212.09	266.25	329.70	403.49
25	40.43	63.27	90.07	121.87	159.75	204.75	257.93	320.35	393.06
30	36.83	58.96	85.00	116.00	153.02	197.11	249.33	310.73	382.38
35	32.92	54.37	79.66	109.87	146.04	189.24	240.51	300.92	371.51
40	-	49.57	74.14	103.56	138.91	181.22	231.56	290.98	360.53
45	-	44.64	68.50	97.16	131.68	173.12	222.54	280.99	349.52
50	-	-	62.82	90.73	124.45	165.03	213.54	271.03	338.56
55	-	-	57.17	84.35	117.28	157.02	204.64	261.18	327.71

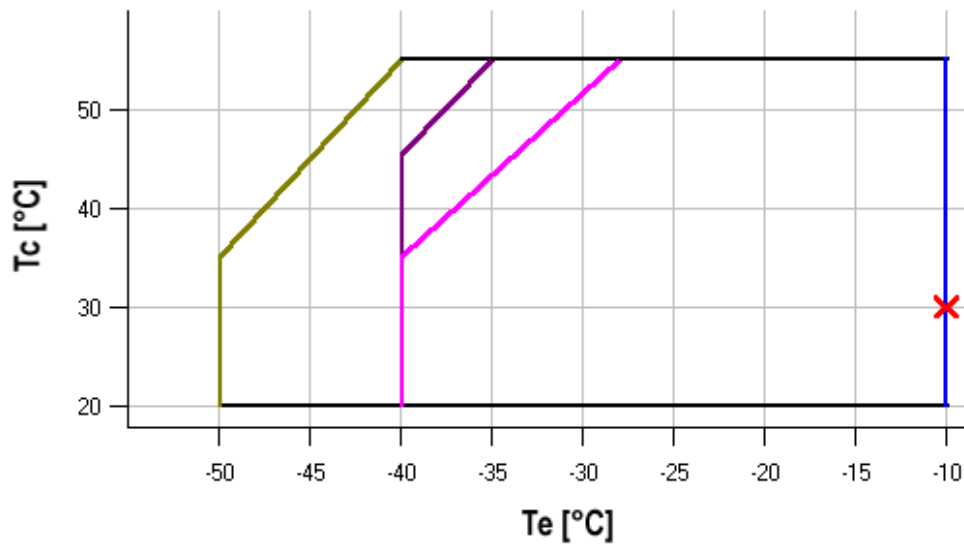
Model: D2DL-40 X





Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10
20	1.28	1.55	1.86	2.21	2.61	3.08	3.64	4.32	5.15
25	1.12	1.38	1.65	1.95	2.29	2.68	3.13	3.67	4.31
30	0.97	1.21	1.46	1.72	2.01	2.34	2.71	3.14	3.64
35	0.82	1.06	1.29	1.52	1.77	2.04	2.35	2.70	3.10
40	-	0.91	1.13	1.33	1.55	1.78	2.03	2.32	2.65
45	-	0.78	0.98	1.16	1.35	1.54	1.76	1.99	2.26
50	-	-	0.83	1.00	1.16	1.33	1.51	1.71	1.93
55	-	-	0.70	0.85	1.00	1.14	1.29	1.45	1.64

Application range



-  Maximum evaporating temperature
-  25°C suction gas return
-  0°C suction gas return + additional cooling
-  0°C suction gas return

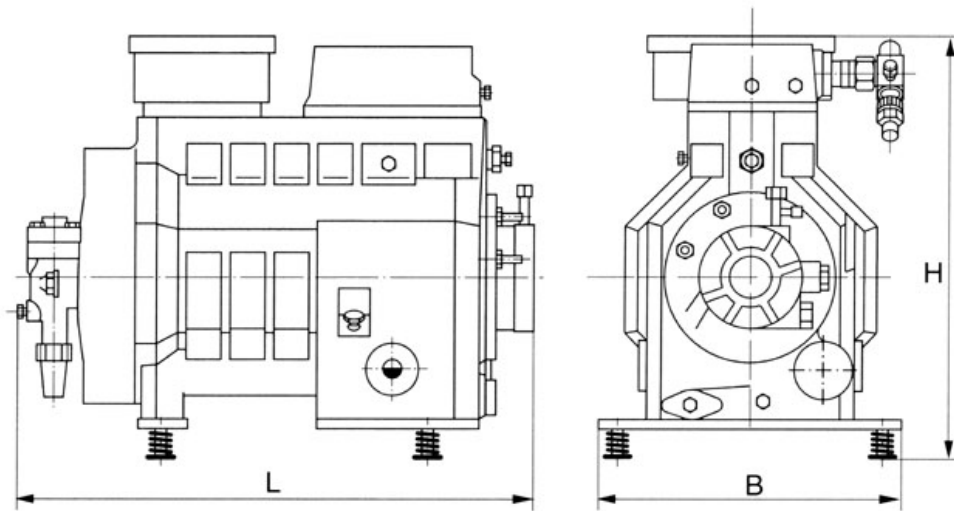
Operating conditions: ISO; subcooling: 0 K, suction superheat: - K, return gas temperature: 20

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D2DL-40 X

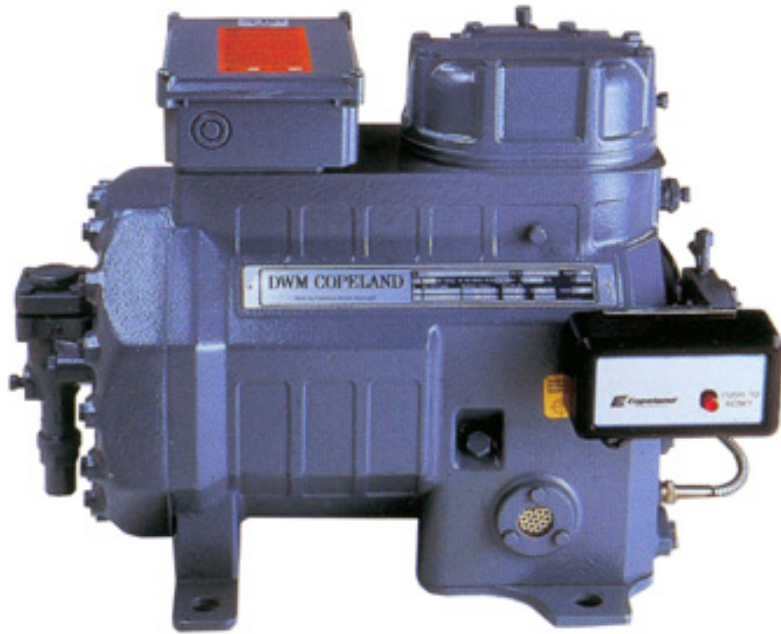
Dimensions



L	590 mm
B	330 mm
H	470 mm

Model: D2DL-40 X

Image



Model: D3DC-100 X

Data

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D3DC-100 X

Technical data

Cylinder count:	3
Displacement [m ³ /h]:	38
Weight [kg]:	175
Oil charge [dm ³]:	3,4
Max. operating current [A]:	20,5
Locked rotor current [A]:	121
Power supply [V/~/Hz]:	380-420V/3/50Hz

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:		1 3/8"
Discharge line:		1 1/8"

Model: D3DC-100 X

Capacity

R22

Cooling capacity [kW]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
30	11.32	14.78	18.79	23.43	28.78	34.91	41.90	49.83
35	10.29	13.63	17.47	21.91	27.02	32.88	39.56	47.15
40	9.30	12.50	16.18	20.41	25.28	30.86	37.22	44.45
45	-	11.41	14.92	18.94	23.56	28.85	34.89	41.77
50	-	10.38	13.70	17.51	21.87	26.87	32.59	39.10
55	-	-	12.55	16.13	20.23	24.94	30.32	36.46
60	-	-	11.47	14.82	18.66	23.06	28.10	33.87

Power input [kW]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
30	4.86	5.32	5.72	6.02	6.21	6.27	6.17	5.89
35	5.05	5.59	6.08	6.49	6.80	6.98	7.03	6.90
40	5.24	5.85	6.42	6.93	7.35	7.66	7.84	7.87
45	-	6.09	6.74	7.34	7.87	8.30	8.61	8.79
50	-	6.33	7.06	7.74	8.37	8.92	9.36	9.67
55	-	-	7.37	8.13	8.86	9.51	10.08	10.53
60	-	-	7.67	8.52	9.33	10.09	10.77	11.35

Model: D3DC-100 X

Capacity

Current [A]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10
30	10.39	11.06	11.64	12.09	12.38	12.47	12.31	11.89
35	10.67	11.46	12.18	12.79	13.25	13.53	13.60	13.41
40	10.94	11.84	12.68	13.44	14.08	14.56	14.83	14.88
45	-	12.20	13.17	14.08	14.88	15.54	16.02	16.29
50	-	12.56	13.65	14.69	15.65	16.49	17.17	17.66
55	-	-	14.11	15.29	16.40	17.41	18.28	18.99
60	-	-	14.58	15.88	17.14	18.31	19.37	20.28

Mass flow [kg/s]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10
30	246.06	317.53	398.58	490.60	594.96	713.03	846.19	995.81
35	232.97	304.30	385.00	476.44	580.00	697.04	828.94	977.07
40	219.89	290.94	371.14	461.84	564.44	680.29	810.78	957.28
45	-	277.80	357.33	447.16	548.64	663.15	792.08	936.78
50	-	265.22	343.94	432.73	532.94	645.97	773.17	915.94
55	-	-	331.32	418.90	517.70	629.08	754.42	895.09
60	-	-	319.80	406.04	503.27	612.86	736.17	874.59

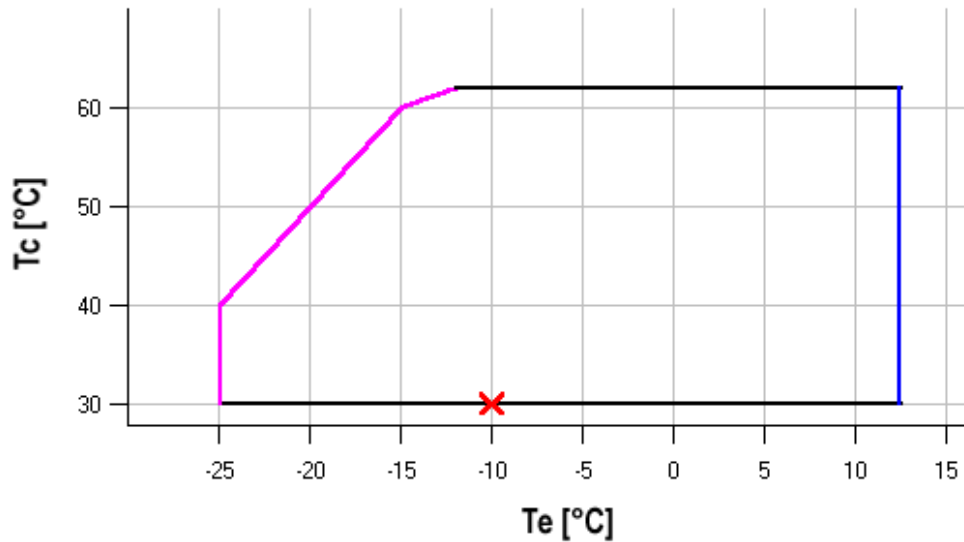
Model: D3DC-100 X

Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
30	2.33	2.78	3.29	3.89	4.63	5.57	6.79	8.47
35	2.04	2.44	2.87	3.38	3.98	4.71	5.63	6.83
40	1.78	2.14	2.52	2.95	3.44	4.03	4.75	5.65
45	-	1.87	2.21	2.58	2.99	3.48	4.05	4.75
50	-	1.64	1.94	2.26	2.61	3.01	3.48	4.04
55	-	-	1.70	1.98	2.28	2.62	3.01	3.46
60	-	-	1.49	1.74	2.00	2.28	2.61	2.98

Application range



- Maximum evaporating temperature
- 25°C suction gas return

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D3DC-100 X

Capacity

R134a

Cooling capacity [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15	20	25
40	6.50	8.86	11.67	15.01	18.95	23.58	28.98	35.22	-	-
45	5.70	7.98	10.67	13.85	17.61	22.02	27.16	33.12	39.97	47.80
50	4.93	7.12	9.69	12.71	16.27	20.46	25.34	31.00	37.53	45.00
55	4.20	6.29	8.73	11.58	14.95	18.89	23.51	28.87	35.07	42.17
60	-	5.50	7.79	10.47	13.63	17.34	21.68	26.73	32.58	39.31
65	-	4.74	6.88	9.38	12.32	15.78	19.84	24.58	30.08	36.43
70	-	-	6.00	8.32	11.03	14.24	18.01	22.42	27.57	33.52
75	-	-	-	7.27	9.76	12.70	16.17	20.25	25.03	30.59
80	-	-	-	6.25	8.50	11.17	14.33	18.08	22.49	27.64

Power input [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15	20	25
40	3.56	3.99	4.39	4.74	5.04	5.25	5.36	5.35	-	-
45	3.61	4.09	4.55	4.98	5.36	5.66	5.87	5.98	5.96	5.79
50	3.66	4.18	4.71	5.21	5.66	6.05	6.36	6.58	6.67	6.63
55	3.69	4.26	4.84	5.41	5.94	6.42	6.83	7.15	7.36	7.44
60	-	4.33	4.96	5.59	6.20	6.76	7.26	7.69	8.01	8.22
65	-	4.38	5.06	5.75	6.43	7.08	7.67	8.19	8.63	8.96
70	-	-	5.14	5.89	6.64	7.36	8.04	8.66	9.21	9.65
75	-	-	-	6.00	6.81	7.61	8.38	9.10	9.75	10.31
80	-	-	-	6.08	6.96	7.83	8.68	9.49	10.24	10.92

Model: D3DC-100 X

Capacity

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15	20	25
40	8.98	9.48	9.97	10.41	10.79	11.06	11.20	11.17	-	-
45	9.08	9.62	10.18	10.71	11.20	11.60	11.88	12.01	11.96	11.70
50	9.15	9.74	10.37	10.99	11.59	12.11	12.54	12.84	12.98	12.92
55	9.20	9.84	10.54	11.25	11.95	12.61	13.18	13.65	13.97	14.12
60	-	9.91	10.68	11.49	12.30	13.08	13.81	14.44	14.95	15.31
65	-	9.96	10.80	11.69	12.62	13.53	14.40	15.21	15.91	16.48
70	-	-	10.88	11.87	12.91	13.95	14.98	15.95	16.84	17.62
75	-	-	-	12.02	13.17	14.35	15.52	16.67	17.75	18.74
80	-	-	-	12.13	13.39	14.71	16.04	17.36	18.63	19.83

Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15	20	25
40	168.18	226.55	292.75	368.26	454.55	553.10	665.38	792.88	-	-
45	157.24	216.00	282.52	358.27	444.72	543.36	655.66	783.09	927.12	1089.25
50	145.77	204.87	271.65	347.59	434.16	532.83	645.08	772.40	916.24	1078.09
55	133.95	193.33	260.32	336.39	423.01	521.67	633.83	760.97	904.56	1066.09
60	-	181.55	248.70	324.84	411.47	510.05	622.06	748.97	892.26	1053.41
65	-	169.69	236.94	313.11	399.68	498.13	609.93	736.56	879.50	1040.21
70	-	-	225.21	301.35	387.81	486.08	597.62	723.92	866.44	1026.67
75	-	-	-	289.73	376.03	474.06	585.29	711.19	853.25	1012.94
80	-	-	-	278.42	364.51	462.24	573.10	698.56	840.10	999.18

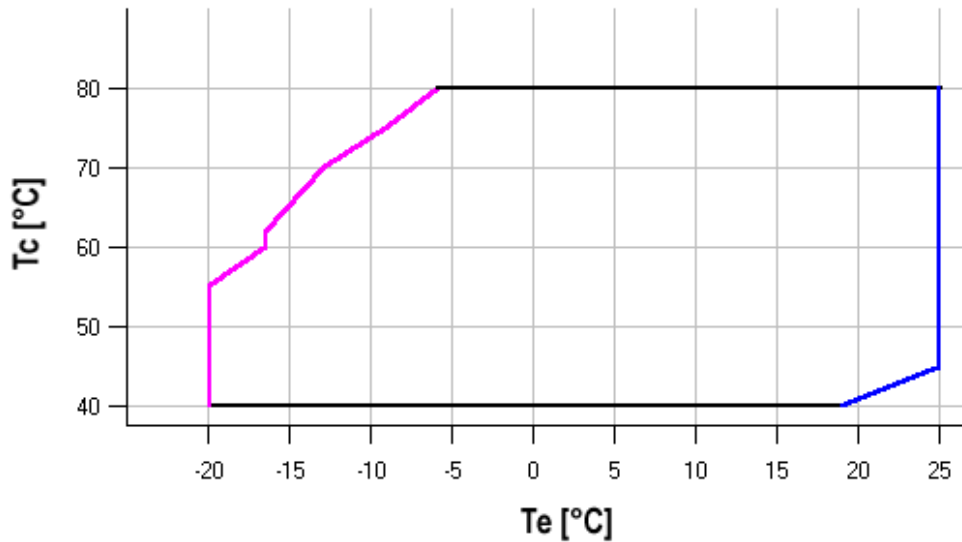
Model: D3DC-100 X

Capacity


C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15	20	25
40	1.83	2.22	2.66	3.16	3.76	4.49	5.41	6.58	-	-
45	1.58	1.95	2.34	2.78	3.29	3.89	4.62	5.54	6.71	8.26
50	1.35	1.70	2.06	2.44	2.88	3.38	3.98	4.71	5.62	6.78
55	1.14	1.48	1.80	2.14	2.52	2.94	3.44	4.04	4.77	5.67
60	-	1.27	1.57	1.87	2.20	2.56	2.98	3.48	4.07	4.78
65	-	1.08	1.36	1.63	1.92	2.23	2.59	3.00	3.49	4.07
70	-	-	1.17	1.41	1.66	1.93	2.24	2.59	2.99	3.47
75	-	-	-	1.21	1.43	1.67	1.93	2.23	2.57	2.97
80	-	-	-	1.03	1.22	1.43	1.65	1.91	2.20	2.53

Application range



 Maximum evaporating temperature

 20K suction superheat

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D3DC-100 X

Capacity

R404A/R507

Cooling capacity [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	7.09	9.39	12.20	15.58	19.59	24.29	29.74	36.01	43.15	51.23
25	6.58	8.79	11.47	14.66	18.44	22.86	27.98	33.87	40.58	48.18
30	5.98	8.10	10.63	13.63	17.17	21.29	26.07	31.57	37.85	44.97
35	5.34	7.35	9.73	12.53	15.81	19.63	24.06	29.16	34.99	41.61
40	4.69	6.59	8.80	11.38	14.40	17.92	21.99	26.68	32.05	38.17
45	-	5.84	7.88	10.24	12.99	16.18	19.88	24.16	29.06	34.66
50	-	5.15	7.00	9.13	11.60	14.46	17.79	21.63	26.06	31.13
55	-	-	6.21	8.10	10.27	12.80	15.73	19.14	23.09	27.62

Power input [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	3.54	4.04	4.50	4.91	5.26	5.51	5.65	5.65	5.51	5.20
25	3.70	4.25	4.78	5.26	5.69	6.04	6.29	6.42	6.41	6.24
30	3.80	4.40	4.99	5.55	6.06	6.50	6.86	7.11	7.22	7.19
35	3.87	4.51	5.15	5.78	6.37	6.91	7.36	7.72	7.97	8.07
40	3.91	4.59	5.29	5.98	6.64	7.26	7.82	8.29	8.65	8.89
45	-	4.66	5.41	6.16	6.89	7.60	8.24	8.82	9.30	9.66
50	-	4.74	5.53	6.33	7.14	7.92	8.65	9.33	9.92	10.41
55	-	-	5.67	6.52	7.39	8.24	9.07	9.84	10.54	11.14

Model: D3DC-100 X

Capacity

Current [A]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	9.02	9.61	10.18	10.69	11.11	11.41	11.55	11.49	11.20	10.65
25	9.12	9.76	10.41	11.03	11.57	12.02	12.33	12.47	12.41	12.10
30	9.20	9.89	10.61	11.32	11.99	12.58	13.06	13.40	13.55	13.49
35	9.26	10.00	10.79	11.59	12.38	13.11	13.75	14.28	14.64	14.81
40	9.33	10.10	10.95	11.84	12.74	13.61	14.41	15.11	15.68	16.09
45	-	10.21	11.11	12.09	13.09	14.08	15.04	15.92	16.69	17.32
50	-	10.32	11.28	12.32	13.42	14.54	15.65	16.70	17.67	18.52
55	-	-	11.45	12.57	13.76	15.00	16.25	17.47	18.63	19.69

Mass flow [kg/s]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	152.10	207.40	271.49	347.09	436.95	543.81	670.39	819.45	993.70	1 195.90
25	148.61	203.69	267.34	342.31	431.34	537.17	662.52	810.15	982.78	1 183.15
30	142.69	197.24	260.17	334.21	422.12	526.62	650.45	796.35	967.05	1 165.30
35	135.30	189.03	250.93	323.76	410.24	513.12	635.13	779.01	947.50	1 143.33
40	127.40	180.01	240.60	311.91	396.68	497.64	617.54	759.10	925.08	1 118.19
45	-	171.16	230.14	299.64	382.39	481.15	598.63	737.59	900.75	1 090.86
50	-	163.44	220.51	287.90	368.35	464.60	579.38	715.43	875.49	1 062.30
55	-	-	212.68	277.67	355.52	448.96	560.75	693.60	850.26	1 033.47

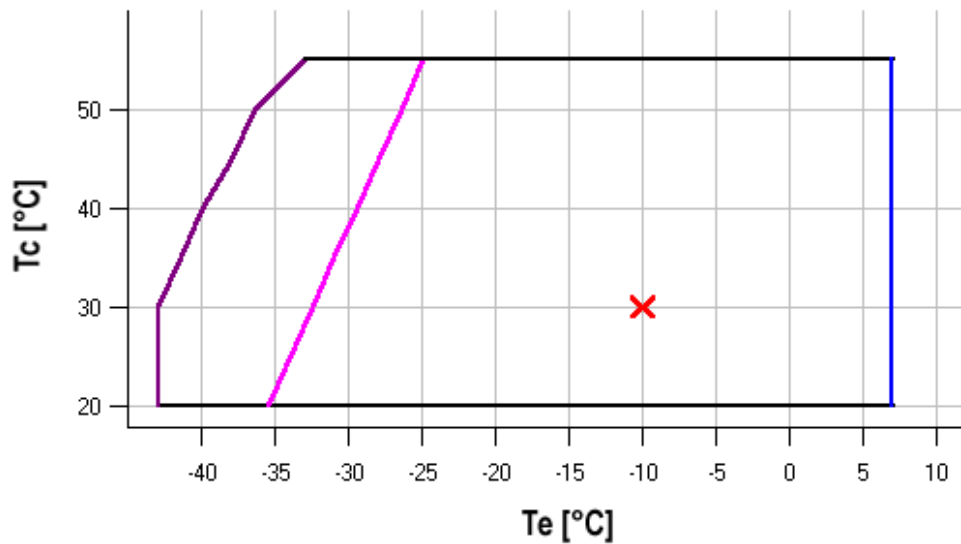
Model: D3DC-100 X




Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	2.00	2.33	2.71	3.17	3.73	4.41	5.27	6.37	7.83	9.86
25	1.78	2.07	2.40	2.79	3.24	3.78	4.45	5.27	6.33	7.72
30	1.57	1.84	2.13	2.46	2.83	3.27	3.80	4.44	5.24	6.25
35	1.38	1.63	1.89	2.17	2.48	2.84	3.27	3.78	4.39	5.16
40	1.20	1.43	1.66	1.90	2.17	2.47	2.81	3.22	3.70	4.29
45	-	1.25	1.46	1.66	1.88	2.13	2.41	2.74	3.13	3.59
50	-	1.09	1.27	1.44	1.62	1.83	2.05	2.32	2.63	2.99
55	-	-	1.10	1.24	1.39	1.55	1.74	1.95	2.19	2.48

Application range



-  Maximum evaporating temperature
-  25°C suction gas return
-  25°C suction gas return + additional cooling

Operating conditions: ISO; subcooling: 0 K, suction superheat: - K, return gas temperature: 20

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D3DC-100 X

Capacity

R407C

Cooling capacity [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15
35	11.63	15.19	19.56	24.78	30.90	37.96	46.00	-
40	10.56	13.84	17.89	22.76	28.49	35.12	42.70	-
45	9.57	12.57	16.30	20.82	26.17	32.38	39.50	-
50	-	11.37	14.80	18.97	23.93	29.73	36.40	-
55	-	10.24	13.37	17.20	21.79	27.17	33.39	-
60	-	-	12.02	15.51	19.72	24.69	30.47	-

Power input [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15
35	5.08	5.57	6.03	6.42	6.70	6.84	6.80	-
40	5.33	5.88	6.42	6.91	7.32	7.61	7.73	-
45	5.58	6.18	6.79	7.38	7.90	8.32	8.61	-
50	-	6.46	7.14	7.81	8.45	9.00	9.44	-
55	-	6.75	7.48	8.23	8.97	9.64	10.22	-
60	-	-	7.82	8.64	9.46	10.25	10.97	-

Model: D3DC-100 X

Capacity

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
35	10.71	11.43	12.11	12.70	13.13	13.34	13.27	-
40	11.08	11.89	12.70	13.44	14.06	14.50	14.69	-
45	11.44	12.33	13.25	14.14	14.94	15.59	16.03	-
50	-	12.77	13.79	14.82	15.78	16.63	17.31	-
55	-	13.20	14.31	15.46	16.58	17.62	18.52	-
60	-	-	14.82	16.08	17.35	18.57	19.68	-

Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
35	256.76	329.71	417.39	520.19	638.51	772.74	923.27	-
40	245.64	315.96	401.10	501.47	617.46	749.46	897.86	-
45	235.18	302.88	385.52	483.49	597.18	726.98	873.29	-
50	-	290.69	370.86	466.45	577.87	705.50	849.75	-
55	-	279.57	357.30	450.55	559.73	685.22	827.43	-
60	-	-	345.03	435.98	542.94	666.33	806.53	-

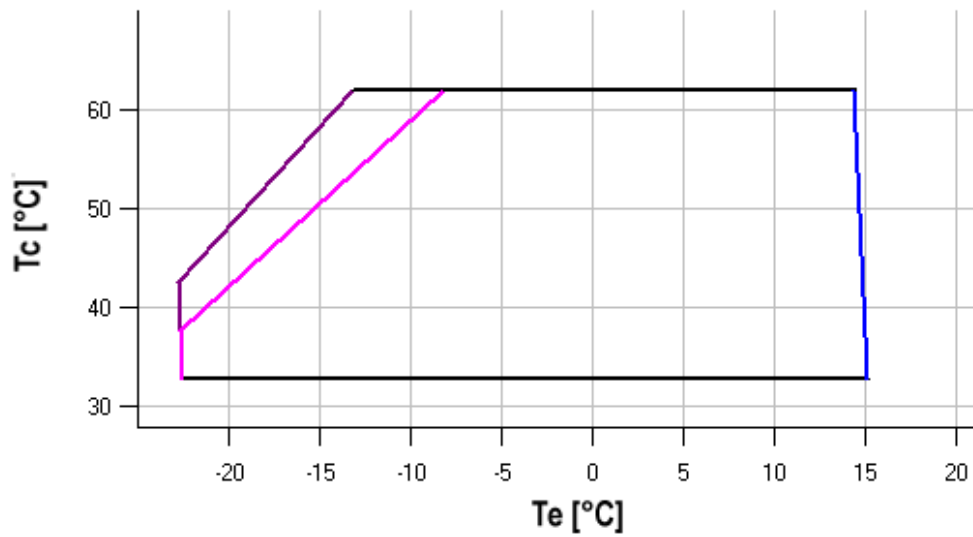
Model: D3DC-100 X

Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
35	2.29	2.73	3.24	3.86	4.61	5.55	6.77	-
40	1.98	2.35	2.79	3.29	3.89	4.62	5.52	-
45	1.71	2.03	2.40	2.82	3.31	3.89	4.59	-
50	-	1.76	2.07	2.43	2.83	3.30	3.86	-
55	-	1.52	1.79	2.09	2.43	2.82	3.27	-
60	-	-	1.54	1.80	2.08	2.41	2.78	-

Application range

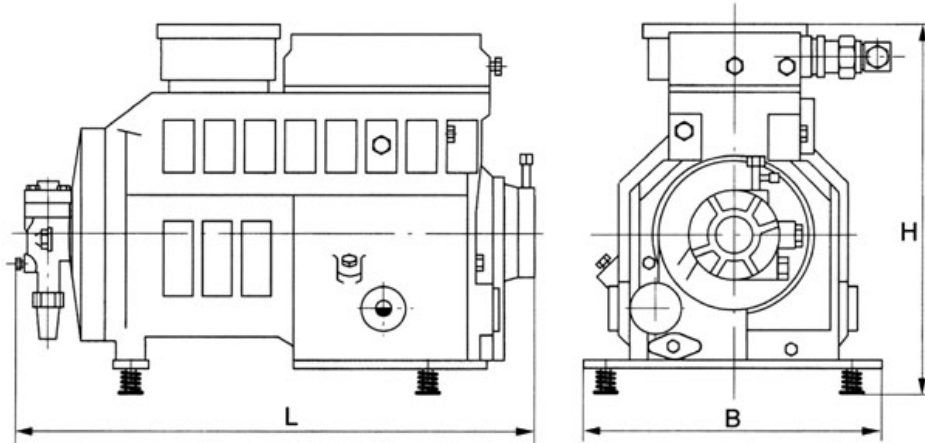


- Maximum evaporating temperature
- 25°C suction gas return
- 20K suction superheat

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -
 t_c - Condensing temperature [°C]
 t_e - Evaporating temperature [°C]

Model: D3DC-100 X

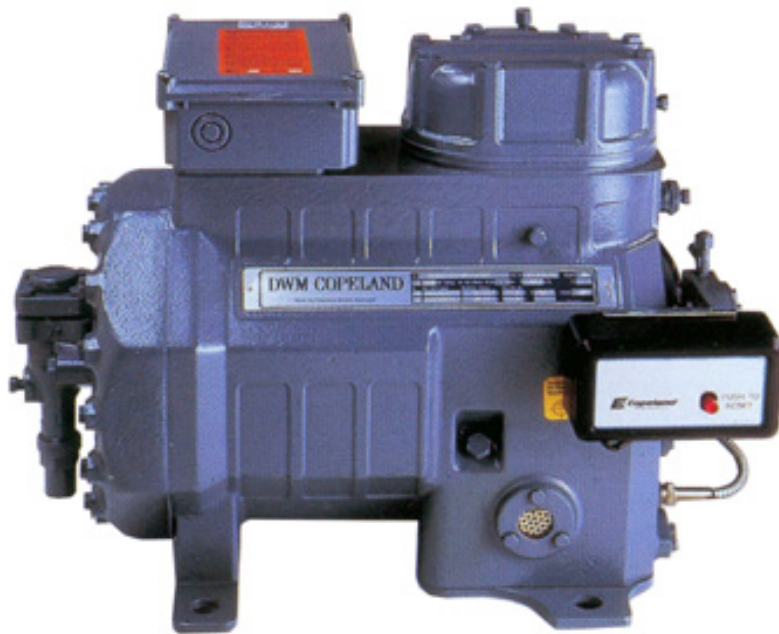
Dimensions



L	680 mm
B	370 mm
H	480 mm

Model: D3DC-100 X

Image



Model: D3DS-150 X

Data

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DISCUS

Model: D3DS-150 X

Technical data

Cylinder count:	3
Displacement [m ³ /h]:	49,9
Weight [kg]:	178
Oil charge [dm ³]:	3,4
Max. operating current [A]:	29
Locked rotor current [A]:	129
Power supply [V/~/Hz]:	380-420V/3/50Hz

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:		1 5/8"
Discharge line:		1 1/8"

Model: D3DS-150 X

Capacity

R22

Cooling capacity [kW]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
30	15.90	20.07	24.97	30.68	37.33	45.03	53.87	63.98
35	14.85	18.89	23.58	29.04	35.37	42.69	51.10	60.72
40	13.82	17.71	22.20	27.39	33.41	40.35	48.33	57.45
45	-	16.55	20.83	25.76	31.45	38.01	45.55	54.17
50	-	15.43	19.49	24.15	29.51	35.68	42.77	50.89
55	-	-	18.19	22.57	27.60	33.38	40.02	47.63
60	-	-	16.94	21.04	25.72	31.11	37.29	44.39

Power input [kW]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
30	6.68	7.25	7.74	8.13	8.39	8.49	8.40	8.09
35	7.00	7.66	8.26	8.78	9.18	9.44	9.53	9.42
40	7.31	8.06	8.76	9.40	9.94	10.36	10.62	10.70
45	-	8.44	9.25	10.00	10.67	11.24	11.67	11.93
50	-	8.82	9.72	10.58	11.38	12.09	12.68	13.12
55	-	-	10.18	11.15	12.07	12.92	13.66	14.28
60	-	-	10.65	11.71	12.75	13.73	14.62	15.40

Model: D3DS-150 X

Capacity

Current [A]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10
30	13.59	14.47	15.23	15.84	16.24	16.39	16.25	15.77
35	14.08	15.10	16.04	16.85	17.48	17.88	18.02	17.85
40	14.56	15.72	16.82	17.82	18.67	19.32	19.74	19.86
45	-	16.32	17.58	18.76	19.82	20.72	21.39	21.82
50	-	16.91	18.32	19.68	20.94	22.07	23.01	23.71
55	-	-	19.05	20.58	22.04	23.39	24.58	25.56
60	-	-	19.78	21.47	23.12	24.68	26.11	27.36

Mass flow [kg/s]

t_c \ t_e	-25	-20	-15	-10	-5	0	5	10
30	302.98	385.92	481.99	594.60	727.17	883.12	1 065.85	1 278.78
35	293.16	375.77	471.13	582.66	713.78	867.89	1 048.42	1 258.78
40	283.35	365.46	459.94	570.22	699.71	851.82	1 029.98	1 237.59
45	-	355.28	448.72	557.57	685.27	835.21	1 010.82	1 215.52
50	-	345.56	437.77	545.04	670.76	818.37	991.26	1 192.87
55	-	-	427.41	532.91	656.50	801.60	971.61	1 169.95
60	-	-	417.94	521.51	642.79	785.20	952.16	1 147.07

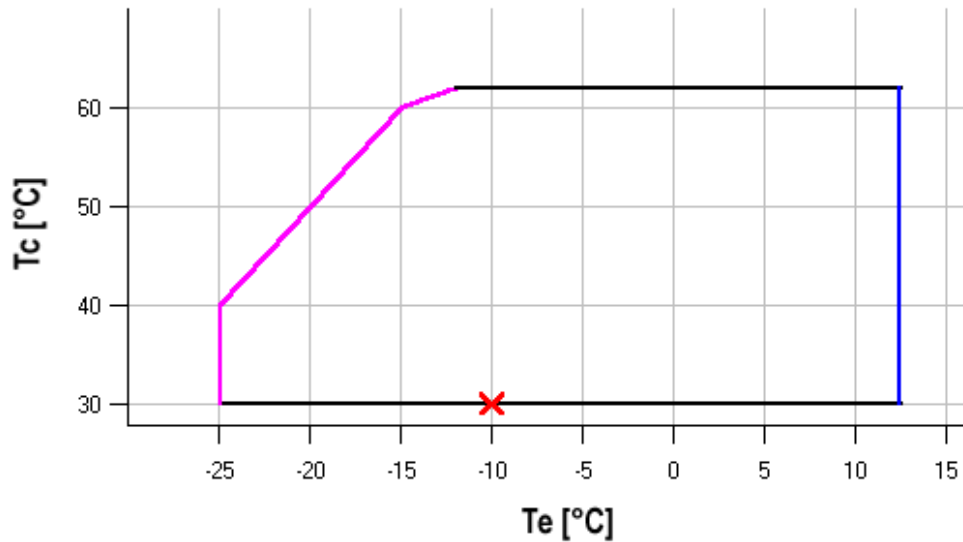
Model: D3DS-150 X



Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
30	2.38	2.77	3.22	3.77	4.45	5.30	6.42	7.91
35	2.12	2.47	2.85	3.31	3.85	4.52	5.36	6.45
40	1.89	2.20	2.53	2.91	3.36	3.90	4.55	5.37
45	-	1.96	2.25	2.58	2.95	3.38	3.90	4.54
50	-	1.75	2.01	2.28	2.59	2.95	3.37	3.88
55	-	-	1.79	2.02	2.29	2.58	2.93	3.34
60	-	-	1.59	1.80	2.02	2.27	2.55	2.88

Application range



 Maximum evaporating temperature
 25°C suction gas return

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D3DS-150 X

Capacity

R134a

Cooling capacity [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15	20	25
40	9.57	12.61	16.24	20.56	25.68	31.70	38.73	46.87	-	-
45	8.61	11.54	15.01	19.12	23.99	29.72	36.40	44.15	53.06	63.25
50	7.69	10.49	13.79	17.69	22.30	27.71	34.04	41.39	49.85	59.54
55	6.81	9.48	12.60	16.27	20.60	25.70	31.66	38.59	46.60	55.78
60	-	8.50	11.42	14.86	18.91	23.67	29.25	35.76	43.29	51.96
65	-	7.55	10.27	13.46	17.21	21.63	26.82	32.89	39.94	48.08
70	-	-	9.14	12.07	15.51	19.58	24.37	29.99	36.55	44.15
75	-	-	-	10.69	13.82	17.51	21.90	27.06	33.11	40.16
80	-	-	-	9.33	12.12	15.44	19.40	24.10	29.64	36.12

Power input [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15	20	25
40	5.06	5.60	6.12	6.58	6.97	7.26	7.42	7.44	-	-
45	5.18	5.80	6.39	6.95	7.45	7.86	8.16	8.33	8.35	8.19
50	5.31	5.98	6.66	7.30	7.90	8.43	8.87	9.19	9.37	9.39
55	5.43	6.16	6.90	7.64	8.34	8.98	9.55	10.01	10.35	10.54
60	-	6.33	7.13	7.95	8.75	9.50	10.19	10.80	11.29	11.65
65	-	6.48	7.35	8.24	9.13	9.99	10.80	11.54	12.18	12.71
70	-	-	7.54	8.50	9.47	10.44	11.36	12.24	13.02	13.71
75	-	-	-	8.73	9.79	10.85	11.89	12.88	13.81	14.65
80	-	-	-	8.93	10.07	11.22	12.36	13.48	14.55	15.54

Model: D3DS-150 X

Capacity

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15	20	25
40	11.96	12.63	13.28	13.88	14.38	14.76	14.96	14.95	-	-
45	12.16	12.89	13.63	14.35	15.00	15.55	15.96	16.18	16.18	15.92
50	12.35	13.13	13.96	14.80	15.60	16.33	16.94	17.40	17.66	17.70
55	12.51	13.36	14.28	15.23	16.18	17.09	17.90	18.60	19.13	19.46
60	-	13.56	14.57	15.64	16.74	17.82	18.85	19.78	20.58	21.20
65	-	13.73	14.83	16.03	17.27	18.53	19.77	20.94	22.00	22.92
70	-	-	15.07	16.38	17.78	19.22	20.66	22.07	23.40	24.61
75	-	-	-	16.71	18.26	19.88	21.53	23.17	24.77	26.28
80	-	-	-	17.01	18.70	20.50	22.36	24.25	26.11	27.92

Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15	20	25
40	248.46	322.62	407.34	504.49	615.94	743.57	889.26	1 054.87	-	-
45	237.60	312.14	397.11	494.36	605.79	733.25	878.63	1 043.81	1 230.65	1 441.03
50	226.84	301.53	386.50	483.63	594.79	721.85	866.69	1 031.19	1 217.22	1 426.65
55	216.35	290.94	375.68	472.44	583.09	709.52	853.58	1 017.16	1 202.14	1 410.38
60	-	280.53	364.80	460.95	570.86	696.40	839.45	1 001.88	1 185.57	1 392.38
65	-	270.45	354.00	449.31	558.24	682.66	824.46	985.49	1 167.65	1 372.81
70	-	-	343.45	437.67	545.38	668.44	808.74	968.15	1 148.55	1 351.80
75	-	-	-	426.18	532.43	653.90	792.47	950.01	1 128.40	1 329.51
80	-	-	-	414.99	519.54	639.18	775.78	931.22	1 107.36	1 306.09

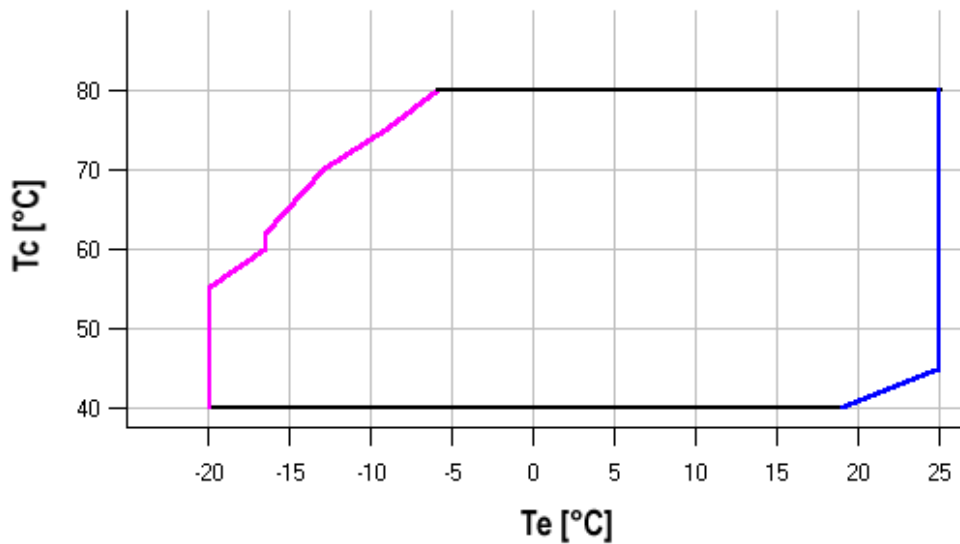
Model: D3DS-150 X

Capacity


C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15	20	25
40	1.89	2.25	2.65	3.12	3.68	4.37	5.22	6.30	-	-
45	1.66	1.99	2.35	2.75	3.22	3.78	4.46	5.30	6.36	7.73
50	1.45	1.75	2.07	2.42	2.82	3.29	3.84	4.50	5.32	6.34
55	1.25	1.54	1.82	2.13	2.47	2.86	3.32	3.85	4.50	5.29
60	-	1.34	1.60	1.87	2.16	2.49	2.87	3.31	3.83	4.46
65	-	1.17	1.40	1.63	1.89	2.17	2.48	2.85	3.28	3.78
70	-	-	1.21	1.42	1.64	1.88	2.14	2.45	2.81	3.22
75	-	-	-	1.22	1.41	1.61	1.84	2.10	2.40	2.74
80	-	-	-	1.04	1.20	1.38	1.57	1.79	2.04	2.32

Application range



 Maximum evaporating temperature

 20K suction superheat

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D3DS-150 X

Capacity

R404A/R507

Cooling capacity [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	9.92	12.84	16.42	20.71	25.82	31.81	38.76	46.76	55.89	66.22
25	9.45	12.29	15.72	19.81	24.65	30.31	36.87	44.42	53.03	62.78
30	8.74	11.48	14.75	18.61	23.16	28.47	34.62	41.69	49.76	58.91
35	7.89	10.50	13.58	17.19	21.43	26.36	32.08	38.65	46.16	54.69
40	6.97	9.44	12.30	15.64	19.54	24.08	29.34	35.39	42.33	50.21
45	-	8.37	11.01	14.06	17.60	21.72	26.50	32.01	38.34	45.56
50	-	7.40	9.78	12.51	15.68	19.36	23.64	28.59	34.29	40.83
55	-	-	8.71	11.11	13.88	17.10	20.85	25.21	30.27	36.09

Power input [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	4.94	5.58	6.20	6.76	7.25	7.63	7.88	7.98	7.89	7.59
25	5.14	5.84	6.53	7.19	7.78	8.28	8.67	8.91	8.99	8.88
30	5.30	6.06	6.82	7.56	8.25	8.87	9.39	9.79	10.03	10.09
35	5.44	6.25	7.08	7.90	8.69	9.42	10.07	10.61	11.01	11.24
40	5.56	6.42	7.31	8.21	9.10	9.94	10.71	11.39	11.94	12.35
45	-	6.58	7.53	8.50	9.48	10.43	11.32	12.13	12.84	13.41
50	-	6.73	7.74	8.79	9.85	10.90	11.91	12.85	13.71	14.44
55	-	-	7.96	9.07	10.22	11.36	12.49	13.56	14.56	15.45

Model: D3DS-150 X

Capacity

Current [A]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	11.80	12.62	13.41	14.13	14.73	15.19	15.45	15.47	15.21	14.63
25	12.03	12.92	13.81	14.67	15.46	16.12	16.62	16.91	16.96	16.71
30	12.23	13.18	14.18	15.17	16.12	16.98	17.71	18.27	18.62	18.71
35	12.41	13.42	14.51	15.63	16.73	17.79	18.74	19.56	20.20	20.61
40	12.57	13.64	14.81	16.05	17.31	18.54	19.72	20.79	21.71	22.44
45	-	13.85	15.10	16.45	17.85	19.27	20.65	21.96	23.16	24.20
50	-	14.07	15.39	16.84	18.38	19.96	21.55	23.10	24.57	25.91
55	-	-	15.68	17.22	18.89	20.64	22.42	24.20	25.93	27.57

Mass flow [kg/s]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	213.46	283.76	365.22	461.38	575.78	711.97	873.49	1 063.88	1 286.68	1 545.43
25	213.82	284.60	366.32	462.50	576.71	712.47	873.33	1 062.82	1 284.50	1 541.91
30	208.60	279.22	360.55	456.12	569.48	704.16	863.71	1 051.68	1 271.59	1 527.00
35	199.77	269.59	349.89	444.20	556.06	689.02	846.62	1 032.40	1 249.91	1 502.67
40	189.30	257.68	336.30	428.70	538.43	669.02	824.03	1 006.98	1 221.43	1 470.91
45	-	245.45	321.75	411.60	518.54	646.13	797.89	977.37	1 188.12	1 433.67
50	-	234.88	308.21	394.86	498.38	622.31	770.18	945.55	1 151.95	1 392.92
55	-	-	297.66	380.47	479.91	599.53	742.88	913.48	1 114.89	1 350.64

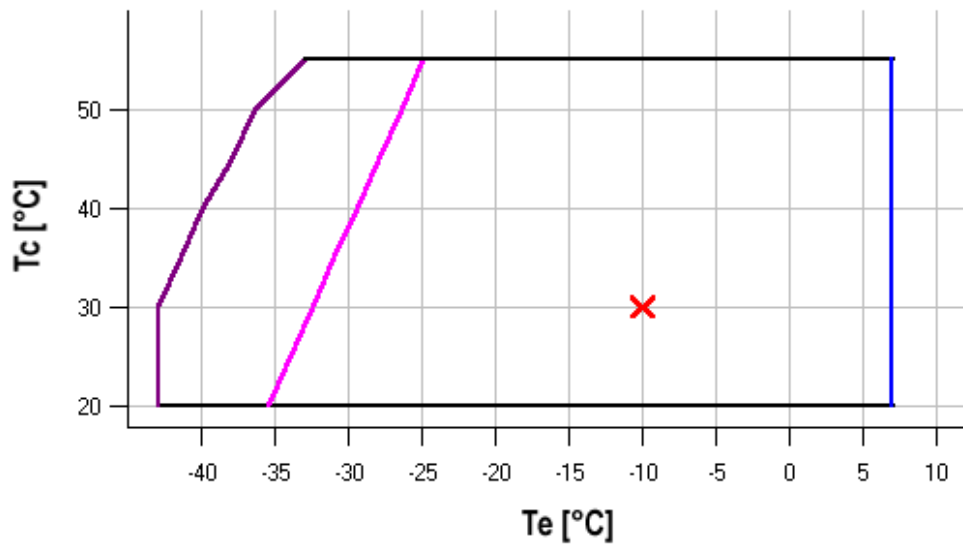
Model: D3DS-150 X




Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	2.01	2.30	2.65	3.06	3.56	4.17	4.92	5.86	7.08	8.72
25	1.84	2.10	2.41	2.76	3.17	3.66	4.25	4.98	5.90	7.07
30	1.65	1.90	2.16	2.46	2.81	3.21	3.68	4.26	4.96	5.84
35	1.45	1.68	1.92	2.18	2.47	2.80	3.18	3.64	4.19	4.86
40	1.25	1.47	1.68	1.91	2.15	2.42	2.74	3.11	3.54	4.07
45	-	1.27	1.46	1.65	1.86	2.08	2.34	2.64	2.99	3.40
50	-	1.10	1.26	1.42	1.59	1.78	1.99	2.22	2.50	2.83
55	-	-	1.09	1.22	1.36	1.50	1.67	1.86	2.08	2.34

Application range



-  Maximum evaporating temperature
-  25°C suction gas return
-  25°C suction gas return + additional cooling

Operating conditions: ISO; subcooling: 0 K, suction superheat: - K, return gas temperature: 20

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Model: D3DS-150 X

Capacity

R407C

Cooling capacity [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15
35	16.89	21.27	26.65	33.09	40.65	49.42	59.46	-
40	15.74	19.80	24.79	30.78	37.84	46.03	55.42	-
45	14.64	18.39	23.01	28.55	35.10	42.72	51.48	-
50	-	17.03	21.27	26.39	32.44	39.50	47.63	-
55	-	15.70	19.58	24.28	29.84	36.34	43.86	-
60	-	-	17.93	22.21	27.29	33.25	40.16	-

Power input [kW]

t_c \ t_e	-20	-15	-10	-5	0	5	10	15
35	7.01	7.62	8.19	8.70	9.08	9.28	9.27	-
40	7.40	8.08	8.76	9.39	9.92	10.31	10.51	-
45	7.79	8.53	9.30	10.05	10.73	11.29	11.69	-
50	-	8.97	9.82	10.68	11.49	12.22	12.81	-
55	-	9.40	10.32	11.28	12.22	13.11	13.88	-
60	-	-	10.81	11.86	12.92	13.95	14.90	-

Model: D3DS-150 X

Capacity

Current [A]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
35	14.10	15.04	15.94	16.73	17.32	17.65	17.63	-
40	14.71	15.77	16.83	17.82	18.66	19.27	19.59	-
45	15.32	16.47	17.68	18.85	19.93	20.82	21.45	-
50	-	17.16	18.50	19.85	21.14	22.29	23.23	-
55	-	17.83	19.29	20.80	22.30	23.70	24.93	-
60	-	-	20.06	21.72	23.40	25.04	26.56	-

Mass flow [kg/s]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
35	322.35	409.37	515.55	643.98	797.75	979.96	1 193.68	-
40	314.50	398.43	501.40	626.50	776.81	955.44	1 165.47	-
45	307.14	388.07	487.92	609.78	756.73	931.87	1 138.29	-
50	-	378.32	475.15	593.85	737.54	909.28	1 112.19	-
55	-	369.23	463.12	578.77	719.27	887.72	1 087.20	-
60	-	-	451.88	564.57	701.98	867.22	1 063.37	-

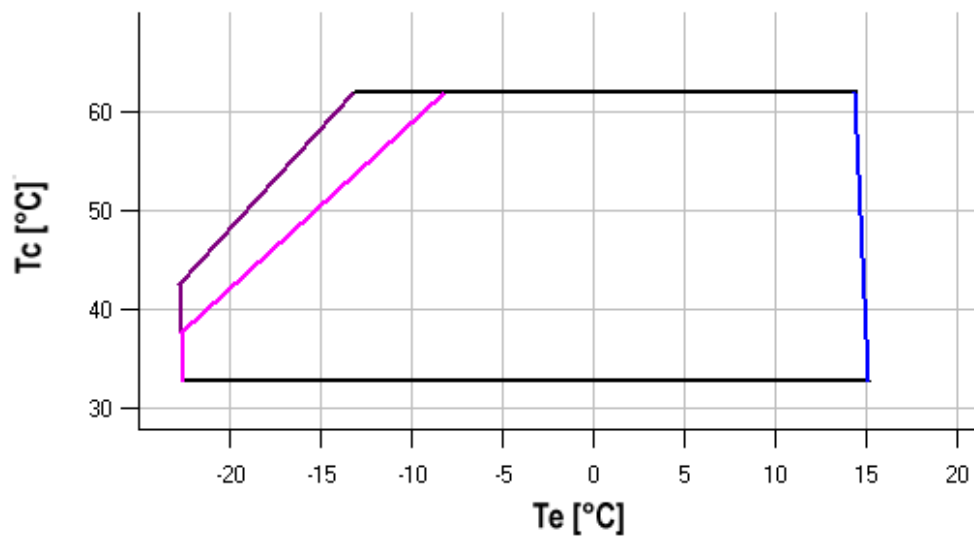
Model: D3DS-150 X

Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	10	15
35	2.41	2.79	3.25	3.80	4.48	5.32	6.41	-
40	2.13	2.45	2.83	3.28	3.81	4.46	5.27	-
45	1.88	2.16	2.47	2.84	3.27	3.78	4.40	-
50	-	1.90	2.17	2.47	2.82	3.23	3.72	-
55	-	1.67	1.90	2.15	2.44	2.77	3.16	-
60	-	-	1.66	1.87	2.11	2.38	2.70	-

Application range

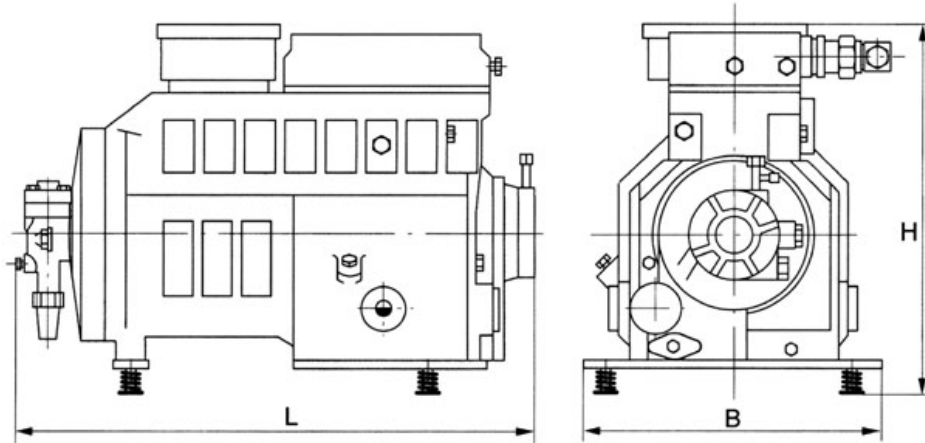


- Maximum evaporating temperature
- 25°C suction gas return
- 20K suction superheat

Operating conditions: ISO; subcooling: 0 K, suction superheat: 10 K, return gas temperature: -
 t_c - Condensing temperature [°C]
 t_e - Evaporating temperature [°C]

Model: D3DS-150 X

Dimensions



L	710 mm
B	370 mm
H	490 mm

Model: D3DS-150 X

Image

