

Type: Semi-hermetic piston compressors**Producer: Copeland****Series: DL****Model: DLL-301****Technical data**

Cylinder count:	2
Displacement [m ³ /h]:	18,2
Weight [kg]:	91
Oil charge [dm ³]:	2,3
Max. operating current [A]:	7,1
Locked rotor current [A]:	53
Power supply [V/~/Hz]:	380-420V/3/50Hz

Connections

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

R22

Cooling capacity [kW]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
25	0.74	1.37	2.18	3.19	4.43	5.90	7.63	9.63	11.93	14.54
30	0.55	1.13	1.89	2.84	4.01	5.42	7.07	8.99	11.19	13.70
35	-	0.90	1.61	2.51	3.61	4.94	6.52	8.35	10.47	12.87
40	-	-	1.34	2.18	3.22	4.48	5.98	7.73	-	-
45	-	-	-	1.87	2.85	4.04	5.45	-	-	-
50	-	-	-	-	2.49	3.60	-	-	-	-
55	-	-	-	-	2.14	3.19	-	-	-	-

Power input [kW]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
25	1.20	1.42	1.67	1.92	2.17	2.42	2.64	2.84	3.01	3.12
30	1.18	1.42	1.68	1.96	2.24	2.52	2.80	3.05	3.26	3.44
35	-	1.41	1.69	1.99	2.30	2.62	2.94	3.23	3.51	3.75
40	-	-	1.68	2.01	2.35	2.71	3.07	3.41	-	-
45	-	-	-	2.02	2.40	2.79	3.18	-	-	-
50	-	-	-	-	2.43	2.86	-	-	-	-
55	-	-	-	-	2.46	2.91	-	-	-	-

Current [A]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
25	3.93	4.09	4.30	4.54	4.80	5.06	5.31	5.54	5.72	5.86
30	3.92	4.09	4.32	4.58	4.87	5.18	5.48	5.77	6.03	6.25
35	-	4.08	4.32	4.61	4.94	5.28	5.64	5.99	6.32	6.63
40	-	-	4.32	4.63	4.99	5.38	5.79	6.20	-	-
45	-	-	-	4.65	5.04	5.47	5.93	-	-	-
50	-	-	-	-	5.08	5.55	-	-	-	-
55	-	-	-	-	5.10	5.62	-	-	-	-

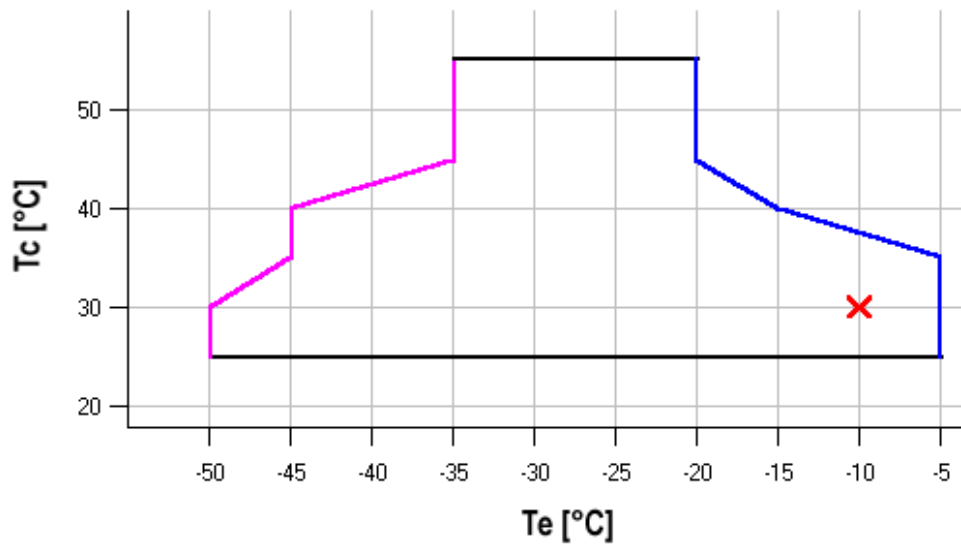
Mass flow [kg/s]

t_c \ t_e	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
25	16.68	30.33	47.63	68.83	94.13	123.75	157.93	196.87	240.80	289.94
30	12.91	26.07	42.93	63.71	88.64	117.94	151.82	190.51	234.23	283.19
35	-	21.72	38.12	58.49	83.04	111.99	145.57	183.99	227.49	276.27
40	-	-	33.23	53.16	77.32	105.92	139.18	177.34	-	-
45	-	-	-	47.76	71.51	99.74	132.68	-	-	-
50	-	-	-	-	65.61	93.47	-	-	-	-
55	-	-	-	-	59.64	87.12	-	-	-	-

C.O.P. [W/W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
25	0.62	0.96	1.31	1.66	2.04	2.44	2.89	3.39	3.97	4.65
30	0.46	0.79	1.12	1.45	1.79	2.15	2.53	2.95	3.43	3.98
35	-	0.64	0.95	1.26	1.57	1.89	2.22	2.58	2.98	3.44
40	-	-	0.80	1.09	1.37	1.65	1.95	2.27	-	-
45	-	-	-	0.93	1.19	1.45	1.71	-	-	-
50	-	-	-	-	1.02	1.26	-	-	-	-
55	-	-	-	-	0.87	1.09	-	-	-	-

Application range

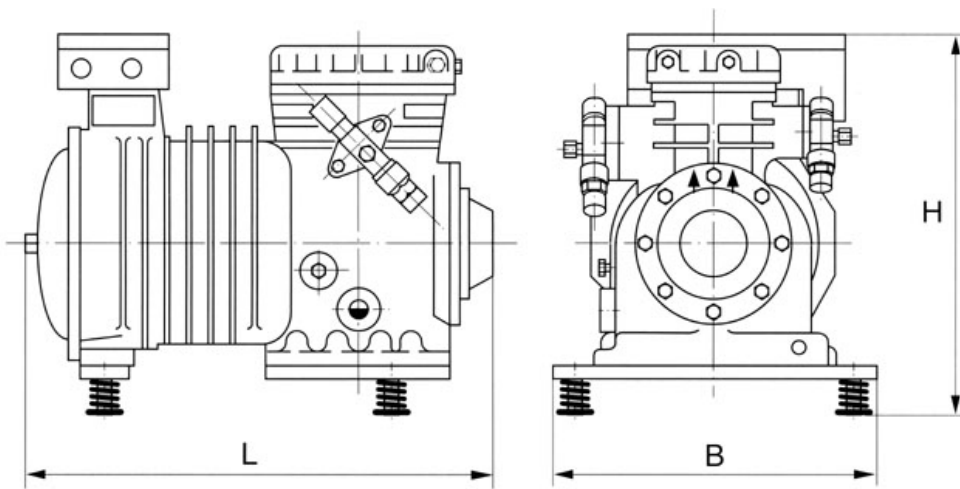


- Maximum evaporating temperature
- 25°C suction gas return + additional cooling

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]



L	460 mm
B	330 mm
H	385 mm

