

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

Cylinder count:	2
Displacement [m ³ /h]:	14,5
Weight [kg]:	89
Oil charge [dm ³]:	2,3
Max. operating current [A]:	7,4
Locked rotor current [A]:	53
Power supply [V/~/Hz]:	380-420V/3/50Hz

Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:		7/8"
Discharge line:		5/8"

R22

Cooling capacity [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
30	1.38	2.11	3.06	4.23	5.61	7.21	9.03	11.06	13.30	15.76	18.42
35	1.14	1.81	2.70	3.80	5.11	6.63	8.35	10.28	12.42	14.76	17.31
40	0.92	1.55	2.37	3.40	4.64	6.07	7.70	9.53	11.56	13.79	16.21
45	0.73	1.30	2.07	3.03	4.19	5.54	7.08	8.81	10.73	12.85	15.15
50	0.56	1.08	1.79	2.68	3.76	5.03	6.48	8.11	9.93	11.93	14.11
55	0.43	0.89	1.54	2.36	3.37	4.55	5.91	7.44	9.15	11.03	-
60	-	-	1.32	2.07	3.00	4.10	5.37	6.80	8.40	-	-

Power input [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
30	1.34	1.59	1.84	2.09	2.33	2.53	2.70	2.82	2.87	2.85	2.75
35	1.32	1.59	1.87	2.15	2.42	2.66	2.86	3.03	3.13	3.16	3.12
40	1.29	1.58	1.89	2.19	2.49	2.77	3.01	3.22	3.37	3.45	3.46
45	1.26	1.57	1.90	2.23	2.55	2.86	3.15	3.39	3.58	3.72	3.78
50	1.23	1.56	1.90	2.25	2.61	2.95	3.26	3.55	3.78	3.96	4.08
55	1.20	1.54	1.90	2.27	2.65	3.02	3.37	3.69	3.97	4.19	-
60	-	-	1.90	2.29	2.69	3.09	3.47	3.82	4.14	-	-

Current [A]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
30	3.90	4.12	4.37	4.63	4.89	5.12	5.31	5.44	5.50	5.48	5.35
35	3.88	4.12	4.40	4.69	4.98	5.25	5.49	5.68	5.81	5.85	5.80
40	3.86	4.12	4.42	4.73	5.06	5.37	5.66	5.91	6.09	6.21	6.23
45	3.84	4.11	4.43	4.77	5.13	5.49	5.82	6.12	6.37	6.55	6.64
50	3.81	4.10	4.43	4.80	5.20	5.59	5.97	6.33	6.63	6.88	7.04
55	3.78	4.08	4.43	4.83	5.25	5.69	6.11	6.52	6.88	7.19	-
60	-	-	4.42	4.84	5.30	5.77	6.24	6.70	7.12	-	-

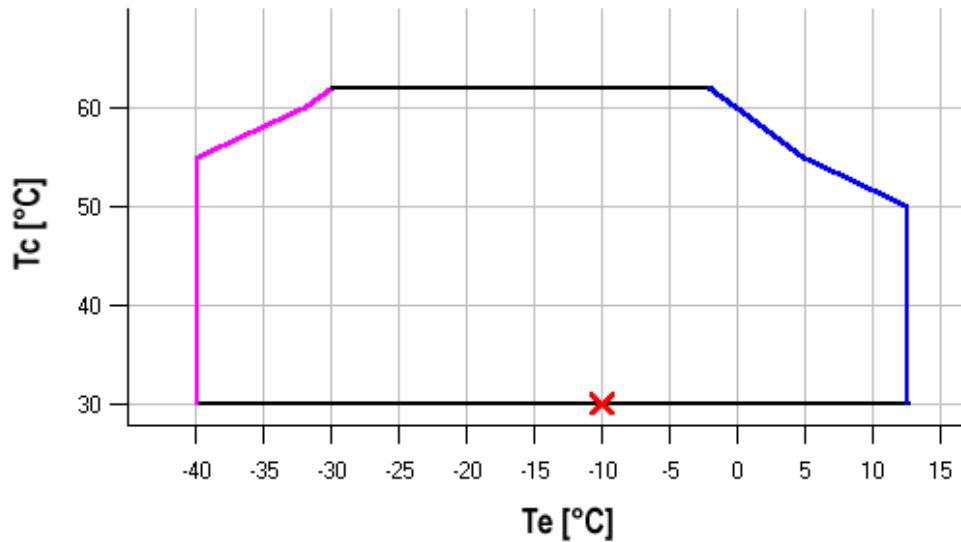
Mass flow [kg/s]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
30	31.31	47.27	67.54	91.98	120.46	152.83	188.95	228.68	271.89	318.42	368.15
35	26.98	42.43	62.19	86.12	114.08	145.93	181.53	220.74	263.41	309.42	358.61
40	22.84	37.77	57.01	80.41	107.84	139.16	174.22	212.89	255.02	300.48	349.12
45	18.93	33.33	52.04	74.90	101.79	132.56	167.07	205.18	246.76	291.65	339.73
50	15.31	29.17	47.32	69.63	95.97	126.18	160.12	197.67	238.68	283.00	330.50
55	12.03	25.33	42.92	64.67	90.43	120.07	153.44	190.41	230.83	274.57	-
60	-	-	38.88	60.05	85.23	114.28	147.06	183.44	223.26	-	-

C.O.P. [W/W]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
30	1.03	1.33	1.66	2.02	2.41	2.85	3.35	3.93	4.63	5.52	6.69
35	0.86	1.14	1.45	1.77	2.12	2.49	2.92	3.40	3.97	4.67	5.55
40	0.71	0.98	1.26	1.55	1.86	2.19	2.56	2.96	3.44	4.00	4.68
45	0.58	0.83	1.09	1.36	1.64	1.93	2.25	2.60	2.99	3.46	4.01
50	0.46	0.70	0.94	1.19	1.44	1.71	1.98	2.29	2.62	3.01	3.46
55	0.36	0.58	0.81	1.04	1.27	1.51	1.75	2.02	2.31	2.63	-
60	-	-	0.69	0.91	1.11	1.33	1.55	1.78	2.03	-	-

Application range

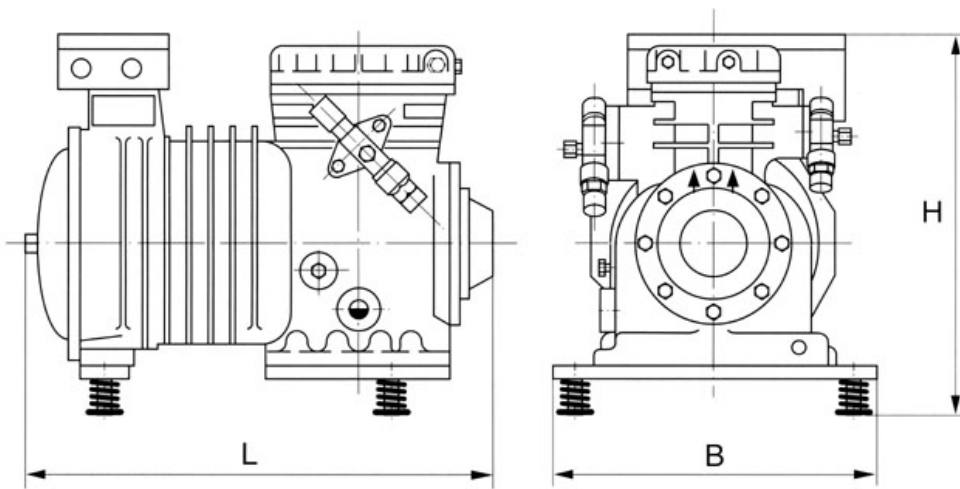


- Maximum evaporating temperature
- 25°C suction gas return + additional cooling

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

