



# Model: DKSJ-150

## Data

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Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DK

## Model: DKSJ-150

### Technical data

Cylinder count:	2
Displacement [m <sup>3</sup> /h]:	6,3
Weight [kg]:	42
Oil charge [dm <sup>3</sup> ]:	0,6
Max. operating current [A]:	3,3
Locked rotor current [A]:	20,4
Power supply [V/~/Hz]:	380-420V/3/50Hz

### Connections

	<u>milimeters</u>	<u>inches</u>
Suction line:		5/8"
Discharge line:		1/2"

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**Cooling capacity [kW]**

<b>t<sub>c</sub> \ t<sub>e</sub></b>	<b>-40</b>	<b>-35</b>	<b>-30</b>	<b>-25</b>	<b>-20</b>	<b>-15</b>	<b>-10</b>	<b>-5</b>	<b>0</b>	<b>5</b>	<b>10</b>
<b>30</b>	0.74	1.02	1.39	1.84	2.38	3.00	3.72	4.53	5.42	6.42	7.50
<b>35</b>	0.64	0.91	1.25	1.68	2.19	2.79	3.47	4.24	5.10	6.04	7.08
<b>40</b>	0.56	0.80	1.13	1.53	2.01	2.58	3.22	3.96	4.77	5.68	6.67
<b>45</b>	0.47	0.70	1.00	1.38	1.84	2.37	2.98	3.68	4.45	5.31	6.26
<b>50</b>	0.40	0.61	0.89	1.24	1.66	2.17	2.74	3.40	4.14	4.95	5.85
<b>55</b>	0.32	0.51	0.77	1.10	1.49	1.97	2.51	3.13	3.82	-	-
<b>60</b>	-	-	0.66	0.96	1.33	1.77	2.28	2.86	-	-	-

**Power input [kW]**

<b>t<sub>c</sub> \ t<sub>e</sub></b>	<b>-40</b>	<b>-35</b>	<b>-30</b>	<b>-25</b>	<b>-20</b>	<b>-15</b>	<b>-10</b>	<b>-5</b>	<b>0</b>	<b>5</b>	<b>10</b>
<b>30</b>	0.69	0.77	0.86	0.95	1.03	1.10	1.15	1.19	1.20	1.18	1.14
<b>35</b>	0.69	0.78	0.88	0.98	1.08	1.16	1.24	1.29	1.33	1.33	1.31
<b>40</b>	0.68	0.79	0.90	1.01	1.12	1.22	1.32	1.39	1.45	1.48	1.48
<b>45</b>	0.67	0.79	0.91	1.04	1.16	1.28	1.39	1.48	1.56	1.61	1.63
<b>50</b>	0.66	0.78	0.92	1.05	1.19	1.33	1.45	1.57	1.66	1.73	1.78
<b>55</b>	0.64	0.77	0.92	1.07	1.22	1.37	1.51	1.64	1.76	-	-
<b>60</b>	-	-	0.92	1.08	1.24	1.40	1.56	1.71	-	-	-

**Current [A]**

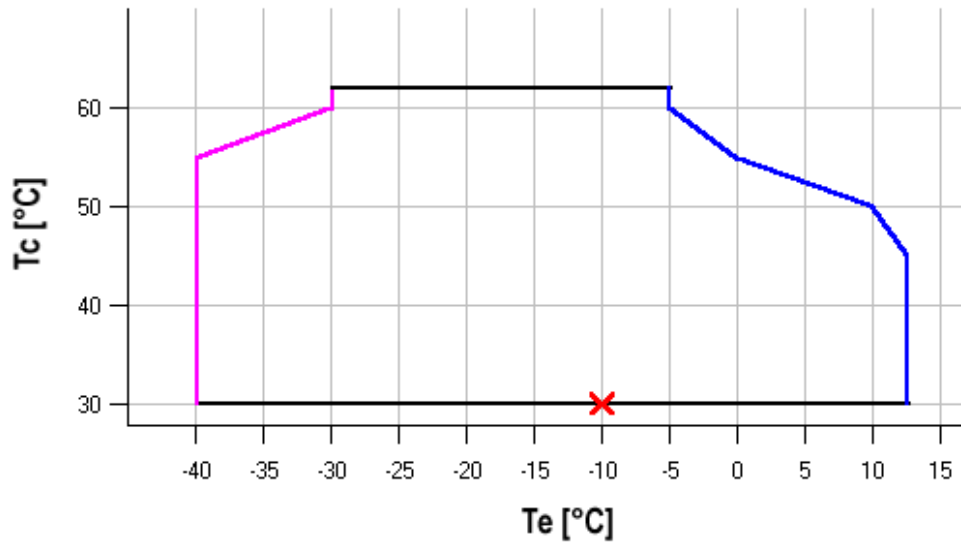
$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
<b>30</b>	2.00	2.06	2.14	2.22	2.30	2.37	2.43	2.47	2.48	2.46	2.41
<b>35</b>	2.00	2.07	2.16	2.25	2.35	2.44	2.52	2.58	2.62	2.63	2.60
<b>40</b>	1.99	2.08	2.18	2.28	2.40	2.50	2.60	2.69	2.75	2.79	2.79
<b>45</b>	1.99	2.08	2.19	2.31	2.44	2.56	2.68	2.79	2.88	2.94	2.97
<b>50</b>	1.97	2.07	2.20	2.33	2.47	2.62	2.76	2.89	3.00	3.09	3.15
<b>55</b>	1.95	2.06	2.20	2.34	2.50	2.67	2.83	2.98	3.12	-	-
<b>60</b>	-	-	2.19	2.35	2.53	2.71	2.89	3.06	-	-	-

**Mass flow [kg/s]**

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
<b>30</b>	16.71	22.85	30.64	40.05	51.07	63.67	77.85	93.58	110.85	129.64	149.93
<b>35</b>	15.26	21.24	28.86	38.11	48.96	61.39	75.40	90.96	108.06	126.67	146.79
<b>40</b>	13.81	19.63	27.08	36.15	46.83	59.10	72.93	88.32	105.24	123.68	143.63
<b>45</b>	12.33	17.97	25.26	34.16	44.67	56.76	70.42	85.64	102.38	120.64	140.41
<b>50</b>	10.79	16.26	23.38	32.11	42.44	54.36	67.84	82.88	99.45	117.53	137.11
<b>55</b>	9.17	14.47	21.41	29.97	40.12	51.87	65.17	80.03	96.42	-	-
<b>60</b>	-	-	19.34	27.72	37.70	49.26	62.39	77.06	-	-	-

**C.O.P. [W/W]**

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10
<b>30</b>	1.07	1.32	1.61	1.94	2.31	2.74	3.23	3.81	4.52	5.42	6.61
<b>35</b>	0.94	1.16	1.42	1.71	2.03	2.39	2.80	3.28	3.84	4.53	5.41
<b>40</b>	0.82	1.02	1.26	1.51	1.79	2.10	2.45	2.84	3.30	3.85	4.52
<b>45</b>	0.71	0.89	1.10	1.33	1.58	1.85	2.15	2.48	2.86	3.30	3.83
<b>50</b>	0.60	0.77	0.97	1.17	1.40	1.63	1.89	2.17	2.49	2.86	3.29
<b>55</b>	0.50	0.66	0.84	1.03	1.23	1.44	1.66	1.91	2.18	-	-
<b>60</b>	-	-	0.72	0.89	1.07	1.26	1.46	1.67	-	-	-

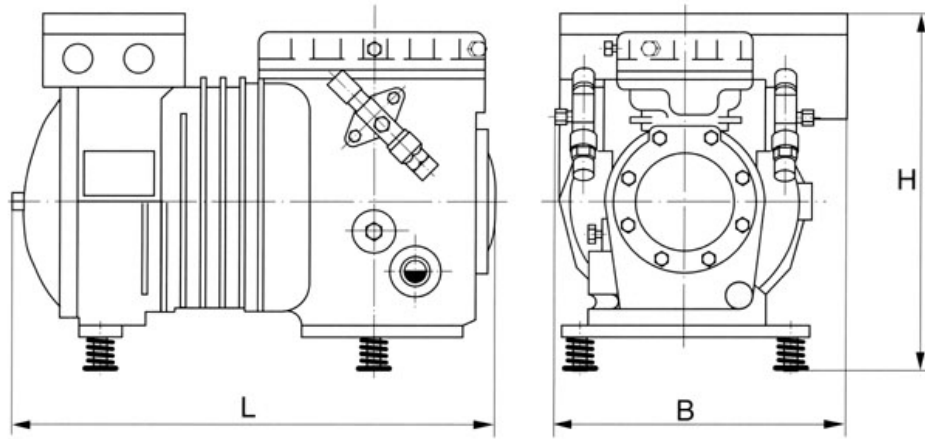
**Application range**


- 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	355 mm
B	235 mm
H	280 mm

