

**Type: Semi-hermetic piston compressors**  
**Producer: Copeland**  
**Series: DL**

## **Model: DLJ-20 X**

### **Technical data**

Nominal motor power [kW]:	
Cylinder count:	2
Displacement [m <sup>3</sup> /h]:	14,5
Cylinder capacity [cm <sup>3</sup> ]:	
RPM [min <sup>-1</sup> ]:	1450
Weight [kg]:	84
Oil charge [dm <sup>3</sup> ]:	2,3
Power supply [V/~/Hz]:	

### **Connections**

	<u>milimeters</u>	<u>inches</u>
Suction line:	22	7/8"
Discharge line:	15	5/8"

R134a

**Cooling capacity [W]**

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	7	10	12.5
<b>30</b>	3 120	4 040	5 120	6 410	7 910	9 650	10 420	11 650	12 760
<b>35</b>	2 860	3 720	4 740	5 950	7 370	9 010	9 740	10 910	11 960
<b>40</b>	2 600	3 410	4 370	5 500	6 830	8 380	9 060	10 160	11 150
<b>45</b>	2 340	3 100	4 000	5 050	6 290	7 740	8 380	9 410	10 340
<b>50</b>	2 080	2 800	3 630	4 610	5 760	7 100	7 690	8 650	9 520
<b>55</b>	1 830	2 490	3 270	4 170	5 230	6 460	7 010	-	-
<b>60</b>	1 570	2 200	2 910	3 730	4 700	5 820	-	-	-
<b>62</b>	1 470	2 080	2 770	3 560	4 480	-	-	-	-

**Power input [kW]**

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	7	10	12.5
<b>30</b>	1.51	1.63	1.75	1.84	1.91	1.96	1.97	1.97	1.97
<b>35</b>	1.55	1.70	1.84	1.97	2.08	2.16	2.19	2.22	2.23
<b>40</b>	1.58	1.75	1.92	2.08	2.23	2.35	2.40	2.45	2.49
<b>45</b>	1.61	1.80	2.00	2.19	2.37	2.54	2.60	2.68	2.74
<b>50</b>	1.63	1.84	2.06	2.29	2.50	2.70	2.78	2.89	2.98
<b>55</b>	1.64	1.87	2.12	2.37	2.62	2.86	2.96	-	-
<b>60</b>	1.65	1.89	2.16	2.44	2.72	3.00	-	-	-
<b>62</b>	1.65	1.90	2.17	2.46	2.76	-	-	-	-

Operating conditions: suction gas temperature 25°C + additional cooling

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]

R404A/R507

**Cooling capacity [W]**

<b>t<sub>c</sub> \ t<sub>e</sub></b>	<b>-50</b>	<b>-45</b>	<b>-40</b>	<b>-35</b>	<b>-30</b>	<b>-25</b>	<b>-20</b>
<b>20</b>	1 010	1 650	2 420	3 360	4 470	5 790	7 330
<b>25</b>	750	1 370	2 110	3 000	4 060	5 310	6 780
<b>30</b>	-	1 090	1 800	2 650	3 650	4 830	6 220
<b>35</b>	-	820	1 500	2 300	3 240	4 350	5 650
<b>40</b>	-	-	1 200	1 950	2 830	3 870	5 090
<b>45</b>	-	-	910	1 600	2 420	3 390	-
<b>50</b>	-	-	-	1 270	2 030	2 910	-
<b>55</b>	-	-	-	950	1 640	2 440	-

**Power input [kW]**

<b>t<sub>c</sub> \ t<sub>e</sub></b>	<b>-50</b>	<b>-45</b>	<b>-40</b>	<b>-35</b>	<b>-30</b>	<b>-25</b>	<b>-20</b>
<b>20</b>	0.96	1.19	1.41	1.63	1.85	2.06	2.26
<b>25</b>	0.87	1.12	1.38	1.64	1.88	2.13	2.37
<b>30</b>	-	1.05	1.34	1.62	1.91	2.19	2.46
<b>35</b>	-	0.96	1.28	1.60	1.92	2.24	2.55
<b>40</b>	-	-	1.20	1.56	1.91	2.27	2.62
<b>45</b>	-	-	1.11	1.50	1.89	2.28	-
<b>50</b>	-	-	-	1.41	1.84	2.27	-
<b>55</b>	-	-	-	1.30	1.77	2.23	-

Operating conditions: suction gas temperature 25°C + additional cooling

t<sub>c</sub> - Condensing temperature [°C]

t<sub>e</sub> - Evaporating temperature [°C]





