

Type: Semi-hermetic piston compressors

Producer: Copeland

Series: DL

Model: DLF-20 X

Technical data

Nominal motor power [kW]:	
Cylinder count:	2
Displacement [m ³ /h]:	12,9
Cylinder capacity [cm ³]:	
RPM [min ⁻¹]:	1450
Weight [kg]:	86
Oil charge [dm ³]:	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
30	2 700	3 540	4 540	5 720	7 100	8 700	9 410	10 540	11 560
35	2 460	3 250	4 200	5 310	6 620	8 130	8 800	9 880	10 850
40	2 220	2 970	3 860	4 910	6 140	7 570	8 200	9 220	10 140
45	1 980	2 690	3 530	4 510	5 660	7 000	7 600	8 560	9 420
50	1 760	2 420	3 200	4 120	5 190	6 450	7 000	7 900	8 700
55	1 530	2 160	2 890	3 740	4 730	5 890	6 410	7 240	7 980
60	1 310	1 910	2 580	3 370	4 280	5 340	5 810	6 580	-
62	1 230	1 810	2 460	3 220	4 100	5 120	5 580	6 310	-

Power input [kW]

$t_c \setminus t_e$	-20	-15	-10	-5	0	5	7	10	12.5
30	1.16	1.30	1.41	1.50	1.57	1.60	1.60	1.59	1.58
35	1.20	1.35	1.49	1.61	1.70	1.76	1.78	1.79	1.79
40	1.23	1.40	1.56	1.71	1.82	1.92	1.94	1.97	1.99
45	1.26	1.44	1.62	1.79	1.93	2.05	2.09	2.14	2.17
50	1.27	1.47	1.67	1.86	2.03	2.17	2.23	2.29	2.34
55	1.28	1.50	1.71	1.92	2.11	2.28	2.34	2.43	2.49
60	1.29	1.51	1.74	1.96	2.17	2.37	2.44	2.54	-
62	1.29	1.51	1.74	1.97	2.19	2.40	2.48	2.58	-

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

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

R404A/R507

Cooling capacity [W]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
20	850	1 390	2 040	2 830	3 760	4 850	6 140
25	640	1 160	1 780	2 520	3 390	4 420	5 630
30	-	940	1 520	2 210	3 030	3 990	5 120
35	-	720	1 270	1 910	2 670	3 560	4 620
40	-	-	1 030	1 620	2 320	3 150	4 120
45	-	-	800	1 350	1 980	2 740	3 630
50	-	-	-	1 080	1 660	2 340	3 150
55	-	-	-	840	1 360	1 970	2 690

Power input [kW]

$t_c \setminus t_e$	-50	-45	-40	-35	-30	-25	-20
20	0.73	0.93	1.14	1.34	1.54	1.74	1.93
25	0.70	0.92	1.15	1.37	1.59	1.81	2.03
30	-	0.90	1.14	1.38	1.63	1.87	2.11
35	-	0.87	1.13	1.39	1.65	1.91	2.17
40	-	-	1.11	1.38	1.66	1.94	2.22
45	-	-	1.08	1.37	1.66	1.96	2.26
50	-	-	-	1.34	1.65	1.97	2.29
55	-	-	-	1.31	1.64	1.97	2.31

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

 t_c - Condensing temperature [°C] t_e - Evaporating temperature [°C]



