



Producer: **Copeland**

Line: **Discus**

Model: **8DL-370X**

Cooling capacity [kW]: **75.59**

Displacement [m³/h]: **151.0**

Refrigerant: **R134a, R404A, R407A, R407F, R448A, R449A, R450A, R513A**

Capacity control: **None, Step (option), Inverter (option)**

Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	151.0
Cylinders quantity		8
Cylinder bore	[mm]	68.3
Cylinder stroke	[mm]	59.2
Oil charge	[l]	7.60
Oil type		POE RL32-3MAF
Type of lubrication		Oil pump
Net weight	[kg]	323.00
Gross weight	[kg]	344.00

Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	74.3
Locked rotor amperage	[A]	349.0
Maximum motor frequency	[Hz]	60
Minimum motor frequency	[Hz]	25
Maximum suction pressure	[bar]	22.5
Maximum discharge pressure	[bar]	32.5

Dimensions

Suction valve diameter	[inch]	2 5/8
Discharge valve diameter	[inch]	1 5/8
Length	[mm]	835
Height	[mm]	610
Width	[mm]	475

Other

Approved refrigerants	R134a, R404A, R407A, R407F, R448A, R449A, R450A, R513A
Allowed oil types	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Capacity control	None, Step (option), Inverter (option)
Protection rating	IP54 (IEC34)

Performance

Nominal conditions: refrigerant: R404A, evaporation: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0K

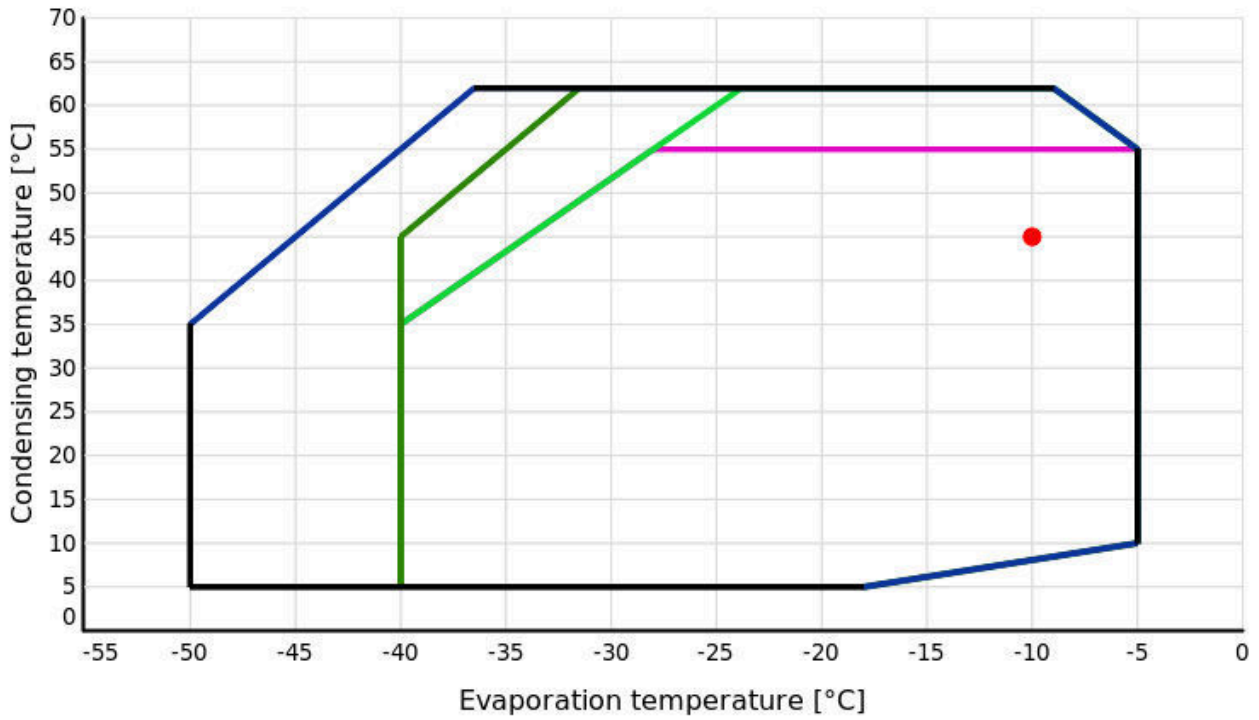
Cooling capacity

		Evaporation temperature [°C]									
		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
Condensation temperature [°C]	5	19.25	25.74	34.14	44.55	57.13	72.09	89.66			
	10	17.42	23.73	31.83	41.83	53.87	68.17	84.96	104.47	126.89	152.33
	15	15.52	21.65	29.44	39.00	50.49	64.11	80.11	98.70	120.08	144.38
	20	13.57	19.50	26.97	36.08	47.00	59.93	75.11	92.76	113.09	136.23
	25	11.62	17.31	24.43	33.07	43.40	55.63	69.97	86.67	105.91	127.87
	30	9.68	15.11	21.84	29.99	39.71	51.21	64.70	80.42	98.57	119.33
	35	7.80	12.90	19.22	26.85	35.94	46.68	59.30	74.02	91.06	110.61
	40		10.74	16.60	23.67	32.09	42.06	53.78	67.49	83.40	101.72
	45		8.65	14.00	20.47	28.20	37.36	48.16	60.83	75.59	92.66
	50			11.46	17.29	24.28	32.60	42.45	54.06	67.65	83.45
	55			9.01	14.15	20.35	27.80	36.66	47.17	59.56	74.08
	60				11.08	16.45	22.96	30.80	40.18	51.33	
	62				9.88	14.90	21.03	28.43	37.34	47.99	

Power consumption

		Evaporation temperature [°C]									
		-50	-45	-40	-35	-30	-25	-20	-15	-10	-5
Condensation temperature [°C]	5	10.67	12.08	13.38	14.54	15.52	16.31	16.88			
	10	10.77	12.41	13.94	15.35	16.59	17.64	18.48	19.07	19.40	19.43
	15	10.85	12.73	14.51	16.16	17.67	18.99	20.11	21.00	21.63	21.97
	20	10.89	13.01	15.04	16.96	18.74	20.35	21.76	22.95	23.88	24.54
	25	10.85	13.22	15.52	17.71	19.77	21.67	23.39	24.89	26.14	27.13
	30	10.71	13.35	15.92	18.39	20.75	22.95	24.97	26.79	28.38	29.71
	35	10.44	13.35	16.21	18.98	21.63	24.15	26.49	28.64	30.57	32.25
	40		13.22	16.37	19.44	22.41	25.24	27.92	30.41	32.69	34.72
	45		12.92	16.37	19.75	23.04	26.21	29.23	32.07	34.70	37.10
	50			16.18	19.89	23.51	27.02	30.39	33.59	36.59	39.37
	55			15.79	19.83	23.79	27.65	31.38	34.95	38.33	41.50
	60				19.54	23.85	28.07	32.17	36.12	39.89	
	62				19.36	23.81	28.18	32.43	36.53	40.46	

Application range



Legend

- Suction gas temperature: 20°C
- Suction gas temperature: 0°C
- Suction gas temperature: 0°C, additional head cooling
- Suction gas temperature: 20°C, ASERCOM certified

Dimensions

