

Producer: **Copeland**  
 Line: **Discus**  
 Model: **2DL-750**  
 Cooling capacity [kW]: **11.18**  
 Displacement [m<sup>3</sup>/h]: **23.7**  
 Refrigerant: **R22**  
 Capacity control: **None, Step (option), Inverter (option)**  
 Power supply: **400V/3Ph/50Hz**

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	23.7
Cylinders quantity		2
Cylinder bore	[mm]	63.6
Cylinder stroke	[mm]	42.9
Oil charge	[l]	2.30
Oil type		Suniso 3GS
Type of lubrication		Oil pump
Net weight	[kg]	136
Gross weight	[kg]	145

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	13.0
Locked rotor amperage	[A]	70.0
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]	1 3/8
Discharge connection thread diameter	[inch]	1 1/8
Length	[mm]	590
Height	[mm]	470
Width	[mm]	330

### Other

Approved refrigerants	R22
Allowed oil types	Suniso 3GS, TEXACO Capella WF 32, FUCHS Reniso KM
Capacity control	None, Step (option), Inverter (option)
Protection rating	IP54 (IEC34)

## Performance

Nominal conditions: refrigerant: R22 , evaporation (dew point): -10 °C, condensation (dew point): 45 °C, superheating: 10 K, subcooling: 0 °C

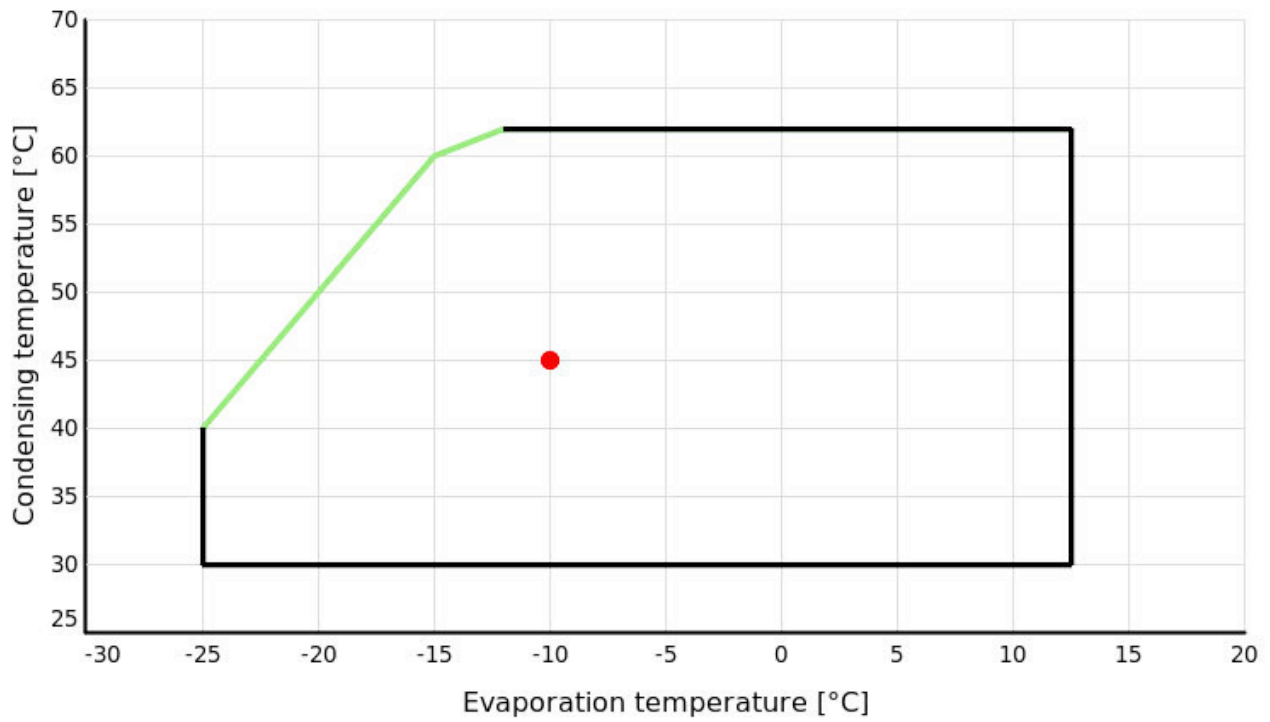
### Cooling capacity [kW]

		Evaporation temperature [°C]									
		-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	30	6.24	8.42	10.93	13.84	17.18	21.02	25.38	27.28	30.31	32.99
	35	5.59	7.71	10.14	12.94	16.16	19.85	24.05	25.88	28.79	31.38
	40	4.96	7.01	9.36	12.05	15.14	18.68	22.71	24.47	27.27	29.76
	45		6.34	8.60	11.18	14.14	17.52	21.38	23.07	25.76	28.15
	50		5.70	7.86	10.33	13.15	16.38	20.07	21.68	24.26	26.55
	55			7.17	9.51	12.19	15.27	18.78	20.32	22.78	24.97
	60			6.51	8.73	11.27	14.18	17.52	18.98	21.32	23.42
	62				8.43	10.91	13.76	17.02	18.45	20.75	22.80

### Power consumption [kW]

		Evaporation temperature [°C]									
		-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	30	2.85	3.18	3.47	3.70	3.87	3.96	3.96	3.93	3.85	3.75
	35	2.94	3.32	3.67	3.97	4.21	4.38	4.45	4.46	4.43	4.38
	40	3.02	3.45	3.86	4.22	4.53	4.77	4.93	4.96	4.99	4.98
	45		3.57	4.03	4.45	4.82	5.14	5.37	5.44	5.52	5.56
	50		3.68	4.19	4.67	5.11	5.49	5.80	5.91	6.04	6.12
	55			4.35	4.88	5.38	5.83	6.22	6.35	6.53	6.65
	60			4.50	5.09	5.64	6.16	6.62	6.78	7.01	7.17
	62				5.17	5.75	6.29	6.78	6.95	7.20	7.38

**Application range**



**Legend**

- Suction gas temperature: 25°C
- Current operating conditions

Dimensions

