



Producer: **Copeland**

Line: **Discus**

Model: **3DA-750**

Cooling capacity [kW]: **15.89**

Displacement [m<sup>3</sup>/h]: **32.2**

Refrigerant: **R22**

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

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

## Data

### Technical data

Displacement	[m <sup>3</sup> /h]	32.2
Cylinders quantity		3
Cylinder bore	[mm]	55.6
Cylinder stroke	[mm]	50.8
Oil charge	[l]	3.70
Oil type		Suniso 3GS
Type of lubrication		Oil pump
Net weight	[kg]	152.00
Gross weight	[kg]	163.00

### Electrical data and limits

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	18.3
Locked rotor amperage	[A]	106.0
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]	680
Height	[mm]	480
Width	[mm]	370

### 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: -10°C (dew point), condensation: 45°C (dew point), superheating: 10K, subcooling: 0K

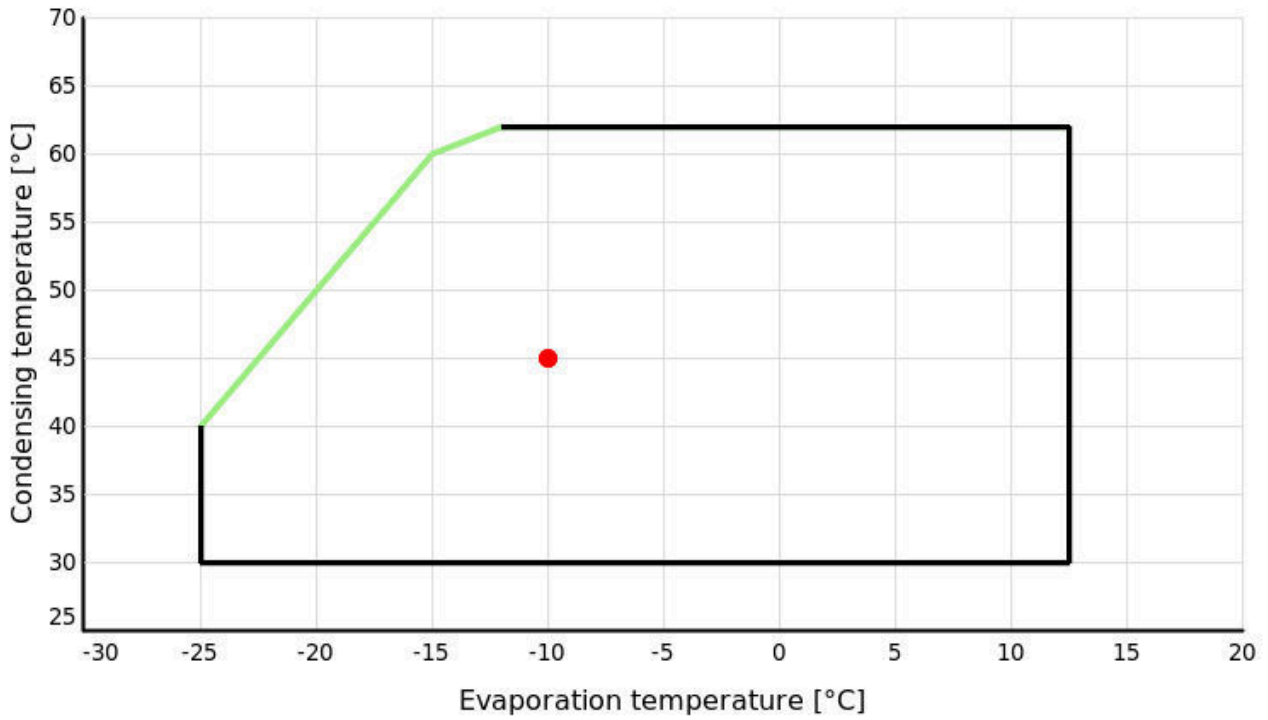
### Cooling capacity

		Evaporation temperature [°C]									
		-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	30	9.29	12.27	15.72	19.71	24.31	29.58	35.58	38.19	42.36	46.05
	35	8.39	11.28	14.59	18.42	22.82	27.85	33.59	36.10	40.08	43.63
	40	7.52	10.30	13.49	17.14	21.33	26.14	31.61	34.00	37.81	41.20
	45		9.37	12.41	<b>15.89</b>	19.87	24.44	29.65	31.92	35.56	38.79
	50		8.49	11.38	14.67	18.44	22.77	27.71	29.87	33.33	36.41
	55			10.40	13.51	17.06	21.14	25.81	27.85	31.13	34.05
	60			9.50	12.41	15.74	19.57	23.95	25.88	28.97	31.74
	62				11.99	15.23	18.95	23.23	25.11	28.13	30.83

### Power consumption

		Evaporation temperature [°C]									
		-25	-20	-15	-10	-5	0	5	7	10	12.5
Condensation temperature [°C]	30	4.25	4.64	4.97	5.21	5.35	5.37	5.25	5.17	4.98	4.78
	35	4.38	4.84	5.25	5.58	5.82	5.96	5.97	5.93	5.83	5.70
	40	4.49	5.02	5.50	5.92	6.27	6.51	6.64	6.66	6.64	6.58
	45		5.19	5.74	<b>6.25</b>	6.69	7.04	7.28	7.34	7.40	7.41
	50		5.35	5.97	6.56	7.08	7.53	7.89	8.00	8.14	8.21
	55			6.19	6.85	7.47	8.01	8.48	8.64	8.84	8.98
	60			6.41	7.14	7.84	8.48	9.05	9.25	9.53	9.73
	62				7.26	7.99	8.66	9.27	9.49	9.80	10.02

Application range



Legend

■ Suction gas temperature: 25°C

**Dimensions**

