



Producer: **Copeland**

Line: **Discus**

Model: **3DA-75X**

Cooling capacity [kW]: **15.96**

Displacement [m³/h]: **32.2**

Refrigerant: **R22, R134a, R404A, R407A, R407C, R407F, R448A, R449A, R450A, R513A**

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

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

Data

Technical data

Displacement	[m ³ /h]	32.2
Cylinders quantity		3
Cylinder bore	[mm]	55.6
Cylinder stroke	[mm]	50.8
Oil charge	[l]	3.70
Oil type		POE RL32-3MAF
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]	17.5
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, R134a, R404A, R407A, R407C, 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: 0°C

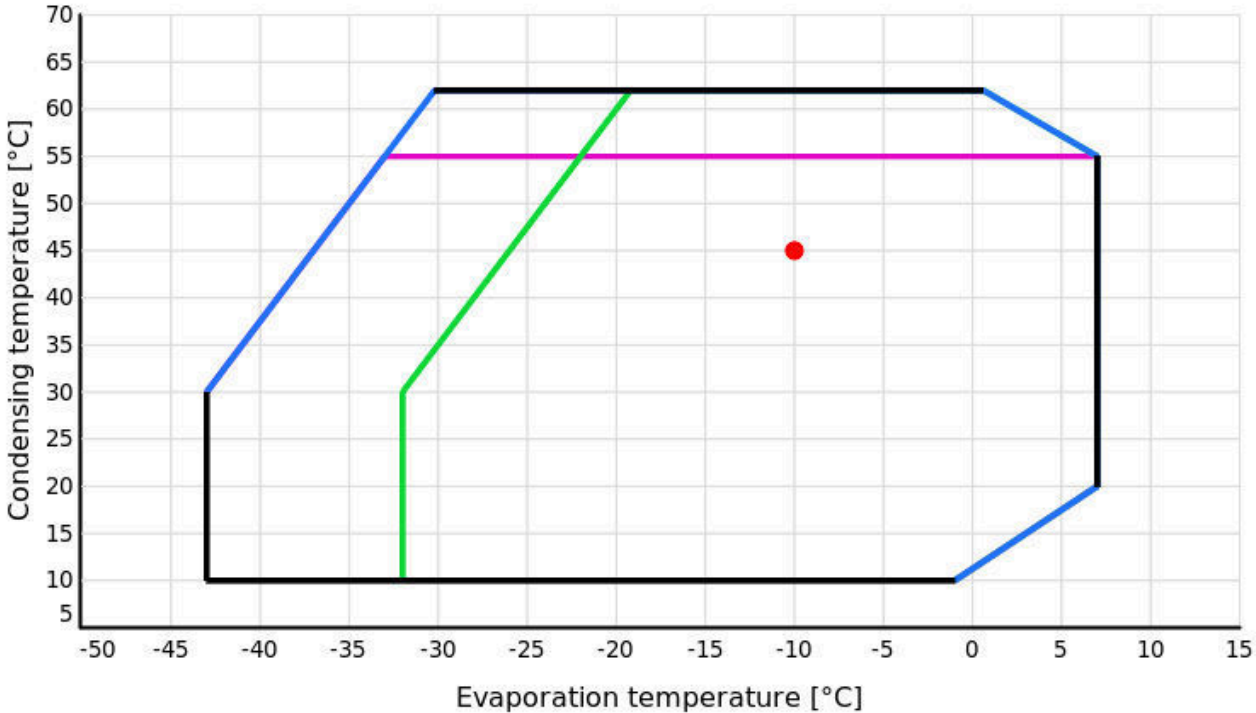
Cooling capacity

		Evaporation temperature [°C]											
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	
Condensation temperature [°C]	10	6.65	8.80	11.41	14.55	18.29	22.76	28.03	34.11				
	15	6.01	8.09	10.59	13.58	17.15	21.36	26.35	32.15	38.80			
	20	5.35	7.35	9.74	12.59	15.97	19.96	24.66	30.15	36.49	43.70	46.84	
	25	4.67	6.60	8.87	11.57	14.77	18.54	22.97	28.15	34.16	41.03	44.03	
	30	3.98	5.82	7.98	10.53	13.54	17.09	21.26	26.14	31.81	38.33	41.19	
	35	3.30	5.04	7.08	9.47	12.28	15.61	19.52	24.10	29.44	35.61	38.32	
	40		4.26	6.17	8.39	11.01	14.11	17.75	22.04	27.05	32.87	35.43	
	45		3.50	5.25	7.31	9.73	12.58	15.96	19.95	24.63	30.09	32.52	
	50		2.75	4.35	6.22	8.43	11.05	14.16	17.84	22.19	27.30	29.57	
	55			3.47	5.15	7.14	9.50	12.33	15.71	19.72	24.47	26.61	
	60			2.62	4.09	5.84	7.95	10.49	13.55	17.22			
	62			2.29	3.67	5.33	7.33	9.75	12.68	16.22			

Power consumption

		Evaporation temperature [°C]											
		-40	-35	-30	-25	-20	-15	-10	-5	0	5	7	
Condensation temperature [°C]	10	3.07	3.38	3.63	3.80	3.88	3.83	3.66	3.34				
	15	3.18	3.56	3.89	4.15	4.32	4.38	4.32	4.11	3.75			
	20	3.25	3.71	4.12	4.46	4.72	4.88	4.93	4.85	4.61	4.21	4.00	
	25	3.29	3.81	4.30	4.72	5.08	5.34	5.50	5.53	5.42	5.14	4.99	
	30	3.28	3.88	4.44	4.95	5.39	5.75	6.02	6.16	6.17	6.03	5.93	
	35	3.24	3.90	4.53	5.13	5.66	6.12	6.48	6.74	6.87	6.86	6.81	
	40		3.88	4.59	5.26	5.88	6.44	6.90	7.27	7.52	7.64	7.64	
	45		3.83	4.60	5.35	6.06	6.70	7.27	7.75	8.12	8.36	8.42	
	50		3.73	4.57	5.39	6.18	6.92	7.59	8.18	8.66	9.02	9.13	
	55			4.49	5.39	6.26	7.09	7.86	8.55	9.15	9.63	9.79	
	60			4.36	5.33	6.29	7.21	8.07	8.87	9.58			
	62			4.30	5.30	6.29	7.24	8.14	8.98	9.73			

Application range



Legend

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

Dimensions

