



Producer: **Danfoss**
 Line: **DSH**
 Model: **DSH161-4**
 Motor protection: **Internal overload protector**
 Cooling capacity [kW]: **21.43**
 Displacement [m³/h]: **26.4**
 Refrigerant: **R410A, R452B, R454B**
 Capacity control: **None**
 Power supply: **400V/3Ph/50Hz**

Data

Technical data

Displacement	[m ³ /h]	26.4
Swept volume	[cm ³]	151.70
Oil type		POE 160SZ
Oil charge	[l]	3.30
Internal free volume (suction)	[dm ³]	13.6
Internal free volume (discharge)	[dm ³]	0.7
Net weight	[kg]	83.3
Gross weight	[kg]	103.3

Electrical data

Power supply		400V/3Ph/50Hz
Maximum continuous current	[A]	35.0
Maximum operating current	[A]	31.0
Locked rotor amperage	[A]	158.0
Rated load amps	[A]	25.0
Revolutions per minute	[RPM]	2,900
Motor resistance main	[Ω]	0.83

Limits

Maximum suction pressure	[bar]	33.3
Maximum discharge pressure	[bar]	48.7
Maximum suction temperature	[°C]	55.0
Minimum suction temperature	[°C]	-35.0
Maximum discharge temperature	[°C]	150.0
Minimal discharge temperature	[°C]	-35.0

Dimensions

Suction tube diameter	[inch]	1 3/8
Discharge tube diameter	[inch]	7/8
Diameter	[mm]	243
Height	[mm]	542
Oil equalization		1 3/4" Rotalock

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Other

Approved refrigerants	R410A, R452B, R454B
Capacity control	None
Protection rating (with cable gland)	IP54
Glass mounting	Threaded
Approvals	UL, CE, UKCA

Shipped equipment

Motor protection	Internal overload protector
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Performance

Nominal conditions: refrigerant: R410A , evaporation (dew point): -10 °C, condensation (dew point): 45 °C, superheating: 10 K, subcooling: 0 °C

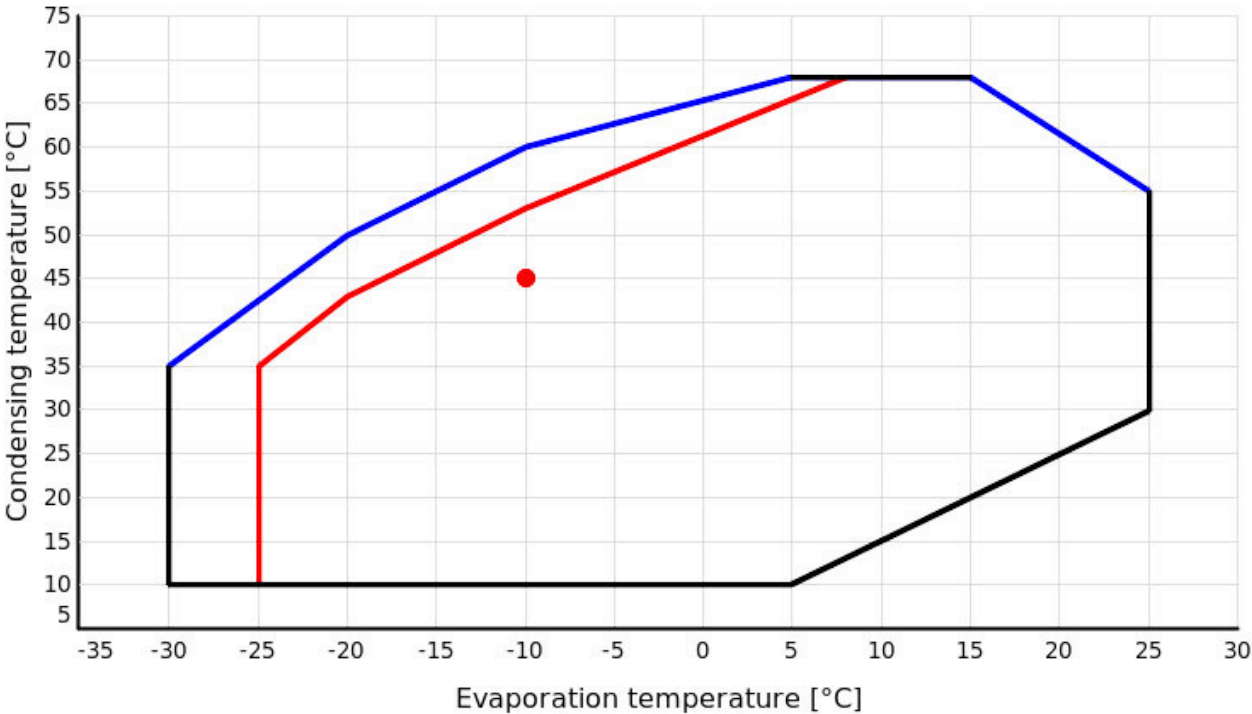
Cooling capacity [kW]

		Evaporation temperature [°C]											
		-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
Condensation temperature [°C]	10	13.64	16.96	20.93	25.65	31.19	37.64	45.08	53.59				
	15	12.83	16.11	20.02	24.63	30.03	36.30	43.52	51.77	61.15			
	20	12.05	15.27	19.08	23.56	28.79	34.86	41.84	49.82	58.87	69.09		
	25	11.28	14.42	18.12	22.44	27.48	33.32	40.04	47.71	56.43	66.27	77.32	
	30	10.52	13.57	17.12	21.27	26.10	31.68	38.11	45.46	53.82	63.26	73.87	85.74
	35	9.78	12.70	16.09	20.04	24.63	29.94	36.05	43.05	51.02	60.05	70.20	81.57
	40		11.81	15.02	18.74	23.07	28.08	33.86	40.49	48.06	56.63	66.30	77.15
	45			13.91	17.38	21.43	26.12	31.54	37.78	44.90	53.01	62.17	72.48
	50			12.75	15.96	19.69	24.04	29.08	34.89	41.57	49.18	57.81	67.55
	55				14.46	17.86	21.84	26.48	31.85	38.04	45.14	53.22	62.37
	60					15.93	19.52	23.73	28.63	34.33	40.88	48.39	
65							20.83	25.25	30.41	36.41			

Power consumption [kW]

		Evaporation temperature [°C]											
		-30	-25	-20	-15	-10	-5	0	5	10	15	20	25
Condensation temperature [°C]	10	4.35	4.40	4.41	4.34	4.14	3.79	3.24	2.45				
	15	4.89	4.96	5.01	5.00	4.90	4.66	4.25	3.63	2.75			
	20	5.49	5.55	5.62	5.66	5.62	5.49	5.20	4.73	4.02	3.06		
	25	6.16	6.20	6.27	6.33	6.36	6.30	6.12	5.77	5.23	4.44	3.38	
	30	6.94	6.93	6.98	7.06	7.12	7.12	7.02	6.79	6.38	5.76	4.88	3.71
	35	7.84	7.77	7.79	7.86	7.93	7.97	7.94	7.80	7.51	7.04	6.33	5.35
	40		8.75	8.72	8.75	8.82	8.89	8.91	8.84	8.65	8.30	7.74	6.94
	45			9.78	9.77	9.82	9.89	9.94	9.93	9.82	9.57	9.15	8.51
	50			11.02	10.94	10.95	11.00	11.06	11.09	11.04	10.88	10.57	10.07
	55				12.29	12.24	12.26	12.31	12.35	12.35	12.26	12.04	11.66
	60					13.70	13.67	13.70	13.74	13.76	13.72	13.58	
65							15.25	15.28	15.30	15.29			

Application range



Legend

- Suction gas superheating: 5 K
- Suction gas superheating: 30 K
- Current operating conditions

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Dimensions

