

Model: D8DH-500 X

Capacity

R404A/R507

Cooling capacity [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	30.19	38.73	49.25	62.01	77.26	95.28	116.31	140.64	168.51	200.20
25	27.04	35.36	45.43	57.53	71.91	88.85	108.60	131.42	157.58	187.33
30	24.07	32.12	41.72	53.13	66.62	82.44	100.87	122.15	146.57	174.36
35	-	29.00	38.09	48.79	61.35	76.03	93.10	112.83	135.46	161.27
40	-	25.98	34.54	44.49	56.09	69.60	85.29	103.42	124.25	148.04
45	-	23.05	31.05	40.22	50.83	63.14	77.41	93.91	112.90	134.64
50	-	20.19	27.58	35.94	45.53	56.61	69.44	84.28	101.40	121.06
55	-	-	24.14	31.66	40.20	50.01	61.36	74.52	89.74	107.29

Power input [kW]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	14.41	16.37	18.24	19.96	21.45	22.64	23.46	23.83	23.67	22.92
25	14.76	16.93	19.06	21.08	22.91	24.49	25.73	26.57	26.93	26.74
30	15.05	17.41	19.78	22.08	24.24	26.18	27.84	29.13	29.98	30.33
35	-	17.84	20.43	22.98	25.45	27.73	29.78	31.50	32.83	33.69
40	-	18.23	21.01	23.81	26.55	29.16	31.57	33.70	35.49	36.84
45	-	18.59	21.54	24.56	27.56	30.47	33.23	35.75	37.97	39.80
50	-	18.93	22.04	25.25	28.49	31.69	34.77	37.67	40.29	42.58
55	-	-	22.52	25.90	29.36	32.82	36.21	39.45	42.47	45.20

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Capacity

Current [A]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	37.59	40.22	42.79	45.19	47.28	48.95	50.07	50.52	50.16	48.88
25	38.24	41.11	44.01	46.82	49.41	51.66	53.43	54.62	55.09	54.72
30	38.75	41.85	45.06	48.26	51.32	54.13	56.55	58.45	59.73	60.25
35	-	42.47	45.97	49.54	53.06	56.40	59.43	62.05	64.11	65.50
40	-	43.00	46.77	50.69	54.64	58.50	62.14	65.43	68.26	70.49
45	-	43.47	47.49	51.74	56.11	60.46	64.68	68.64	72.21	75.28
50	-	43.92	48.17	52.73	57.49	62.33	67.11	71.71	76.01	79.88
55	-	-	48.84	53.69	58.83	64.12	69.44	74.66	79.67	84.33

Mass flow [kg/s]

t_c \ t_e	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	585.36	819.97	1 079.91	1 377.85	1 726.46	2 138.39	2 626.31	3 202.90	3 880.80	4 672.68
25	555.80	788.50	1 045.74	1 340.20	1 684.55	2 091.43	2 573.53	3 143.50	3 814.01	4 597.72
30	528.59	758.49	1 012.15	1 302.25	1 641.44	2 042.40	2 517.78	3 080.26	3 742.48	4 517.13
35	-	729.56	978.76	1 263.61	1 596.77	1 990.91	2 458.70	3 012.79	3 665.85	4 430.54
40	-	701.35	945.20	1 223.91	1 550.16	1 936.59	2 395.89	2 940.72	3 583.73	4 337.59
45	-	673.48	911.09	1 182.78	1 501.22	1 879.07	2 329.00	2 863.67	3 495.75	4 237.89
50	-	645.58	876.06	1 139.85	1 449.60	1 817.98	2 257.65	2 781.28	3 401.53	4 131.07
55	-	-	839.74	1 094.73	1 394.91	1 752.93	2 181.46	2 693.17	3 300.71	4 016.75

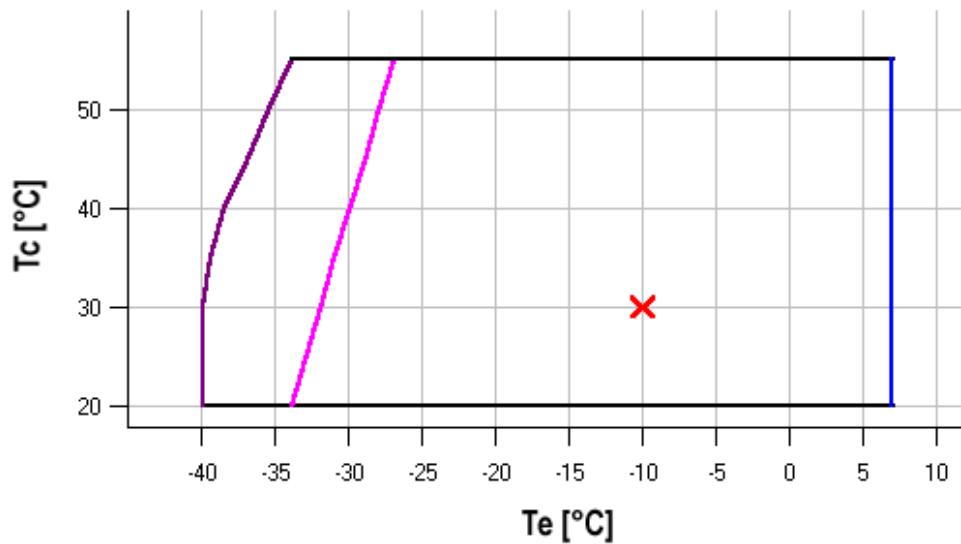
Model: D8DH-500 X




Capacity

C.O.P. [W/W]

$t_c \setminus t_e$	-40	-35	-30	-25	-20	-15	-10	-5	0	5
20	2.09	2.37	2.70	3.11	3.60	4.21	4.96	5.90	7.12	8.74
25	1.83	2.09	2.38	2.73	3.14	3.63	4.22	4.95	5.85	7.01
30	1.60	1.84	2.11	2.41	2.75	3.15	3.62	4.19	4.89	5.75
35	-	1.63	1.86	2.12	2.41	2.74	3.13	3.58	4.13	4.79
40	-	1.43	1.64	1.87	2.11	2.39	2.70	3.07	3.50	4.02
45	-	1.24	1.44	1.64	1.84	2.07	2.33	2.63	2.97	3.38
50	-	1.07	1.25	1.42	1.60	1.79	2.00	2.24	2.52	2.84
55	-	-	1.07	1.22	1.37	1.52	1.69	1.89	2.11	2.37

Application range



-  Maximum evaporating temperature
-  25°C suction gas return
-  20K suction superheat

Operating conditions: ISO; subcooling: 0 K, suction superheat: - K, return gas temperature: 20

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]