

Model: NTZ271

Data

Type: Hermetic piston compressors

Producer: Danfoss-Maneurop

Series: NTZ

Model: NTZ271

Technical data

Cylinder count:	4
Displacement [m ³ /h]:	47,3
Cylinder capacity [cm ³]:	271
RPM [min ⁻¹]:	2900
Weight [kg]:	64
Oil charge [dm ³]:	3,9
Oil type:	160Z
Crankcase heater type:	PTC35W
Maximum system test pressure low side / high side:	25 / 30
Maximum number of starts without softstart [1/h]:	12
Refrigerant charge limit [dm ³]:	10
Refrigerant:	R404A
Sound power [dB]:	84
Sound power with accoustic hood [dB]:	78
IP rating:	IP 54

Connections

	<u>inches</u>
Suction Rotolock valve connection:	1 3/4"
Discharge Rotolock valve connection:	1 1/4"
Suction connection with supplied sleeve:	1 1/8"
Discharge connection with supplied sleeve:	3/4"

Approvals

CCC	+
CE	+
UL	+
Gost	+

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Capacity

R404A/R507

Cooling capacity [W]

$t_c \setminus t_e$	-45	-40	-35	-30	-25	-20	-15	-10
30	4 319	6 187	8 495	11 288	14 617	18 529	23 072	28 295
35	3 785	5 569	7 751	10 379	13 501	17 166	21 422	26 317
40	-	4 910	6 955	9 406	12 310	15 716	19 673	24 228
45	-	4 222	6 118	8 380	11 054	14 190	17 835	22 039
50	-	3 516	5 251	7 312	9 744	12 598	15 921	19 761
55	-	-	4 365	6 213	8 392	10 952	13 941	17 406
60	-	-	-	5 094	7 009	9 263	11 906	14 984

Power input [W]

$t_c \setminus t_e$	-45	-40	-35	-30	-25	-20	-15	-10
30	3 766	4 592	5 420	6 247	7 070	7 887	8 695	9 493
35	3 749	4 642	5 541	6 445	7 350	8 255	9 156	10 052
40	-	4 649	5 623	6 607	7 598	8 594	9 592	10 589
45	-	4 607	5 660	6 728	7 809	8 899	9 997	11 100
50	-	4 512	5 647	6 802	7 975	9 164	10 365	11 577
55	-	-	5 576	6 822	8 092	9 382	10 691	12 015
60	-	-	-	6 783	8 153	9 549	10 968	12 408

Current [A]

$t_c \setminus t_e$	-45	-40	-35	-30	-25	-20	-15	-10
30	7.33	8.31	9.41	10.57	11.76	12.92	14.01	14.98
35	7.38	8.38	9.53	10.77	12.06	13.35	14.61	15.77
40	-	8.45	9.65	10.98	12.38	13.81	15.23	16.60
45	-	8.48	9.74	11.16	12.68	14.26	15.85	17.42
50	-	8.43	9.76	11.27	12.92	14.65	16.43	18.20
55	-	-	9.68	11.29	13.07	14.96	16.92	18.90
60	-	-	-	11.17	13.08	15.14	17.29	19.49

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Capacity

Mass flow [kg/s]

$t_c \setminus t_e$	-45	-40	-35	-30	-25	-20	-15	-10
30	103.24	149.18	205.20	273.25	355.27	453.21	569.01	704.61
35	95.53	141.69	197.69	265.48	346.99	444.19	559.00	693.38
40	-	132.49	188.20	255.45	336.18	432.35	545.90	678.76
45	-	121.58	176.71	243.14	322.82	417.68	529.68	660.76
50	-	108.93	163.21	228.54	306.88	400.16	510.33	639.35
55	-	-	147.67	211.62	288.34	379.76	487.84	614.50
60	-	-	-	192.37	267.19	356.48	462.17	586.21

C.O.P. [W/W]

$t_c \setminus t_e$	-45	-40	-35	-30	-25	-20	-15	-10
30	1.15	1.35	1.57	1.81	2.07	2.35	2.65	2.98
35	1.01	1.20	1.40	1.61	1.84	2.08	2.34	2.62
40	-	1.06	1.24	1.42	1.62	1.83	2.05	2.29
45	-	0.92	1.08	1.25	1.42	1.59	1.78	1.99
50	-	0.78	0.93	1.07	1.22	1.37	1.54	1.71
55	-	-	0.78	0.91	1.04	1.17	1.30	1.45
60	-	-	-	0.75	0.86	0.97	1.09	1.21

Operating conditions: suction gas return temperature: 20°C, subcooling: 0 K

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range

