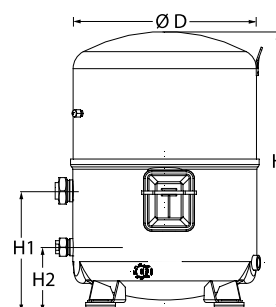


General Characteristics

Model number (on compressor nameplate)		NTZ271A4LR1A
Code number for Singlepack*		120F0007
Code number for Industrial pack**		120F0014
Drawing number		8504010f
Suction and discharge connections		Rotolock
Suction connection		1-3/4" Rotolock
Discharge connection		1-1/4" Rotolock
Suction connection with supplied sleeve		1-1/8" ODF
Discharge connection with supplied sleeve		3/4" ODF
Oil sight glass		Threaded
Oil equalisation connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		30 bar / 8 bar
Cylinders	4	
Swept volume	271 cm ³ /rev	
Displacement @ Nominal speed	47.1 m ³ /h @ 2900 rpm - 56.9 m ³ /h @ 3500 rpm	
Net weight	64 kg	
Oil charge	3.9 litre, POE - 160Z	
Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)	
Maximum differential test pressure	30 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	10 kg	
Approved refrigerants	R404A, R507A	

Dimensions


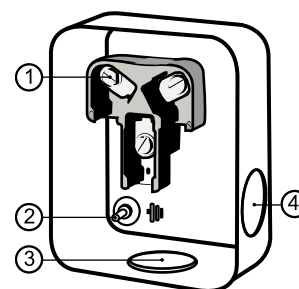
D=352 mm

H=519 mm

H1=233 mm

H2=125 mm

H3=- mm

Terminal box


IP54 (with cable gland)

1: Screw connectors 10-32 UNF x 9.5

2: Earth M4-12

3: Knock-out Ø 29 mm (1.14")

4: Knock-out Ø 25.5 mm (1.00")

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	1.61 Ω
Maximum Continuous Current (MCC)	27 A
Locked Rotor Amps (LRA)	96 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	50 Nm

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only)
Initial oil charge
Installation instructions

Approvals : CE certified, UL certified (file SA6873), -

*Singlepack: Compressor in cardboard box

**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

Datasheet, performance data

Maneurop reciprocating compressor. NTZ271-4

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-45	-40	-35	-30	-25	-20	-15	-10

Cooling capacity in W

30	-	6 187	8 495	11 288	14 617	18 529	23 072	28 295	-
35	-	-	7 751	10 379	13 501	17 166	21 422	26 317	-
40	-	-	6 955	9 406	12 310	15 716	19 673	24 228	-
45	-	-	-	8 380	11 054	14 190	17 835	22 039	-
50	-	-	-	-	9 744	12 598	15 921	19 761	-
55	-	-	-	-	-	10 952	13 941	17 406	-
60	-	-	-	-	-	9 263	11 906	14 984	-

Power input in W

30	-	4 592	5 420	6 247	7 070	7 887	8 695	9 493	-
35	-	-	5 541	6 445	7 350	8 255	9 156	10 052	-
40	-	-	5 623	6 607	7 598	8 594	9 592	10 589	-
45	-	-	-	6 728	7 809	8 899	9 997	11 100	-
50	-	-	-	-	7 975	9 164	10 365	11 577	-
55	-	-	-	-	-	9 382	10 691	12 015	-
60	-	-	-	-	-	9 549	10 968	12 408	-

Current consumption in A

30	-	8.31	9.41	10.57	11.76	12.92	14.01	14.98	-
35	-	-	9.53	10.77	12.06	13.35	14.61	15.77	-
40	-	-	9.65	10.98	12.38	13.81	15.23	16.60	-
45	-	-	-	11.16	12.68	14.26	15.85	17.42	-
50	-	-	-	-	12.92	14.65	16.43	18.20	-
55	-	-	-	-	-	14.96	16.92	18.90	-
60	-	-	-	-	-	15.14	17.29	19.49	-

Mass flow in kg/h

30	-	149	205	273	355	453	569	705	-
35	-	-	198	265	347	444	559	693	-
40	-	-	188	255	336	432	546	679	-
45	-	-	-	243	323	418	530	661	-
50	-	-	-	-	307	400	510	639	-
55	-	-	-	-	-	380	488	615	-
60	-	-	-	-	-	356	462	586	-

Coefficient of performance (C.O.P.)

30	-	1.35	1.57	1.81	2.07	2.35	2.65	2.98	-
35	-	-	1.40	1.61	1.84	2.08	2.34	2.62	-
40	-	-	1.24	1.42	1.62	1.83	2.05	2.29	-
45	-	-	-	1.25	1.42	1.59	1.78	1.99	-
50	-	-	-	-	1.22	1.37	1.54	1.71	-
55	-	-	-	-	-	1.17	1.30	1.45	-
60	-	-	-	-	-	0.97	1.09	1.21	-

Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	6 955	W
Power input	5 623	W
Current consumption	9.65	A
Mass flow	188	kg/h
C.O.P.	1.24	



to: Evaporating temperature at dew point
tc: Condensing temperature at dew point
Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.1	bar(g)

Sound power data

Sound power level	84.2	dB(A)
With acoustic hood	78.2	dB(A)

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. NTZ271-4

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-45	-40	-35	-30	-25	-20	-15	-10

Cooling capacity in W

30	3 787	5 504	7 663	10 324	13 549	17 400	21 940	27 231	-
35	3 238	4 846	6 856	9 330	12 328	15 915	20 154	25 110	-
40	2 677	4 162	6 012	8 285	11 044	14 353	18 278	22 885	-
45	2 119	3 468	5 143	7 203	9 710	12 728	16 324	20 569	-
50	-	2 776	4 264	6 097	8 338	11 052	14 306	18 173	-
55	-	-	3 388	4 982	6 944	9 338	12 236	15 710	-
60	-	-	2 533	3 872	5 540	7 599	10 122	13 186	-

Power input in W

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	3 687	4 649	5 623	6 607	7 598	8 594	9 592	10 589	-
45	3 572	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	-	-	5 442	6 783	8 153	9 549	10 968	12 408	-

Current consumption in A

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	7.42	8.45	9.65	10.98	12.38	13.81	15.23	16.60	-
45	7.42	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	-	-	9.45	11.17	13.08	15.14	17.29	19.49	-

Mass flow in kg/h

30	130	184	249	326	416	520	641	778	-
35	120	175	240	316	406	510	630	765	-
40	109	164	228	304	393	496	615	749	-
45	95	150	214	290	378	480	597	729	-
50	-	135	198	272	359	459	575	706	-
55	-	-	179	252	337	436	549	678	-
60	-	-	158	229	313	409	521	647	-

Coefficient of performance (C.O.P.)

30	1.01	1.20	1.41	1.65	1.92	2.21	2.52	2.87	-
35	0.86	1.04	1.24	1.45	1.68	1.93	2.20	2.50	-
40	0.73	0.90	1.07	1.25	1.45	1.67	1.91	2.16	-
45	0.59	0.75	0.91	1.07	1.24	1.43	1.63	1.85	-
50	-	0.62	0.76	0.90	1.05	1.21	1.38	1.57	-
55	-	-	0.61	0.73	0.86	1.00	1.14	1.31	-
60	-	-	0.47	0.57	0.68	0.80	0.92	1.06	-

Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	6 012	W
Power input	5 623	W
Current consumption	9.65	A
Mass flow	228	kg/h
C.O.P.	1.07	

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.1	bar(g)

Sound power data

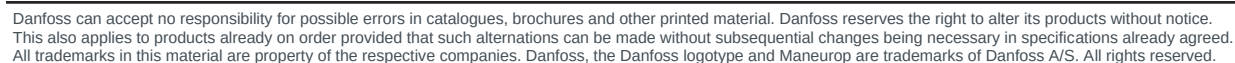
Sound power level	84.2	dB(A)
With acoustic hood	78.2	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

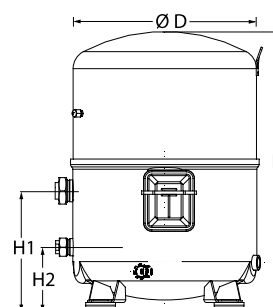
Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900



General Characteristics

Model number (on compressor nameplate)		NTZ271A4LR1B
Code number for Singlepack*		120F0242
Code number for Industrial pack**		120F0243
Drawing number		8504010f
Suction and discharge connections		Rotolock
Suction connection		1-3/4 " Rotolock
Discharge connection		1-1/4 " Rotolock
Suction connection with supplied sleeve		1-1/8 " ODF
Discharge connection with supplied sleeve		3/4 " ODF
Oil sight glass		Threaded
Oil equalisation connection		3/8" flare SAE
Oil drain connection		None
LP gauge port		Schrader
IPR valve		30 bar / 8 bar
Cylinders	4	
Swept volume	271 cm ³ /rev	
Displacement @ Nominal speed	47.1 m ³ /h @ 2900 rpm - 56.9 m ³ /h @ 3500 rpm	
Net weight	64 kg	
Oil charge	3.9 litre, POE - 175PZ	
Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)	
Maximum differential test pressure	30 bar	
Maximum number of starts per hour	12	
Refrigerant charge limit	10 kg	
Approved refrigerants	R404A, R452A	

Dimensions


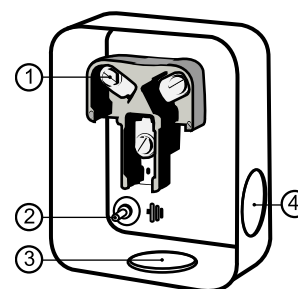
D=352 mm

H=519 mm

H1=233 mm

H2=125 mm

H3=- mm

Terminal box


IP54 (with cable gland)

1: Screw connectors 10-32 UNF x 9.5

2: Earth M4-12

3: Knock-out Ø 29 mm (1.14")

4: Knock-out Ø 25.5 mm (1.00")

Electrical Characteristics

Nominal voltage	380-400V/3/50Hz - 460V/3/60Hz
Voltage range	340-440 V @ 50Hz - 414-506 V @ 60Hz
Winding resistance (between phases) +/- 7% at 25°C	1.61 Ω
Maximum Continuous Current (MCC)	27 A
Locked Rotor Amps (LRA)	96 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	3 Nm / 2 Nm
Mounting bolts	50 Nm

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Suction & Discharge solder sleeves, rotolock nuts and gaskets (shipped with rotolock version only)
Initial oil charge
Installation instructions

Approvals : CE certified, -, -

*Singlepack: Compressor in cardboard box

**Industrial pack: 6 Unboxed compressors on pallet (order per multiples of 6)

Datasheet, performance data

Maneurop reciprocating compressor. NTZ271-4

Performance data at 50 Hz, EN 12900 rating conditions, Suction temp. = 20 °C

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-45	-40	-35	-30	-25	-20	-15	-10

Cooling capacity in W

30	-	6 187	8 495	11 288	14 617	18 529	23 072	28 295	-
35	-	-	7 751	10 379	13 501	17 166	21 422	26 317	-
40	-	-	6 955	9 406	12 310	15 716	19 673	24 228	-
45	-	-	-	8 380	11 054	14 190	17 835	22 039	-
50	-	-	-	-	9 744	12 598	15 921	19 761	-
55	-	-	-	-	-	10 952	13 941	17 406	-
60	-	-	-	-	-	9 263	11 906	14 984	-

Power input in W

30	-	4 592	5 420	6 247	7 070	7 887	8 695	9 493	-
35	-	-	5 541	6 445	7 350	8 255	9 156	10 052	-
40	-	-	5 623	6 607	7 598	8 594	9 592	10 589	-
45	-	-	-	6 728	7 809	8 899	9 997	11 100	-
50	-	-	-	-	7 975	9 164	10 365	11 577	-
55	-	-	-	-	-	9 382	10 691	12 015	-
60	-	-	-	-	-	9 549	10 968	12 408	-

Current consumption in A

30	-	8.31	9.41	10.57	11.76	12.92	14.01	14.98	-
35	-	-	9.53	10.77	12.06	13.35	14.61	15.77	-
40	-	-	9.65	10.98	12.38	13.81	15.23	16.60	-
45	-	-	-	11.16	12.68	14.26	15.85	17.42	-
50	-	-	-	-	12.92	14.65	16.43	18.20	-
55	-	-	-	-	-	14.96	16.92	18.90	-
60	-	-	-	-	-	15.14	17.29	19.49	-

Mass flow in kg/h

30	-	149	205	273	355	453	569	705	-
35	-	-	198	265	347	444	559	693	-
40	-	-	188	255	336	432	546	679	-
45	-	-	-	243	323	418	530	661	-
50	-	-	-	-	307	400	510	639	-
55	-	-	-	-	-	380	488	615	-
60	-	-	-	-	-	356	462	586	-

Coefficient of performance (C.O.P.)

30	-	1.35	1.57	1.81	2.07	2.35	2.65	2.98	-
35	-	-	1.40	1.61	1.84	2.08	2.34	2.62	-
40	-	-	1.24	1.42	1.62	1.83	2.05	2.29	-
45	-	-	-	1.25	1.42	1.59	1.78	1.99	-
50	-	-	-	-	1.22	1.37	1.54	1.71	-
55	-	-	-	-	-	1.17	1.30	1.45	-
60	-	-	-	-	-	0.97	1.09	1.21	-

Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	6 955	W
Power input	5 623	W
Current consumption	9.65	A
Mass flow	188	kg/h
C.O.P.	1.24	



to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Suction gas temp. = 20 °C , Subcooling = 0 K

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.1	bar(g)

Sound power data

Sound power level	84.2	dB(A)
With acoustic hood	78.2	dB(A)

Tolerance according EN12900

Datasheet, performance data

Maneurop reciprocating compressor. NTZ271-4

Performance data at 50 Hz, EN 12900 rating conditions, Superheat = 10 K

R404A

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)							
	-45	-40	-35	-30	-25	-20	-15	-10

Cooling capacity in W

30	3 787	5 504	7 663	10 324	13 549	17 400	21 940	27 231	-
35	3 238	4 846	6 856	9 330	12 328	15 915	20 154	25 110	-
40	2 677	4 162	6 012	8 285	11 044	14 353	18 278	22 885	-
45	2 119	3 468	5 143	7 203	9 710	12 728	16 324	20 569	-
50	-	2 776	4 264	6 097	8 338	11 052	14 306	18 173	-
55	-	-	3 388	4 982	6 944	9 338	12 236	15 710	-
60	-	-	2 533	3 872	5 540	7 599	10 122	13 186	-

Power input in W

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	3 687	4 649	5 623	6 607	7 598	8 594	9 592	10 589	-
45	3 572	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	-	-	5 442	6 783	8 153	9 549	10 968	12 408	-

Current consumption in A

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	7.42	8.45	9.65	10.98	12.38	13.81	15.23	16.60	-
45	7.42	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	-	-	9.45	11.17	13.08	15.14	17.29	19.49	-

Mass flow in kg/h

30	130	184	249	326	416	520	641	778	-
35	120	175	240	316	406	510	630	765	-
40	109	164	228	304	393	496	615	749	-
45	95	150	214	290	378	480	597	729	-
50	-	135	198	272	359	459	575	706	-
55	-	-	179	252	337	436	549	678	-
60	-	-	158	229	313	409	521	647	-

Coefficient of performance (C.O.P.)

30	1.01	1.20	1.41	1.65	1.92	2.21	2.52	2.87	-
35	0.86	1.04	1.24	1.45	1.68	1.93	2.20	2.50	-
40	0.73	0.90	1.07	1.25	1.45	1.67	1.91	2.16	-
45	0.59	0.75	0.91	1.07	1.24	1.43	1.63	1.85	-
50	-	0.62	0.76	0.90	1.05	1.21	1.38	1.57	-
55	-	-	0.61	0.73	0.86	1.00	1.14	1.31	-
60	-	-	0.47	0.57	0.68	0.80	0.92	1.06	-

Nominal performance at to = -35 °C, tc = 40 °C

Cooling capacity	6 012	W
Power input	5 623	W
Current consumption	9.65	A
Mass flow	228	kg/h
C.O.P.	1.07	

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.1	bar(g)
LP pump down setting	0.1	bar(g)

Sound power data

Sound power level	84.2	dB(A)
With acoustic hood	78.2	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

