

ENGINEERING TOMORROW

Datasheets

Danfoss Reciprocating compressors **MT / MTZ / NTZ**



FRCC.UD.180316.101040

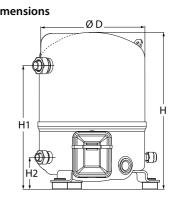
Datasheet, technical data

Maneurop reciprocating compressor, MT018-4

Danfoss

General Characteristics

Model number (on compressor nameplate)		MT18JA4BVE		
Code number for Singlepack*		MT18-4VI		
Code number for Industrial pack**		MT18-4VM		
Drawing number		8501024e		
Suction and discharge connections		Rotolock		
Suction connection		1 " Rotolock		
Discharge connection		1 " Rotolock		
Suction connection with supplied sleeve		1/2 " ODF		
Discharge connection with supplied sleeve		3/8 " ODF		
Oil sight glass		Threaded		
Oil equalisation connection		3/8" flare SAE		
Oil drain connection		None		
LP gauge port		Schrader		
IPR valve		None		
Cylinders		I		
Swept volume	30.23 c	m3/rev		
Displacement @ Nominal speed	5.3 m3/h @ 2900 rpm ·	- 6.3 m3/h @ 3500 rpm		
Net weight	21	kg		
Oil charge	0.95 litre, Mi	ineral - 160P		
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	1	2		
Refrigerant charge limit	3 kg			
Approved refrigerants	R22, R417A-160PZ			



D=224 mm H=333 mm H1=263 mm H2=68 mm H3=- mm

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	9.37 Ω			
Maximum Continuous Current (MCC)	5 A			
Locked Rotor Amps (LRA)	20 A			
Motor protection	Internal overload protector			

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	2 Nm / 2 Nm
Mounting bolts	15 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

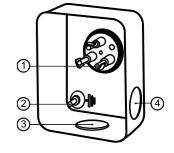
Installation instructions

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

*Singlepack: Compressor in cardboard box

**Industrial pack: 12 Unboxed compressors on pallet (order per multiples of 12)

Terminal box



IP55 (with cable gland)

- 1: Spade connectors 1/4"
 - Earth M4-12

2:

- 3: Knock-out Ø 21 mm (0.83")
- 4: Hole Ø 21 mm (0.83")



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Datasheet, accessories and spare parts

Maneurop reciprocating compressor, MT018-4

Rotolock accessories, suction side	Code no.	
Solder sleeve, P06 (1" Rotolock, 1/2" ODF)	8153007	
Angle adapter, C06 (1" Rotolock, 1/2" ODF)	8168007	
Rotolock valve, V06 (1" Rotolock, 1/2" ODF)	8168031	Gaskets, sleeves and nuts
Gasket, 1"	8156130	
Detaladu accession discharge side	Cadana	
Rotolock accessories, discharge side	Code no.	
Solder sleeve, P01 (1" Rotolock, 3/8" ODF)	8153010	
Angle adapter, C01 (1" Rotolock, 3/8" ODF)	8168004	
Rotolock valve, V01 (1" Rotolock, 3/8" ODF)	8168027	
Gasket, 1"	8156130	1 2 3
Rotolock accessories, sets	Code no.	1: Gasket
Angle adapter set, C06 (1"~1/2"), C01 (1"~3/8")	7703011	2: Solder sleeve
Valve set, V06 (1"~1/2"), V01 (1"~3/8")	7703004	3: Rotolock nut
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009	
Oil / lubricants	Code no.	
Mineral oil, 160P, 2 litre can	7754001	
Mineral oil, 160P, 5 litre can	7754002	
Crankcase heaters	Code no.	Mounting kit
	120Z0459	
PTC heater 27W,CE mark, UL		1
Belt type crankcase heater, 54 W, 230 V, CE mark, UL	7773106	2
Belt type crankcase heater, 54 W, 400 V, UL	7773013	3
Miscellaneous accessories	Code no.	
Electronic soft start kit, MCl 15 C	7705006	
Acoustic hood for 1 cylinder compressor	120Z0575	
Oil equalisation nut	8153127	
	0.0012/	
Spare parts	Code no.	
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001	
Oil sight glass with gaskets (black & white)	8156019	1: Bolt (3x)
Gasket for oil sight glass (black chloroprene)	8156145	2: Lock washer (3x)
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134	3: Flat washer (3x)
		4: Sleeve (3x)
		5: Grommet (3x)

5: Grommet (3x) 6: Nut (3x)



Maneurop reciprocating compressor. MT018-4

Performance data at 50 Hz, EN 12900 rating conditions

Cond. temp. in		<u>г</u>		1	ating temperatu			1 1	
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity		<u>т т</u>			r			1 1	
30	800	1 169	1 639	2 226	2 947	3 819	4 858	6 081	7 504
35	700	1 049	1 493	2 049	2 731	3 558	4 546	5 711	7 070
40	611	936	1 350	1 870	2 510	3 288	4 221	5 324	6 615
45	532	830	1 211	1 690	2 284	3 010	3 884	4 921	6 140
50	-	733	1 076	1 512	2 056	2 725	3 536	4 504	5 646
55	-	-	947	1 335	1 825	2 434	3 178	4 073	5 135
60	-	-	-	1 161	1 594	2 138	2 812	3 629	4 608
65	-	-	-	-	1 362	1 839	2 438	3 175	4 065
Power input in W		1			1			1	
30	587	691	789	876	950	1 005	1 037	1 043	1 018
35	610	719	823	918	1 000	1 066	1 111	1 130	1 120
40	629	743	855	959	1 051	1 128	1 186	1 220	1 226
45	644	765	884	997	1 101	1 191	1 262	1 312	1 334
50	-	782	910	1 034	1 150	1 253	1 340	1 406	1 446
55	-	-	933	1 069	1 197	1 315	1 418	1 501	1 561
60	-	-	-	1 100	1 243	1 376	1 495	1 597	1 677
65	-	-	-	-	1 285	1 435	1 573	1 694	1 795
Current consump	otion in A	1						1	
30	1.97	2.03	2.10	2.17	2.23	2.28	2.31	2.31	2.28
35	1.98	2.05	2.13	2.20	2.27	2.33	2.37	2.39	2.38
40	2.00	2.07	2.15	2.24	2.32	2.39	2.45	2.49	2.50
45	2.01	2.09	2.18	2.27	2.36	2.45	2.53	2.58	2.62
50	-	2.10	2.20	2.31	2.41	2.52	2.61	2.69	2.74
55	-	-	2.22	2.34	2.46	2.59	2.70	2.80	2.88
60	-	-	-	2.37	2.51	2.65	2.79	2.92	3.02
65	-	-	-	-	2.56	2.72	2.88	3.04	3.17
Mass flow in kg/h	l								
30	18	25	35	47	61	78	98	121	148
35	16	24	33	45	59	76	95	118	145
40	14	22	31	42	56	73	92	115	141
45	13	20	29	40	53	69	88	111	137
50	-	19	27	37	50	66	84	106	131
55	-	-	25	35	47	62	79	100	125
60	-	-	-	32	43	57	74	94	118
65	-	-	-	-	39	52	68	87	110
Coefficient of per	formance (C.C	D.P.)							
30	1.36	1.69	2.08	2.54	3.10	3.80	4.68	5.83	7.37
35	1.15	1.46	1.82	2.23	2.73	3.34	4.09	5.05	6.31
40	0.97	1.26	1.58	1.95	2.39	2.91	3.56	4.37	5.40
45	0.83	1.09	1.37	1.69	2.07	2.53	3.08	3.75	4.60
50	-	0.94	1.18	1.46	1.79	2.17	2.64	3.20	3.90
55	-	-	1.01	1.25	1.52	1.85	2.24	2.71	3.29
60	-	-	-	1.06	1.28	1.55	1.88	2.27	2.75
65	_	-	-	-	1.20	1.28	1.55	1.87	2.73
	-	-	-	-	1.00	1.20	1.00	1.07	2.21
ominal perform	ance at to = 5	°C, tc = 50 °C				Pressure switch s	ettinas		
Cooling capacity		3 536	W			Maximum HP swite	-	27.9	bar(g)
Power input		1 340	W			Minimum LP switch	•	0.7	bar(g)
Current consumpti	ion	2.61	A			LP pump down set	ting	0.9	bar(g)
Mass flow		84	kg/h						
C.O.P.		2.64				Sound power data			15 (1)
						Sound power level		70	dB(A) dB(A)
 Evaporating ter 						With accoustic hoo	d	62	

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

Tolerance according EN12900

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R22

Maneurop reciprocating compressor. MT018-4

of 50 Line A Di rotio Dorf 4-4-4:4:

Performanc	e data at 5	0 Hz, ARI ratii	ng conditio	ons					R22
Cond. temp. in				Evapora	ating temperatur	re in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity									
30	849	1 240	1 738	2 359	3 121	4 041	5 137	6 425	7 924
35	746	1 117	1 589	2 178	2 901	3 777	4 822	6 053	7 488
40	653	1 001	1 442	1 995	2 676	3 503	4 493	5 663	7 030
45	572	892	1 299	1 812	2 446	3 220	4 151	5 255	6 551
50	-	791	1 160	1 628	2 212	2 929	3 796	4 831	6 052
55	-	-	1 027	1 446	1 975	2 631	3 431	4 392	5 532
60	-	-	-	1 266	1 736	2 326	3 055	3 939	4 995
65	-	-	-	-	1 496	2 017	2 670	3 472	4 440
Power input in V	v								
30	587	691	789	876	950	1 005	1 037	1 043	1 018
35	610	719	823	918	1 000	1 066	1 111	1 130	1 120
40	629	743	855	959	1 051	1 128	1 186	1 220	1 226
45	644	765	884	997	1 101	1 191	1 262	1 312	1 334
50	-	782	910	1 034	1 150	1 253	1 340	1 406	1 446
55	-	-	933	1 069	1 197	1 315	1 418	1 501	1 561
60	-	-	-	1 100	1 243	1 376	1 495	1 597	1 677
65	-	-	-	-	1 285	1 435	1 573	1 694	1 795
Current consum	•	0.00	0.40	0.17	0.00	0.00	0.04	0.04	0.00
30	1.97	2.03	2.10	2.17	2.23	2.28	2.31	2.31	2.28
35	1.98	2.05	2.13	2.20	2.27	2.33	2.37	2.39	2.38
40	2.00	2.07	2.15	2.24	2.32	2.39	2.45	2.49	2.50
45	2.01	2.09	2.18	2.27	2.36	2.45	2.53	2.58	2.62
50	-	2.10	2.20	2.31	2.41	2.52	2.61	2.69	2.74
55	-	-	2.22	2.34	2.46	2.59	2.70	2.80	2.88
60 65	-	-	-	2.37	2.51 2.56	2.65	2.79 2.88	2.92 3.04	3.02 3.17
05	-	-	-	-	2.50	2.12	2.00	3.04	5.17
Mass flow in kg/	h								
30	17	25	35	47	61	78	98	121	148
35	16	23	33	44	58	75	95	118	144
40	14	22	31	42	56	72	92	114	141
45	13	20	29	40	53	69	88	110	136
50	-	19	27	37	50	65	84	105	130
55	-	-	25	35	47	61	79	100	124
60	-	-	-	32	43	57	74	94	117
65	-	-	-	-	39	52	68	87	109
Coefficient of pe	rformanco (C)								
30	1.45	1.80	2.20	2.69	3.29	4.02	4.95	6.16	7.78
35	1.10	1.55	1.93	2.37	2.90	3.54	4.34	5.36	6.69
40	1.04	1.35	1.69	2.08	2.55	3.11	3.79	4.64	5.74
45	0.89	1.17	1.60	1.82	2.22	2.70	3.29	4.01	4.91
50	-	1.01	1.47	1.57	1.92	2.34	2.83	3.44	4.18
55	-	-	1.10	1.35	1.65	2.00	2.42	2.93	3.54
60	-		-	1.15	1.40	1.69	2.04	2.47	2.98
65	-	-	-	-	1.40	1.09	1.70	2.47	2.90
		I							
	nance at to = 7.	<u>.2 °C, tc = 54.4 °C</u>	101			Pressure switch			
Cooling capacity Power input		3 881 1 447	W W			Maximum HP swite Minimum LP swite		27.9 0.7	bar(g)
Power input Current consump	tion	2.73	A			LP pump down se		0.7	bar(g) bar(g)
Mass flow		88	kg/h					0.0	201(9)
C.O.P.		2.68	-			Sound power da			
						Sound power leve		70	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900

With accoustic hood

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dB(A)



Maneurop reciprocating compressor. MT018-4

Performance data at 60 Hz, EN 12900 rating conditions

| °C (tc) -25 Cooling capacity in W 30 960 35 840 40 733 45 639 50 - 60 - 65 - Power input in W 30 704 35 732 40 755 45 772 50 - 60 - 65 - 60 - 65 - 60 - 65 - 60 - 65 - 60 - 65 - 60 - 65 - 60 - 55 - 60 - 55 - 60 - 55 - 60 - 65 - Mass flow in kg/h 30 35 19

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| 30 960 35 840 40 733 45 639 50 - 55 - 60 - 65 - 90wer input in W 30 30 704 35 732 40 755 45 772 50 - 60 - 65 - 200 - 55 - 60 - 65 - 200 - 55 - 60 - 65 - Current consumption in A 30 1.97 35 1.98 40 2.00 45 2.01 50 - 65 - 40 2.0 45 19 40 17 <td< th=""><th>1 259
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55 - | 26 | 37 | 51 | 67 | 87 | 111 | 138 | 170 | 55 - | 24 | 35 | 48 | 64 | 83 | 106 | 133 | 164 | | 23 | 33 | 45 | 60 | 79 | 101 | 127 | 157 | - 60 | - | 30 | 42 | 56 | 74 | 95 | 120 | 150 | | - | - | 38 | 52 | 68 | 89 | 113 | 141 | 65 - | - | - | - | 47 | 63 | 82 | 105 | 132 | | | | | | | | | | Coefficient of performance | e (C.O.P.) | 1 | 1 | 1 | | 1 | · · · · · | | 30 1.36 | 1.69 | 2.08 | 2.54 | 3.10 | 3.80 | 4.68 | 5.83 | 7.37 | 35 1.15 | 1.46 | 1.82 | 2.23 | 2.73 | 3.34 | 4.09 | 5.05 | 6.31 | 40 0.97 | 1.26 | 1.58 | 1.95 | 2.39 | 2.91 | 3.56 | 4.37 | 5.40 | 45 0.83 | 1.09 | 1.37 | 1.69 | 2.07 | 2.53 | 3.08 | 3.75 | 4.60 | - 50 | 0.94 | 1.18 | 1.46 | 1.79 | 2.17 | 2.64 | 3.20 | 3.90 | 55 - | - | 1.01 | 1.25 | 1.52 | 1.85 | 2.24 | 2.71 | 3.29 | 60 - | - | - | 1.06 | 1.28 | 1.55 | 1.88 | 2.27 | 2.75 | 65 - | - | - | - | 1.06 | 1.28 | 1.55 | 1.87 | 2.27 | · · · · · | | | | | | | | | Nominal performance at t | o = 5 °C, tc = 50 °C | | | | Pressure switch | settings | | | Cooling capacity | 4 243 | | | | Maximum HP swite | • | 27.9 | bar(g) | Power input | 1 608 | | | | Minimum LP switc | • | 0.7 | bar(g) | Current consumption | 2.61 | A
ka/b | | | LP pump down set | tting | 0.9 | bar(g) | Mass flow
C.O.P. | 101
2.64 | kg/h | | | Sound nowor dat | • | | | J.U.F. | 2.04 | |] | | Sound power data | | 73 | dB(A) | o: Evaporating temperature | | | | | With accoustic hoc | | 65 | dB(A) |
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| 30 1.36

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 | 1.46 | 1.82 | 2.23 | 2.73 | 3.34 | 4.09 | 5.05 | 6.31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | 0.94 | 1.18 | 1.46 | 1.79 | 2.17 | 2.64 | 3.20 | 3.90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | - | 1.01 | 1.25 | 1.52 | 1.85 | 2.24 | 2.71 | 3.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | - | - | 1.06 | 1.28 | 1.55 | 1.88 | 2.27 | 2.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | - | - | - | 1.06 | 1.28 | 1.55 | 1.87 | 2.27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | o = 5 °C, tc = 50 °C | | | | Pressure switch | settings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Cooling capacity

 | 4 243 | | | | Maximum HP swite | • | 27.9 | bar(g) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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 | 1 608 | | | | Minimum LP switc | • | 0.7 | bar(g) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| J.U.F.

 | 2.04 | |] | | Sound power data | | 73 | dB(A) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| o: Evaporating temperature

 | | | | | With accoustic hoc | | 65 | dB(A) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Rating conditions : Superheat = 10 K , Subcooling = 0 K

Tolerance according EN12900

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R22

Maneurop reciprocating compressor. MT018-4

Danfoss

Performance data at 60 Hz, ARI rating conditions

Cond. temp. in	Evaporating temperature in °C (to)									
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15	
ooling capacity	in W									
30	1 019	1 488	2 085	2 830	3 745	4 849	6 164	7 710	9 508	
35	895	1 341	1 907	2 613	3 482	4 532	5 786	7 264	8 986	
40	784	1 201	1 731	2 394	3 211	4 204	5 391	6 795	8 437	
45	687	1 070	1 559	2 174	2 935	3 864	4 981	6 306	7 861	
50	-	949	1 392	1 954	2 654	3 515	4 555	5 798	7 262	
55	-	-	1 232	1 735	2 370	3 157	4 117	5 271	6 639	
60	-	-	-	1 519	2 083	2 792	3 666	4 726	5 994	
65	-	-	-	-	1 795	2 420	3 204	4 166	5 328	
ower input in W				1	1	1	1			
30	704	829	946	1 052	1 140	1 206	1 245	1 252	1 222	
35	732	862	987	1 102	1 201	1 279	1 333	1 356	1 344	
40	755	892	1 026	1 150	1 261	1 354	1 423	1 463	1 471	
45	772	918	1 061	1 197	1 321	1 429	1 515	1 574	1 601	
50	-	938	1 092	1 241	1 380	1 504	1 608	1 687	1 736	
55	-	-	1 119	1 282	1 437	1 578	1 701	1 801	1 873	
60	-	-	-	1 320	1 491	1 651	1 795	1 917	2 012	
65	-	-	-	-	1 542	1 722	1 887	2 033	2 154	

30	1.97	2.03	2.10	2.17	2.23	2.28	2.31	2.31	2.28
35	1.98	2.05	2.13	2.20	2.27	2.33	2.37	2.39	2.38
40	2.00	2.07	2.15	2.24	2.32	2.39	2.45	2.49	2.50
45	2.01	2.09	2.18	2.27	2.36	2.45	2.53	2.58	2.62
50	-	2.10	2.20	2.31	2.41	2.52	2.61	2.69	2.74
55	-	-	2.22	2.34	2.46	2.59	2.70	2.80	2.88
60	-	-	-	2.37	2.51	2.65	2.79	2.92	3.02
65	-	-	-	-	2.56	2.72	2.88	3.04	3.17

Mass flow in kg/h

30	21	30	42	56	73	93	117	145	177
35	19	28	39	53	70	90	114	141	173
40	17	26	37	51	67	87	110	137	169
45	16	24	35	48	64	83	105	132	163
50	-	22	32	45	60	78	100	126	157
55	-	-	30	42	56	74	95	120	149
60	-	-	-	38	52	68	88	112	141
65	-	-	-	-	47	62	81	104	131

Coefficient of performance (C.O.P.)

30	1.45	1.80	2.20	2.69	3.29	4.02	4.95	6.16	7.78
35	1.22	1.55	1.93	2.37	2.90	3.54	4.34	5.36	6.69
40	1.04	1.35	1.69	2.08	2.55	3.11	3.79	4.64	5.74
45	0.89	1.17	1.47	1.82	2.22	2.70	3.29	4.01	4.91
50	-	1.01	1.27	1.57	1.92	2.34	2.83	3.44	4.18
55	-	-	1.10	1.35	1.65	2.00	2.42	2.93	3.54
60	-	-	-	1.15	1.40	1.69	2.04	2.47	2.98
65	-	-	-	-	1.16	1.41	1.70	2.05	2.47

Nominal performance at to = 7.2 °C, tc = 54.4 °C									
Cooling capacity	4 657	W							
Power input	1 736	W							
Current consumption	2.73	Α							
Mass flow	106	kg/h							
COP	2.68								

Pressure switch settings		
Maximum HP switch setting	27.9	bar(g)
Minimum LP switch setting	0.7	bar(g)
LP pump down setting	0.9	bar(g)
Sound power data		
Sound power level	73	dB(A)
With accoustic hood	65	dB(A)

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 11.1 K , Subcooling = 8.3 K

Tolerance according EN12900



ENGINEERING TOMORROW



