

Datasheets

Maneurop® Reciprocating compressors MT / MTZ / MPZ / NTZ



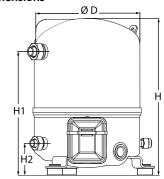


Datasheet, technical data

General Characteristics

Model number (on compressor nameplate)	MT36JG4E			
Code number for Industrial pack**	MT36-4M			
Drawing number	8501032e			
uction and discharge connections Roto				
Suction connection	1-1/4 " Rotolock			
Discharge connection		1 " Rotolock		
Suction connection with supplied sleeve		5/8 " ODF		
Discharge connection with supplied sleeve		1/2 " ODF		
Oil sight glass		None		
Oil equalisation connection	None			
Oil drain connection	None			
LP gauge port		Schrader		
IPR valve	30 bar / 8 bar			
Cylinders	1			
Swept volume	60,47 cm3/rev			
Displacement @ Nominal speed	10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm			
Net weight	25 kg			
Oil charge	0,95 litre, Mineral - 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	12			
Refrigerant charge limit	2,5	kg		
Approved refrigerants	R22, R417	7A-160PZ		

Dimensions



D=224 mm H=356 mm H1=263 mm H2=68 mm

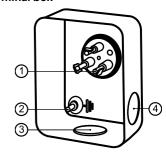
Electrical Characteristics

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	5.57 Ω
Maximum Continuous Current (MCC)	9 A
Locked Rotor Amps (LRA)	30 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	0 Nm
Power connections / Earth connection	Nm / 2 Nm
Mounting bolts	15 Nm

Terminal box



IP55 (with cable gland)

- 1: Spade connectors 1/4"
- 2: Earth M4-12
- 3: Knock-out Ø 21 mm (0.83")
- 4: Hole Ø 21 mm (0.83")

Parts shipped with compressor

Mounting kit with grommets, bolts, nuts, sleeves and washers
Initial oil charge
Installation instructions

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



 $[\]hbox{*Singlepack: Compressor in cardboard box}\\$

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



Datasheet, accessories and spare parts

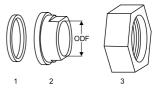
Crankcase heaters

Maneurop reciprocating compressor, MT036-4

Rotolock accessories, suction side	Code no.
Solder sleeve, P09 (1-1/4" Rotolock, 5/8" ODF)	8153011
Angle adapter, C09 (1-1/4" Rotolock, 5/8" ODF)	8168009
Rotolock valve, V09 (1-1/4" Rotolock, 5/8" ODF)	8168033
Gasket, 1-1/4"	8156131



Rotolock accessories, discharge 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
Gasket, 1"	8156130



Rotolock accessories, sets	Code no.
Angle adapter set, C09 (1-1/4"~5/8"), C06 (1"~1/2")	7703012
Valve set, V09 (1-1/4"~5/8"), V06 (1"~1/2")	7703005
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

1: Gasket
2: Solder sleeve
3: Rotolock nut

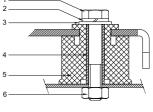
Oil / lubricants	Code no.		
Mineral oil, 160P, 2 litre can	7754001		
Mineral oil, 160P, 5 litre can	7754002		

Mo	untina	kit

PTC heater 27W	120Z0459	
Belt type crankcase heater, 54 W, 230 V, CE mark, UL	7773106	1
Belt type crankcase heater, 54 W, 400 V, UL	7773013	
Miscellaneous accessories	Code no.	_
Electronic soft start kit, MCI 15 C	7705006	4

Code no.

Acoustic hood for 1 cylinder compressor	7755001
Spare parts	Code no.
Mounting kit for 1 and 2 cylinder compressor, including 3 grommets, 3 bolts	8156001



6: Nut (3x)





Maneurop reciprocating compressor. MT036-4

Performance data at 50 Hz, EN 12900 rating conditions

R22

Cond. temp. in Evaporating temperature in °C (to)								
-25	-20	-15	-10	-5	0	5	10	15
in W								
2 741	3 691	4 783	6 028	7 437	9 023	10 796	12 769	14 953
2 436	3 362	4 424	5 633	6 999		10 252		14 276
					1		1	13 568
1 825								12 820
-					+			12 044
-	-		3 935	5 087	6 381			11 235
-	-	-	3 485	4 571	5 793			10 388
-	-	-	-	4 046	5 192	6 478	7 916	9 517
	4.740	1.004	2.004	2 200	2 227	2 444	2.404	2.402
								2 462 2 685
								2 921
								3 168
								3 426
					+			3 695
		-	1			1	1	3 973
		_			+			4 261
	ı	I	1	0 000	0 007	0 000	0 001	1201
otion in A								
3.35	3.54	3.74	3.94	4.12	4.27	4.38	4.44	4.44
3.41	3.61	3.83	4.05	4.26	4.45	4.60	4.71	4.75
3.47	3.68	3.92	4.17	4.41	4.64	4.84	4.99	5.10
3.51	3.75	4.02	4.30	4.58	4.85	5.09	5.30	5.47
-	3.81	4.11	4.43	4.75	5.07	5.37	5.64	5.86
	-	4.20	4.56		+			6.29
-	-	-	4.70					6.73
-	-	-	-	5.31	5.80	6.29	6.76	7.21
ı								
	79	102	126	154	184	218	255	296
55	75	98	123	150	181	215	252	293
50	71	93	119		177	211		290
45	66	89	114	142	173	207	244	285
-	60	83	109	137	168	202	239	280
-	-	77	103	131	161	195	233	273
-	-	-	96	124	155	188	225	266
-	-	-	-	116	147	180	217	257
	. D .\							
•		2.53	2 92	3 37	3.88	4 47	5 19	6.07
			1		+			5.32
							1	4.65
			1					4.05
								3.52
		1.28	1.75	1.81	2.08	2.72	2.69	3.04
-								
-	-	-	1.32	1.56	1.80	2.05	2.32	2.61
	in W 2 741 2 436 2 130 1 825 1 524 1 580 1 631 1 676	in W 2 741	In W	in W 2 741	In W			

Nominal performance at to = 5 °C, tc = 50 °C

itolimiai portormanos at to o o, to	00 0	
Cooling capacity	8 471	W
Power input	3 110	W
Current consumption	5.37	Α
Mass flow	202	kg/h
C.O.P.	2.72	

to: Evaporating temperature at dew point

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%



tc: Condensing temperature at dew point

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



Maneurop reciprocating compressor. MT036-4

Performance data at 50 Hz, ARI rating conditions

R22

Cond. temp. in				Evapora	ting temperature i	n °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacit	y in W								
30	2 911	3 917	5 071	6 386	7 873	9 545	11 413	13 490	15 787
35	2 596	3 580	4 707	5 988	7 435	9 059	10 874	12 890	15 120
40	2 279	3 239	4 333	5 576	6 977	8 550	10 307	12 258	14 417
45	1 962	2 892	3 950	5 150	6 502	8 019	9 713	11 596	13 679
50	-	2 541	3 559	4 711	6 010	7 467	9 094	10 903	12 906
55	-	-	3 161	4 262	5 502	6 894	8 450	10 182	12 100
60	-	-	-	3 801	4 979	6 302	7 783	9 432	11 262
65	-	-	-	-	4 442	5 692	7 092	8 655	10 392
Power input in \		1		I	1	1			Т
30	1 524	1 713	1 894	2 061	2 208	2 327	2 414	2 461	2 462
35	1 580	1 779	1 973	2 156	2 322	2 465	2 577	2 652	2 685
40	1 631	1 842	2 051	2 253	2 441	2 607	2 747	2 854	2 921
45	1 676	1 902	2 128	2 351	2 562	2 756	2 925	3 065	3 168
50	-	1 957	2 204	2 449	2 686	2 908	3 110	3 285	3 426
55	-	-	2 276	2 546	2 811	3 065	3 301	3 513	3 695
60	-	-	-	2 643	2 938	3 225	3 497	3 749	3 973
65	-	-	-	-	3 065	3 387	3 698	3 991	4 261
Current consum		T		Т	T	T			1
30	3.35	3.54	3.74	3.94	4.12	4.27	4.38	4.44	4.44
35	3.41	3.61	3.83	4.05	4.26	4.45	4.60	4.71	4.75
40	3.47	3.68	3.92	4.17	4.41	4.64	4.84	4.99	5.10
45	3.51	3.75	4.02	4.30	4.58	4.85	5.09	5.30	5.47
50	-	3.81	4.11	4.43	4.75	5.07	5.37	5.64	5.86
55	-	-	4.20	4.56	4.93	5.30	5.66	5.99	6.29
60	-	-	-	4.70	5.12	5.54	5.96	6.36	6.73
65	-	-	-	-	5.31	5.80	6.29	6.76	7.21
	_								
Mass flow in kg		1		ı	1	ı			1
30	59	79	101	126	153	183	217	254	294
35	55	75	97	122	150	180	214	251	292
40	50	70	93	118	146	176	210	247	288
45	45	65	88	113	141	172	206	243	283
50	-	60	83	108	136	167	200	238	278
55	-	-	77	102	130	161	194	231	272
60	-	-	-	95	123	154	187	224	264
65	-	-	-	-	116	146	179	216	256
	_								
Coefficient of pe	•	T '			1	I			
30	1.91	2.29	2.68	3.10	3.57	4.10	4.73	5.48	6.41
35	1.64	2.01	2.39	2.78	3.20	3.68	4.22	4.86	5.63
40	1.40	1.76	2.11	2.47	2.86	3.28	3.75	4.30	4.94
45	1.17	1.52	1.86	2.19	2.54	2.91	3.32	3.78	4.32
50	-	1.30	1.62	1.92	2.24	2.57	2.92	3.32	3.77
55	-	-	1.39	1.67	1.96	2.25	2.56	2.90	3.27
60	-	-	-	1.44	1.69	1.95	2.23	2.52	2.83

Nominal performance at to = 7.2 °C, tc = 54.4 °C

ĺ	Cooling capacity	9 272	W
	Power input	3 373	W
	Current consumption	5.77	Α
	Mass flow	211	kg/h
	C.O.P.	2.75	

to: Evaporating temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

2.17

2.44

1.92

Sound power data

1.68

1.45

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

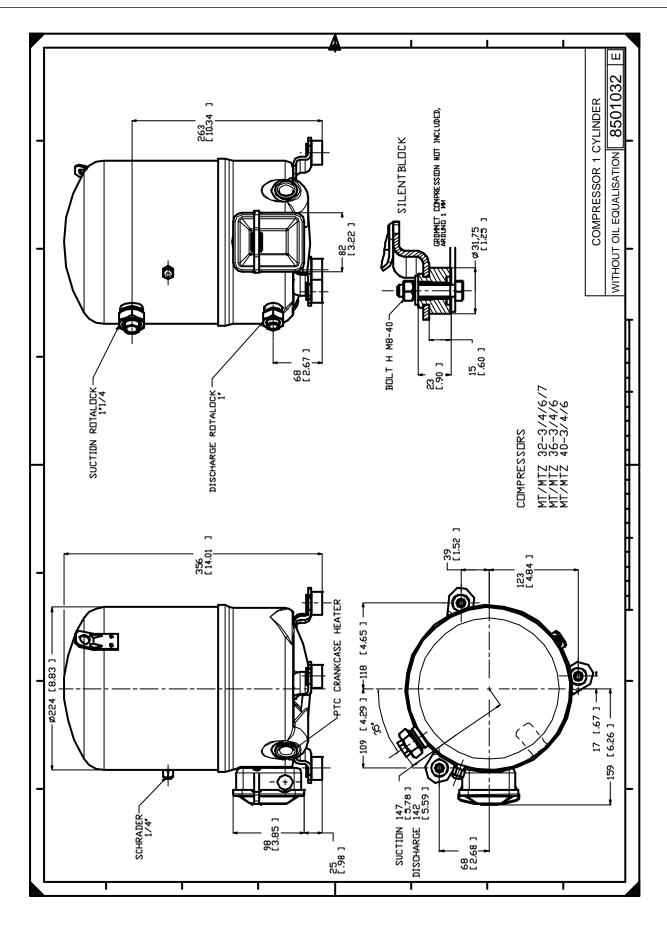
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65

tc: Condensing temperature at dew point







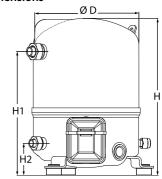


Datasheet, technical data

General Characteristics

Code number for Singlepack* Code number for Industrial pack** Drawing number Stotion and discharge connections Suction connection Discharge connection Discharge connection with supplied sleeve Discharge connection with supplied sleev	Model number (on compressor nameplate)	MT36JG4EVE	
Drawing number Suction and discharge connections Suction connection Discharge connection Discharge connection 1-1/4 " Rotolock 1 " Rotolock 1 " Rotolock Suction connection with supplied sleeve Discharge connection Oil drain connection Discharge connection Dis	Code number for Singlepack*		MT36-4VI
Suction and discharge connections Suction connection Discharge connection Discharge connection Suction connection Discharge connection Suction connection with supplied sleeve Discharge connection with supplied sleeve Discharge connection with supplied sleeve Discharge connection with supplied sleeve Oil sight glass Threaded Oil equalisation connection Solid drain connection LP gauge port Schrader IPR valve Schrader IPR valve 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight Oil charge Oil drain expected by Side / High side Maximum system test pressure Low Side / High side Maximum number of starts per hour Refrigerant charge limit Supplied the Rotolock 1 "Rotolock 1 "Potolock 1 "Sole "ODF 1 "Sole" 1 "Sole "Sole "Sole" 1 "Sole "Sole "Sole" 1 "Sole "	Code number for Industrial pack**	ack** MT36-4VM	
Suction connection Discharge connection Discharge connection Suction connection with supplied sleeve Discharge connection with supplied sleeve Discharge connection with supplied sleeve Oil sight glass Oil drain connection Cil drain connection LP gauge port LP gauge port LP qauge port Schrader IPR valve Cylinders Swept volume Displacement @ Nominal speed Net weight Oil charge Oil drainge Nominal speed 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight Oil charge Maximum system test pressure Low Side / High side Maximum differential test pressure Refrigerant charge limit 1 -1/4 " Rotolock 1 "Rotolock 1 Threaded 3/8" flare SAE None 1 Schrader 1 Schrader 1 Schrader 1 Schrader 1 Supplied	Drawing number		8501025f
Discharge connection Suction connection with supplied sleeve Discharge connection with supplied sleeve Discharge connection with supplied sleeve 1/2 " ODF Oil sight glass Threaded Oil equalisation connection Solid rain connection LP gauge port Schrader IPR valve 101 drain connection LP gauge port Schrader IPR valve 102 do	Suction and discharge connections		Rotolock
Suction connection with supplied sleeve Discharge connection with supplied sleeve Oil sight glass Oil drain connection LP gauge port IPR valve Cylinders Swept volume Displacement @ Nominal speed Note weight Oil charge Oil drain connection LP gauge port Schrader 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight Oil charge Maximum system test pressure Low Side / High side Maximum number of starts per hour Refrigerant charge limit 25 kg Refrigerant charge limit Refrigerant charge limit 25 kg	Suction connection		1-1/4 " Rotolock
Discharge connection with supplied sleeve Oil sight glass Oil equalisation connection Oil drain connection LP gauge port LP gauge port IPR valve Cylinders Swept volume Displacement @ Nominal speed Note weight Oil charge Oil drain connection LP gauge port LP gauge port Displacement @ Nominal speed Displacement @ Service	Discharge connection		1 " Rotolock
Oil sight glass Oil equalisation connection Oil drain connection LP gauge port LP gauge port IPR valve Schrader IPR valve 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight Oil charge Oil drain connection LP gauge port Schrader 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight Oil charge Oil charge Oil charge Maximum system test pressure Low Side / High side Maximum differential test pressure Maximum number of starts per hour 12 Refrigerant charge limit Threaded 3/8" flare SAE None Schrader 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm 25 kg 0,95 litre, Mineral - 160P	Suction connection with supplied sleeve		5/8 " ODF
Oil equalisation connection Oil drain connection LP gauge port IPR valve Cylinders Swept volume Displacement @ Nominal speed Nome 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight Oil charge Oil charge Maximum system test pressure Low Side / High side Maximum differential test pressure Maximum number of starts per hour Refrigerant charge limit 3/8" flare SAE None 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm 25 kg 0,95 litre, Mineral - 160P 30 bar 30 bar	Discharge connection with supplied sleeve		1/2 " ODF
Oil drain connection LP gauge port IPR valve Cylinders Swept volume Displacement @ Nominal speed Net weight Oil charge Oil charge Maximum system test pressure Maximum number of starts per hour Refrigerant charge limit None Schrader 30 bar / 8 bar 1 1 50,47 cm3/rev 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm 25 kg 0,95 litre, Mineral - 160P 25 bar(g) / 30 bar(g) 30 bar 12 Refrigerant charge limit 2,5 kg	Oil sight glass		Threaded
LP gauge port IPR valve Cylinders Swept volume Displacement @ Nominal speed Net weight Oil charge Maximum system test pressure Maximum differential test pressure Maximum number of starts per hour Refrigerant charge limit Schrader 30 bar / 8 bar 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm 25 kg 0,95 litre, Mineral - 160P 25 bar(g) / 30 bar(g) 30 bar Maximum number of starts per hour 12 Refrigerant charge limit	Oil equalisation connection		3/8" flare SAE
IPR valve 30 bar / 8 bar Cylinders 1 Swept volume 60,47 cm3/rev Displacement @ Nominal speed 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight 25 kg Oil charge 0,95 litre, Mineral - 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 12 Refrigerant charge limit 2,5 kg	Oil drain connection		None
Cylinders Swept volume Displacement @ Nominal speed 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight Oil charge Oil charge Maximum system test pressure Low Side / High side Maximum differential test pressure Maximum number of starts per hour Refrigerant charge limit 1 1 1 1 1 1 1 1 1 1 1 1 1	LP gauge port		Schrader
Swept volume Displacement @ Nominal speed 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight Oil charge Oil charge Maximum system test pressure Low Side / High side Maximum differential test pressure Maximum number of starts per hour Refrigerant charge limit 60,47 cm3/rev 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm 25 kg 0,95 litre, Mineral - 160P 25 bar(g) / 30 bar(g) 30 bar 12 Refrigerant charge limit 2,5 kg	IPR valve		30 bar / 8 bar
Displacement @ Nominal speed 10.5 m3/h @ 2900 rpm - 12.7 m3/h @ 3500 rpm Net weight 25 kg Oil charge 0,95 litre, Mineral - 160P Maximum system test pressure Low Side / High side Maximum differential test pressure 30 bar Maximum number of starts per hour 12 Refrigerant charge limit 25 kg	Cylinders	1	
Net weight 25 kg Oil charge 0,95 litre, Mineral - 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 12 Refrigerant charge limit 2,5 kg	Swept volume	60,47 c	m3/rev
Oil charge 0,95 litre, Mineral - 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 12 Refrigerant charge limit 2,5 kg	Displacement @ Nominal speed	10.5 m3/h @ 2900 rpm -	- 12.7 m3/h @ 3500 rpm
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 2,5 kg	Net weight	25	kg
Maximum differential test pressure 30 bar Maximum number of starts per hour 12 Refrigerant charge limit 2,5 kg	Oil charge	0,95 litre, Mineral - 160P	
Maximum number of starts per hour 12 Refrigerant charge limit 2,5 kg	Maximum system test pressure Low Side / High side	25 bar(g) / 30 bar(g)	
Refrigerant charge limit 2,5 kg	Maximum differential test pressure	30 bar	
	Maximum number of starts per hour	1.	2
Approved refrigerants R22, R417A-160PZ	Refrigerant charge limit	2,5 kg	
	Approved refrigerants	R22, R417A-160PZ	

Dimensions



D=224 mm H=356 mm H1=263 mm H2=68 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	5.57 Ω
Maximum Continuous Current (MCC)	9 A
Locked Rotor Amps (LRA)	30 A
Motor protection	Internal overload protector

Recommended Installation torques

Oil sight glass	50 Nm
Power connections / Earth connection	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

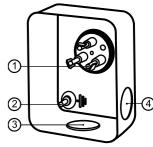
Installation instructions

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)

Spade connectors 1/4" 1:

2: Earth M4-12

Knock-out Ø 21 mm (0.83") 3:

4: Hole Ø 21 mm (0.83")





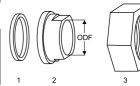
Datasheet, accessories and spare parts

Maneurop reciprocating compressor, MT036-4

Rotolock accessories, suction side	Code no.
Solder sleeve, P09 (1-1/4" Rotolock, 5/8" ODF)	8153011
Angle adapter, C09 (1-1/4" Rotolock, 5/8" ODF)	8168009
Rotolock valve, V09 (1-1/4" Rotolock, 5/8" ODF)	8168033
Gasket, 1-1/4"	8156131

Gaskets, sleeves and nuts

Rotolock accessories, discharge 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
Gasket, 1"	8156130



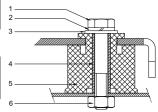
Rotolock accessories, sets	Code no.
Angle adapter set, C09 (1-1/4"~5/8"), C06 (1"~1/2")	7703012
Valve set, V09 (1-1/4"~5/8"), V06 (1"~1/2")	7703005
Gasket set, 1", 1-1/4", 1-3/4", OSG gaskets black & white	8156009

1: Gasket 2: Solder sleeve 3: Rotolock nut

Oil / lubricants	Code no.
Mineral oil, 160P, 2 litre can	7754001
Mineral oil, 160P, 5 litre can	7754002

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IVIO	untina	ΚIT

Crankcase heaters	Code no.
PTC heater 27W	120Z0459
Belt type crankcase heater, 54 W, 230 V, CE mark, UL	7773106
Belt type crankcase heater, 54 W, 400 V, UL	7773013



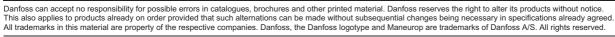
Miscellaneous accessories	Code no.
Electronic soft start kit, MCI 15 C	7705006
Acoustic hood for 1 cylinder compressor	7755001
Oil equalisation nut	8153127

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
Gasket for oil sight glass (black chloroprene)	8156145
Service kit for terminal box 80 x 96 mm, including 1 cover, 1 clamp	8156134

1: Bolt (3x)
2: Lock washer (3x)
3: Flat washer (3x)

4: Sleeve (3x)

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







Maneurop reciprocating compressor. MT036-4

Performance data at 50 Hz, EN 12900 rating conditions

R22

np. in Evaporating temperature in °C (to)								
-25	-20	-15	-10	-5	0	5	10	15
in W								
2 741	3 691	4 783	6 028	7 437	9 023	10 796	12 769	14 953
2 436	3 362	4 424	5 633	6 999		10 252		14 276
					1		1	13 568
1 825								12 820
-					+			12 044
-	-		3 935	5 087	6 381			11 235
-	-	-	3 485	4 571	5 793			10 388
-	-	-	-	4 046	5 192	6 478	7 916	9 517
	4.740	1.004	2.004	2 200	2 227	2 444	2.404	2.402
								2 462 2 685
								2 921
								3 168
								3 426
					+			3 695
		-	1			1	1	3 973
		_			+			4 261
	ı	I	1	0 000	0 007	0 000	0 001	1201
otion in A								
3.35	3.54	3.74	3.94	4.12	4.27	4.38	4.44	4.44
3.41	3.61	3.83	4.05	4.26	4.45	4.60	4.71	4.75
3.47	3.68	3.92	4.17	4.41	4.64	4.84	4.99	5.10
3.51	3.75	4.02	4.30	4.58	4.85	5.09	5.30	5.47
-	3.81	4.11	4.43	4.75	5.07	5.37	5.64	5.86
	-	4.20	4.56		+			6.29
-	-	-	4.70					6.73
-	-	-	-	5.31	5.80	6.29	6.76	7.21
ı								
	79	102	126	154	184	218	255	296
55	75	98	123	150	181	215	252	293
50	71	93	119		177	211		290
45	66	89	114	142	173	207	244	285
-	60	83	109	137	168	202	239	280
-	-	77	103	131	161	195	233	273
-	-	-	96	124	155	188	225	266
-	-	-	-	116	147	180	217	257
	. D .\							
•		2.53	2 92	3 37	3.88	4 47	5 19	6.07
			1		+			5.32
							1	4.65
			1					4.05
								3.52
		1.28	1.75	1.81	2.08	2.72	2.69	3.04
-								
-	-	-	1.32	1.56	1.80	2.05	2.32	2.61
	in W 2 741 2 436 2 130 1 825 1 524 1 580 1 631 1 676	in W 2 741	In W	in W 2 741	In W			

Nominal performance at to = 5 °C, tc = 50 °C

itolimiai portormanos at to o o, to	00 0	
Cooling capacity	8 471	W
Power input	3 110	W
Current consumption	5.37	Α
Mass flow	202	kg/h
C.O.P.	2.72	

to: Evaporating temperature at dew point

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

Sound power data

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%



tc: Condensing temperature at dew point

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



Maneurop reciprocating compressor. MT036-4

Performance data at 50 Hz, ARI rating conditions

R22

Cond. temp. in				Evapora	ting temperature i	n °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacit	y in W								
30	2 911	3 917	5 071	6 386	7 873	9 545	11 413	13 490	15 787
35	2 596	3 580	4 707	5 988	7 435	9 059	10 874	12 890	15 120
40	2 279	3 239	4 333	5 576	6 977	8 550	10 307	12 258	14 417
45	1 962	2 892	3 950	5 150	6 502	8 019	9 713	11 596	13 679
50	-	2 541	3 559	4 711	6 010	7 467	9 094	10 903	12 906
55	-	-	3 161	4 262	5 502	6 894	8 450	10 182	12 100
60	-	-	-	3 801	4 979	6 302	7 783	9 432	11 262
65	-	-	-	-	4 442	5 692	7 092	8 655	10 392
Power input in \		1		I	1	1			Т
30	1 524	1 713	1 894	2 061	2 208	2 327	2 414	2 461	2 462
35	1 580	1 779	1 973	2 156	2 322	2 465	2 577	2 652	2 685
40	1 631	1 842	2 051	2 253	2 441	2 607	2 747	2 854	2 921
45	1 676	1 902	2 128	2 351	2 562	2 756	2 925	3 065	3 168
50	-	1 957	2 204	2 449	2 686	2 908	3 110	3 285	3 426
55	-	-	2 276	2 546	2 811	3 065	3 301	3 513	3 695
60	-	-	-	2 643	2 938	3 225	3 497	3 749	3 973
65	-	-	-	-	3 065	3 387	3 698	3 991	4 261
Current consum		T		Т	T	T			1
30	3.35	3.54	3.74	3.94	4.12	4.27	4.38	4.44	4.44
35	3.41	3.61	3.83	4.05	4.26	4.45	4.60	4.71	4.75
40	3.47	3.68	3.92	4.17	4.41	4.64	4.84	4.99	5.10
45	3.51	3.75	4.02	4.30	4.58	4.85	5.09	5.30	5.47
50	-	3.81	4.11	4.43	4.75	5.07	5.37	5.64	5.86
55	-	-	4.20	4.56	4.93	5.30	5.66	5.99	6.29
60	-	-	-	4.70	5.12	5.54	5.96	6.36	6.73
65	-	-	-	-	5.31	5.80	6.29	6.76	7.21
	_								
Mass flow in kg		1		ı	1	ı			1
30	59	79	101	126	153	183	217	254	294
35	55	75	97	122	150	180	214	251	292
40	50	70	93	118	146	176	210	247	288
45	45	65	88	113	141	172	206	243	283
50	-	60	83	108	136	167	200	238	278
55	-	-	77	102	130	161	194	231	272
60	-	-	-	95	123	154	187	224	264
65	-	-	-	-	116	146	179	216	256
	_								
Coefficient of pe	•	T '			1	I			
30	1.91	2.29	2.68	3.10	3.57	4.10	4.73	5.48	6.41
35	1.64	2.01	2.39	2.78	3.20	3.68	4.22	4.86	5.63
40	1.40	1.76	2.11	2.47	2.86	3.28	3.75	4.30	4.94
45	1.17	1.52	1.86	2.19	2.54	2.91	3.32	3.78	4.32
50	-	1.30	1.62	1.92	2.24	2.57	2.92	3.32	3.77
55	-	-	1.39	1.67	1.96	2.25	2.56	2.90	3.27
60	-	-	-	1.44	1.69	1.95	2.23	2.52	2.83

Nominal performance at to = 7.2 °C, tc = 54.4 °C

ĺ	Cooling capacity	9 272	W
	Power input	3 373	W
	Current consumption	5.77	Α
	Mass flow	211	kg/h
	C.O.P.	2.75	

to: Evaporating temperature at dew point

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

Pressure switch settings

Maximum HP switch setting	27.7	bar(g)
Minimum LP switch setting	0.2	bar(g)
LP pump down setting	0.9	bar(g)

2.17

2.44

1.92

Sound power data

1.68

1.45

Sound power level	0	dB(A)
With accoustic hood	0	dB(A)

All performance data +/- 5%

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tc: Condensing temperature at dew point



