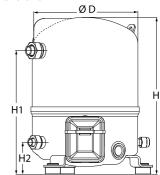


Datasheet, technical data

General Characteristics

Model number (on compressor nameplate)		MT28JE4AVE	
Code number for Singlepack*		MT28-4VI	
Code number for Industrial pack**		MT28-4VM	
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	1		
Swept volume	48.06 c	m3/rev	
Displacement @ Nominal speed	8.4 m3/h @ 2900 rpm -	10.1 m3/h @ 3500 rpm	
Net weight	23	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	laximum differential test pressure 30 bar		
Maximum number of starts per hour	r hour 12		
Refrigerant charge limit	2.5 kg		
Approved refrigerants	R22, R417A-160PZ		

Dimensions



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

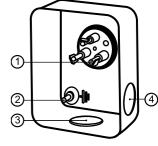
Flectrical Characteristics

	Liectrical 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℃	6.23 Ω
	Maximum Continuous Current (MCC)	7.5 A
	Locked Rotor Amps (LRA)	29 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		

Terminal box



IP55 (with cable gland)

- Spade connectors 1/4" 1:
- 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

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)



Maneurop reciprocating compressor. MT028-4

Performance data at 50 Hz, EN 12900 rating conditions

R22

Cond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
		•	1	1	1	1	1		
Cooling capacit		2.702	2.057	4.004	5 000	7.407	0.574	10.010	40.000
30	2 029	2 783	3 657	4 661	5 808	7 107	8 571	10 210	12 036
35	1 807	2 541	3 390	4 363	5 473	6 730	8 146	9 731	11 497
40	1 583	2 294	3 114	4 053	5 122	6 333	7 697	9 224	10 927
45 50	1 358	2 042	2 829	3 730	4 755 4 372	5 916 5 479	7 224 6 727	8 690	10 325 9 691
55	-	1 785	2 536 2 235	3 394 3 047	3 973	5 479	6 208	8 128 7 539	9 027
60	-	-	2 235	2 689	3 559	4 548	5 666		8 332
65	-	-	-	2 089	3 132	4 055	5 101	6 923 6 281	7 606
05	-	-	-	-	3 132	4 055	5 101	0 201	7 000
Power input in \	w								
30	1 183	1 349	1 497	1 620	1 710	1 758	1 757	1 697	1 572
35	1 206	1 383	1 547	1 689	1 801	1 875	1 902	1 876	1 787
40	1 218	1 409	1 590	1 753	1 890	1 992	2 052	2 061	2 011
45	1 218	1 425	1 626	1 813	1 976	2 109	2 203	2 250	2 242
50	-	1 430	1 654	1 866	2 060	2 226	2 357	2 444	2 479
55	-	-	1 672	1 913	2 139	2 340	2 510	2 640	2 722
60	-	-	-	1 952	2 212	2 452	2 664	2 839	2 970
65	-	-	-	-	2 279	2 559	2 815	3 038	3 220
30 35	2.96 2.98	3.10 3.14	3.25 3.30	3.38 3.45	3.48 3.58	3.54 3.67	3.54 3.70	3.46 3.67	3.30 3.56
40	3.00	3.17	3.35	3.52	3.68	3.81	3.89	3.90	3.85
45	3.00	3.18	3.39	3.59	3.79	3.95	4.08	4.15	4.15
50	-	3.19	3.42	3.66	3.89	4.11	4.29	4.41	4.48
55	-	-	3.44	3.72	4.00	4.26	4.50	4.69	4.83
60	-	-	-	3.78	4.10	4.42	4.72	4.98	5.19
65	-	-	-	-	4.21	4.59	4.95	5.28	5.57
		•			•	•			
Mass flow in kg 30	/h 44	60	78	98	120	146	174	204	239
35	41	57	75	95	118	143	171	202	236
40	37	54	72	92	115	140	168	199	233
45	34	50	68	88	111	136	164	195	230
50	-	46	64	84	107	132	160	191	225
55	_	-	59	79	102	127	155	186	220
60	-	-	-	74	96	121	149	180	213
65	_	-	-	-	90	115	142	172	206
			1	1					
	erformance (C.C		244	2.00	2.40	404	4.00	0.00	7.00
30	1.71	2.06	2.44	2.88	3.40	4.04	4.88	6.02	7.66
35	1.50	1.84	2.19	2.58	3.04	3.59	4.28	5.19	6.43
40	1.30	1.63	1.96	2.31	2.71	3.18	3.75	4.48	5.43
45	1.11	1.43	1.74	2.06	2.41	2.80	3.28	3.86	4.61

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

rionina poriorinarios arto o o, to	•••	
Cooling capacity	6 727	W
Power input	2 357	W
Current consumption	4.29	Α
Mass flow	160	kg/h
C.O.P.	2.85	

1 25

1 53

1.34

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)

3 33

2.86

2.44

2.07

3.91

3.32

2.81

2.36

2.85

2.47

2.13

1.81

Sound power data

2 46

2.15

1.85

1.58

2.12

1.86

1.61

1.37

Sound power level	68	dB(A)
With accoustic hood	61	dB(A)

Tolerance according EN12900

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1 82

1.59

1.38



50

55

60

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

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



Maneurop reciprocating compressor. MT028-4

Performance data at 50 Hz, ARI rating conditions

R22

Cond. temp. in				Evapora	ating temperature	in °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
		•							
Cooling capacit	y in W								
30	2 155	2 953	3 877	4 939	6 149	7 520	9 062	10 788	12 709
35	1 926	2 706	3 607	4 639	5 814	7 144	8 640	10 314	12 178
40	1 694	2 453	3 326	4 325	5 461	6 747	8 193	9 811	11 614
45	1 460	2 193	3 035	3 997	5 091	6 328	7 721	9 280	11 016
50	-	1 927	2 734	3 656	4 703	5 889	7 224	8 719	10 387
55	-	-	2 424	3 301	4 299	5 428	6 702	8 130	9 726
60	-	-	-	2 933	3 877	4 947	6 156	7 514	9 032
65	-	-	-	-	3 439	4 446	5 586	6 869	8 308
Power input in \	w								
30	1 183	1 349	1 497	1 620	1 710	1 758	1 757	1 697	1 572
35	1 206	1 383	1 547	1 689	1 801	1 875	1 902	1 876	1 787
40	1 218	1 409	1 590	1 753	1 890	1 992	2 052	2 061	2 011
45	1 218	1 425	1 626	1 813	1 976	2 109	2 203	2 250	2 242
50	-	1 430	1 654	1 866	2 060	2 226	2 357	2 444	2 479
55	_	_	1 672	1 913	2 139	2 340	2 510	2 640	2 722
60	_	-	-	1 952	2 212	2 452	2 664	2 839	2 970
65	_	_	-	-	2 279	2 559	2 815	3 038	3 220
		I		I	1	I Total			
Current consun	nption in A								
30	2.96	3.10	3.25	3.38	3.48	3.54	3.54	3.46	3.30
35	2.98	3.14	3.30	3.45	3.58	3.67	3.70	3.67	3.56
40	3.00	3.17	3.35	3.52	3.68	3.81	3.89	3.90	3.85
45	3.00	3.18	3.39	3.59	3.79	3.95	4.08	4.15	4.15
50	-	3.19	3.42	3.66	3.89	4.11	4.29	4.41	4.48
55	-	-	3.44	3.72	4.00	4.26	4.50	4.69	4.83
60	-	-	-	3.78	4.10	4.42	4.72	4.98	5.19
65	-	-	-	-	4.21	4.59	4.95	5.28	5.57
	_								
Mass flow in kg		00	T 70	07	100	445	470	000	007
30	44	60	78	97	120	145	173	203	237
35	41	57	75	95	117	142	170	201	235
40	37	53	71	91	114	139	167	198	232
45	33	50	68	88	110	136	163	194	228
50	-	45	64	84	106	131	159	190	224
55	-	-	59	79	102	126	154	185	218
60	-	-	-	74	96	121	148	179	212
65	-	-	-	-	89	114	141	171	204
Coefficient of p	erformance (C.0	O.P.)	1				1	T	1
30	1.82	2.19	2.59	3.05	3.60	4.28	5.16	6.36	8.09
35	1.60	1.96	2.33	2.75	3.23	3.81	4.54	5.50	6.81
40	1.39	1.74	2.09	2.47	2.89	3.39	3.99	4.76	5.78
45	1.20	1.54	1.87	2.21	2.58	3.00	3.50	4.12	4.91
50	-	1.35	1.65	1.96	2.28	2.65	3.07	3.57	4.19
55	-	-	1.45	1.73	2.01	2.32	2.67	3.08	3.57
60	-	-	-	1.50	1.75	2.02	2.31	2.65	3.04
		1	1			1	1		1

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

recimial performance at to 7:2 0; to	04.4 0		
Cooling capacity	7 378	W	
Power input	2 552	W	
Current consumption	4.56	Α	
Mass flow	168	kg/h	
C.O.P.	2.89		

to: Evaporating temperature at dew point

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

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)

2.26

2.58

Sound power data

1.74

1.51

Sound power level	68	dB(A)	_
With accoustic hood	61	dB(A)	

Tolerance according EN12900

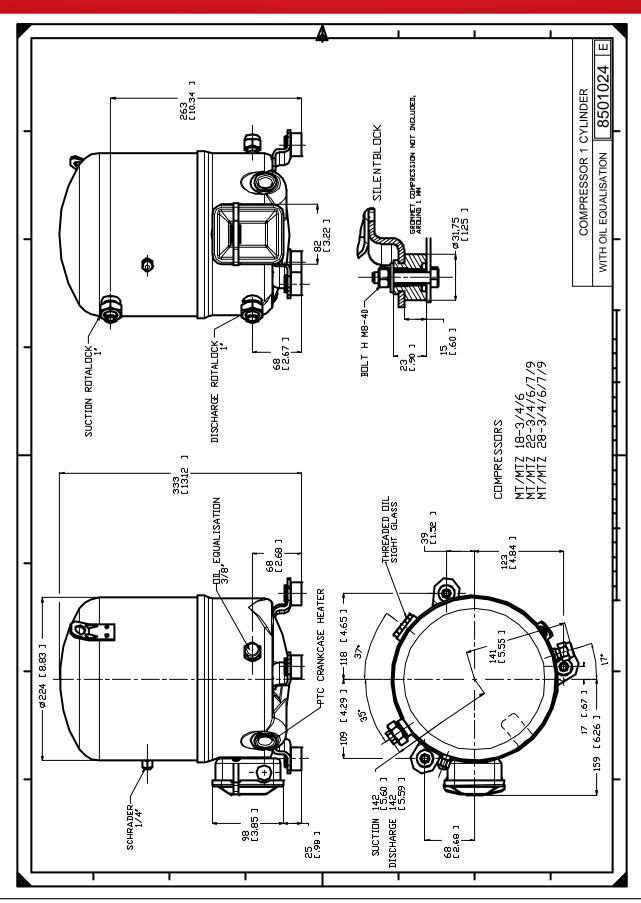
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65

tc: Condensing temperature at dew point





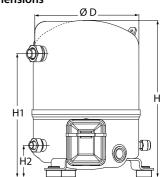


Datasheet, technical data

General Characteristics

Model number (on compressor nameplate)		MT28JE5PVE		
Code number for Singlepack*		MT28-5VI		
Code number for Industrial pack**		MT28-5VM		
Drawing number		8501021e		
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	1	1		
Swept volume	48.06 c	m3/rev		
Displacement @ Nominal speed	8.4 m3/h @	8.4 m3/h @ 2900 rpm		
Net weight	23	kg		
Oil charge	0.95 litre, Mi	neral - 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	Maximum number of starts per hour 12			
Refrigerant charge limit	2.5 kg			
Approved refrigerants	R22, R417A-160PZ			

Dimensions

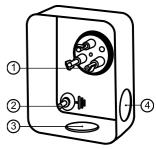


D=224 mm H=333 mm H1=263 mm H2=68 mm H3=- mm

Electrical Characteristics

Electrical Characteristics	
Nominal voltage	220-240V/1/50Hz
Voltage range	220-240 V
Winding resistance (main / start) at 25°C	1.07 Ω / 3.26 Ω
Run capacitors A + C	20 μF + 10 μF
Start capacitor B	100 μF
Start relay	RVA-6AMKL
Maximum Continuous Current (MCC)	20 A
Locked Rotor Amps (LRA)	51 A
Motor protection	Internal overload protector

Terminal box



Recommended Installation torques

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

IP55 (with cable gland)

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

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, -, -

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

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





Maneurop reciprocating compressor. MT028-5

Performance data at 50 Hz, EN 12900 rating conditions

R22

35	Cond. temp. in	in Evaporating temperature in °C (to)								
30	°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
30	Cooling capacity	in W								
1807			2 783	3 657	4 661	5 808	7 107	8 571	10 210	12 036
40										11 497
45										10 927
So										10 325
55										9 691
Common C			1			1				9 027
Power input in W 30		-								8 332
Power input in W 30		-	-							7 606
30	<u> </u>	1	1	I		<u>'</u>	1	I	I	I
1 1 1 1 1 1 1 1 1 1	-		1 349	1 497	1 620	1 710	1 758	1 757	1 697	1 572
40										1 787
45										2 011
So										2 242
Section Sect										2 479
60		-								2 722
Current consumption in A Survent consumption in A 30 8.11 8.50 8.90 9.26 9.54 9.70 9.69 9.49 35 8.18 8.60 9.04 9.46 9.81 10.05 10.15 10.07 40 8.22 8.88 9.17 9.66 10.09 10.43 10.66 10.70 45 8.22 8.73 9.28 9.84 10.38 10.83 11.18 11.38 50 - 8.74 9.37 10.03 10.67 11.26 11.75 12.10 55 9.44 10.20 10.96 11.69 12.33 12.86 60 10.35 11.25 12.13 12.94 13.66 65 11.53 12.67 13.57 14.48 Mass flow in kg/h 30 44 60 78 98 120 146 174 204 33 41 57 75 95 118 143 171 202 40 37 54 72 92 115 140 168 199 45 34 50 68 88 111 136 164 195 50 - 46 64 84 10.70 132 160 191 55 59 79 102 127 155 186 60 59 79 102 127 155 186 60 74 96 121 149 180 Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 36 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 40 1.31 1.43 1.74 2.06 2.44 2.88 3.40 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 40 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33		-	-							2 970
Current consumption in A 30 8.11 8.50 8.90 9.26 9.54 9.70 9.69 9.49 35 8.18 8.60 9.04 9.46 9.81 10.05 10.15 10.07 40 8.22 8.68 9.17 9.65 10.09 10.43 10.65 10.70 45 8.22 8.73 9.28 9.84 10.38 10.83 11.18 11.38 50 - 8.74 9.37 10.03 10.67 11.26 11.75 12.10 55 9.44 10.20 10.96 11.69 12.33 12.86 60 10.35 11.25 12.13 12.94 13.66 65 11.53 12.57 13.57 14.48 Mass flow in kg/h 30 44 60 78 98 120 146 174 204 135 140 168 199 145 140 168 199 145 140 168 199 145 140 168 199 145 140 168 195 155 150 150 150 150 150 150 150 150 15		-	-	-						3 220
Section Sect	1		8 50	8 90	9.26	9 54	9.70	9.69	9.49	9.04
40			1			1	†			9.76
45										10.54
50 - 8.74 9.37 10.03 10.67 11.26 11.75 12.10 55 - - 9.44 10.20 10.96 11.69 12.33 12.86 60 - - - 10.35 11.25 12.13 12.94 13.66 65 - - - - 11.53 12.57 13.57 14.48 Mass flow in kg/h 30 44 60 78 98 120 146 174 204 35 41 57 75 95 118 143 171 202 40 37 54 72 92 115 140 168 199 45 34 50 68 88 111 136 164 195 50 - 46 64 84 107 132 160 191 55 - - - 59 <										11.38
55			1			1				12.28
60		-								13.23
Mass flow in kg/h - - - 11.53 12.57 13.57 14.48 30 44 60 78 98 120 146 174 204 35 41 57 75 95 118 143 171 202 40 37 54 72 92 115 140 168 199 45 34 50 68 88 111 136 164 195 50 - 46 64 84 107 132 160 191 55 - - 59 79 102 127 155 186 60 - - - 74 96 121 149 180 65 - - - 90 115 142 172 Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04		-								14.22
Mass flow in kg/h 30										15.26
35 41 57 75 95 118 143 171 202 40 37 54 72 92 115 140 168 199 45 34 50 68 88 111 136 164 195 50 - 46 64 84 107 132 160 191 55 - - 59 79 102 127 155 186 60 - - - 74 96 121 149 180 65 - - - 90 115 142 172 Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 3.59 4.28 5.19 4.0 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 4.5 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 5.0 - 3.28 3.86 5.0 - 3.86 5.0 - 3.28 3.86 3.33 -	Mass flow in kg/h	1								
40 37 54 72 92 115 140 168 199 45 34 50 68 88 111 136 164 195 50 - 46 64 84 107 132 160 191 55 - - 59 79 102 127 155 186 60 - - - 74 96 121 149 180 65 - - - - 90 115 142 172 Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 35 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	30	44	60	78	98	120	146	174	204	239
45 34 50 68 88 111 136 164 195 50 - 46 64 84 107 132 160 191 55 - - 59 79 102 127 155 186 60 - - - 74 96 121 149 180 65 - - - - 90 115 142 172 Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 35 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53	35	41	57	75	95	118	143	171	202	236
50 - 46 64 84 107 132 160 191 55 - - 59 79 102 127 155 186 60 - - - 74 96 121 149 180 65 - - - - 90 115 142 172 Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 35 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33				72		115	140	168	199	233
55 59 79 102 127 155 186 60 74 96 121 149 180 65 90 115 142 172 Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 35 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	45		50	68	88	111	136	164	195	230
60 - - - 74 96 121 149 180 65 - - - - 90 115 142 172 Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 35 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	50	-	46	64	84	107	132	160	191	225
65 - - - 90 115 142 172 Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 35 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	55	-	-	59	79		127	155	186	220
Coefficient of performance (C.O.P.) 30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 35 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	60	-	-	-	74	96	121	149	180	213
30 1.71 2.06 2.44 2.88 3.40 4.04 4.88 6.02 35 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	65	-	-	-	-	90	115	142	172	206
35 1.50 1.84 2.19 2.58 3.04 3.59 4.28 5.19 40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	Coefficient of pe	rformance (C.C	D.P.)							
40 1.30 1.63 1.96 2.31 2.71 3.18 3.75 4.48 45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	30	1.71	2.06	2.44	2.88	3.40	4.04	4.88	6.02	7.66
45 1.11 1.43 1.74 2.06 2.41 2.80 3.28 3.86 50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	35	1.50	1.84	2.19	2.58	3.04	3.59	4.28	5.19	6.43
50 - 1.25 1.53 1.82 2.12 2.46 2.85 3.33	40	1.30	1.63	1.96	2.31	2.71	3.18	3.75	4.48	5.43
	45	1.11	1.43	1.74	2.06	2.41	2.80	3.28	3.86	4.61
55 - 134 159 186 215 247 286	50	-	1.25	1.53	1.82	2.12	2.46	2.85	3.33	3.91
30 1.00 1.00 2.10 2.11 2.00	55	-	-	1.34	1.59	1.86	2.15	2.47	2.86	3.32

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

rtommar portormanoc acto o o, to		
Cooling capacity	6 727	W
Power input	2 357	W
Current consumption	11.75	Α
Mass flow	160	kg/h
C.O.P.	2.85	

to: Evaporating temperature at dew point

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)

2.44

2.07

2.81

2.36

2.13

1.81

Sound power data

1.85

1.58

Sound power level	68	dB(A)
With accoustic hood	61	dB(A)

Tolerance according EN12900

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1.38

1.61

1.37



60

tc: Condensing temperature at dew point

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



Maneurop reciprocating compressor. MT028-5

Performance data at 50 Hz, ARI rating conditions

R22

Cond. temp. in				Evapora	ating temperature i	n °C (to)			
°C (tc)	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacit	y in W	T	T	ı	1	T	1	1	,
30	2 155	2 953	3 877	4 939	6 149	7 520	9 062	10 788	12 709
35	1 926	2 706	3 607	4 639	5 814	7 144	8 640	10 314	12 178
40	1 694	2 453	3 326	4 325	5 461	6 747	8 193	9 811	11 614
45	1 460	2 193	3 035	3 997	5 091	6 328	7 721	9 280	11 016
50	-	1 927	2 734	3 656	4 703	5 889	7 224	8 719	10 387
55	-	-	2 424	3 301	4 299	5 428	6 702	8 130	9 726
60	1	-	-	2 933	3 877	4 947	6 156	7 514	9 032
65	1	-	-	-	3 439	4 446	5 586	6 869	8 308
Power input in \	N								
30	1 183	1 349	1 497	1 620	1 710	1 758	1 757	1 697	1 572
35	1 206	1 383	1 547	1 689	1 801	1 875	1 902	1 876	1 787
40	1 218	1 409	1 590	1 753	1 890	1 992	2 052	2 061	2 011
45	1 218	1 425	1 626	1 813	1 976	2 109	2 203	2 250	2 242
50	-	1 430	1 654	1 866	2 060	2 226	2 357	2 444	2 479
55	-	-	1 672	1 913	2 139	2 340	2 510	2 640	2 722
60	-	-	-	1 952	2 212	2 452	2 664	2 839	2 970
65	-	-	-	-	2 279	2 559	2 815	3 038	3 220
Current consun	nption in A								
30	8.11	8.50	8.90	9.26	9.54	9.70	9.69	9.49	9.04
35	8.18	8.60	9.04	9.46	9.81	10.05	10.15	10.07	9.76
40	8.22	8.68	9.17	9.65	10.09	10.43	10.65	10.70	10.54
45	8.22	8.73	9.28	9.84	10.38	10.83	11.18	11.38	11.38
50	-	8.74	9.37	10.03	10.67	11.26	11.75	12.10	12.28
55	-	-	9.44	10.20	10.96	11.69	12.33	12.86	13.23
60	-	-	-	10.35	11.25	12.13	12.94	13.66	14.22
65	-	-	-	-	11.53	12.57	13.57	14.48	15.26
		•		•	•		•		
Mass flow in kg	/h								
30	44	60	78	97	120	145	173	203	237
35	41	57	75	95	117	142	170	201	235
40	37	53	71	91	114	139	167	198	232
45	33	50	68	88	110	136	163	194	228
50	-	45	64	84	106	131	159	190	224
55	-	-	59	79	102	126	154	185	218
		+	·	·	+	·	.	+	

60

Occinicient of p	o.o, oonanance (o.o	,							
30	1.82	2.19	2.59	3.05	3.60	4.28	5.16	6.36	8.09
35	1.60	1.96	2.33	2.75	3.23	3.81	4.54	5.50	6.81
40	1.39	1.74	2.09	2.47	2.89	3.39	3.99	4.76	5.78
45	1.20	1.54	1.87	2.21	2.58	3.00	3.50	4.12	4.91
50	-	1.35	1.65	1.96	2.28	2.65	3.07	3.57	4.19
55	-	-	1.45	1.73	2.01	2.32	2.67	3.08	3.57
60	-	-	-	1.50	1.75	2.02	2.31	2.65	3.04
65	-	-	-	-	1.51	1.74	1.98	2.26	2.58

96

74

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

monimum portormanos at to	0,	U-1		
Cooling capacity		7 378	W	
Power input		2 552	W	
Current consumption		12.50	Α	
Mass flow		168	kg/h	
C.O.P.		2.89		

to: Evaporating temperature at dew point

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

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

121

148

179

171

212

Sound power level	68	dB(A)	_
With accoustic hood	61	dB(A)	

Tolerance according EN12900



tc: Condensing temperature at dew point



