



Type: Hermetic piston compressors
Producer: Maneurop
Series: MT

Model: MT73

Technical data

Cylinder count:	2
Displacement [m³/h]:	21,04
Cylinder capacity [cm³]:	120,9
RPM [min ⁻¹]:	2900
Weight [kg]:	41
Oil charge [dm³]:	2
Oil type:	160P
Crankcase heater type:	PTC 35 W
Maximum system test pressure low side / high side:	25 / 30
Maximum number of starts without softstart [1/h]:	12
Refrigerant charge limit [dm³]:	5
Refrigerant:	R22
Sound power [dB]:	79
Sound power with accoustic hood [dB]:	72

Connections

	<u>milimeters</u>	<u>inches</u>
Suction Rotolock valve connection:		1 3/4"
Discharge Rotolock valve connection:		1 1/4"
Suction connection with supplied sleeve:		7/8"
Discharge connection with supplied sleeve:		3/4"

Approvals

CCC	+
CE	+
UL	+

GACO SARL

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**R22****Cooling capacity [W]**

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	4 414	6 222	8 397	10 982	14 020	17 553	21 623	26 274	31 547
35	3 955	5 692	7 771	10 234	13 125	16 485	20 358	24 785	29 810
40	3 487	5 152	7 134	9 476	12 219	15 407	19 082	23 286	28 062
45	3 010	4 605	6 490	8 710	11 306	14 321	17 798	21 779	26 307
50	-	4 051	5 840	7 938	10 386	13 229	16 508	20 265	24 545
55	-	-	5 186	7 161	9 463	12 133	15 213	18 748	22 778
60	-	-	-	6 383	8 537	11 034	13 916	17 227	21 009
65	-	-	-	-	7 610	9 935	12 619	15 706	19 239

Power input [W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	2 559	2 941	3 276	3 568	3 821	4 040	4 227	4 388	4 526
35	2 614	3 056	3 445	3 787	4 084	4 342	4 564	4 754	4 916
40	2 634	3 143	3 596	3 995	4 345	4 650	4 914	5 141	5 336
45	2 613	3 199	3 722	4 186	4 597	4 957	5 272	5 544	5 779
50	-	3 215	3 817	4 355	4 834	5 258	5 630	5 956	6 239
55	-	-	3 874	4 494	5 050	5 545	5 984	6 371	6 711
60	-	-	-	4 598	5 238	5 813	6 327	6 783	7 187
65	-	-	-	-	5 393	6 055	6 651	7 185	7 661

Current [A]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	6.68	7.03	7.38	7.71	8.02	8.29	8.52	8.70	8.82
35	6.77	7.19	7.59	7.98	8.33	8.65	8.91	9.12	9.26
40	6.80	7.30	7.78	8.24	8.66	9.03	9.35	9.60	9.79
45	6.76	7.36	7.94	8.48	8.98	9.43	9.82	10.14	10.38
50	-	7.35	8.04	8.69	9.29	9.84	10.31	10.71	11.03
55	-	-	8.09	8.86	9.58	10.23	10.81	11.31	11.72
60	-	-	-	8.97	9.82	10.61	11.31	11.93	12.45
65	-	-	-	-	10.02	10.95	11.80	12.55	13.20

Mass flow [kg/s]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	96.04	133.78	178.13	229.84	289.64	358.29	436.52	525.08	624.71
35	89.49	127.17	171.25	222.47	281.57	349.29	426.40	513.62	611.70
40	82.33	119.93	163.72	214.44	272.82	339.62	415.59	501.45	597.97
45	74.50	112.02	155.51	205.71	263.37	329.23	404.04	488.54	583.48
50	-	103.39	146.56	196.24	253.16	318.07	391.72	474.85	568.19
55	-	-	136.85	185.99	242.16	306.11	378.58	460.32	552.06
60	-	-	-	174.90	230.32	293.29	364.58	444.91	535.05
65	-	-	-	-	217.59	279.58	349.67	428.59	517.10

C.O.P. [W/W]

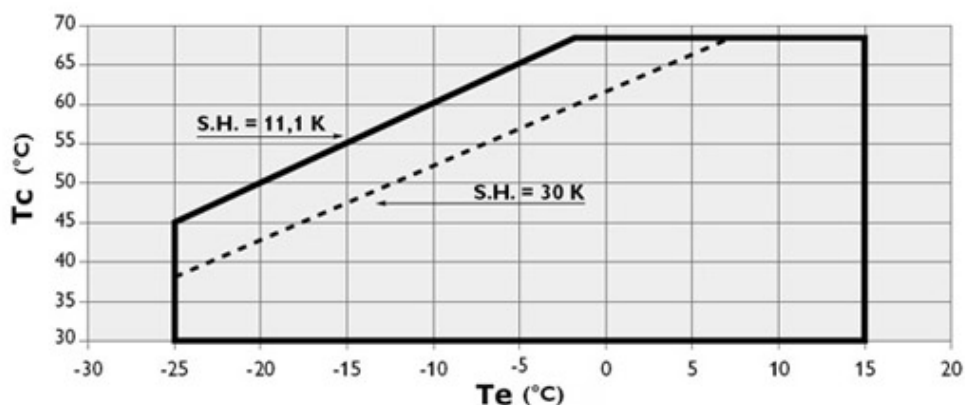
$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10	15
30	1.73	2.12	2.56	3.08	3.67	4.35	5.12	5.99	6.97
35	1.51	1.86	2.26	2.70	3.21	3.80	4.46	5.21	6.06
40	1.32	1.64	1.98	2.37	2.81	3.31	3.88	4.53	5.26
45	1.15	1.44	1.74	2.08	2.46	2.89	3.38	3.93	4.55
50	-	1.26	1.53	1.82	2.15	2.52	2.93	3.40	3.93
55	-	-	1.34	1.59	1.87	2.19	2.54	2.94	3.39
60	-	-	-	1.39	1.63	1.90	2.20	2.54	2.92
65	-	-	-	-	1.41	1.64	1.90	2.19	2.51

Operating conditions: suction superheat: 10 K, subcooling: 0 K

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range



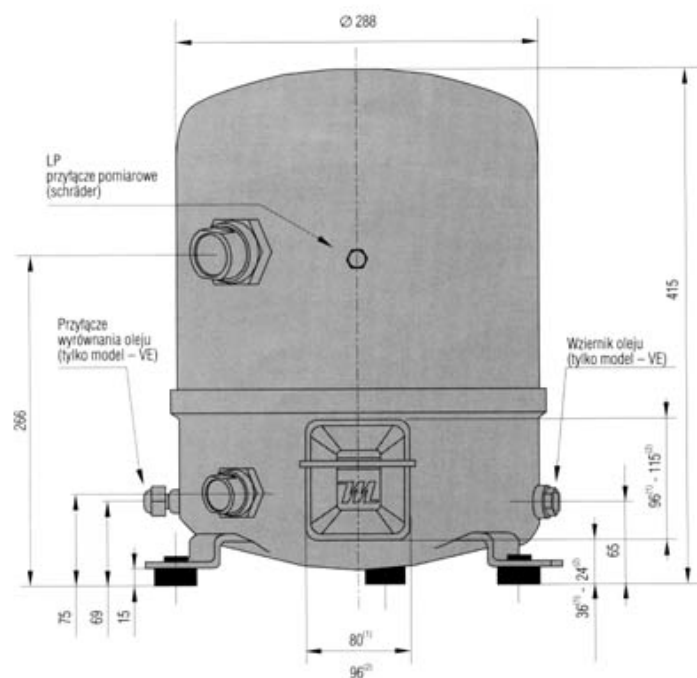
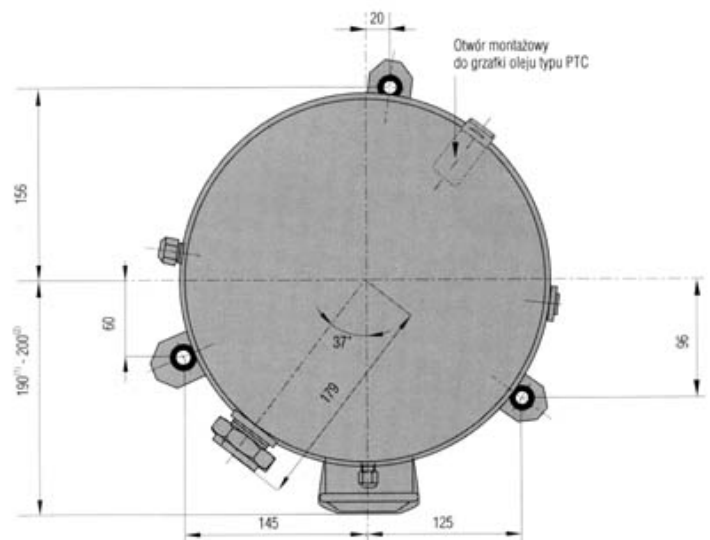
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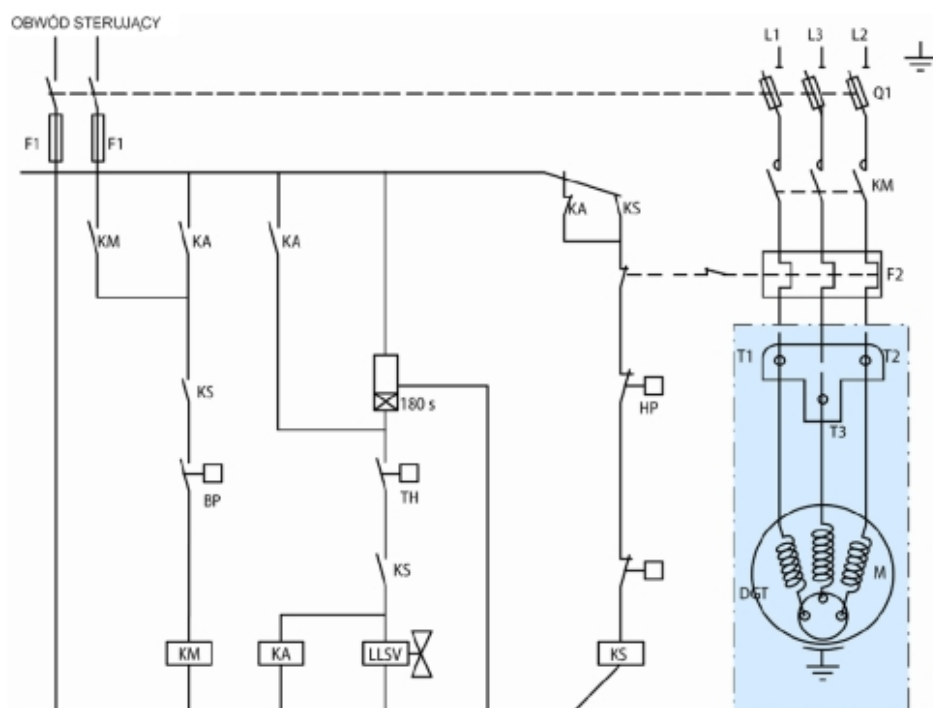
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Three-phase power supply

Electrical data

Motor voltage code:	3	4	6	7	9
Starting current [A]:	155	80			
Maximum Continuous	32	17			
Current (MCC) [A]:					
Winding resistance	0,48	1,9			
(between phases) [Ω]:					

Connection diagram for systems without refrigerant suction



TH: Thermostat

180 s: Optional short cycle timer (3min) 5 pts

KA: Control relay

LLSV: Liquid Solenoid valve

KM: Compressor contactor

KS: Safety lock out relay

BP: Low pressure switch

HP: High pressure switch

Q1: Fused disconnect

F1: Fuses

F2: External overload protection

M: Compressor's engine

thM: Motor safety thermostat

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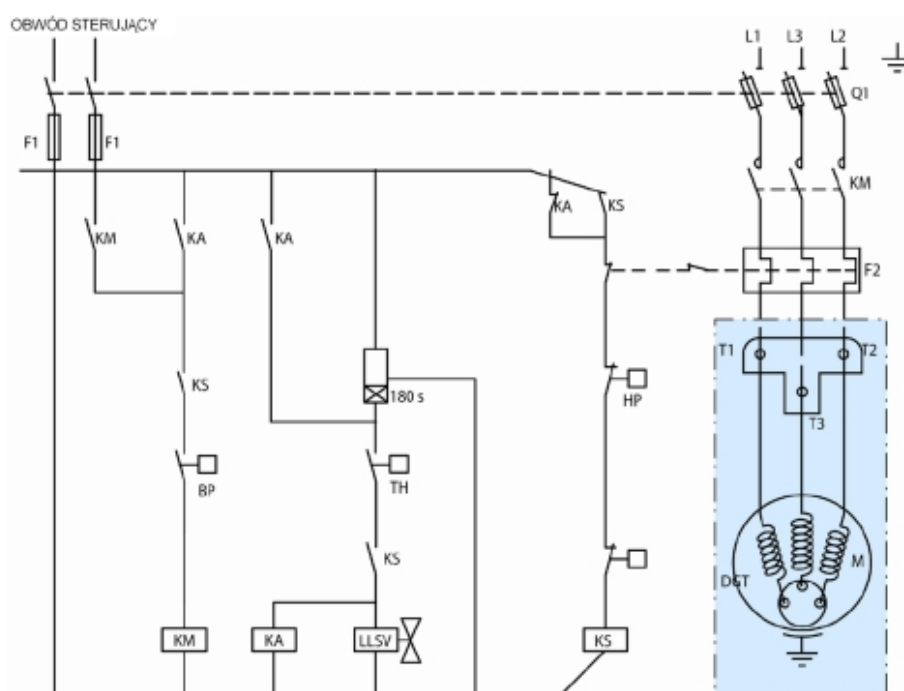
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DGT: Discharge gas thermostat

Connection diagram for systems with refrigerant suction

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Equipment

- ▶ crankcase heater - PTC 35 W
- ▶ belt type heater - crankcase heater 65W, 230V
- ▶ Rotolock valves
 - suction: Rotolock valve connection 1 3/4", connection with supplied sleeve 7/8"
 - discharge: Rotolock valve connection 1 1/4", connection with supplied sleeve 3/4"
- ▶ soft-start kit - electronic softstart MCI 15C
- ▶ acoustic hood - acoustic shield of Danfoss catalogue number 7755002