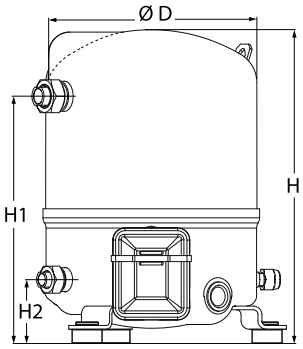
General Characteristics

Model number (on compressor nameplate)		**MT22JC5PVE**
Code number for Singlepack*		MT22-5VI
Code number for Industrial pack**		MT22-5VM
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	
Swept volume	38.12 cm3/rev	
Displacement @ Nominal speed	6.6 m3/h @ 2900 rpm	
Net weight	21 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, R417A-160PZ	

Dimensions

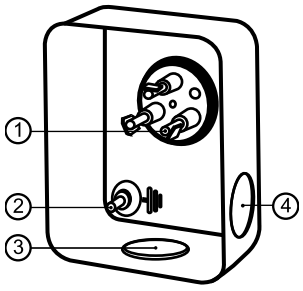


D=224 mm
H=333 mm
H1=263 mm
H2=68 mm
H3=- mm

Electrical Characteristics

Nominal voltage	220-240V/1/50Hz
Voltage range	220-240 V
Winding resistance (main / start) at 25°C	1.35 Ω / 3.83 Ω
Run capacitors A + C	20 µF + 10 µF
Start capacitor B	100 µF
Start relay	RVA-6AMKL
Maximum Continuous Current (MCC)	15 A
Locked Rotor Amps (LRA)	41 A
Motor protection	Internal overload protector

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")

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, -, CCC certified

*Singlepack: Compressor in cardboard box

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

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Performance data at 50 Hz, EN 12900 rating conditions

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity in W									
30	1 240	1 817	2 502	3 309	4 251	5 340	6 589	8 012	9 621
35	1 050	1 607	2 267	3 043	3 947	4 993	6 193	7 561	9 109
40	865	1 399	2 029	2 770	3 633	4 632	5 779	7 088	8 571
45	686	1 193	1 791	2 492	3 311	4 259	5 349	6 595	8 009
50	-	991	1 552	2 211	2 981	3 874	4 904	6 083	7 424
55	-	-	1 314	1 927	2 645	3 480	4 445	5 553	6 817
60	-	-	-	1 642	2 303	3 076	3 973	5 007	6 190
65	-	-	-	-	1 959	2 666	3 490	4 445	5 544
Power input in W									
30	707	860	1 004	1 132	1 238	1 317	1 361	1 365	1 323
35	739	898	1 051	1 190	1 309	1 403	1 464	1 488	1 467
40	760	928	1 090	1 242	1 376	1 486	1 566	1 610	1 612
45	769	947	1 121	1 286	1 436	1 564	1 664	1 731	1 757
50	-	954	1 141	1 322	1 489	1 636	1 758	1 848	1 900
55	-	-	1 150	1 347	1 533	1 701	1 846	1 961	2 041
60	-	-	-	1 360	1 566	1 757	1 927	2 068	2 176
65	-	-	-	-	1 589	1 803	1 998	2 168	2 306
Current consumption in A									
30	5.12	5.40	5.70	6.01	6.28	6.49	6.61	6.61	6.47
35	5.19	5.48	5.81	6.14	6.46	6.73	6.91	6.99	6.93
40	5.24	5.55	5.90	6.28	6.64	6.96	7.22	7.37	7.40
45	5.26	5.59	5.98	6.40	6.81	7.20	7.53	7.77	7.89
50	-	5.60	6.03	6.50	6.97	7.43	7.84	8.17	8.39
55	-	-	6.06	6.58	7.12	7.65	8.14	8.57	8.89
60	-	-	-	6.63	7.24	7.85	8.43	8.96	9.40
65	-	-	-	-	7.34	8.03	8.71	9.34	9.89
Mass flow in kg/h									
30	27	39	53	70	88	109	133	160	191
35	24	36	50	66	85	106	130	157	187
40	20	33	47	63	81	102	126	153	183
45	17	29	43	59	77	98	122	148	178
50	-	25	39	55	73	93	117	143	172
55	-	-	35	50	68	88	111	137	166
60	-	-	-	45	62	82	104	130	158
65	-	-	-	-	56	75	97	122	150
Coefficient of performance (C.O.P.)									
30	1.75	2.11	2.49	2.92	3.43	4.06	4.84	5.87	7.27
35	1.42	1.79	2.16	2.56	3.01	3.56	4.23	5.08	6.21
40	1.14	1.51	1.86	2.23	2.64	3.12	3.69	4.40	5.32
45	0.89	1.26	1.60	1.94	2.31	2.72	3.21	3.81	4.56
50	-	1.04	1.36	1.67	2.00	2.37	2.79	3.29	3.91
55	-	-	1.14	1.43	1.73	2.05	2.41	2.83	3.34
60	-	-	-	1.21	1.47	1.75	2.06	2.42	2.84
65	-	-	-	-	1.23	1.48	1.75	2.05	2.40

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

Cooling capacity	4 904	W
Power input	1 758	W
Current consumption	7.84	A
Mass flow	117	kg/h
C.O.P.	2.79	

to: Evaporating temperature at dew point

tc: Condensing temperature at dew point

Rating conditions : Superheat = 10 K , Subcooling = 0 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

Sound power level	71	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

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Performance data at 50 Hz, ARI rating conditions

R22

Cond. temp. in °C (tc)	Evaporating temperature in °C (to)								
	-25	-20	-15	-10	-5	0	5	10	15
Cooling capacity in W									
30	1 317	1 928	2 653	3 506	4 501	5 650	6 967	8 466	10 160
35	1 119	1 712	2 412	3 235	4 193	5 300	6 569	8 014	9 648
40	926	1 495	2 168	2 956	3 874	4 935	6 152	7 539	9 110
45	738	1 281	1 921	2 671	3 545	4 556	5 717	7 043	8 545
50	-	1 069	1 673	2 381	3 207	4 164	5 266	6 525	7 957
55	-	-	1 425	2 087	2 861	3 761	4 799	5 989	7 345
60	-	-	-	1 791	2 509	3 347	4 317	5 434	6 710
65	-	-	-	-	2 151	2 923	3 822	4 861	6 055
Power input in W									
30	707	860	1 004	1 132	1 238	1 317	1 361	1 365	1 323
35	739	898	1 051	1 190	1 309	1 403	1 464	1 488	1 467
40	760	928	1 090	1 242	1 376	1 486	1 566	1 610	1 612
45	769	947	1 121	1 286	1 436	1 564	1 664	1 731	1 757
50	-	954	1 141	1 322	1 489	1 636	1 758	1 848	1 900
55	-	-	1 150	1 347	1 533	1 701	1 846	1 961	2 041
60	-	-	-	1 360	1 566	1 757	1 927	2 068	2 176
65	-	-	-	-	1 589	1 803	1 998	2 168	2 306
Current consumption in A									
30	5.12	5.40	5.70	6.01	6.28	6.49	6.61	6.61	6.47
35	5.19	5.48	5.81	6.14	6.46	6.73	6.91	6.99	6.93
40	5.24	5.55	5.90	6.28	6.64	6.96	7.22	7.37	7.40
45	5.26	5.59	5.98	6.40	6.81	7.20	7.53	7.77	7.89
50	-	5.60	6.03	6.50	6.97	7.43	7.84	8.17	8.39
55	-	-	6.06	6.58	7.12	7.65	8.14	8.57	8.89
60	-	-	-	6.63	7.24	7.85	8.43	8.96	9.40
65	-	-	-	-	7.34	8.03	8.71	9.34	9.89
Mass flow in kg/h									
30	27	39	53	69	88	109	132	159	189
35	24	36	50	66	84	105	129	156	186
40	20	32	46	63	81	102	125	152	182
45	17	29	43	59	77	98	121	148	177
50	-	25	39	55	72	93	116	142	171
55	-	-	35	50	68	88	110	136	165
60	-	-	-	45	62	82	104	129	157
65	-	-	-	-	56	75	97	121	149
Coefficient of performance (C.O.P.)									
30	1.86	2.24	2.64	3.10	3.63	4.29	5.12	6.20	7.68
35	1.51	1.90	2.30	2.72	3.20	3.78	4.49	5.39	6.58
40	1.22	1.61	1.99	2.38	2.82	3.32	3.93	4.68	5.65
45	0.96	1.35	1.71	2.08	2.47	2.91	3.43	4.07	4.86
50	-	1.12	1.47	1.80	2.15	2.54	2.99	3.53	4.19
55	-	-	1.24	1.55	1.87	2.21	2.60	3.05	3.60
60	-	-	-	1.32	1.60	1.90	2.24	2.63	3.08
65	-	-	-	-	1.35	1.62	1.91	2.24	2.63

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

Cooling capacity	5 363	W
Power input	1 889	W
Current consumption	8.30	A
Mass flow	122	kg/h
C.O.P.	2.84	

to: Evaporating temperature at dew point

tc: Condensing 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

Sound power level	71	dB(A)
With accoustic hood	0	dB(A)

Tolerance according EN12900

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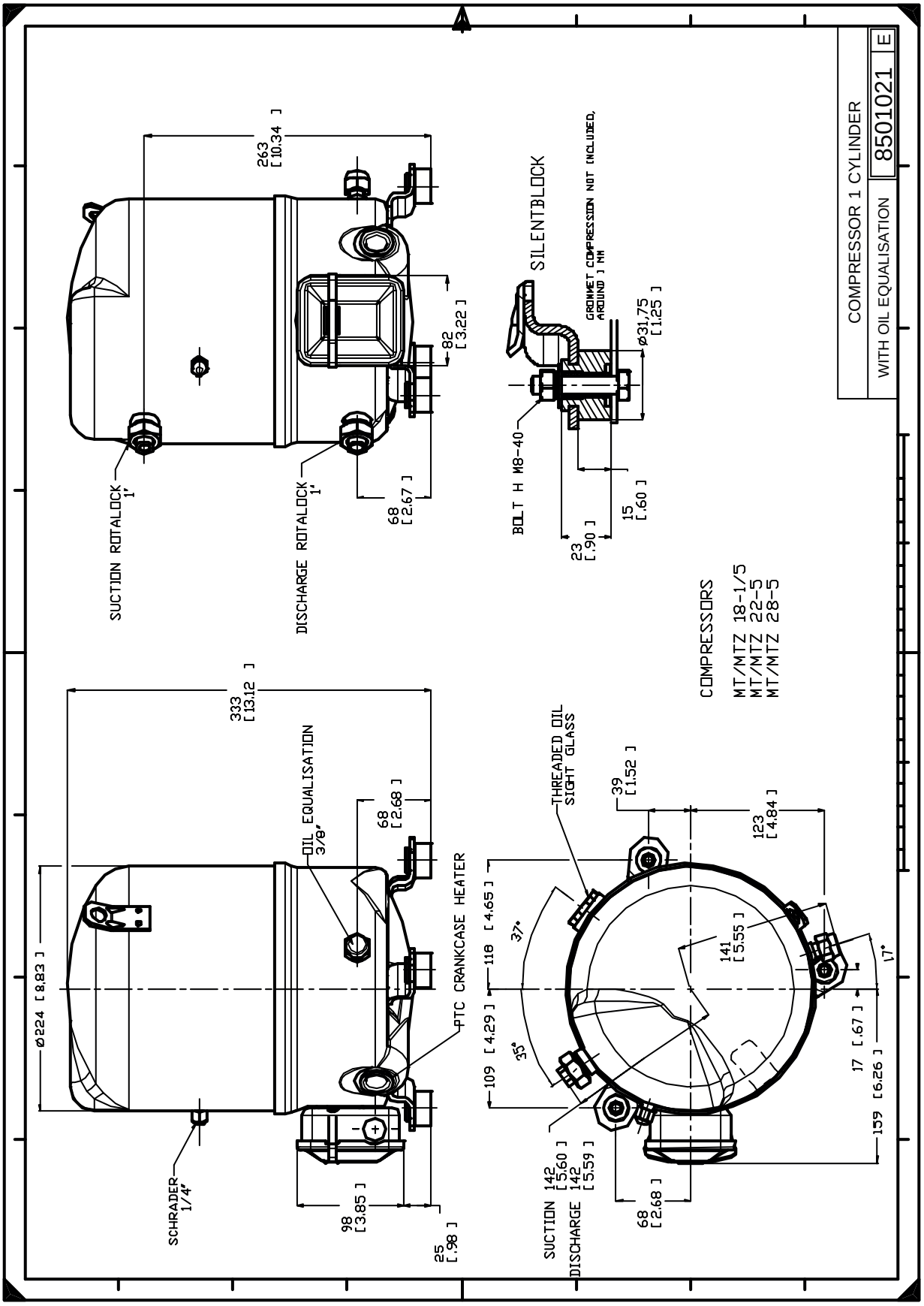

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