

Technical Data Sheet

Compressor model **MX18TE**
 Voltage **115V 60Hz ~1**
 Refrigerant **R404A**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	18,40 cm ³	Nominal Power	7/8 hp
Refrigerant	R404A	Diameter	34,93 mm	Voltage/Frequency	115V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	19,20 mm	Voltage range	98-127 V
Expansion	Capillar/Valve	Net Weight	17,20 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	500 cm ³	Locked Rotor Amps (LRA)	64,00 A
				Max. Cont. Current (MCC)	18,50 A
				Main W. resist. at 25°C	0,47 Ω
				Start W. resist. at 25°C	1,96 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	2.726 kCal/h	2.507 W
COP	2,00 W/W	1,62 W/W
EER	1,72 kCal/Wh	1,40 kCal/Wh
Input Power	1.585 W	1.547 W
Current	14,27 A	13,92 A

TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T _e)	7,2 °C	5,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C	55,0 °C
Ambient temp. (T _{amb.})	35,0 °C	32,0 °C
Suction temp. (T _{suction})	35,0 °C	32,0 °C
Voltage/Frequency	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	200 µF 160 V			
Run capacitor	80 µF 250 V			
Relay	Option 1			
Reference	RVA 7AA..			
Pick-Up	111-124 V			
Drop-Out	20-45 V			
Protector	Option 1			
Reference	T1097			
Current	54,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	150,00 / 52,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	906	825	7,52	1,28	1,10
40	-20	1.179	912	8,27	1,50	1,29
40	-15	1.498	998	9,02	1,74	1,50
40	-10	1.862	1.083	9,76	2,00	1,72
40	-5	2.271	1.166	10,50	2,26	1,95
40	0	2.726	1.249	11,23	2,54	2,18
40	5	3.225	1.329	11,95	2,82	2,43
40	7,2	3.460	1.365	12,27	2,95	2,54
40	10	3.770	1.409	12,67	3,11	2,68

45	-25	818	827	7,54	1,15	0,99
45	-20	1.067	925	8,39	1,34	1,15
45	-15	1.362	1.023	9,23	1,55	1,33
45	-10	1.701	1.118	10,08	1,77	1,52
45	-5	2.086	1.213	10,91	2,00	1,72
45	0	2.516	1.306	11,74	2,24	1,93
45	5	2.992	1.398	12,57	2,49	2,14
45	7,2	3.215	1.438	12,93	2,60	2,24
45	10	3.512	1.489	13,39	2,74	2,36

50	-25	731	829	7,55	1,02	0,88
50	-20	955	939	8,50	1,18	1,02
50	-15	1.225	1.047	9,45	1,36	1,17
50	-10	1.541	1.154	10,39	1,55	1,34
50	-5	1.901	1.259	11,33	1,76	1,51
50	0	2.307	1.364	12,26	1,97	1,69
50	5	2.758	1.467	13,19	2,19	1,88
50	7,2	2.971	1.512	13,60	2,29	1,97
50	10	3.254	1.568	14,12	2,41	2,07

55	-25	643	831	7,57	0,90	0,77
55	-20	843	952	8,61	1,03	0,89
55	-15	1.089	1.071	9,66	1,18	1,02
55	-10	1.380	1.189	10,70	1,35	1,16
55	-5	1.716	1.306	11,74	1,53	1,31
55	0	2.097	1.421	12,78	1,72	1,48
55	5	2.524	1.535	13,81	1,91	1,64
55	7,2	2.726	1.585	14,27	2,00	1,72
55	10	2.996	1.648	14,85	2,11	1,82

60	-25	555	833	7,59	0,78	0,67
60	-20	732	965	8,73	0,88	0,76
60	-15	953	1.095	9,87	1,01	0,87
60	-10	1.219	1.224	11,01	1,16	1,00
60	-5	1.531	1.352	12,16	1,32	1,13
60	0	1.888	1.479	13,30	1,49	1,28
60	5	2.290	1.604	14,44	1,66	1,43
60	7,2	2.482	1.659	14,95	1,74	1,50
60	10	2.738	1.728	15,58	1,84	1,58

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	948	830	7,56	1,14	0,99
40	-20	1.243	917	8,32	1,35	1,17
40	-15	1.581	1.004	9,07	1,57	1,36
40	-10	1.963	1.090	9,82	1,80	1,56
40	-5	2.390	1.174	10,57	2,04	1,76
40	0	2.860	1.257	11,31	2,27	1,97
40	5	3.374	1.339	12,04	2,52	2,18
40	7,2	3.614	1.375	12,36	2,63	2,27
40	10	3.931	1.420	12,77	2,77	2,39

45	-25	847	832	7,58	1,02	0,88
45	-20	1.110	931	8,43	1,19	1,03
45	-15	1.417	1.029	9,29	1,38	1,19
45	-10	1.768	1.125	10,14	1,57	1,36
45	-5	2.163	1.221	10,98	1,77	1,53
45	0	2.602	1.315	11,83	1,98	1,71
45	5	3.085	1.408	12,66	2,19	1,89
45	7,2	3.311	1.449	13,03	2,29	1,97
45	10	3.612	1.500	13,50	2,41	2,08

50	-25	746	834	7,59	0,89	0,77
50	-20	978	944	8,55	1,04	0,89
50	-15	1.253	1.053	9,50	1,19	1,03
50	-10	1.573	1.161	10,45	1,36	1,17
50	-5	1.937	1.268	11,40	1,53	1,32
50	0	2.345	1.373	12,35	1,71	1,48
50	5	2.796	1.478	13,29	1,89	1,64
50	7,2	3.009	1.523	13,70	1,98	1,71
50	10	3.292	1.581	14,23	2,08	1,80

55	-25	644	836	7,61	0,77	0,67
55	-20	845	957	8,66	0,88	0,76
55	-15	1.090	1.077	9,71	1,01	0,87
55	-10	1.378	1.196	10,77	1,15	1,00
55	-5	1.711	1.314	11,82	1,30	1,12
55	0	2.087	1.431	12,87	1,46	1,26
55	5	2.507	1.547	13,92	1,62	1,40
55	7,2	2.706	1.597	14,38	1,69	1,46
55	10	2.972	1.661	14,97	1,79	1,55

60	-25	543	838	7,63	0,65	0,56
60	-20	712	970	8,78	0,73	0,63
60	-15	926	1.102	9,93	0,84	0,73
60	-10	1.183	1.232	11,08	0,96	0,83
60	-5	1.484	1.361	12,24	1,09	0,94
60	0	1.830	1.489	13,39	1,23	1,06
60	5	2.219	1.616	14,55	1,37	1,19
60	7,2	2.404	1.671	15,06	1,44	1,24
60	10	2.652	1.741	15,71	1,52	1,32

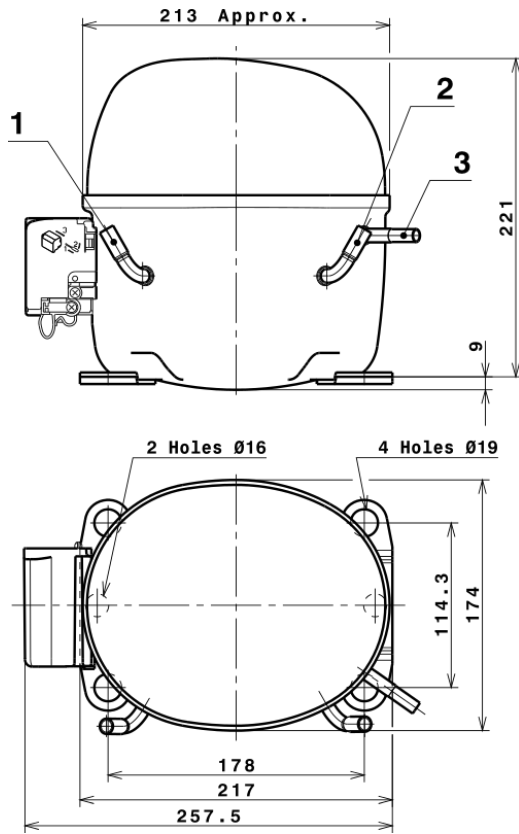
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	4,927,1246174207	816,0998521877	7,2396387511	95,214325908351
2	148,5137118744	-0,8824498336	-0,0102162849	3,3068629853397
3	-53,5833891800	11,9875323323	0,1096515643	-0,40577664694075
4	0,8309995577	-0,0082197046	0,0001475785	0,038577259208013
5	-1,3272942409	0,4630261629	0,0042438800	-0,0048645310986899

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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Technical Data Sheet

COMPRESSOR DIMENSIONS

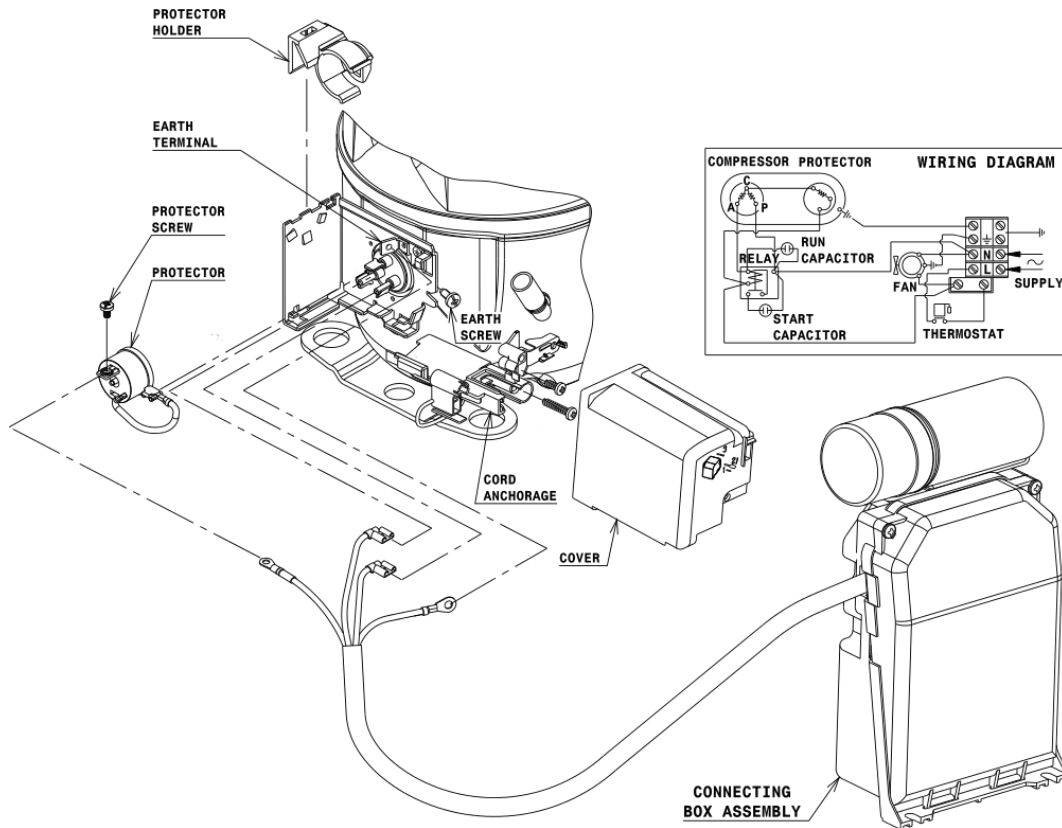


DESIGNATION INTERNAL DIAM.

DESIGNATION	INTERNAL DIAM.
1 Service	9,7 mm
2 Suction	9,7 mm
3 Discharge	6,5 mm

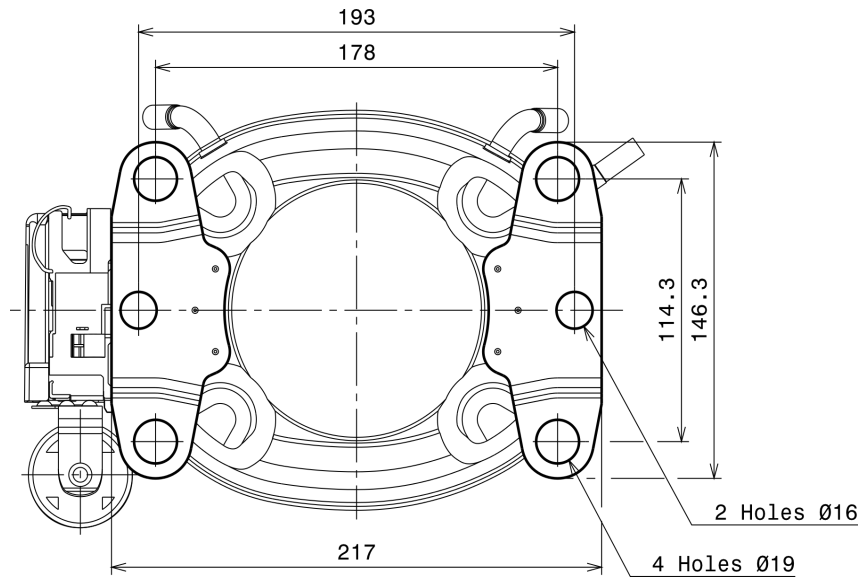
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (EXTERNAL CONNECTING BOX) (MX16/18TE)



Technical Data Sheet

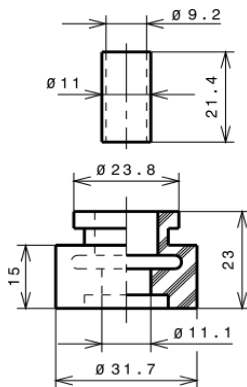
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 19$ holes (178x114.3 net)



SOA

SOA R404A HMBP

