Technical Data Sheet

Compressor model **MLY60RDb**

Voltage **115V 60Hz ~1**

Refrigerant **R404A**

APPLICATION		COMPRESSOR		MOTOR	
Application	High-Medium Back Pressure	Displacement	5,98 cm³	Nominal Power	1/4 hp
Refrigerant	R404A	Diameter	20,88 mm	Voltage/Frequency	115V 60Hz
Evaporating Temp.	-25,0 ºC to 10,0 ºC	Stroke	17,47 mm	Voltage range	98-132 V
Expansion	Capillar/Valve	Net Weight	10,65 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 ºC	Oil charge	350 cm³	Locked Rotor Amps (LRA)	29,00 A
				Max. Cont. Current (MCC)	8,00 A
				Main W. resist. at 25ºC	1,47 Ω
				Start W. resist. at 25ºC	7,23 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	975 kCal/h	900 W
COP	2,27 W/W	1,83 W/W
EER	1,95 kCal/Wh	1,58 kCal/Wh
Input Power	500 W	491 W
Current	4,85 A	4,76 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	HMBP (D)	**HMBP (C)**
Evaporating temp. (T_e)	7,2 ºC	5,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	46,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	35,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	35,0 ºC	32,0 ºC
Voltage/Frequency	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	200 µF 160 V			
Run capacitor	15 µF 250 V			
Relay	Option 1			
Reference	2014 170. + NTC3Ω			
Pick-Up	12,20 A			
Drop-Out	10,20 A			
Protector	Option 1	Option 2		
Reference	MRA38128	T0535		
Current	17,00 A	17,00 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 52,00 ºC	105,00 / 52,00 ºC		

Technical Data Sheet

cubigel compressors

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	318	275	2,95	1,34	1,15
40	-20	408	305	3,17	1,56	1,34
40	-15	513	333	3,38	1,79	1,54
40	-10	633	359	3,59	2,05	1,77
40	-5	769	382	3,79	2,34	2,01
40	0	919	404	3,97	2,64	2,27
40	5	1.085	424	4,15	2,97	2,56
40	7,2	1.163	433	4,22	3,13	2,69
40	10	1.266	442	4,31	3,33	2,86
45	-25	295	275	2,95	1,25	1,07
45	-20	379	308	3,20	1,43	1,23
45	-15	478	340	3,44	1,64	1,41
45	-10	592	369	3,67	1,87	1,60
45	-5	721	396	3,90	2,12	1,82
45	0	866	422	4,13	2,39	2,05
45	5	1.025	445	4,34	2,68	2,30
45	7,2	1.100	455	4,42	2,81	2,42
45	10	1.200	467	4,53	2,99	2,57
50	-25	273	275	2,95	1,15	0,99
50	-20	350	312	3,22	1,31	1,12
50	-15	443	347	3,49	1,49	1,28
50	-10	551	380	3,76	1,69	1,45
50	-5	674	410	4,03	1,91	1,64
50	0	812	439	4,28	2,15	1,85
50	5	965	466	4,53	2,41	2,07
50	7,2	1.038	478	4,63	2,53	2,17
50	10	1.134	491	4,77	2,68	2,31
55	-25	250	275	2,95	1,06	0,91
55	-20	322	315	3,25	1,19	1,02
55	-15	408	354	3,55	1,34	1,15
55	-10	510	390	3,85	1,52	1,31
55	-5	627	424	4,15	1,72	1,48
55	0	759	457	4,44	1,93	1,66
55	5	906	487	4,73	2,16	1,86
55	7,2	975	500	4,85	2,27	1,95
55	10	1.068	516	5,00	2,41	2,07
60	-25	228	275	2,95	0,96	0,83
60	-20	293	319	3,28	1,07	0,92
60	-15	373	361	3,61	1,20	1,04
60	-10	469	400	3,94	1,36	1,17
60	-5	579	438	4,27	1,54	1,32
60	0	705	474	4,60	1,73	1,49
60	5	846	508	4,93	1,94	1,66
60	7,2	913	523	5,07	2,03	1,75
60	10	1.002	540	5,25	2,16	1,85

CECOMAF

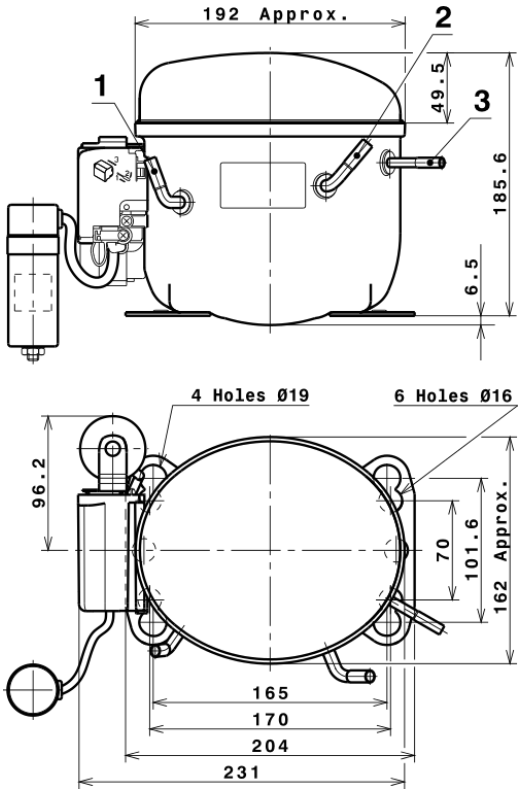
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	333	277	2,96	1,20	1,04
40	-20	430	307	3,18	1,40	1,21
40	-15	542	335	3,40	1,62	1,40
40	-10	669	361	3,61	1,85	1,60
40	-5	810	385	3,81	2,10	1,82
40	0	966	407	4,00	2,37	2,05
40	5	1.136	427	4,18	2,66	2,30
40	7,2	1.215	436	4,25	2,79	2,41
40	10	1.321	446	4,34	2,96	2,56
45	-25	305	277	2,96	1,10	0,95
45	-20	394	310	3,21	1,27	1,10
45	-15	498	342	3,45	1,46	1,26
45	-10	616	371	3,69	1,66	1,43
45	-5	748	399	3,93	1,87	1,62
45	0	895	425	4,15	2,11	1,82
45	5	1.057	449	4,37	2,36	2,04
45	7,2	1.133	458	4,46	2,47	2,13
45	10	1.233	471	4,57	2,62	2,27
50	-25	278	277	2,96	1,01	0,87
50	-20	358	314	3,24	1,14	0,99
50	-15	453	349	3,51	1,30	1,12
50	-10	562	382	3,78	1,47	1,27
50	-5	687	413	4,05	1,66	1,44
50	0	825	442	4,31	1,87	1,61
50	5	978	470	4,56	2,08	1,80
50	7,2	1.050	481	4,67	2,18	1,89
50	10	1.146	495	4,80	2,31	2,00
55	-25	250	277	2,96	0,91	0,78
55	-20	322	317	3,26	1,02	0,88
55	-15	408	356	3,57	1,15	0,99
55	-10	509	392	3,87	1,30	1,12
55	-5	625	427	4,17	1,46	1,26
55	0	755	460	4,47	1,64	1,42
55	5	900	491	4,76	1,83	1,58
55	7,2	968	504	4,89	1,92	1,66
55	10	1.059	520	5,04	2,04	1,76
60	-25	223	277	2,96	0,81	0,70
60	-20	286	321	3,29	0,89	0,77
60	-15	364	363	3,62	1,00	0,87
60	-10	456	403	3,96	1,13	0,98
60	-5	563	441	4,30	1,28	1,10
60	0	685	478	4,64	1,43	1,24
60	5	821	512	4,97	1,60	1,39
60	7,2	885	527	5,11	1,68	1,45
60	10	972	544	5,29	1,78	1,54

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.537,8823802195	273,9350141322	2,6588994641	26,91802712746
2	46,5154894222	-1,2431363040	-0,0138165552	0,97994935980501
3	-14,9394338297	3,6414597949	0,0352610185	-0,010146409961399
4	0,2763242928	-0,0349553878	0,0000075080	0,01301505165882
5	-0,3721909281	0,1456583918	0,0014104407	0,0013245449924937

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$

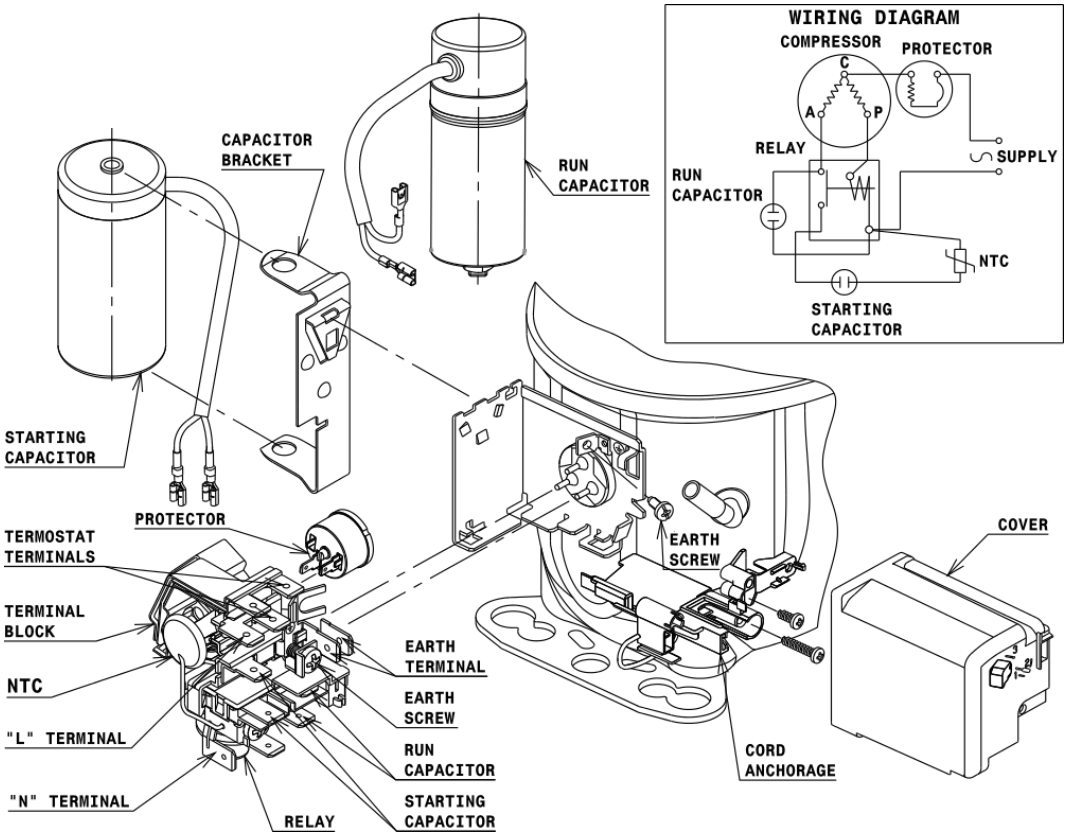
COMPRESSOR DIMENSIONS



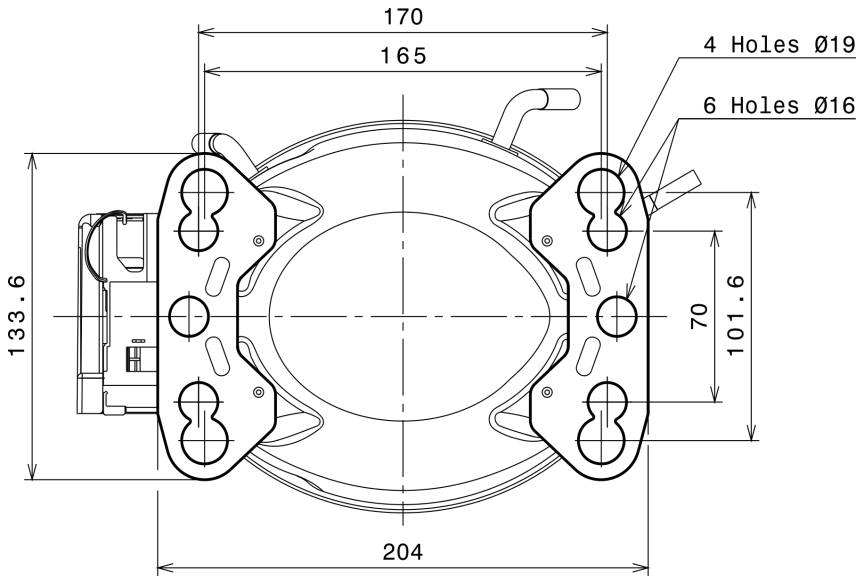
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (L, P ranges)



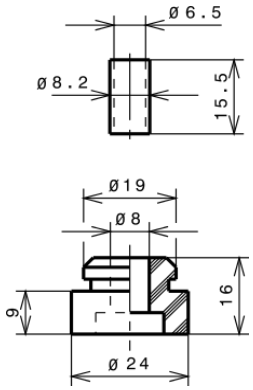
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

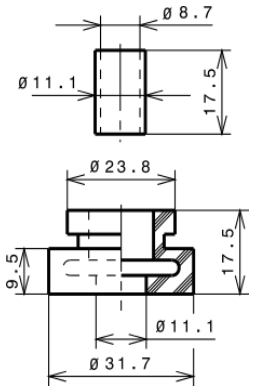
STANDARD

Ø16 holes (170x70 net)



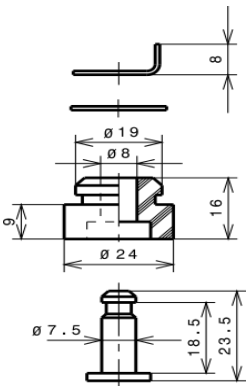
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R404A HMBP