Technical Data Sheet

Compressor model **MLY60RDa**

Voltage **115V 60Hz ~1**

Refrigerant **R404A**

APPLICATION

Application	High-Medium Back Pressure
Refrigerant	R404A
Evaporating Temp.	-25,0 ºC to 10,0 ºC
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 ºC

COMPRESSOR

Displacement	5,98 cm³
Diameter	20,88 mm
Stroke	17,47 mm
Net Weight	10,55 Kg
Oil type	ISO VG 32 ESTER
Oil charge	350 cm³

MOTOR

Nominal Power	1/4 hp
Voltage/Frequency	115V 60Hz
Voltage range	98-132 V
Type	CSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	29,00 A
Max. Cont. Current (MCC)	8,00 A
Main W. resist. at 25ºC	1,46 Ω
Start W. resist. at 25ºC	7,21 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	975 kCal/h	900 W
COP	2,10 W/W	1,70 W/W
EER	1,81 kCal/Wh	1,47 kCal/Wh
Input Power	540 W	528 W
Current	5,85 A	5,74 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			
Relay	Option 1			
Reference	2014 170.			
Pick-Up	12,10 A			
Drop-Out	10,30 A			
Protector	Option 1	Option 2		
Reference	MRA38152	T0260		
Current	27,50 A	22,00 A		
Time check	2,8-5,2 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	278	3,70	1,33	1,14
40	-20	408	308	3,91	1,54	1,33
40	-15	513	336	4,12	1,77	1,53
40	-10	633	364	4,33	2,02	1,74
40	-5	769	391	4,54	2,29	1,97
40	0	919	416	4,75	2,57	2,21
40	5	1.085	440	4,95	2,87	2,47
40	7,2	1.163	450	5,04	3,00	2,58
40	10	1.266	463	5,15	3,18	2,74
45	-25	295	280	3,72	1,23	1,05
45	-20	379	314	3,96	1,40	1,21
45	-15	478	347	4,21	1,60	1,38
45	-10	592	379	4,45	1,82	1,56
45	-5	721	410	4,70	2,05	1,76
45	0	866	440	4,95	2,29	1,97
45	5	1.025	468	5,19	2,55	2,19
45	7,2	1.100	480	5,30	2,67	2,29
45	10	1.200	495	5,43	2,82	2,42
50	-25	273	283	3,73	1,12	0,96
50	-20	350	321	4,01	1,27	1,09
50	-15	443	358	4,29	1,44	1,24
50	-10	551	395	4,58	1,62	1,40
50	-5	674	430	4,86	1,82	1,57
50	0	812	463	5,15	2,04	1,75
50	5	965	496	5,44	2,26	1,95
50	7,2	1.038	510	5,57	2,37	2,03
50	10	1.134	527	5,73	2,50	2,15
55	-25	250	285	3,75	1,02	0,88
55	-20	322	328	4,06	1,14	0,98
55	-15	408	370	4,38	1,28	1,10
55	-10	510	410	4,70	1,45	1,24
55	-5	627	449	5,03	1,62	1,40
55	0	759	487	5,36	1,81	1,56
55	5	906	524	5,70	2,01	1,73
55	7,2	975	540	5,85	2,10	1,81
55	10	1.068	560	6,04	2,22	1,91
60	-25	228	288	3,77	0,92	0,79
60	-20	293	335	4,11	1,02	0,88
60	-15	373	381	4,46	1,14	0,98
60	-10	469	425	4,83	1,28	1,10
60	-5	579	469	5,20	1,44	1,24
60	0	705	511	5,58	1,60	1,38
60	5	846	552	5,97	1,78	1,53
60	7,2	913	570	6,14	1,86	1,60
60	10	1.002	592	6,36	1,97	1,69

CECOMAF

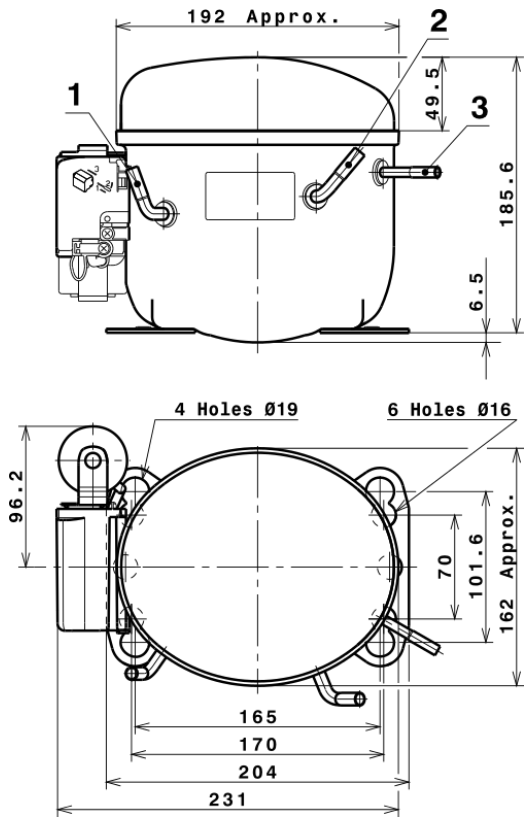
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	333	279	3,71	1,19	1,03
40	-20	430	309	3,92	1,39	1,20
40	-15	542	338	4,14	1,60	1,38
40	-10	669	366	4,35	1,83	1,58
40	-5	810	393	4,56	2,06	1,78
40	0	966	419	4,77	2,31	1,99
40	5	1.136	443	4,98	2,56	2,21
40	7,2	1.215	453	5,07	2,68	2,32
40	10	1.321	466	5,18	2,83	2,45
45	-25	305	282	3,73	1,08	0,94
45	-20	394	316	3,97	1,25	1,08
45	-15	498	349	4,22	1,42	1,23
45	-10	616	382	4,47	1,61	1,39
45	-5	748	413	4,72	1,81	1,57
45	0	895	443	4,97	2,02	1,75
45	5	1.057	471	5,22	2,24	1,94
45	7,2	1.133	484	5,33	2,34	2,02
45	10	1.233	499	5,47	2,47	2,14
50	-25	278	284	3,74	0,98	0,85
50	-20	358	323	4,02	1,11	0,96
50	-15	453	361	4,31	1,26	1,09
50	-10	562	397	4,60	1,42	1,22
50	-5	687	433	4,89	1,59	1,37
50	0	825	467	5,18	1,77	1,53
50	5	978	500	5,48	1,96	1,69
50	7,2	1.050	514	5,61	2,04	1,77
50	10	1.146	532	5,77	2,16	1,86
55	-25	250	287	3,76	0,87	0,75
55	-20	322	330	4,07	0,98	0,84
55	-15	408	372	4,39	1,10	0,95
55	-10	509	413	4,72	1,23	1,07
55	-5	625	452	5,06	1,38	1,19
55	0	755	491	5,39	1,54	1,33
55	5	900	528	5,74	1,70	1,47
55	7,2	968	544	5,89	1,78	1,54
55	10	1.059	564	6,08	1,88	1,62
60	-25	223	289	3,78	0,77	0,67
60	-20	286	337	4,12	0,85	0,73
60	-15	364	383	4,48	0,95	0,82
60	-10	456	428	4,85	1,07	0,92
60	-5	563	472	5,23	1,19	1,03
60	0	685	515	5,61	1,33	1,15
60	5	821	556	6,01	1,48	1,27
60	7,2	885	574	6,18	1,54	1,33
60	10	972	597	6,41	1,63	1,41

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.537,8823802195	232,5472130195	2,9753381061	26,91802712746
2	46,5154894222	-1,7657790965	-0,0206786155	0,97994935980501
3	-14,9394338297	4,9704009795	0,0464456037	-0,010146409961399
4	0,2763242928	-0,0184720960	0,0001882539	0,01301505165882
5	-0,3721909281	0,1782221261	0,0017127051	0,0013245449924937

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

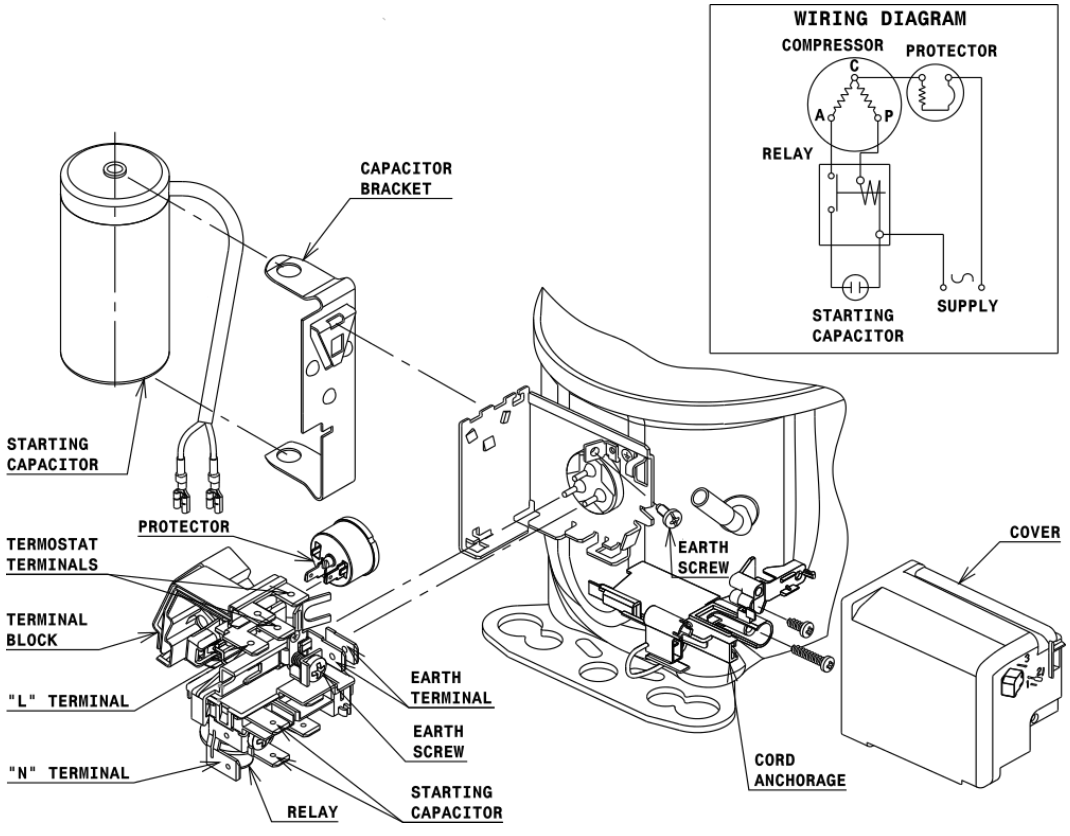
COMPRESSOR DIMENSIONS



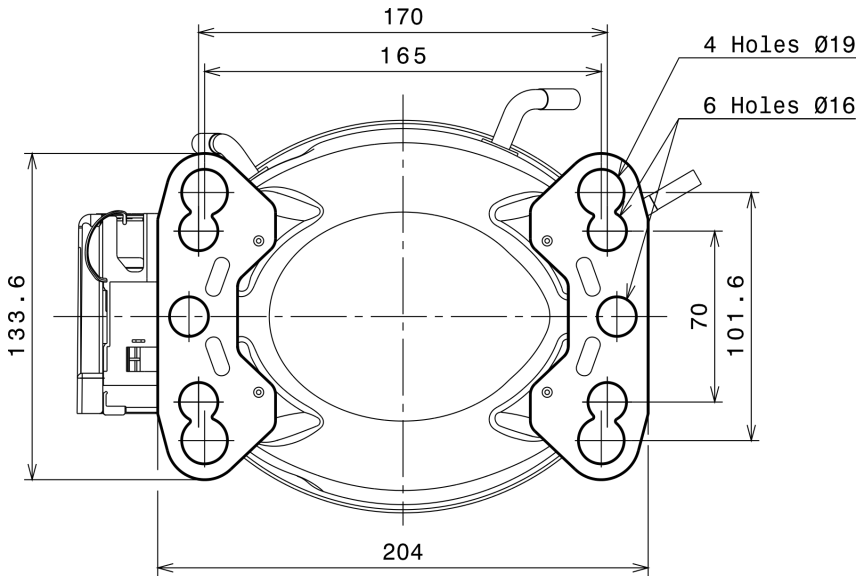
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



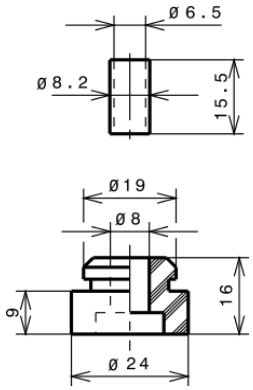
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

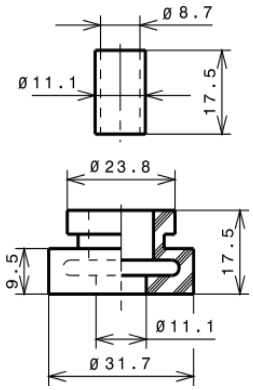
STANDARD

Ø16 holes (170x70 net)



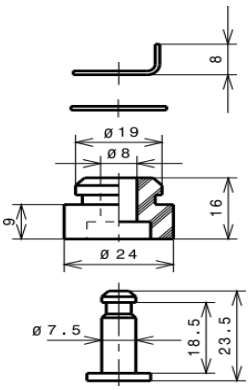
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R404A HMBP