Technical Data Sheet

Compressor model **MLY60LDa**

Voltage **115V 60Hz ~1**

Refrigerant **R404A**

APPLICATION		COMPRESSOR		MOTOR	
Application	Low Back Pressure	Displacement	5,98 cm³	Nominal Power	1/5 hp
Refrigerant	R404A	Diameter	20,88 mm	Voltage/Frequency	115V 60Hz
Evaporating Temp.	-40,0 ºC to -10,0 ºC	Stroke	17,47 mm	Voltage range	98-132 V
Expansion	Capillar/Valve	Net Weight	10,40 Kg	Type	CSIR
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)	23,00 A
				Max. Cont. Current (MCC)	7,00 A
				Main W. resist. at 25ºC	1,78 Ω
				Start W. resist. at 25ºC	5,20 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	328 kCal/h	259 W
COP	1,25 W/W	0,89 W/W
EER	1,08 kCal/Wh	0,77 kCal/Wh
Input Power	305 W	292 W
Current	3,60 A	3,50 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	LBP (B)	**LBP (A)**
Evaporating temp. (T_e)	-23,3 ºC	-25,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	32,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	32,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	32,0 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 166.			
Pick-Up	11,00 A			
Drop-Out	9,35 A			
Protector	Option 1	Option 2		
Reference	MRA38134	T0348		
Current	15,80 A	15,40 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	-40	154	192	2,87	0,94	0,80
40	-35	211	221	3,04	1,11	0,95
40	-30	279	250	3,22	1,29	1,11
40	-25	358	281	3,43	1,48	1,27
40	-23,3	387	292	3,50	1,54	1,33
40	-20	449	313	3,66	1,67	1,43
40	-15	551	345	3,91	1,86	1,59
40	-10	664	379	4,19	2,04	1,75
45	-40	142	187	2,85	0,88	0,76
45	-35	196	219	3,03	1,04	0,90
45	-30	262	251	3,23	1,21	1,04
45	-25	339	285	3,45	1,38	1,19
45	-23,3	368	296	3,54	1,44	1,24
45	-20	427	319	3,70	1,56	1,34
45	-15	527	354	3,98	1,73	1,49
45	-10	638	390	4,29	1,90	1,64
50	-40	130	183	2,82	0,83	0,71
50	-35	182	217	3,02	0,98	0,84
50	-30	245	252	3,23	1,13	0,97
50	-25	320	288	3,48	1,29	1,11
50	-23,3	348	301	3,57	1,35	1,16
50	-20	406	325	3,75	1,45	1,25
50	-15	503	363	4,06	1,61	1,39
50	-10	612	402	4,39	1,77	1,52
55	-40	118	178	2,80	0,77	0,66
55	-35	168	215	3,00	0,91	0,78
55	-30	229	253	3,24	1,05	0,90
55	-25	301	292	3,50	1,20	1,03
55	-23,3	328	305	3,60	1,25	1,08
55	-20	385	331	3,80	1,35	1,16
55	-15	480	372	4,13	1,50	1,29
55	-10	586	413	4,50	1,65	1,42
60	-40	106	174	2,78	0,71	0,61
60	-35	153	213	2,99	0,84	0,72
60	-30	212	254	3,24	0,97	0,83
60	-25	282	295	3,53	1,11	0,95
60	-23,3	308	309	3,63	1,16	1,00
60	-20	363	337	3,85	1,25	1,08
60	-15	456	381	4,21	1,39	1,20
60	-10	560	425	4,61	1,53	1,32

CECOMAF

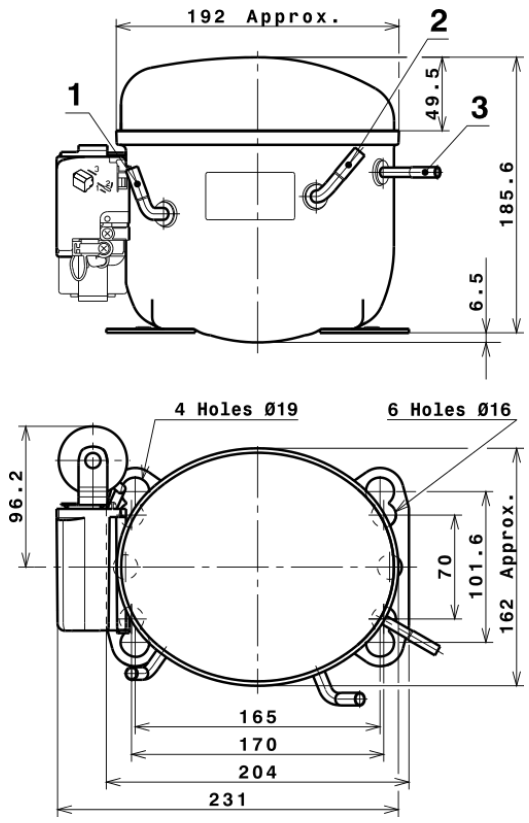
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	162	192	2,87	0,85	0,73
40	-35	229	221	3,04	1,04	0,90
40	-30	305	250	3,22	1,22	1,05
40	-25	390	281	3,43	1,39	1,20
40	-23,3	421	292	3,50	1,44	1,25
40	-20	485	313	3,66	1,55	1,34
40	-15	589	345	3,91	1,71	1,47
40	-10	703	379	4,19	1,86	1,60
45	-40	142	187	2,85	0,76	0,66
45	-35	201	219	3,03	0,92	0,79
45	-30	269	251	3,23	1,07	0,92
45	-25	346	285	3,45	1,22	1,05
45	-23,3	375	296	3,54	1,27	1,09
45	-20	433	319	3,70	1,36	1,17
45	-15	530	354	3,98	1,50	1,29
45	-10	636	390	4,29	1,63	1,41
50	-40	122	183	2,82	0,67	0,58
50	-35	173	217	3,02	0,80	0,69
50	-30	233	252	3,23	0,92	0,80
50	-25	303	288	3,48	1,05	0,91
50	-23,3	329	301	3,57	1,09	0,94
50	-20	382	325	3,75	1,17	1,02
50	-15	471	363	4,06	1,30	1,12
50	-10	569	402	4,39	1,42	1,22
55	-40	102	178	2,80	0,57	0,50
55	-35	145	215	3,00	0,67	0,58
55	-30	197	253	3,24	0,78	0,67
55	-25	259	292	3,50	0,89	0,77
55	-23,3	282	305	3,60	0,93	0,80
55	-20	330	331	3,80	1,00	0,86
55	-15	411	372	4,13	1,11	0,96
55	-10	501	413	4,50	1,21	1,05
60	-40	82	174	2,78	0,47	0,41
60	-35	117	213	2,99	0,55	0,47
60	-30	161	254	3,24	0,64	0,55
60	-25	215	295	3,53	0,73	0,63
60	-23,3	236	309	3,63	0,76	0,66
60	-20	279	337	3,85	0,83	0,71
60	-15	352	381	4,21	0,92	0,80
60	-10	434	425	4,61	1,02	0,88

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.604,2524954406	322,6598750221	3,7904481357	34,299277556113
2	39,3588931095	3,0448267491	0,0460265812	0,97139529658056
3	-16,9136146998	3,4556326532	0,0307858594	-0,18210426470819
4	0,1793347951	0,0197939249	0,0007136369	0,0072057451596379
5	-0,3228670144	0,1093889896	0,0008926356	-0,0028700377924251

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

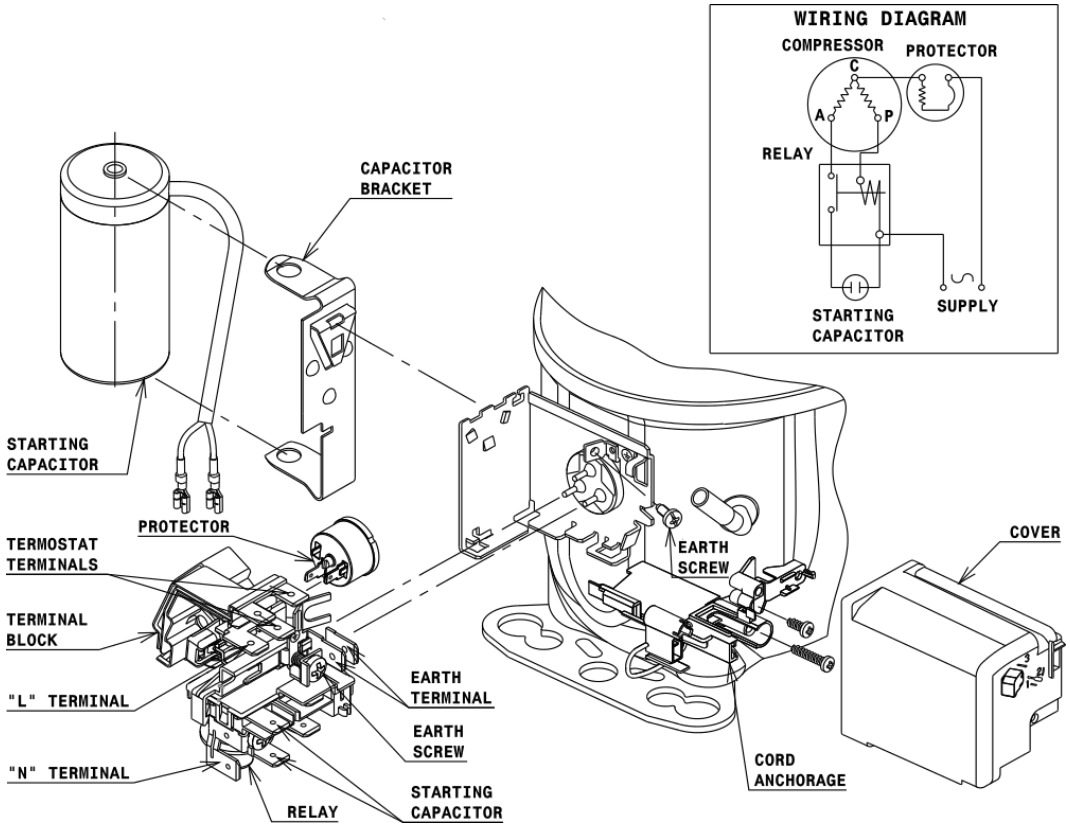
COMPRESSOR DIMENSIONS



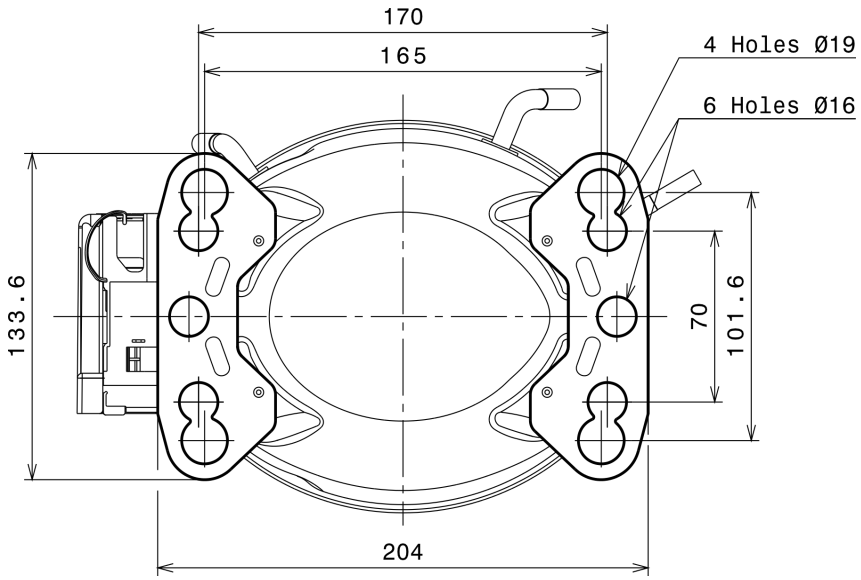
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



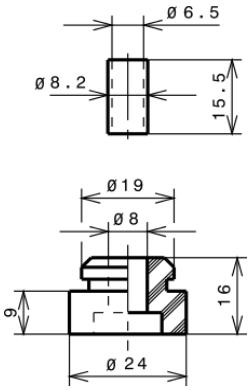
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

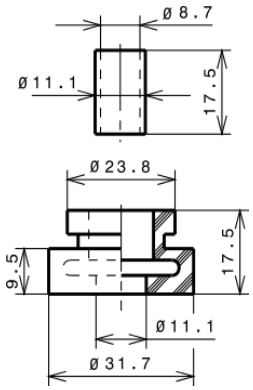
STANDARD

Ø16 holes (170x70 net)



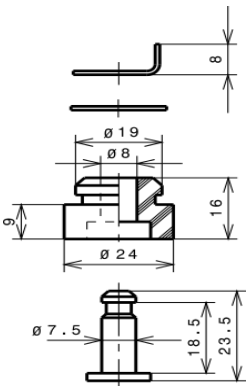
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R404A LBP