Technical Data Sheet

Compressor model **MLY60RAb**

Voltage **220-240V 50Hz ~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	10,59 Kg
Oil type	ISO VG 32 ESTER
Oil charge	300 cm³

MOTOR

Nominal Power	1/4 hp
Voltage/Frequency	220-240V 50Hz
Voltage range	187-264 V
Type	CSR
Phase number	1 PH
Locked Rotor Amps (LRA)	11,00 A
Max. Cont. Current (MCC)	5,60 A
Main W. resist. at 25ºC	7,50 Ω
Start W. resist. at 25ºC	15,85 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	825 kCal/h	761 W
COP	2,36 W/W	1,91 W/W
EER	2,03 kCal/Wh	1,65 kCal/Wh
Input Power	406 W	399 W
Current	2,05 A	2,02 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	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V			
Run capacitor	6 µF 400 V			
Relay	Option 1			
Reference	2014 135. + NTC15Ω			
Pick-Up	5,80 A			
Drop-Out	4,95 A			
Protector	Option 1	Option 2		
Reference	MRA38139	T0269		
Current	10,30 A	9,60 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	270	223	1,28	1,41	1,21
40	-20	347	247	1,37	1,63	1,40
40	-15	436	269	1,46	1,89	1,62
40	-10	539	290	1,54	2,16	1,86
40	-5	654	309	1,62	2,46	2,12
40	0	783	327	1,70	2,79	2,40
40	5	924	342	1,76	3,14	2,70
40	7,2	990	349	1,79	3,30	2,84
40	10	1.078	357	1,83	3,51	3,02
45	-25	250	224	1,28	1,30	1,12
45	-20	321	251	1,39	1,49	1,28
45	-15	406	276	1,49	1,71	1,47
45	-10	503	299	1,58	1,95	1,68
45	-5	613	321	1,67	2,22	1,91
45	0	735	341	1,76	2,50	2,15
45	5	871	360	1,84	2,81	2,42
45	7,2	935	368	1,88	2,96	2,54
45	10	1.020	377	1,92	3,14	2,70
50	-25	230	225	1,29	1,19	1,02
50	-20	296	254	1,40	1,35	1,16
50	-15	375	282	1,51	1,54	1,33
50	-10	466	309	1,62	1,76	1,51
50	-5	571	333	1,73	1,99	1,71
50	0	688	356	1,83	2,25	1,93
50	5	819	378	1,92	2,52	2,17
50	7,2	880	387	1,96	2,64	2,27
50	10	962	398	2,01	2,81	2,42
55	-25	210	226	1,29	1,08	0,93
55	-20	270	258	1,42	1,22	1,05
55	-15	344	289	1,54	1,38	1,19
55	-10	430	318	1,66	1,57	1,35
55	-5	529	346	1,78	1,78	1,53
55	0	641	371	1,89	2,01	1,73
55	5	766	396	2,00	2,25	1,94
55	7,2	825	406	2,05	2,36	2,03
55	10	904	419	2,11	2,51	2,16
60	-25	190	227	1,29	0,97	0,84
60	-20	245	262	1,43	1,09	0,94
60	-15	313	296	1,57	1,23	1,06
60	-10	394	327	1,70	1,40	1,20
60	-5	487	358	1,83	1,58	1,36
60	0	594	386	1,96	1,79	1,54
60	5	713	414	2,09	2,01	1,72
60	7,2	770	425	2,14	2,11	1,81
60	10	846	439	2,21	2,24	1,93

CECOMAF

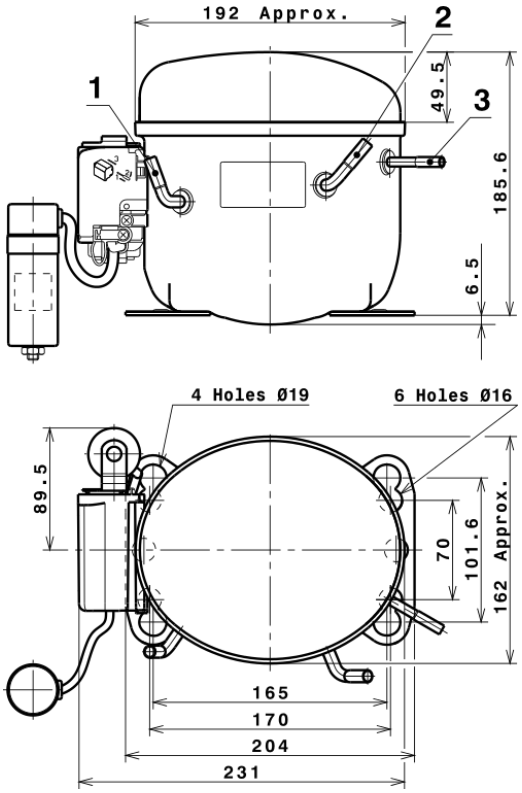
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	283	224	1,28	1,26	1,09
40	-20	366	248	1,38	1,47	1,27
40	-15	461	271	1,47	1,70	1,47
40	-10	569	292	1,55	1,95	1,69
40	-5	689	311	1,63	2,22	1,91
40	0	822	329	1,71	2,50	2,16
40	5	967	345	1,78	2,80	2,42
40	7,2	1.035	352	1,81	2,94	2,54
40	10	1.125	360	1,84	3,13	2,70
45	-25	259	225	1,29	1,15	0,99
45	-20	334	252	1,39	1,33	1,15
45	-15	422	277	1,49	1,52	1,31
45	-10	522	301	1,59	1,74	1,50
45	-5	635	323	1,68	1,97	1,70
45	0	761	344	1,77	2,21	1,91
45	5	898	363	1,85	2,48	2,14
45	7,2	963	371	1,89	2,60	2,24
45	10	1.049	380	1,93	2,76	2,38
50	-25	235	226	1,29	1,04	0,90
50	-20	303	256	1,41	1,18	1,02
50	-15	383	284	1,52	1,35	1,17
50	-10	476	311	1,63	1,53	1,32
50	-5	581	336	1,73	1,73	1,50
50	0	699	359	1,84	1,95	1,68
50	5	830	381	1,93	2,18	1,88
50	7,2	891	390	1,98	2,28	1,97
50	10	973	401	2,03	2,42	2,09
55	-25	210	227	1,29	0,93	0,80
55	-20	271	260	1,42	1,04	0,90
55	-15	344	291	1,55	1,18	1,02
55	-10	429	320	1,67	1,34	1,16
55	-5	527	348	1,79	1,52	1,31
55	0	638	374	1,90	1,71	1,47
55	5	761	399	2,02	1,91	1,65
55	7,2	819	409	2,06	2,00	1,73
55	10	896	422	2,12	2,12	1,84
60	-25	186	228	1,30	0,82	0,70
60	-20	239	264	1,44	0,91	0,78
60	-15	305	297	1,57	1,03	0,89
60	-10	383	329	1,71	1,16	1,00
60	-5	474	360	1,84	1,32	1,14
60	0	577	389	1,97	1,48	1,28
60	5	692	417	2,10	1,66	1,44
60	7,2	747	428	2,15	1,74	1,51
60	10	820	443	2,22	1,85	1,60

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.320,7289267491	213,9418647243	1,1639959237	23,392503826761
2	39,8548031623	-0,9955841632	-0,0053116346	0,84469738966251
3	-13,0091149210	3,1210589947	0,0143840824	-0,020299460559634
4	0,2364351600	-0,0279150457	-0,0000393153	0,011108915361928
5	-0,3222657107	0,1166047946	0,0005437473	0,00089830989827554

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

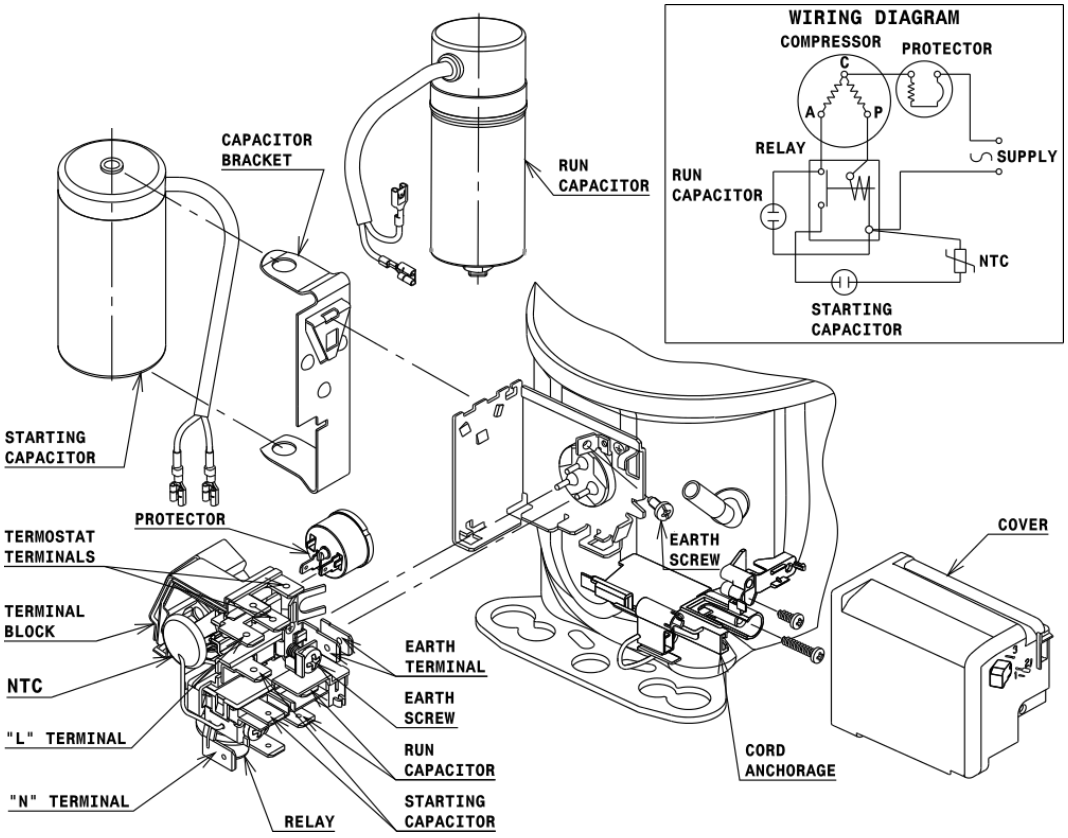
COMPRESSOR DIMENSIONS



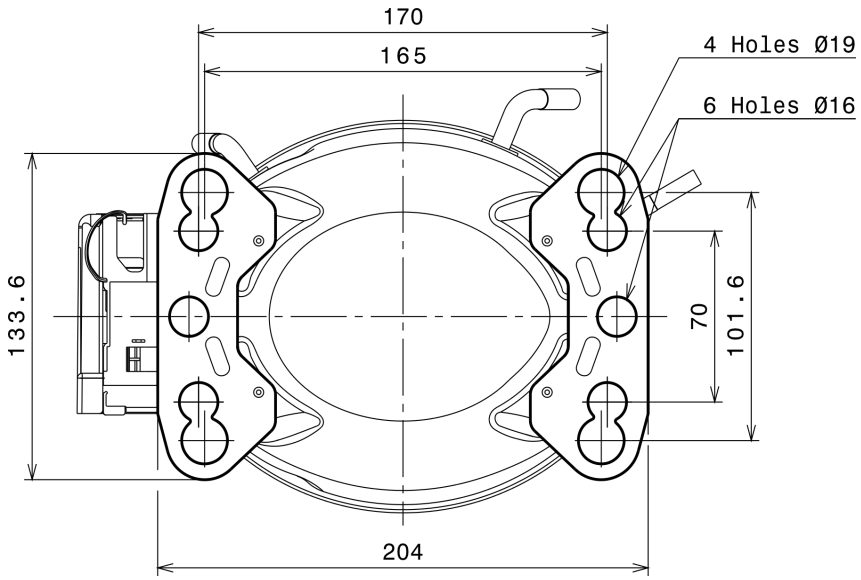
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

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



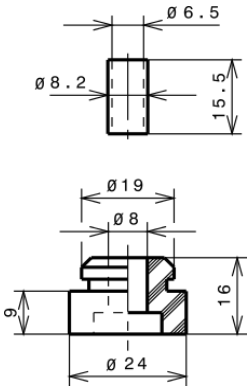
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

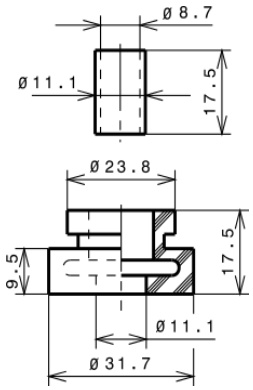
STANDARD

Ø16 holes (170x70 net)



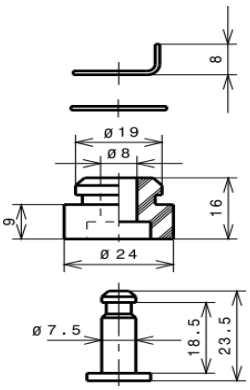
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R404A HMBP