Technical Data Sheet

Compressor model **MLY60RGb**

Voltage **200-220/220-230V 50/60Hz ~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	10,34 Kg
Oil type	ISO VG 32 ESTER
Oil charge	295 cm³

MOTOR

Nominal Power	1/4 hp
Voltage/Frequency	200-220V 50Hz
Voltage range	170-242 V
Type	CSR
Phase number	1 PH
Locked Rotor Amps (LRA)	12,50 A
Max. Cont. Current (MCC)	3,40 A
Main W. resist. at 25ºC	6,15 Ω
Start W. resist. at 25ºC	31,10 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	843 kCal/h	778 W
COP	2,48 W/W	2,00 W/W
EER	2,13 kCal/Wh	1,73 kCal/Wh
Input Power	396 W	388 W
Current	1,95 A	1,91 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	200 V 50 Hz	200 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V			
Run capacitor	6 µF 400 V			
Relay	Option 1			
Reference	2014 138. + NTC15Ω			
Pick-Up	6.10 A			
Drop-Out	5.20 A			
Protector	Option 1			
Reference	T0266			
Current	11,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	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	278	219	1,17	1,47	1,27
40	-20	356	240	1,25	1,72	1,48
40	-15	447	260	1,34	2,00	1,72
40	-10	551	280	1,42	2,29	1,97
40	-5	669	298	1,50	2,61	2,24
40	0	799	316	1,58	2,94	2,53
40	5	943	333	1,66	3,29	2,83
40	7,2	1.011	341	1,69	3,45	2,97
40	10	1.101	350	1,73	3,66	3,15
45	-25	257	220	1,17	1,36	1,17
45	-20	329	244	1,27	1,57	1,35
45	-15	415	267	1,36	1,81	1,56
45	-10	514	289	1,46	2,07	1,78
45	-5	626	310	1,55	2,35	2,02
45	0	751	331	1,65	2,64	2,27
45	5	890	351	1,74	2,95	2,54
45	7,2	955	359	1,78	3,09	2,66
45	10	1.042	370	1,82	3,28	2,82
50	-25	237	221	1,18	1,24	1,07
50	-20	303	247	1,28	1,43	1,23
50	-15	384	273	1,39	1,63	1,41
50	-10	477	298	1,50	1,86	1,60
50	-5	584	322	1,61	2,11	1,81
50	0	703	345	1,71	2,37	2,04
50	5	836	368	1,82	2,64	2,27
50	7,2	899	378	1,86	2,77	2,38
50	10	982	390	1,92	2,93	2,52
55	-25	216	222	1,18	1,13	0,97
55	-20	277	251	1,30	1,29	1,11
55	-15	352	279	1,42	1,47	1,26
55	-10	440	307	1,54	1,67	1,43
55	-5	541	334	1,66	1,89	1,62
55	0	655	360	1,78	2,12	1,82
55	5	783	385	1,90	2,36	2,03
55	7,2	843	396	1,95	2,48	2,13
55	10	923	410	2,02	2,62	2,25
60	-25	196	223	1,18	1,02	0,88
60	-20	251	255	1,32	1,15	0,99
60	-15	321	286	1,45	1,30	1,12
60	-10	403	316	1,58	1,48	1,27
60	-5	499	346	1,71	1,68	1,44
60	0	607	374	1,85	1,89	1,62
60	5	729	402	1,98	2,11	1,81
60	7,2	787	415	2,04	2,21	1,90
60	10	864	430	2,11	2,34	2,01

CECOMAF

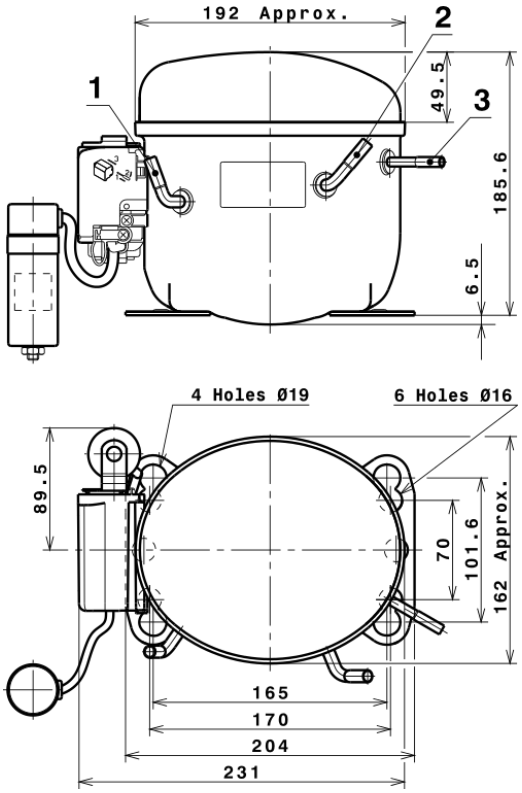
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	291	220	1,17	1,32	1,14
40	-20	375	241	1,26	1,55	1,34
40	-15	472	262	1,34	1,80	1,56
40	-10	582	281	1,43	2,07	1,79
40	-5	704	300	1,51	2,35	2,03
40	0	840	318	1,59	2,64	2,28
40	5	988	336	1,67	2,94	2,54
40	7,2	1.057	343	1,70	3,08	2,66
40	10	1.149	352	1,74	3,26	2,82
45	-25	266	221	1,18	1,20	1,04
45	-20	343	245	1,27	1,40	1,21
45	-15	432	268	1,37	1,61	1,39
45	-10	534	290	1,47	1,84	1,59
45	-5	649	312	1,56	2,08	1,80
45	0	777	333	1,66	2,33	2,02
45	5	918	353	1,75	2,60	2,25
45	7,2	984	362	1,79	2,72	2,35
45	10	1.071	373	1,84	2,87	2,48
50	-25	241	222	1,18	1,09	0,94
50	-20	310	249	1,29	1,25	1,08
50	-15	392	275	1,40	1,43	1,23
50	-10	487	300	1,51	1,62	1,40
50	-5	594	324	1,62	1,83	1,58
50	0	715	348	1,72	2,06	1,78
50	5	848	371	1,83	2,29	1,98
50	7,2	910	380	1,88	2,39	2,07
50	10	993	393	1,93	2,53	2,19
55	-25	216	223	1,19	0,97	0,84
55	-20	278	253	1,31	1,10	0,95
55	-15	352	281	1,43	1,25	1,08
55	-10	439	309	1,55	1,42	1,23
55	-5	539	336	1,67	1,61	1,39
55	0	652	362	1,79	1,80	1,55
55	5	778	388	1,91	2,00	1,73
55	7,2	837	399	1,96	2,10	1,81
55	10	916	413	2,03	2,22	1,92
60	-25	192	224	1,19	0,85	0,74
60	-20	246	256	1,32	0,96	0,83
60	-15	312	288	1,46	1,09	0,94
60	-10	392	318	1,59	1,23	1,06
60	-5	484	348	1,72	1,39	1,20
60	0	590	377	1,86	1,56	1,35
60	5	708	405	2,00	1,75	1,51
60	7,2	764	418	2,05	1,83	1,58
60	10	838	433	2,13	1,94	1,67

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.348,2895276798	206,3707891772	1,0445938925	23,85512844066
2	40,5909940863	-0,7158084185	-0,0041433871	0,86003150492316
3	-13,2663499312	3,0401376659	0,0145170939	-0,019736284663625
4	0,2421154889	-0,0112003472	0,0000199255	0,011366802594028
5	-0,3274649020	0,1133679414	0,0005470943	0,00095303016196184

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

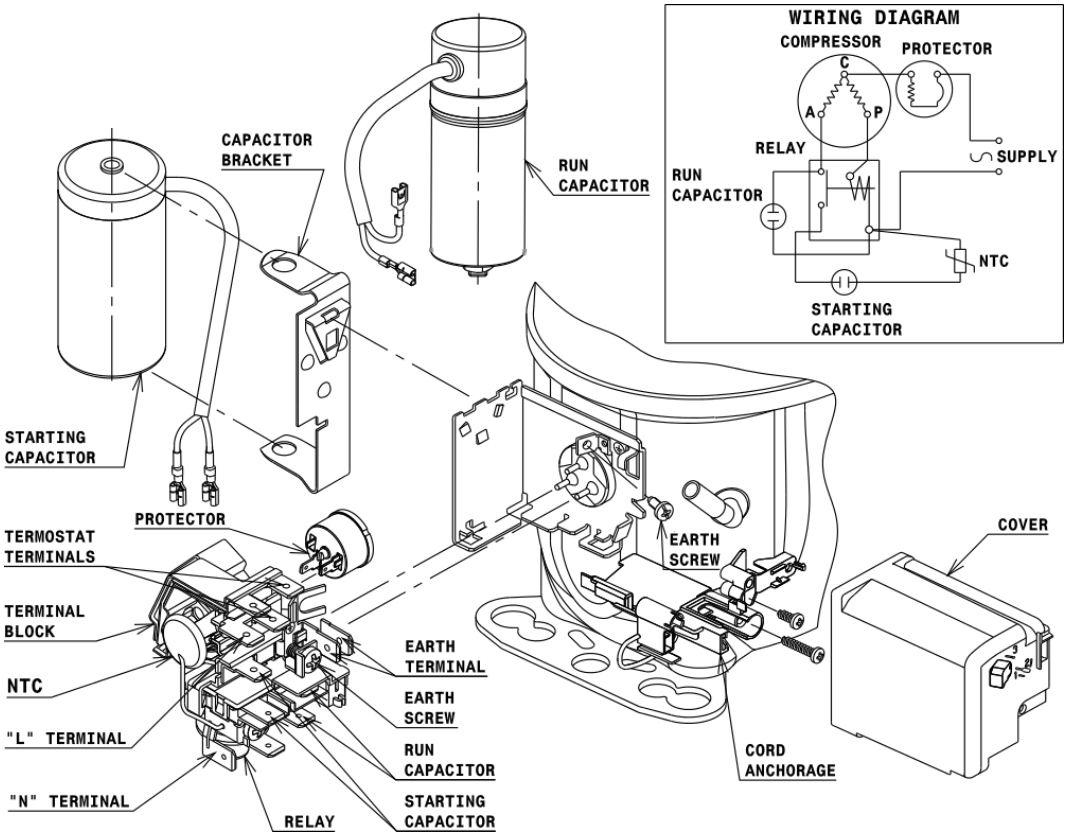
COMPRESSOR DIMENSIONS



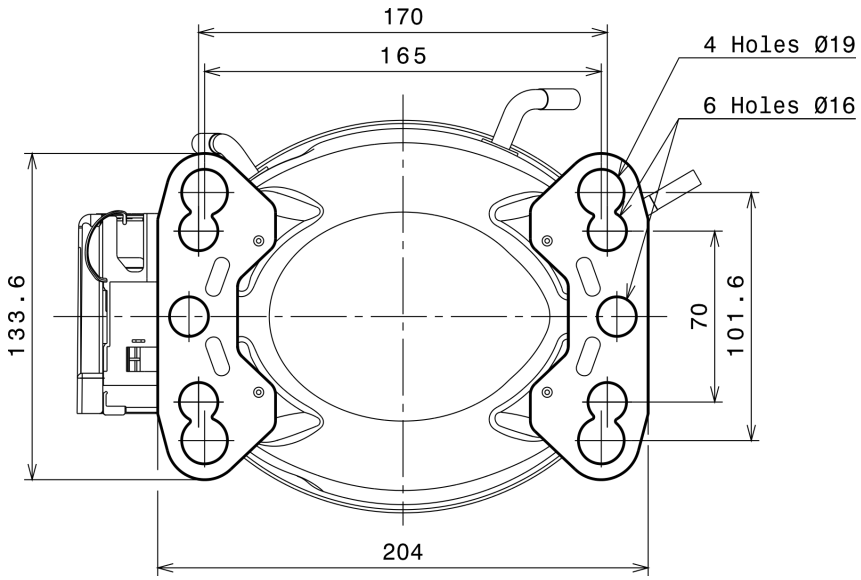
	DESIGNATION	INTERNAL DIAM.
1	Suction	8,1 mm
2	Service	8,1 mm
3	Discharge	6,5 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

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



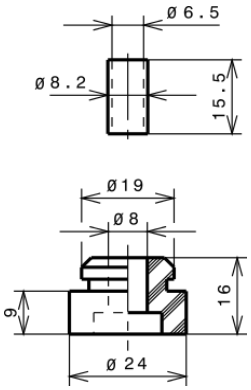
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

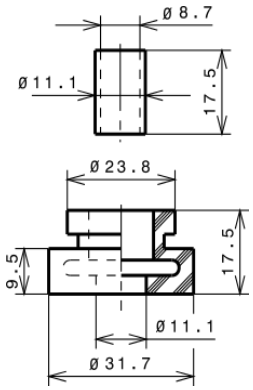
STANDARD

Ø16 holes (170x70 net)



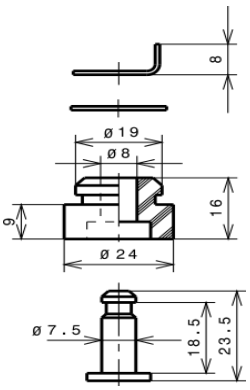
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R404A HMBP