

# Technical Data Sheet

Compressor model **MLY80LAB**  
 Voltage **220-240V 50Hz ~1**  
 Refrigerant **R404A**

## APPLICATION

Application	Low Back Pressure
Refrigerant	R404A
Evaporating Temp.	-40,0 °C to -10,0 °C
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 °C

## COMPRESSOR

Displacement	8,10 cm <sup>3</sup>
Diameter	24,29 mm
Stroke	17,47 mm
Net Weight	9,69 Kg
Oil type	ISO VG 32 ESTER
Oil charge	350 cm <sup>3</sup>

## MOTOR

Nominal Power	1/4 hp
Voltage/Frequency	220-240V 50Hz
Voltage range	187-255 V
Type	CSR
Phase number	1 PH
Locked Rotor Amps (LRA)	13,00 A
Max. Cont. Current (MCC)	2,50 A
Main W. resist. at 25°C	8,60 Ω
Start W. resist. at 25°C	27,80 Ω

## NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	350 kCal/h	275 W
COP	1,38 W/W	0,98 W/W
EER	1,19 kCal/Wh	0,84 kCal/Wh
Input Power	295 W	282 W
Current	1,35 A	1,29 A

## APPROVALS



## TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T <sub>e</sub> )	-23,3 °C	-25,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	32,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	32,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	32,0 °C	32,0 °C
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		
Reference	T0351		
Current	7,70 A		
Time check	7,5-14 seg		
Disc temp. (Open/Close)	110,00 / 61,00 °C		

## ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	150	185	0,90	0,94	0,81
40	-35	212	216	1,01	1,14	0,98
40	-30	287	246	1,13	1,36	1,17
40	-25	376	276	1,26	1,58	1,36
40	-23,3	409	287	1,31	1,66	1,43
40	-20	478	307	1,41	1,81	1,56
40	-15	594	337	1,57	2,05	1,76
40	-10	723	367	1,74	2,29	1,97

45	-40	140	180	0,88	0,90	0,78
45	-35	199	213	1,00	1,09	0,94
45	-30	271	246	1,13	1,29	1,11
45	-25	357	278	1,27	1,49	1,28
45	-23,3	389	289	1,32	1,57	1,35
45	-20	456	311	1,43	1,71	1,47
45	-15	569	344	1,60	1,93	1,66
45	-10	695	376	1,79	2,15	1,85

50	-40	130	175	0,87	0,86	0,74
50	-35	186	210	0,99	1,03	0,89
50	-30	256	245	1,13	1,21	1,04
50	-25	339	280	1,28	1,40	1,21
50	-23,3	370	292	1,34	1,47	1,27
50	-20	435	315	1,45	1,60	1,38
50	-15	544	350	1,64	1,81	1,55
50	-10	668	385	1,84	2,02	1,73

55	-40	120	170	0,85	0,82	0,71
55	-35	173	208	0,98	0,97	0,83
55	-30	240	245	1,12	1,14	0,98
55	-25	320	282	1,29	1,32	1,13
55	-23,3	350	295	1,35	1,38	1,19
55	-20	413	320	1,47	1,50	1,29
55	-15	520	357	1,68	1,69	1,46
55	-10	640	394	1,90	1,89	1,62

60	-40	110	165	0,83	0,78	0,67
60	-35	160	205	0,97	0,91	0,78
60	-30	224	245	1,12	1,06	0,92
60	-25	301	284	1,30	1,23	1,06
60	-23,3	330	298	1,36	1,29	1,11
60	-20	391	324	1,50	1,41	1,21
60	-15	495	364	1,72	1,58	1,36
60	-10	613	403	1,96	1,77	1,52

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	158	185	0,90	0,86	0,74
40	-35	232	216	1,01	1,07	0,93
40	-30	316	246	1,13	1,28	1,11
40	-25	412	276	1,26	1,49	1,29
40	-23,3	447	287	1,31	1,56	1,35
40	-20	518	307	1,41	1,69	1,46
40	-15	636	337	1,57	1,89	1,63
40	-10	765	367	1,74	2,08	1,80

45	-40	140	180	0,88	0,78	0,67
45	-35	204	213	1,00	0,96	0,83
45	-30	280	246	1,13	1,14	0,98
45	-25	366	278	1,27	1,32	1,14
45	-23,3	398	289	1,32	1,38	1,19
45	-20	464	311	1,43	1,49	1,29
45	-15	573	344	1,60	1,67	1,44
45	-10	693	376	1,79	1,84	1,59

50	-40	122	175	0,87	0,70	0,60
50	-35	177	210	0,99	0,84	0,73
50	-30	243	245	1,13	0,99	0,86
50	-25	321	280	1,28	1,14	0,99
50	-23,3	350	292	1,34	1,20	1,03
50	-20	409	315	1,45	1,30	1,12
50	-15	509	350	1,64	1,45	1,26
50	-10	620	385	1,84	1,61	1,39

55	-40	104	170	0,85	0,61	0,53
55	-35	150	208	0,98	0,72	0,62
55	-30	207	245	1,12	0,85	0,73
55	-25	275	282	1,29	0,98	0,84
55	-23,3	301	295	1,35	1,02	0,88
55	-20	355	320	1,47	1,11	0,96
55	-15	446	357	1,68	1,25	1,08
55	-10	548	394	1,90	1,39	1,20

60	-40	86	165	0,83	0,52	0,45
60	-35	123	205	0,97	0,60	0,52
60	-30	171	245	1,12	0,70	0,60
60	-25	230	284	1,30	0,81	0,70
60	-23,3	253	298	1,36	0,85	0,73
60	-20	301	324	1,50	0,93	0,80
60	-15	382	364	1,72	1,05	0,91
60	-10	475	403	1,96	1,18	1,02

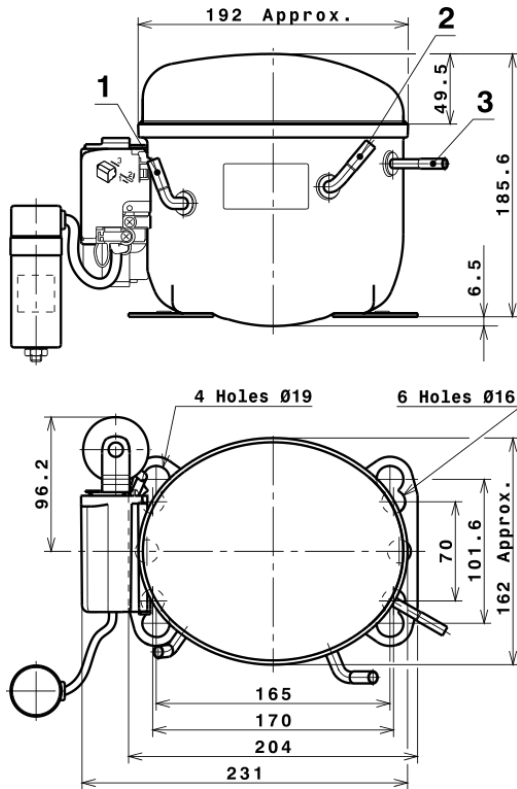
## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.761,4824065196	327,5040837678	1,5911773099	37,701021931611
2	45,02933366889	2,4653009366	0,0302353491	1,1189638982893
3	-18,4845833223	2,8051409028	0,0165403500	-0,1977610568487
4	0,2115813099	0,0006810538	0,0004144524	0,0084219903960873
5	-0,3710665162	0,0956820484	0,0004966907	-0,0035389340064935

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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# Technical Data Sheet

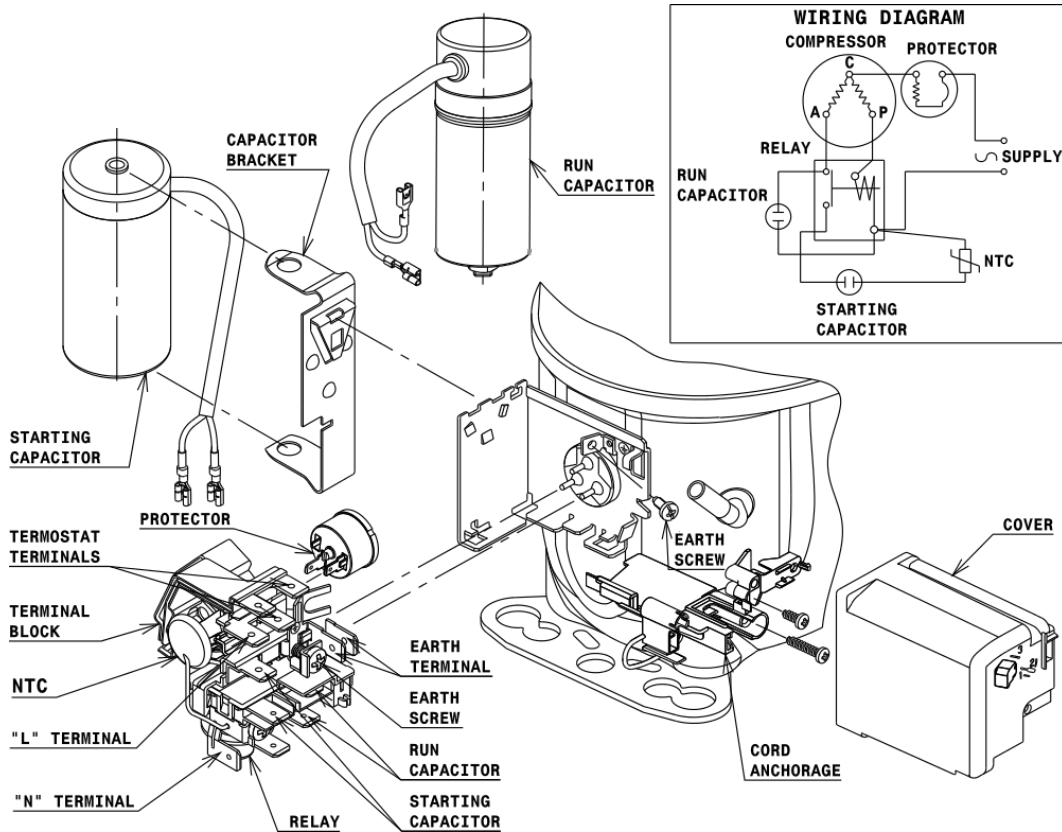
## COMPRESSOR DIMENSIONS



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)



# Technical Data Sheet

## 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

