

# Technical Data Sheet

Compressor model **MLY12LFa**  
 Voltage **208-230V 60Hz ~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	10,70 cm <sup>3</sup>
Diameter	25,40 mm
Stroke	21,11 mm
Net Weight	11,06 Kg
Oil type	ISO VG 32 ESTER
Oil charge	400 cm <sup>3</sup>

## MOTOR

Nominal Power	3/8 hp
Voltage/Frequency	208-230V 60Hz
Voltage range	187-253 V
Type	CSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	23,00 A
Max. Cont. Current (MCC)	4,60 A
Main W. resist. at 25°C	3,29 Ω
Start W. resist. at 25°C	18,30 Ω

## NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	572 kCal/h	451 W
COP	1,29 W/W	0,92 W/W
EER	1,11 kCal/Wh	0,79 kCal/Wh
Input Power	517 W	493 W
Current	3,45 A	3,38 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	230 V 60 Hz	230 V 60 Hz

## ELECTRICAL COMPONENTS

Starting capacitor	47- 56 μF 330 V			
Relay	Option 1			
Reference	2014 170.			
Pick-Up	12,10 A			
Drop-Out	10,30 A			
Protector	Option 1			
Reference	T0267			
Current	11,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 52,00 °C			

## ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	258	318	2,90	0,95	0,81
40	-35	342	367	3,03	1,08	0,93
40	-30	447	421	3,17	1,24	1,06
40	-25	574	479	3,33	1,39	1,20
40	-23,3	621	499	3,40	1,45	1,24
40	-20	721	540	3,52	1,55	1,33
40	-15	889	606	3,74	1,71	1,47
40	-10	1.079	676	3,98	1,86	1,60

45	-40	241	312	2,89	0,90	0,77
45	-35	325	365	3,02	1,04	0,89
45	-30	431	422	3,17	1,19	1,02
45	-25	557	483	3,35	1,34	1,15
45	-23,3	605	505	3,41	1,39	1,20
45	-20	705	549	3,55	1,49	1,28
45	-15	873	618	3,77	1,64	1,41
45	-10	1.063	691	4,03	1,79	1,54

50	-40	224	307	2,87	0,85	0,73
50	-35	308	363	3,01	0,99	0,85
50	-30	414	424	3,18	1,14	0,98
50	-25	541	488	3,36	1,29	1,11
50	-23,3	588	511	3,43	1,34	1,15
50	-20	688	557	3,57	1,44	1,24
50	-15	857	629	3,81	1,58	1,36
50	-10	1.047	706	4,08	1,72	1,48

55	-40	207	301	2,86	0,80	0,69
55	-35	292	361	3,01	0,94	0,81
55	-30	397	425	3,18	1,09	0,93
55	-25	524	493	3,38	1,24	1,06
55	-23,3	572	517	3,45	1,29	1,11
55	-20	672	565	3,60	1,38	1,19
55	-15	841	641	3,85	1,53	1,31
55	-10	1.031	721	4,14	1,66	1,43

60	-40	190	296	2,85	0,75	0,64
60	-35	275	359	3,00	0,89	0,77
60	-30	381	426	3,18	1,04	0,89
60	-25	508	498	3,39	1,19	1,02
60	-23,3	556	523	3,47	1,24	1,06
60	-20	656	573	3,63	1,33	1,14
60	-15	825	653	3,89	1,47	1,26
60	-10	1.015	736	4,20	1,60	1,38

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	273	318	2,90	0,86	0,74
40	-35	374	367	3,03	1,02	0,88
40	-30	494	421	3,17	1,17	1,01
40	-25	631	479	3,33	1,32	1,14
40	-23,3	682	499	3,40	1,37	1,18
40	-20	786	540	3,52	1,45	1,26
40	-15	958	606	3,74	1,58	1,37
40	-10	1.148	676	3,98	1,70	1,47

45	-40	241	312	2,89	0,77	0,67
45	-35	334	365	3,02	0,91	0,79
45	-30	444	422	3,17	1,05	0,91
45	-25	571	483	3,35	1,18	1,02
45	-23,3	619	505	3,41	1,22	1,06
45	-20	716	549	3,55	1,31	1,13
45	-15	879	618	3,77	1,42	1,23
45	-10	1.059	691	4,03	1,53	1,32

50	-40	210	307	2,87	0,69	0,59
50	-35	293	363	3,01	0,81	0,70
50	-30	393	424	3,18	0,93	0,80
50	-25	511	488	3,36	1,05	0,90
50	-23,3	555	511	3,43	1,09	0,94
50	-20	647	557	3,57	1,16	1,00
50	-15	800	629	3,81	1,27	1,10
50	-10	971	706	4,08	1,38	1,19

55	-40	179	301	2,86	0,59	0,51
55	-35	252	361	3,01	0,70	0,60
55	-30	343	425	3,18	0,81	0,70
55	-25	451	493	3,38	0,92	0,79
55	-23,3	492	517	3,45	0,95	0,82
55	-20	577	565	3,60	1,02	0,88
55	-15	721	641	3,85	1,12	0,97
55	-10	882	721	4,14	1,22	1,06

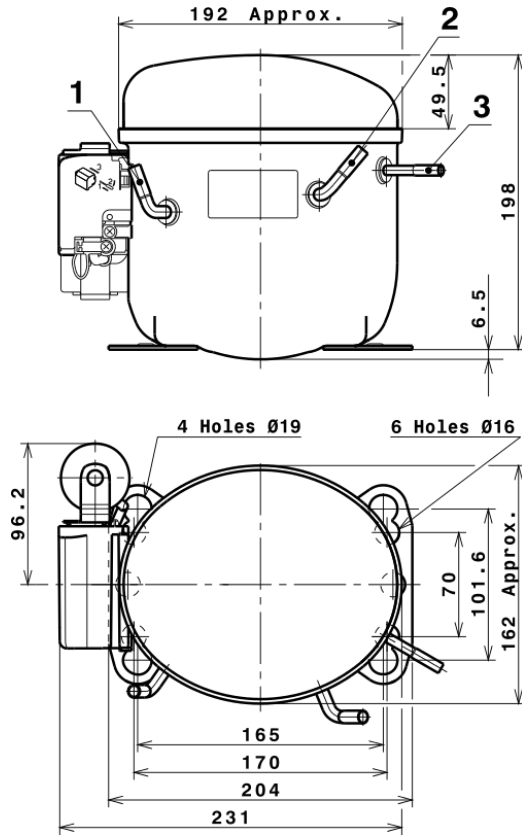
60	-40	148	296	2,85	0,50	0,43
60	-35	211	359	3,00	0,59	0,51
60	-30	293	426	3,18	0,69	0,59
60	-25	392	498	3,39	0,79	0,68
60	-23,3	429	523	3,47	0,82	0,71
60	-20	508	573	3,63	0,89	0,77
60	-15	642	653	3,89	0,98	0,85
60	-10	794	736	4,20	1,08	0,93

## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	2.425,4390050456	672,4427036977	4,0057690620	48,431121524125
2	61,1431894382	11,0111190854	0,0481486911	1,4674536977173
3	-22,4066211992	4,4821637541	0,0161539528	-0,099221660157702
4	0,3332094091	0,0859412769	0,0005917431	0,013288182991549
5	-0,4043125479	0,1401629722	0,0004722891	-9,1475698251431E-5

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

### CSIR CONNECTION (L, P ranges)



# Technical Data Sheet

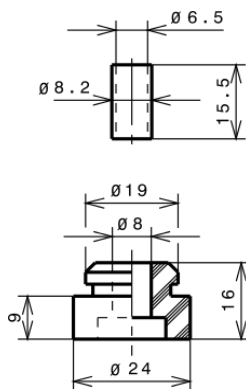
## FIXINGS



## SILENT BLOCKS (MOUNTING ACCESSORIES)

### STANDARD

$\varnothing 16$  holes (170x70 net)



### AMERICAN FEET

$\varnothing 19$  holes (165x101.6 net)



### SNAP-ON

$\varnothing 16$  holes (170x70 net)



## SOA

SOA R404A LBP

