

Technical Data Sheet

Compressor model **HLY80AAb**
 Voltage **220-240V 50Hz ~1**
 Refrigerant **R600a**

APPLICATION

Application Low Back Pressure
 Refrigerant R600a
 Evaporating Temp. -35,0 °C to -10,0 °C
 Expansion Capillar
 Comp. Cooling Static
 Max. ambient temp. 43,0 °C

COMPRESSOR

Displacement 8,10 cm³
 Diameter 24,29 mm
 Stroke 17,47 mm
 Net Weight 9,56 Kg
 Oil type ISO VG 10 MINER
 Oil charge 210 cm³

MOTOR

Nominal Power 1/7 hp
 Voltage/Frequency 220-240V 50Hz
 Voltage range 187-264 V
 Type RSCR
 Phase number 1 PH
 Locked Rotor Amps (LRA) 8,60 A
 Max. Cont. Current (MCC) 1,00 A
 Main W. resist. at 25°C 22,02 Ω
 Start W. resist. at 25°C 22,53 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	113 kCal/h	99 W
COP	1,49 W/W	1,18 W/W
EER	1,28 kCal/Wh	1,02 kCal/Wh
Input Power	88 W	84 W
Current	0,45 A	0,43 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Run capacitor	3 µF 400 V			
Relay	Option 1			
Reference	PTC K100			
Voltage	200-240 V			
Resistance	14.00 Ω			
Protector	Option 1	Option 2	Option 3	Option 4
Reference	MSP318LZ	4TM189NFBYY	T0462	AE37FJ
Current	5,90 A	5,50 A	6,20 A	5,90 A
Time check	7,5-14 seg	5-15 seg	7,5-14 seg	7,5-14 seg
Disc temp. (Open/Close)	120,00 / 61,00 °C	120,00 / 61,00 °C	110,00 / 62,00 °C	115,00 / 62,00 °C

This product is approved for R290 and R600a regarding explosion safety according to standard EN 60335-1 and EN 60335-2-34

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	67	66	0,35	1,18	1,02
40	-30	89	75	0,39	1,39	1,19
40	-25	117	84	0,43	1,61	1,39
40	-23,3	127	87	0,45	1,69	1,46
40	-20	149	94	0,48	1,85	1,59
40	-15	187	104	0,53	2,09	1,80
40	-10	230	115	0,58	2,33	2,00

45	-35	63	64	0,34	1,14	0,98
45	-30	85	74	0,39	1,34	1,15
45	-25	112	84	0,43	1,55	1,33
45	-23,3	123	88	0,45	1,63	1,40
45	-20	144	95	0,48	1,77	1,52
45	-15	182	106	0,53	2,00	1,72
45	-10	224	117	0,59	2,22	1,91

50	-35	60	63	0,34	1,11	0,95
50	-30	81	73	0,38	1,29	1,11
50	-25	108	84	0,43	1,49	1,28
50	-23,3	118	88	0,45	1,56	1,34
50	-20	139	95	0,48	1,70	1,46
50	-15	176	107	0,54	1,91	1,64
50	-10	218	120	0,60	2,12	1,82

55	-35	56	61	0,33	1,07	0,92
55	-30	77	72	0,38	1,24	1,07
55	-25	103	84	0,43	1,43	1,23
55	-23,3	113	88	0,45	1,49	1,28
55	-20	134	96	0,49	1,62	1,40
55	-15	171	109	0,55	1,82	1,57
55	-10	212	122	0,61	2,02	1,74

60	-35	52	59	0,32	1,03	0,88
60	-30	73	71	0,38	1,19	1,02
60	-25	98	84	0,43	1,36	1,17
60	-23,3	108	88	0,45	1,43	1,23
60	-20	129	97	0,49	1,55	1,33
60	-15	165	110	0,55	1,74	1,50
60	-10	206	124	0,62	1,93	1,66

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	73	66	0,35	1,11	0,96
40	-30	99	75	0,39	1,32	1,14
40	-25	130	84	0,43	1,54	1,33
40	-23,3	141	87	0,45	1,62	1,40
40	-20	165	94	0,48	1,76	1,52
40	-15	206	104	0,53	1,98	1,71
40	-10	251	115	0,58	2,19	1,89

45	-35	67	64	0,34	1,04	0,90
45	-30	91	74	0,39	1,23	1,06
45	-25	119	84	0,43	1,42	1,23
45	-23,3	130	88	0,45	1,49	1,29
45	-20	153	95	0,48	1,62	1,40
45	-15	192	106	0,53	1,81	1,57
45	-10	235	117	0,59	2,00	1,73

50	-35	60	63	0,34	0,96	0,83
50	-30	82	73	0,38	1,12	0,97
50	-25	109	84	0,43	1,30	1,12
50	-23,3	119	88	0,45	1,36	1,17
50	-20	141	95	0,48	1,48	1,28
50	-15	177	107	0,54	1,65	1,43
50	-10	219	120	0,60	1,83	1,58

55	-35	54	61	0,33	0,88	0,76
55	-30	74	72	0,38	1,02	0,88
55	-25	99	84	0,43	1,18	1,02
55	-23,3	108	88	0,45	1,23	1,06
55	-20	129	96	0,49	1,34	1,16
55	-15	163	109	0,55	1,50	1,30
55	-10	203	122	0,61	1,66	1,44

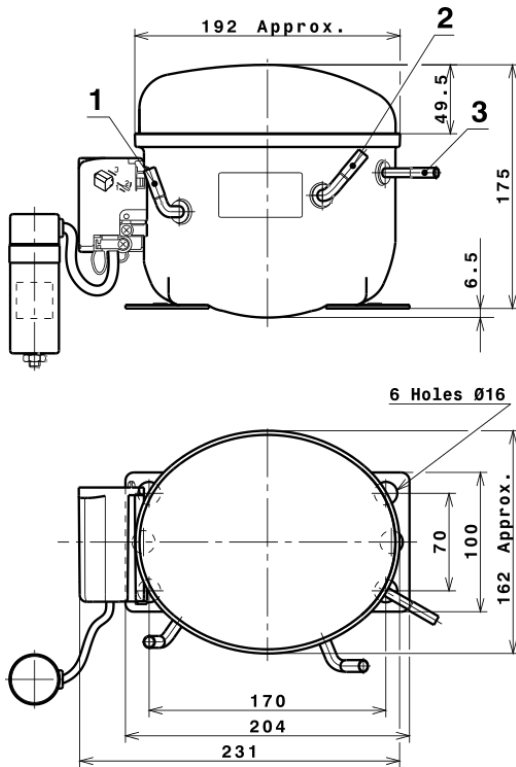
60	-35	47	59	0,32	0,79	0,69
60	-30	65	71	0,38	0,91	0,79
60	-25	88	84	0,43	1,05	0,91
60	-23,3	97	88	0,45	1,10	0,95
60	-20	116	97	0,49	1,20	1,04
60	-15	149	110	0,55	1,35	1,17
60	-10	187	124	0,62	1,50	1,30

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	511,7469878900	109,1326422952	0,5538237710	5,0896725404184
2	14,4125874525	1,1672402876	0,0065056842	0,15816511969639
3	-4,0806220853	0,8041707617	0,0038300249	-0,018227347572404
4	0,0950831787	0,0103907489	0,0000743733	0,0013854407029463
5	-0,0792370192	0,0327011454	0,0001518456	-0,0002486774411133

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

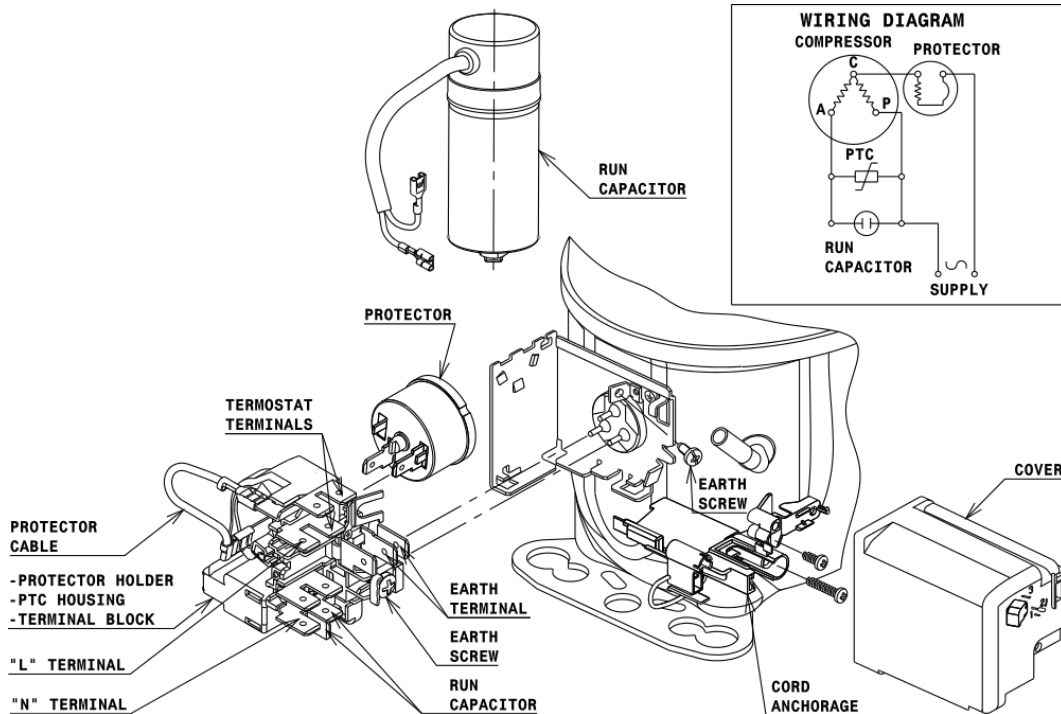


DESIGNATION INTERNAL DIAM.

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

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSCR CONNECTION (L, P ranges)



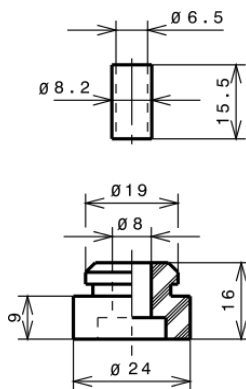
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

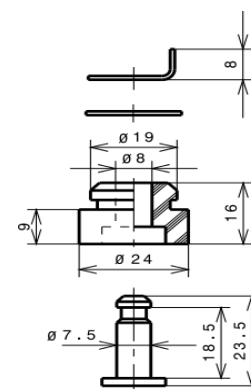
STANDARD

$\varnothing 16$ holes (170x70 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R600a LBP

