

Technical Data Sheet

Compressor model **NUY60LAB**
Voltage **220-240V 50Hz ~1**
Refrigerant **R290**

APPLICATION

Application Low Back Pressure
Refrigerant R290
Evaporating Temp. -40,0 °C to -10,0 °C
Expansion Capillar/Valve
Comp. Cooling Fan cooled
Max. ambient temp. 43,0 °C

COMPRESSOR

Displacement 6,00 cm³
Diameter 21,99 mm
Stroke 16,00 mm
Net Weight 9,50 Kg
Oil type ISO VG 10 ESTER
Oil charge 200 cm³

MOTOR

Nominal Power 1/5 hp
Voltage/Frequency 220-240V 50Hz
Voltage range 187-255 V
Type CSR
Phase number 1 PH
Locked Rotor Amps (LRA) 9,30 A
Max. Cont. Current (MCC) 1,60 A
Main W. resist. at 25°C 11,65 Ω
Start W. resist. at 25°C 46,80 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	250 kCal/h	216 W
COP	1,67 W/W	1,29 W/W
EER	1,44 kCal/Wh	1,11 kCal/Wh
Input Power	174 W	168 W
Current	0,82 A	0,79 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

Starting capacitor	47- 56 µF 330 V			
Run capacitor	5 µF 400 V			
Relay	Option 1			
Reference	2014 125. + NTC15Ω			
Pick-Up	4,65 A			
Drop-Out	3,95 A			
Protector	Option 1	Option 2		
Reference	T0073	AE22FHY		
Current	6,20 A	6,20 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	110,00 / 62,00 °C	105,00 / 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	-40	116	116	0,55	1,17	1,00
40	-35	153	126	0,60	1,41	1,21
40	-30	199	138	0,66	1,68	1,44
40	-25	254	151	0,72	1,95	1,68
40	-23,3	275	156	0,74	2,05	1,76
40	-20	318	165	0,78	2,24	1,92
40	-15	390	180	0,85	2,52	2,17
40	-10	471	196	0,92	2,80	2,41

45	-40	110	116	0,56	1,10	0,95
45	-35	147	129	0,61	1,33	1,14
45	-30	192	142	0,68	1,57	1,35
45	-25	246	157	0,74	1,83	1,57
45	-23,3	266	162	0,76	1,91	1,65
45	-20	309	172	0,81	2,09	1,79
45	-15	381	189	0,89	2,35	2,02
45	-10	461	206	0,97	2,60	2,24

50	-40	104	117	0,56	1,04	0,89
50	-35	140	131	0,62	1,24	1,07
50	-30	185	146	0,69	1,47	1,26
50	-25	238	162	0,77	1,71	1,47
50	-23,3	258	168	0,79	1,79	1,54
50	-20	300	179	0,84	1,95	1,67
50	-15	371	197	0,93	2,19	1,88
50	-10	451	217	1,01	2,42	2,08

55	-40	98	117	0,56	0,97	0,84
55	-35	133	133	0,63	1,17	1,00
55	-30	177	150	0,71	1,38	1,18
55	-25	230	168	0,79	1,60	1,37
55	-23,3	250	174	0,82	1,67	1,44
55	-20	292	187	0,88	1,82	1,56
55	-15	362	206	0,97	2,04	1,75
55	-10	441	227	1,06	2,26	1,94

60	-40	92	118	0,56	0,91	0,78
60	-35	127	135	0,64	1,09	0,94
60	-30	170	154	0,73	1,29	1,11
60	-25	222	173	0,82	1,49	1,28
60	-23,3	242	180	0,85	1,56	1,34
60	-20	283	194	0,91	1,70	1,46
60	-15	353	215	1,01	1,91	1,64
60	-10	431	238	1,11	2,11	1,81

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	126	116	0,55	1,09	0,94
40	-35	170	126	0,60	1,34	1,16
40	-30	222	138	0,66	1,60	1,38
40	-25	282	151	0,72	1,87	1,61
40	-23,3	304	156	0,74	1,95	1,69
40	-20	350	165	0,78	2,12	1,83
40	-15	427	180	0,85	2,37	2,05
40	-10	512	196	0,92	2,62	2,26

45	-40	115	116	0,56	0,99	0,85
45	-35	155	129	0,61	1,20	1,04
45	-30	203	142	0,68	1,43	1,24
45	-25	260	157	0,74	1,66	1,43
45	-23,3	281	162	0,76	1,74	1,50
45	-20	325	172	0,81	1,89	1,63
45	-15	398	189	0,89	2,11	1,82
45	-10	479	206	0,97	2,32	2,01

50	-40	103	117	0,56	0,89	0,77
50	-35	140	131	0,62	1,07	0,93
50	-30	185	146	0,69	1,27	1,10
50	-25	238	162	0,77	1,47	1,27
50	-23,3	258	168	0,79	1,54	1,33
50	-20	299	179	0,84	1,67	1,44
50	-15	369	197	0,93	1,87	1,61
50	-10	446	217	1,01	2,06	1,78

55	-40	92	117	0,56	0,79	0,68
55	-35	126	133	0,63	0,94	0,82
55	-30	167	150	0,71	1,11	0,96
55	-25	216	168	0,79	1,29	1,11
55	-23,3	235	174	0,82	1,35	1,17
55	-20	274	187	0,88	1,47	1,27
55	-15	340	206	0,97	1,65	1,42
55	-10	414	227	1,06	1,82	1,57

60	-40	81	118	0,56	0,69	0,60
60	-35	111	135	0,64	0,82	0,71
60	-30	149	154	0,73	0,97	0,84
60	-25	194	173	0,82	1,12	0,97
60	-23,3	212	180	0,85	1,18	1,02
60	-20	249	194	0,91	1,28	1,11
60	-15	311	215	1,01	1,44	1,25
60	-10	381	238	1,11	1,60	1,39

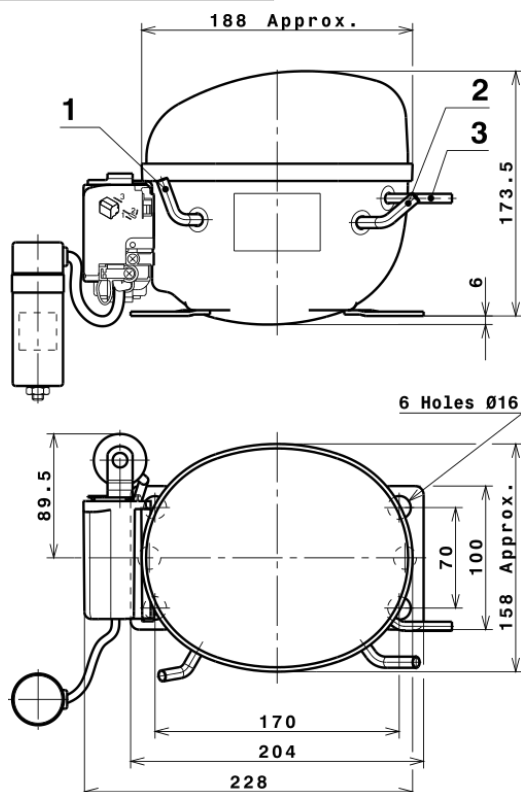
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.020,3665083795	122,4510166174	0,5875339939	9,4659817540997
2	26,5393748721	1,0215574136	0,0045397765	0,27972119066786
3	-8,2003757814	2,8351511384	0,0127998806	-0,028610503841289
4	0,1585472711	0,0202047220	0,0000874644	0,0023292679822294
5	-0,1491482313	0,0683246019	0,0003083057	-0,0003483626961592

Equation

$$x_1 + x_2 Te + x_3 Tc + x_4 Te^2 + x_5 TeTc$$

COMPRESSOR DIMENSIONS

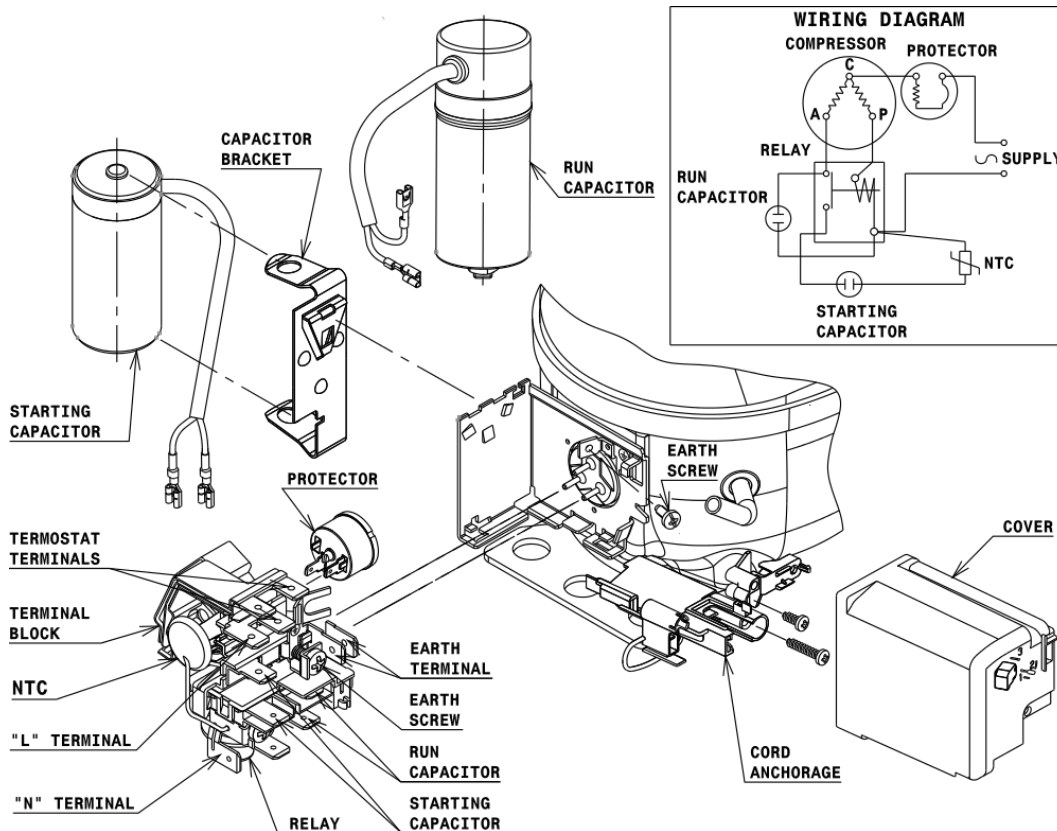


DESIGNATION INTERNAL DIAM.

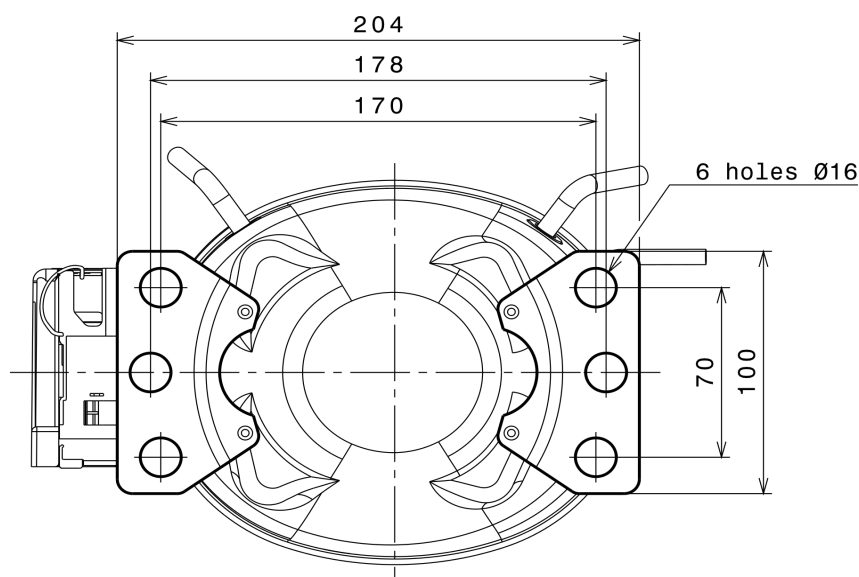
1	Service	6,2 mm
2	Suction	6,2 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (U range)



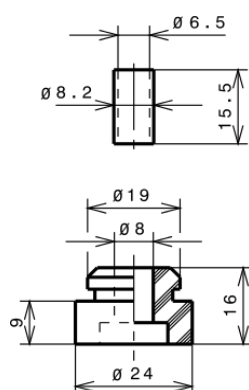
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

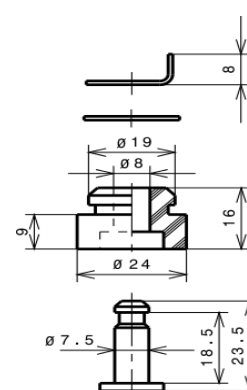
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R290 LBP

