Technical Data Sheet

Compressor model **NUY60LAa**

Voltage **220-240V 50Hz ~1**

Refrigerant **R290**

APPLICATION

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

COMPRESSOR

Displacement	6,00 cm³
Diameter	21,99 mm
Stroke	16,00 mm
Net Weight	9,40 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	CSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	9,60 A
Max. Cont. Current (MCC)	1,60 A
Main W. resist. at 25ºC	11,65 Ω
Start W. resist. at 25ºC	46,80 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	250 kCal/h	217 W
COP	1,60 W/W	1,24 W/W
EER	1,37 kCal/Wh	1,07 kCal/Wh
Input Power	182 W	175 W
Current	1,14 A	1,11 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	LBP (B)	**LBP (A)**
Evaporating temp. (T_e)	-23,3 ºC	-25,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	32,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	32,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	32,0 ºC	32,0 ºC
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V			
Relay	Option 1			
Reference	2014 125.			
Pick-Up	4,55 A			
Drop-Out	3,90 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 ºC	105,00 / 62,00 ºC		

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

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	-40	117	114	0,94	1,19	1,03
40	-35	156	127	0,97	1,43	1,23
40	-30	203	141	1,01	1,67	1,44
40	-25	257	155	1,05	1,92	1,65
40	-23,3	277	160	1,07	2,01	1,73
40	-20	319	171	1,10	2,17	1,87
40	-15	388	187	1,16	2,42	2,08
40	-10	465	204	1,22	2,66	2,29
45	-40	110	114	0,94	1,12	0,96
45	-35	148	129	0,98	1,34	1,15
45	-30	195	145	1,02	1,56	1,34
45	-25	248	162	1,07	1,78	1,53
45	-23,3	268	168	1,09	1,86	1,60
45	-20	309	179	1,13	2,01	1,73
45	-15	378	197	1,20	2,23	1,92
45	-10	454	216	1,27	2,44	2,10
50	-40	104	115	0,94	1,05	0,90
50	-35	141	132	0,98	1,25	1,07
50	-30	187	150	1,03	1,45	1,25
50	-25	239	168	1,09	1,65	1,42
50	-23,3	259	175	1,11	1,72	1,48
50	-20	300	188	1,16	1,86	1,60
50	-15	368	208	1,24	2,06	1,77
50	-10	443	229	1,32	2,25	1,94
55	-40	97	115	0,94	0,98	0,84
55	-35	134	134	0,99	1,16	1,00
55	-30	179	154	1,05	1,35	1,16
55	-25	231	175	1,11	1,53	1,32
55	-23,3	250	182	1,14	1,60	1,37
55	-20	290	196	1,19	1,72	1,48
55	-15	357	218	1,28	1,90	1,64
55	-10	432	241	1,38	2,08	1,79
60	-40	91	116	0,94	0,91	0,78
60	-35	127	137	1,00	1,08	0,93
60	-30	171	159	1,06	1,25	1,07
60	-25	222	181	1,14	1,42	1,22
60	-23,3	241	189	1,17	1,48	1,27
60	-20	281	205	1,23	1,59	1,37
60	-15	347	229	1,33	1,76	1,52
60	-10	421	254	1,44	1,93	1,66

CECOMAF

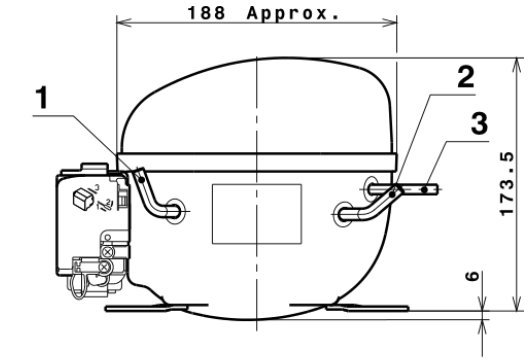
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	126	114	0,94	1,11	0,96
40	-35	172	127	0,97	1,36	1,17
40	-30	224	141	1,01	1,60	1,38
40	-25	284	155	1,05	1,83	1,58
40	-23,3	306	160	1,07	1,91	1,65
40	-20	351	171	1,10	2,05	1,78
40	-15	424	187	1,16	2,27	1,96
40	-10	505	204	1,22	2,48	2,14
45	-40	115	114	0,94	1,00	0,87
45	-35	157	129	0,98	1,21	1,05
45	-30	206	145	1,02	1,42	1,22
45	-25	262	162	1,07	1,62	1,40
45	-23,3	282	168	1,09	1,68	1,46
45	-20	325	179	1,13	1,81	1,57
45	-15	395	197	1,20	2,00	1,73
45	-10	472	216	1,27	2,18	1,89
50	-40	103	115	0,94	0,90	0,78
50	-35	141	132	0,98	1,07	0,93
50	-30	187	150	1,03	1,25	1,08
50	-25	239	168	1,09	1,42	1,23
50	-23,3	259	175	1,11	1,48	1,28
50	-20	299	188	1,16	1,59	1,37
50	-15	365	208	1,24	1,76	1,52
50	-10	438	229	1,32	1,92	1,66
55	-40	91	115	0,94	0,79	0,69
55	-35	126	134	0,99	0,94	0,81
55	-30	168	154	1,05	1,09	0,94
55	-25	217	175	1,11	1,24	1,07
55	-23,3	235	182	1,14	1,29	1,12
55	-20	273	196	1,19	1,39	1,20
55	-15	335	218	1,28	1,54	1,33
55	-10	405	241	1,38	1,68	1,45
60	-40	80	116	0,94	0,69	0,60
60	-35	111	137	1,00	0,81	0,70
60	-30	149	159	1,06	0,94	0,81
60	-25	194	181	1,14	1,07	0,93
60	-23,3	211	189	1,17	1,12	0,97
60	-20	247	205	1,23	1,20	1,04
60	-15	306	229	1,33	1,34	1,15
60	-10	372	254	1,44	1,47	1,27

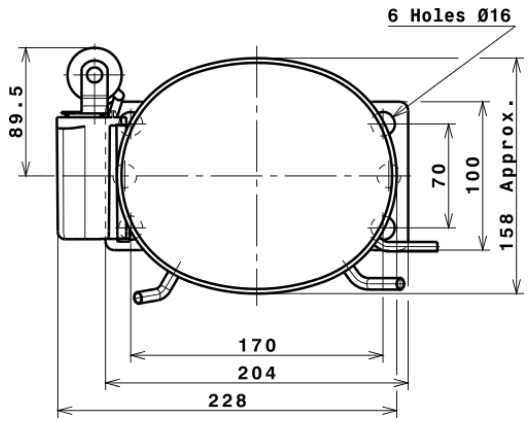
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.007,0330606382	110,2144992834	0,8149765334	9,3582560034866
2	25,2081048813	0,5679960749	0,0056991133	0,26338620907641
3	-8,3139638100	3,3816667244	0,0151407407	-0,031539227015069
4	0,1361695681	0,0152364236	0,0002158224	0,0020225684908909
5	-0,1497029170	0,0819874915	0,0003722777	-0,00039105059389063

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

COMPRESSOR DIMENSIONS

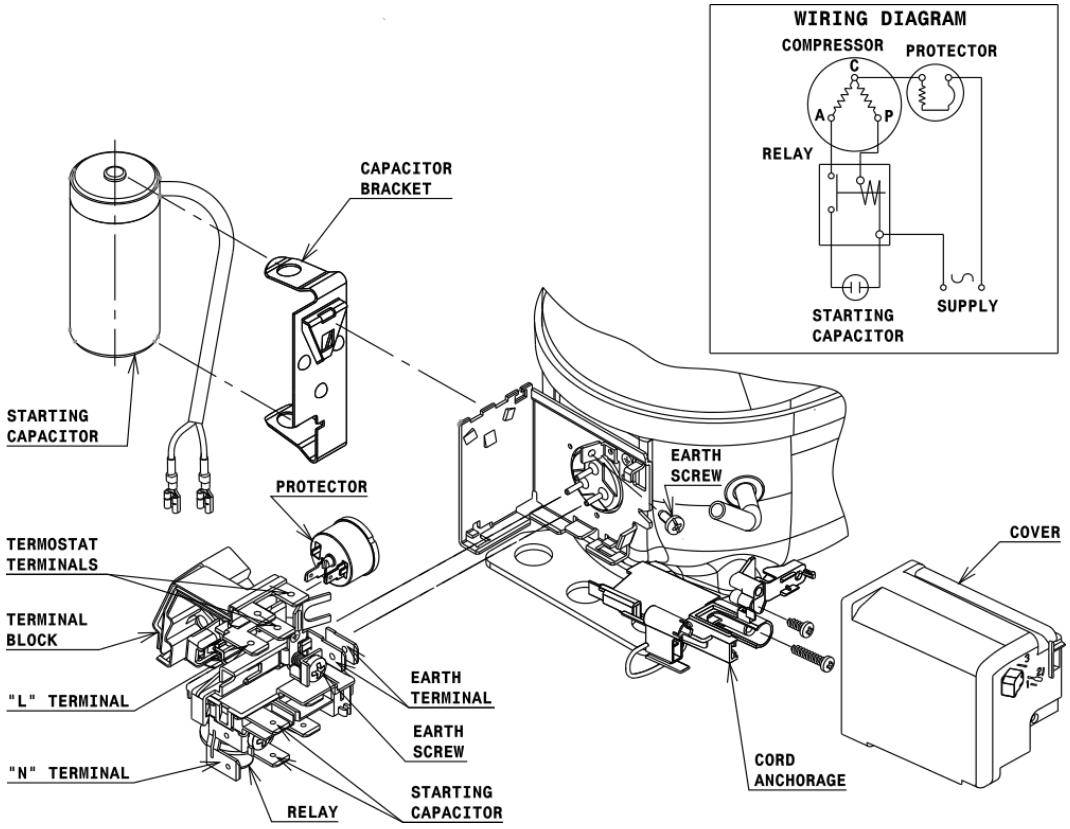




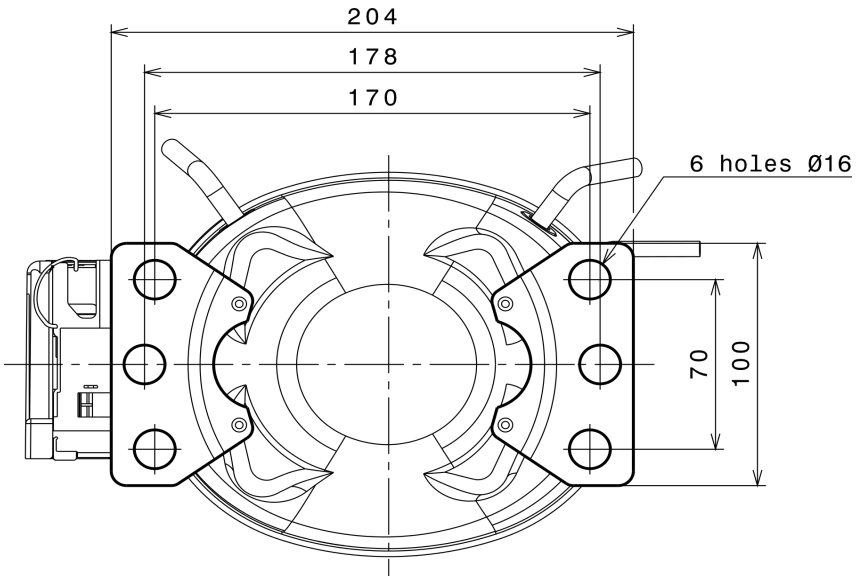
	DESIGNATION	INTERNAL DIAM.
1	Service	6,2 mm
2	Suction	6,2 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



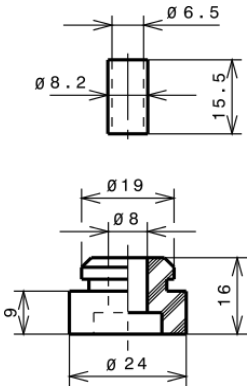
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

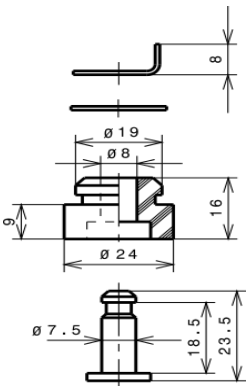
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R290 LBP