

Technical Data Sheet

Compressor model **NUT55LRa**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R290**

APPLICATION

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

COMPRESSOR

Displacement 5,50 cm³
 Diameter 21,99 mm
 Stroke 14,50 mm
 Net Weight 9,47 Kg
 Oil type ISO VG 15 ESTER
 Oil charge 200 cm³

MOTOR

Nominal Power 1/5 hp
 Voltage/Frequency 115-127V 60Hz
 Voltage range 98-140 V
 Type CSIR
 Phase number 1 PH
 Locked Rotor Amps (LRA) 19,00 A
 Max. Cont. Current (MCC) 3,50 A
 Main W. resist. at 25°C 3,70 Ω
 Start W. resist. at 25°C 3,45 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	280 kCal/h	243 W
COP	1,60 W/W	1,24 W/W
EER	1,37 kCal/Wh	1,07 kCal/Wh
Input Power	204 W	196 W
Current	2,31 A	2,25 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	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	250 µF 160 V			
Relay	Option 1	Option 2		
Reference	2014 149.	QLZ-7.8A		
Pick-Up	7,80 A	A		
Drop-Out	6,65 A	A		
Protector	Option 1	Option 2		
Reference	T1086	B135-115		
Current	13,50 A			
Time check	6,0-16 seg			
Disc temp. (Open/Close)	105,00 / 52,00 °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	137	129	1,78	1,24	1,06
40	-35	176	143	1,88	1,43	1,23
40	-30	226	159	1,98	1,65	1,42
40	-25	286	176	2,11	1,89	1,62
40	-23,3	309	182	2,15	1,97	1,69
40	-20	356	195	2,24	2,12	1,83
40	-15	436	215	2,39	2,36	2,03
40	-10	526	237	2,56	2,59	2,22

45	-40	130	129	1,78	1,17	1,01
45	-35	169	146	1,89	1,35	1,16
45	-30	218	163	2,02	1,55	1,33
45	-25	277	183	2,15	1,76	1,51
45	-23,3	299	190	2,20	1,83	1,58
45	-20	346	203	2,31	1,98	1,70
45	-15	425	226	2,48	2,19	1,88
45	-10	514	249	2,66	2,40	2,06

50	-40	124	130	1,79	1,11	0,95
50	-35	161	148	1,91	1,27	1,09
50	-30	209	168	2,05	1,45	1,25
50	-25	268	189	2,20	1,64	1,41
50	-23,3	290	197	2,26	1,71	1,47
50	-20	336	212	2,37	1,84	1,58
50	-15	414	236	2,56	2,04	1,75
50	-10	502	262	2,77	2,23	1,92

55	-40	117	130	1,79	1,05	0,90
55	-35	154	151	1,93	1,19	1,02
55	-30	201	172	2,08	1,36	1,17
55	-25	258	196	2,25	1,53	1,32
55	-23,3	280	204	2,31	1,60	1,37
55	-20	325	220	2,44	1,72	1,48
55	-15	403	247	2,64	1,90	1,63
55	-10	490	274	2,87	2,08	1,79

60	-40	111	131	1,79	0,98	0,85
60	-35	147	153	1,94	1,11	0,96
60	-30	193	177	2,11	1,27	1,09
60	-25	249	202	2,30	1,43	1,23
60	-23,3	270	211	2,36	1,49	1,28
60	-20	315	229	2,50	1,60	1,38
60	-15	392	257	2,73	1,77	1,52
60	-10	478	287	2,98	1,94	1,67

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	148	129	1,78	1,15	0,99
40	-35	195	143	1,88	1,36	1,18
40	-30	252	159	1,98	1,58	1,37
40	-25	318	176	2,11	1,80	1,56
40	-23,3	342	182	2,15	1,88	1,62
40	-20	393	195	2,24	2,01	1,74
40	-15	477	215	2,39	2,22	1,92
40	-10	571	237	2,56	2,42	2,09

45	-40	135	129	1,78	1,05	0,91
45	-35	178	146	1,89	1,23	1,06
45	-30	231	163	2,02	1,41	1,22
45	-25	293	183	2,15	1,60	1,38
45	-23,3	316	190	2,20	1,67	1,44
45	-20	364	203	2,31	1,79	1,54
45	-15	444	226	2,48	1,97	1,70
45	-10	534	249	2,66	2,14	1,85

50	-40	123	130	1,79	0,95	0,82
50	-35	162	148	1,91	1,09	0,94
50	-30	210	168	2,05	1,25	1,08
50	-25	268	189	2,20	1,42	1,22
50	-23,3	290	197	2,26	1,47	1,27
50	-20	335	212	2,37	1,58	1,36
50	-15	411	236	2,56	1,74	1,50
50	-10	497	262	2,77	1,90	1,64

55	-40	110	130	1,79	0,85	0,73
55	-35	145	151	1,93	0,96	0,83
55	-30	189	172	2,08	1,10	0,95
55	-25	243	196	2,25	1,24	1,07
55	-23,3	263	204	2,31	1,29	1,11
55	-20	306	220	2,44	1,39	1,20
55	-15	378	247	2,64	1,53	1,32
55	-10	460	274	2,87	1,68	1,45

60	-40	98	131	1,79	0,75	0,65
60	-35	128	153	1,94	0,84	0,73
60	-30	169	177	2,11	0,95	0,82
60	-25	218	202	2,30	1,08	0,93
60	-23,3	237	211	2,36	1,12	0,97
60	-20	277	229	2,50	1,21	1,04
60	-15	345	257	2,73	1,34	1,16
60	-10	422	287	2,98	1,47	1,27

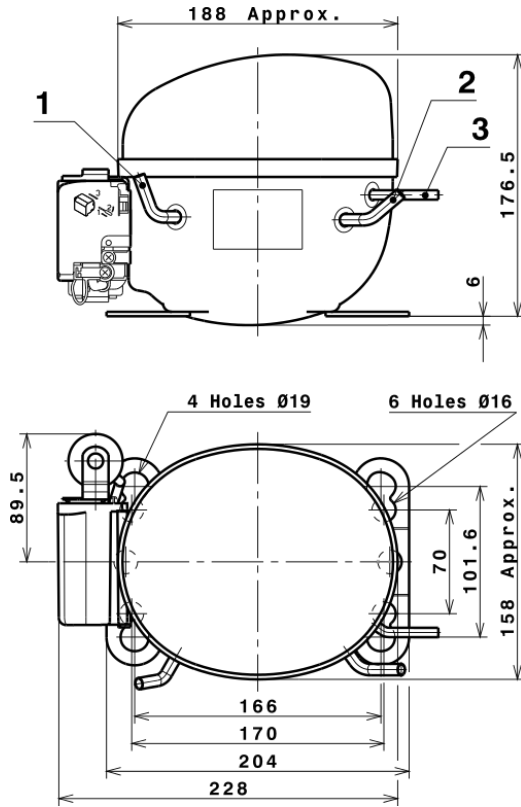
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.145,8806559718	155,8004409885	1,8916800524	10,68506356244
2	29,7642677069	1,8851940330	0,0185090729	0,31603385158454
3	-9,3359843073	3,3816667244	0,0284393411	-0,034891958372041
4	0,1818292124	0,0292533211	0,0003876704	0,0026622901674428
5	-0,1700823416	0,0819874915	0,0006942327	-0,00047477111044831

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

COMPRESSOR DIMENSIONS

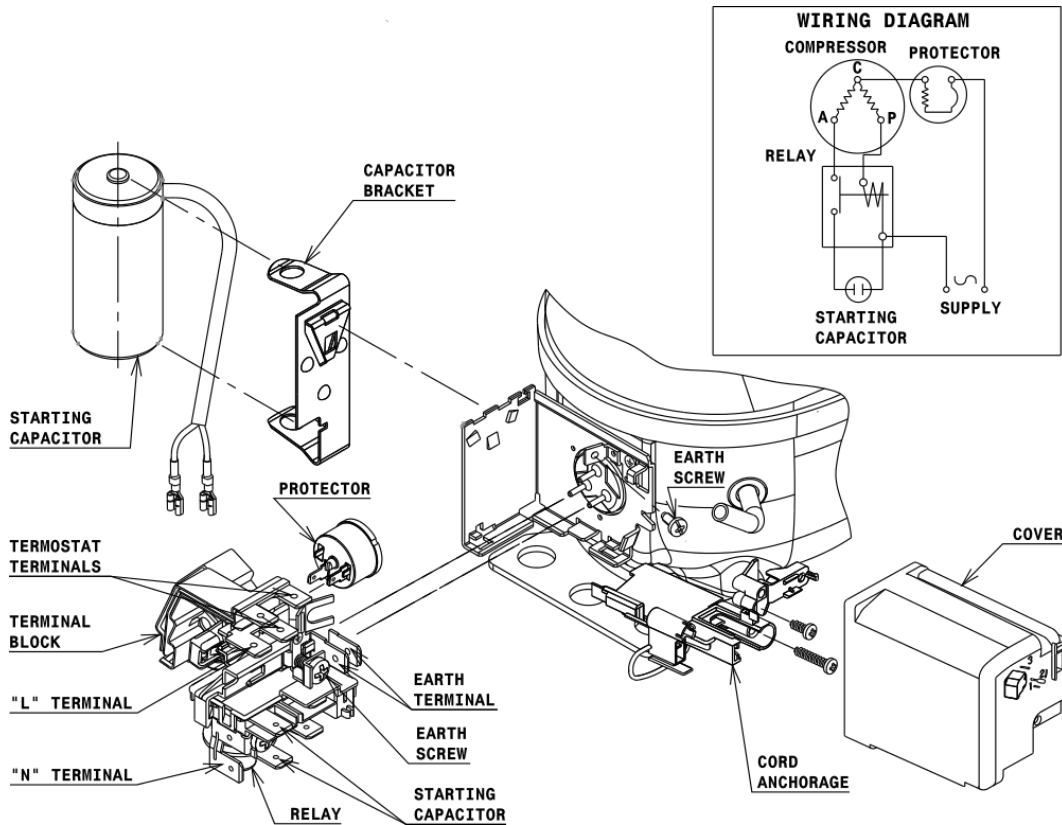


DESIGNATION INTERNAL DIAM.

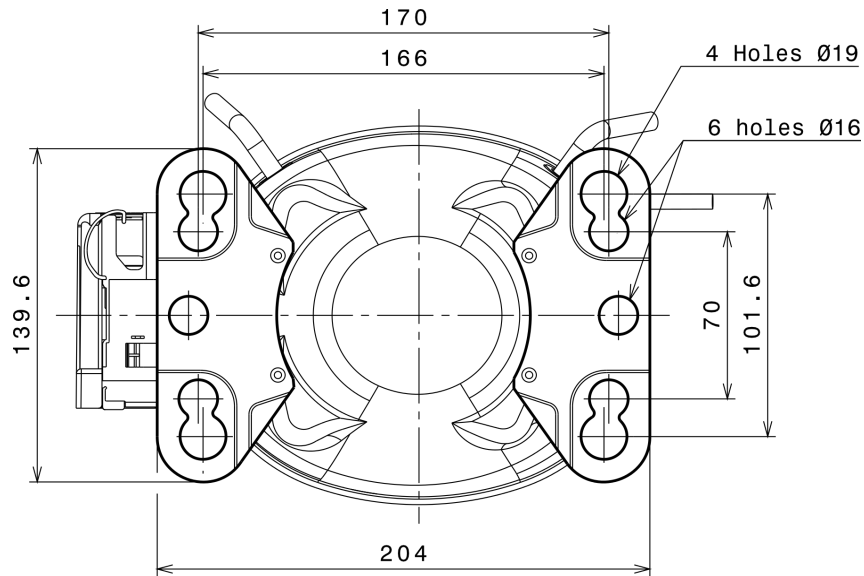
DESIGNATION	INTERNAL DIAM.
1 Service	6,2 mm
2 Suction	6,2 mm
3 Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



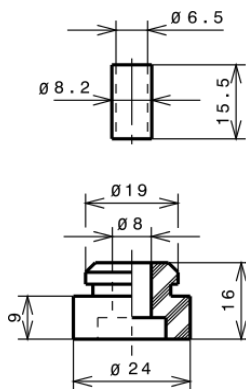
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



AMERICAN FEET

$\varnothing 19$ holes (166x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA