

Technical Data Sheet

Compressor model **NUF70NA**
Voltage **220-240V 50Hz ~1**
Refrigerant **R290**
Compressor status

APPLICATION		COMPRESSOR	MOTOR
Application	Low-Medium Back Pressure	Displacement 6,70 cm ³	Voltage/Frequency 220V 50Hz
Refrigerant	R290	Diameter 21,99 mm	Voltage range 187-255 V
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke 17,50 mm	Type RSCR
Expansion	Capillar	Net Weight 9,60 Kg	Phase number 1 PH
Comp. Cooling	Fan cooled	Oil type ISO VG 10 ESTER	Max. Cont. Current (MCC) 8,00 A
Max. ambient temp.	43,0 °C	Oil charge 180 cm ³	Main W. resist. at 25°C 10,30 Ω
		HP 1/5 hp	Main W. resist. at 25°C 10,30 Ω
			Start W. resist. at 25°C 15,50 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	282 kCal/h	244 W
COP	1,83 W/W	1,33 W/W
EER	1,58 kCal/Wh	1,15 kCal/Wh
Input Power	179 W	183 W
Current	0,83 A	1,57 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE LMBP (B)	CECOMAF LMBP (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	6 µF			
Relay	Option 1			
Reference	QPE2-A15MD3			
Voltage				
Resistance				
Protector	Option 1			
Reference	DRB26V69BX			
Current				
Time check				
Disc temp. (Open/Close)				

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	136	23	-78,48	7,00	6,02
40	-35	176	3	-95,40	76,61	65,87
40	-30	228	-4	-101,55	-64,38	-55,36
40	-25	291	2	-95,92	161,78	139,10
40	-23,3	315	7	-91,42	51,11	43,94
40	-20	365	21	-79,43	19,92	17,13
40	-15	451	54	-55,06	9,78	8,41
40	-10	547	99	-27,75	6,43	5,53
40	-5	654	157	-4,46	4,84	4,16
40	0	773	229	5,88	3,93	3,38

45	-40	129	109	-22,75	1,38	1,18
45	-35	168	80	-37,91	2,44	2,10
45	-30	219	65	-47,51	3,93	3,38
45	-25	281	62	-49,16	5,24	4,50
45	-23,3	304	64	-47,78	5,49	4,72
45	-20	353	73	-42,48	5,64	4,85
45	-15	437	96	-29,07	5,28	4,54
45	-10	532	133	-12,54	4,66	4,00
45	-5	638	182	1,49	4,07	3,50
45	0	755	245	5,43	3,58	3,08

50	-40	123	196	3,58	0,73	0,63
50	-35	161	158	-4,17	1,18	1,02
50	-30	210	134	-12,17	1,82	1,57
50	-25	270	123	-16,66	2,56	2,20
50	-23,3	293	122	-17,03	2,80	2,41
50	-20	341	124	-15,94	3,19	2,75
50	-15	424	139	-10,25	3,54	3,05
50	-10	517	167	-1,88	3,61	3,10
50	-5	622	208	4,93	3,48	2,99
50	0	738	262	3,90	3,28	2,82

55	-40	116	282	0,52	0,48	0,41
55	-35	153	236	5,81	0,75	0,65
55	-30	201	203	4,47	1,15	0,99
55	-25	259	183	1,57	1,65	1,42
55	-23,3	282	179	0,83	1,83	1,58
55	-20	329	176	0,18	2,18	1,87
55	-15	410	182	1,38	2,63	2,26
55	-10	503	201	4,25	2,91	2,50
55	-5	606	233	5,87	3,02	2,60
55	0	720	278	1,31	3,01	2,59

60	-40	110	369	-31,94	0,35	0,30
60	-35	145	314	-7,96	0,54	0,46
60	-30	191	272	2,40	0,82	0,70
60	-25	249	243	5,54	1,19	1,02
60	-23,3	271	236	5,80	1,33	1,15
60	-20	317	227	5,88	1,62	1,40
60	-15	397	225	5,83	2,06	1,77
60	-10	488	235	5,83	2,42	2,08
60	-5	590	258	4,30	2,66	2,28
60	0	703	295	-2,35	2,77	2,39

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	147	23	-78,48	6,53	5,64
40	-35	197	3	-95,40	73,73	63,71
40	-30	258	-4	-101,55	-62,61	-54,10
40	-25	329	2	-95,92	157,23	135,85
40	-23,3	356	7	-91,42	49,59	42,85
40	-20	411	21	-79,43	19,25	16,63
40	-15	502	54	-55,06	9,37	8,10
40	-10	604	99	-27,75	6,11	5,28
40	-5	716	157	-4,46	4,56	3,94
40	0	838	229	5,88	3,67	3,17

45	-40	134	109	-22,75	1,23	1,06
45	-35	180	80	-37,91	2,23	1,93
45	-30	235	65	-47,51	3,62	3,13
45	-25	301	62	-49,16	4,83	4,17
45	-23,3	326	64	-47,78	5,05	4,36
45	-20	377	73	-42,48	5,17	4,47
45	-15	463	96	-29,07	4,81	4,15
45	-10	560	133	-12,54	4,21	3,64
45	-5	666	182	1,49	3,65	3,16
45	0	783	245	5,43	3,20	2,76

50	-40	122	196	3,58	0,62	0,54
50	-35	162	158	-4,17	1,02	0,88
50	-30	212	134	-12,17	1,58	1,37
50	-25	272	123	-16,66	2,22	1,92
50	-23,3	295	122	-17,03	2,43	2,10
50	-20	343	124	-15,94	2,76	2,38
50	-15	424	139	-10,25	3,05	2,63
50	-10	515	167	-1,88	3,09	2,67
50	-5	617	208	4,93	2,97	2,57
50	0	728	262	3,90	2,79	2,41

55	-40	109	282	0,52	0,39	0,33
55	-35	144	236	5,81	0,61	0,53
55	-30	189	203	4,47	0,93	0,80
55	-25	244	183	1,57	1,33	1,15
55	-23,3	265	179	0,83	1,48	1,28
55	-20	309	176	0,18	1,76	1,52
55	-15	385	182	1,38	2,12	1,83
55	-10	471	201	4,25	2,34	2,03
55	-5	567	233	5,87	2,43	2,10
55	0	673	278	1,31	2,42	2,09

60	-40	97	369	-31,94	0,26	0,23
60	-35	126	314	-7,96	0,40	0,35
60	-30	166	272	2,40	0,61	0,53
60	-25	216	243	5,54	0,89	0,77
60	-23,3	235	236	5,80	0,99	0,86
60	-20	276	227	5,88	1,21	1,05
60	-15	346	225	5,83	1,54	1,33
60	-10	427	235	5,83	1,82	1,57
60	-5	517	258	4,30	2,00	1,73
60	0	618	295	-2,35	2,10	1,81

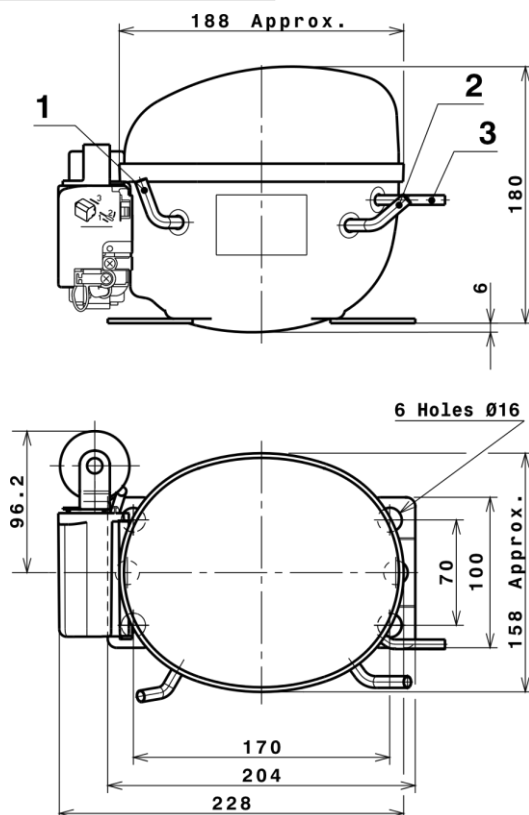
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.276,9324922566	99,0853449466	28,1787808340	11,604254236326
2	33,8030471197	30,2572555907	3,3655250986	0,35250327980614
3	-11,3087491816	3,3884107598	-0,5161854177	-0,044634370070298
4	0,1999645340	0,2669977447	-0,0055891818	0,0029918924348945
5	-0,2196600178	-0,3571622787	-0,0649848983	-0,00071833629127306

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

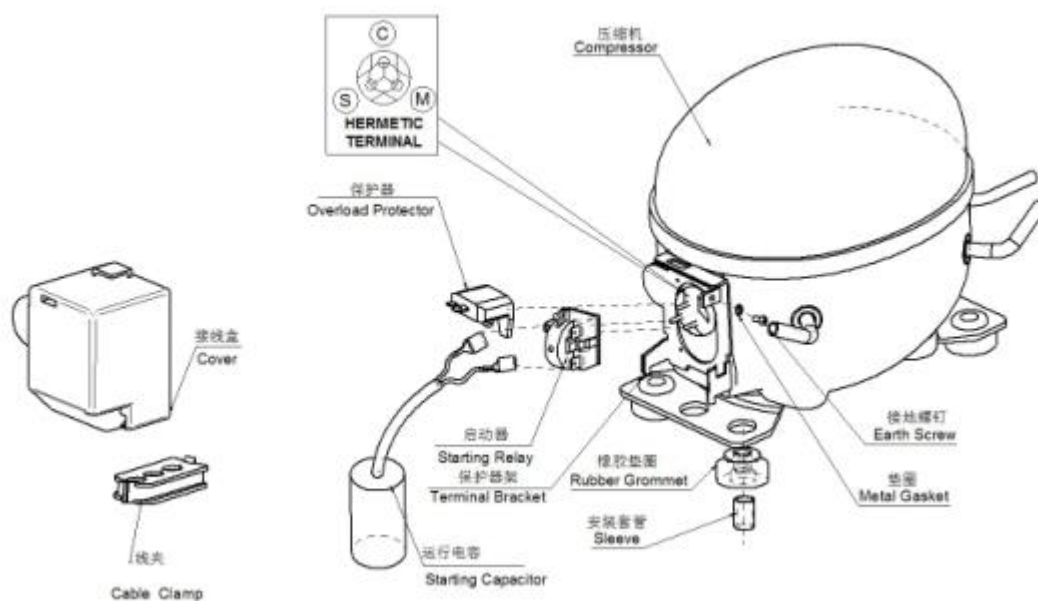
COMPRESSOR DIMENSIONS



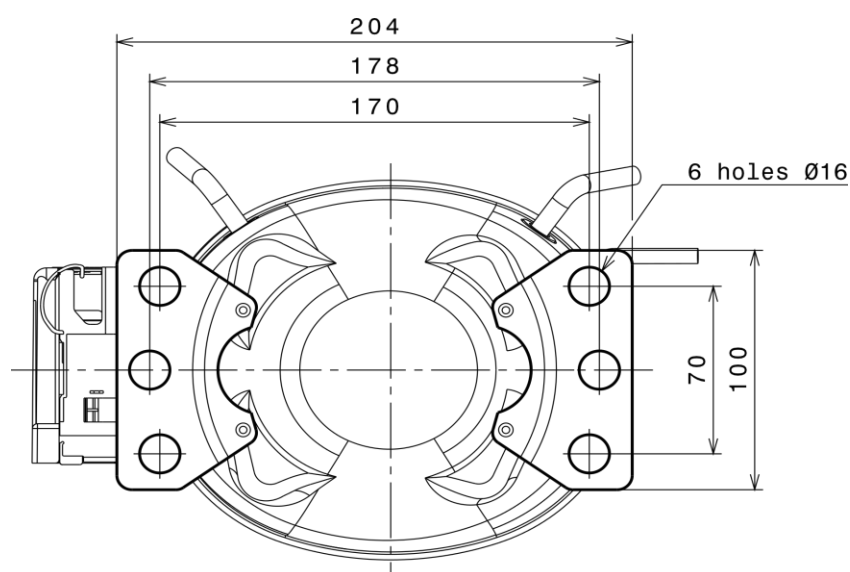
DESIGNATION	INTERNAL DIAM.
1 Service	6,2 mm
2 Suction	6,2 mm
3 Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSCR CONNECTION (U range)



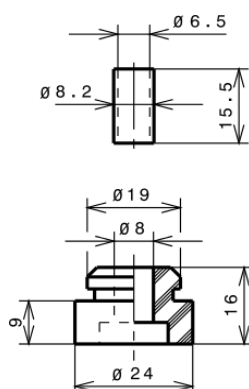
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø16 holes (170x70 net)



SOA

SOA R290 LMBP

