

Technical Data Sheet

Compressor model **NUF45NA**
Voltage **220-240V 50Hz ~1**
Refrigerant **R290**
Compressor status

APPLICATION		COMPRESSOR		MOTOR	
Application	Low-Medium Back Pressure	Displacement	4,50 cm ³	Voltage/Frequency	220-240V 50Hz
Refrigerant	R290	Diameter	18,99 mm	Voltage range	187-254 V
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke	16,00 mm	Type	RSCR
Expansion	Capillar	Net Weight	9,00 Kg	Phase number	1 PH
Comp. Cooling	Static/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	16,71 Ω
		HP	1/8 hp	Main W. resist. at 25°C	16,71 Ω
				Start W. resist. at 25°C	19,90 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	193 kCal/h	175 W
COP	1,78 W/W	1,45 W/W
EER	1,53 kCal/Wh	1,25 kCal/Wh
Input Power	126 W	121 W
Current	0,69 A	0,67 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	4 µF			
Relay	Option 1			
Reference	QPE2-A15MD3			
Voltage				
Resistance				
Protector	Option 1			
Reference	DRB26R61AX			
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	88	85	0,50	1,21	1,04
40	-35	193	94	0,55	2,38	2,05
40	-30	287	104	0,59	3,21	2,76
40	-25	372	114	0,64	3,79	3,26
40	-23,3	398	117	0,65	3,94	3,39
40	-20	446	124	0,68	4,18	3,60
40	-15	510	134	0,73	4,42	3,80
40	-10	564	144	0,77	4,55	3,91
40	-5	608	155	0,82	4,57	3,93
40	0	642	165	0,87	4,52	3,89

45	-40	85	83	0,49	1,19	1,02
45	-35	170	94	0,54	2,10	1,81
45	-30	245	105	0,59	2,71	2,33
45	-25	310	116	0,65	3,10	2,66
45	-23,3	330	120	0,66	3,19	2,74
45	-20	365	128	0,70	3,32	2,86
45	-15	409	139	0,75	3,42	2,94
45	-10	444	151	0,80	3,42	2,94
45	-5	468	162	0,86	3,35	2,88
45	0	482	174	0,91	3,22	2,77

50	-40	82	82	0,49	1,17	1,01
50	-35	148	94	0,54	1,83	1,57
50	-30	203	106	0,60	2,22	1,91
50	-25	248	119	0,66	2,43	2,09
50	-23,3	261	123	0,68	2,47	2,12
50	-20	283	131	0,71	2,51	2,16
50	-15	308	144	0,77	2,49	2,14
50	-10	323	157	0,83	2,39	2,06
50	-5	328	170	0,89	2,24	1,93
50	0	323	183	0,95	2,05	1,76

55	-40	79	80	0,48	1,15	0,99
55	-35	125	94	0,54	1,55	1,33
55	-30	161	107	0,61	1,74	1,50
55	-25	187	121	0,67	1,79	1,54
55	-23,3	193	126	0,69	1,78	1,53
55	-20	202	135	0,73	1,74	1,49
55	-15	208	149	0,80	1,62	1,39
55	-10	203	163	0,86	1,44	1,24
55	-5	188	178	0,92	1,23	1,06
55	0	163	192	0,99	0,99	0,85

60	-40	76	79	0,47	1,13	0,97
60	-35	102	93	0,54	1,27	1,10
60	-30	119	109	0,61	1,27	1,09
60	-25	125	124	0,68	1,17	1,01
60	-23,3	125	129	0,70	1,12	0,97
60	-20	121	139	0,75	1,01	0,87
60	-15	107	154	0,82	0,80	0,69
60	-10	82	170	0,89	0,56	0,49
60	-5	48	185	0,96	0,30	0,26
60	0	4	201	1,03	0,02	0,02

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	96	85	0,50	1,13	0,98
40	-35	201	94	0,55	2,14	1,85
40	-30	298	104	0,59	2,86	2,47
40	-25	384	114	0,64	3,37	2,91
40	-23,3	411	117	0,65	3,51	3,03
40	-20	461	124	0,68	3,72	3,21
40	-15	529	134	0,73	3,94	3,41
40	-10	587	144	0,77	4,07	3,51
40	-5	635	155	0,82	4,11	3,55
40	0	674	165	0,87	4,08	3,53

45	-40	88	83	0,49	1,07	0,92
45	-35	173	94	0,54	1,84	1,59
45	-30	249	105	0,59	2,37	2,04
45	-25	315	116	0,65	2,70	2,34
45	-23,3	335	120	0,66	2,78	2,41
45	-20	371	128	0,70	2,90	2,51
45	-15	417	139	0,75	3,00	2,59
45	-10	455	151	0,80	3,02	2,61
45	-5	482	162	0,86	2,97	2,57
45	0	500	174	0,91	2,87	2,48

50	-40	81	82	0,49	1,00	0,86
50	-35	146	94	0,54	1,55	1,34
50	-30	200	106	0,60	1,88	1,63
50	-25	245	119	0,66	2,06	1,78
50	-23,3	258	123	0,68	2,10	1,81
50	-20	280	131	0,71	2,13	1,84
50	-15	306	144	0,77	2,12	1,83
50	-10	322	157	0,83	2,05	1,77
50	-5	329	170	0,89	1,94	1,67
50	0	326	183	0,95	1,78	1,54

55	-40	74	80	0,48	0,93	0,80
55	-35	118	94	0,54	1,26	1,09
55	-30	151	107	0,61	1,41	1,22
55	-25	175	121	0,67	1,45	1,25
55	-23,3	181	126	0,69	1,44	1,24
55	-20	190	135	0,73	1,40	1,21
55	-15	195	149	0,80	1,31	1,13
55	-10	190	163	0,86	1,16	1,01
55	-5	176	178	0,92	0,99	0,86
55	0	152	192	0,99	0,79	0,69

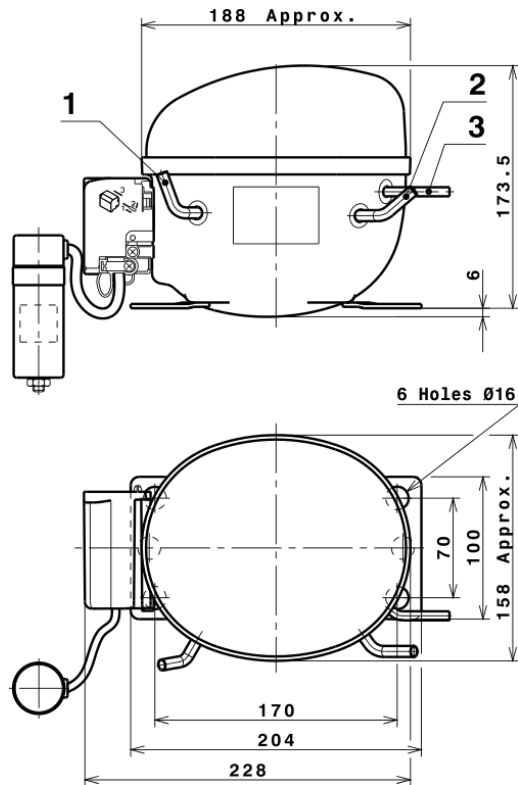
60	-40	67	79	0,47	0,86	0,74
60	-35	90	93	0,54	0,96	0,83
60	-30	103	109	0,61	0,95	0,82
60	-25	106	124	0,68	0,86	0,74
60	-23,3	105	129	0,70	0,81	0,70
60	-20	100	139	0,75	0,72	0,62
60	-15	84	154	0,82	0,54	0,47
60	-10	58	170	0,89	0,34	0,30
60	-5	23	185	0,96	0,13	0,11
60	0	-21	201	1,03	-0,11	-0,09

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	2.029,5508970921	95,4915759589	0,5522976265	24,372093230788
2	39,5492889465	0,0279745231	0,0001040768	0,47685702380089
3	-34,2050400526	1,8482240508	0,0083821665	-0,40546870740724
4	-0,1855381223	0,0026366380	0,0000105433	-0,0024557162610065
5	-0,8194387879	0,0538681310	0,0002445886	-0,0099531210841946

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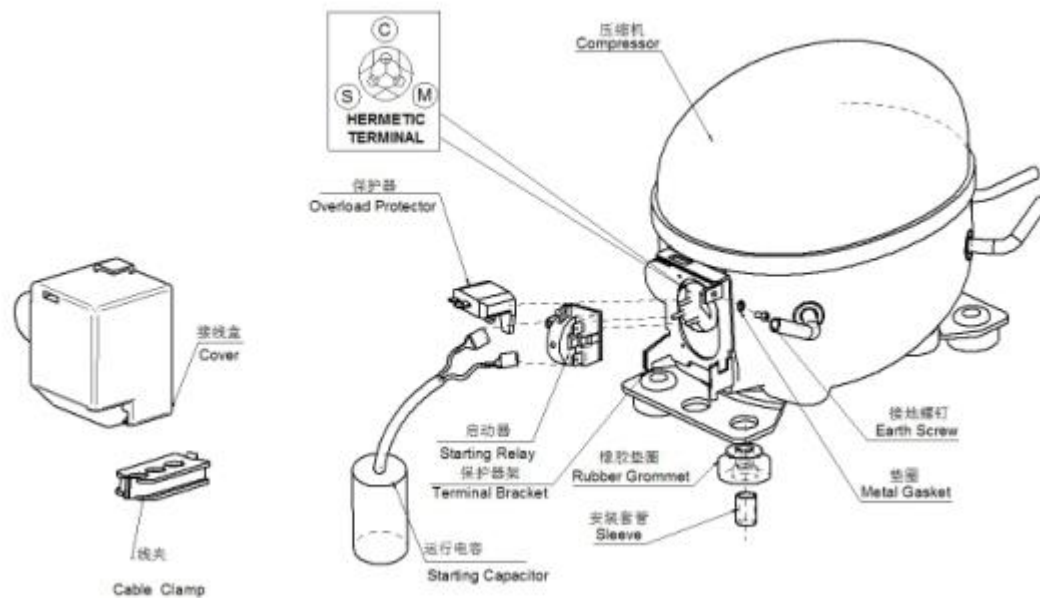
COMPRESSOR DIMENSIONS



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

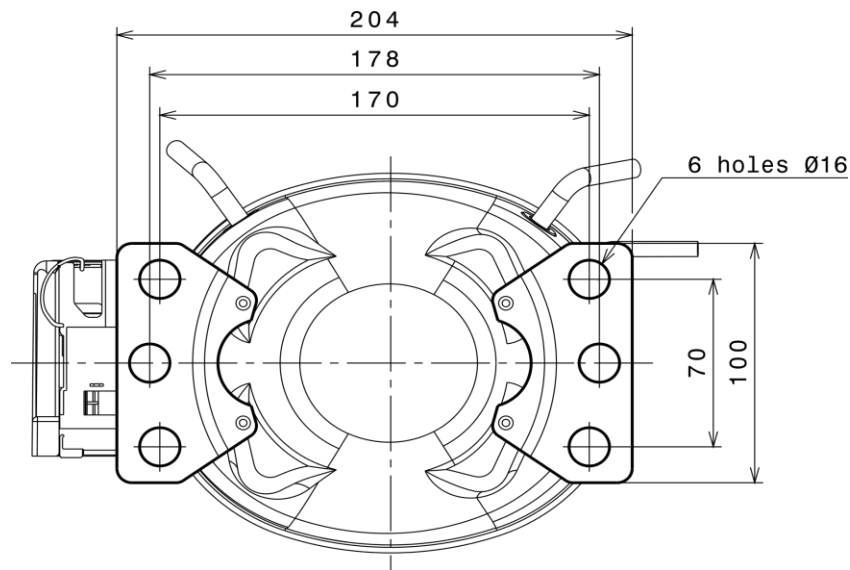
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSCR CONNECTION (U range)



Technical Data Sheet

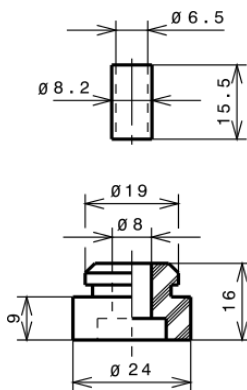
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

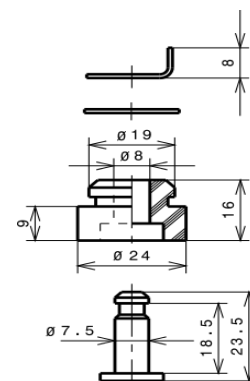
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R290 LMBP

