

Technical Data Sheet

Compressor model **NUF80NA**
Voltage **220-240V 50Hz ~1**
Refrigerant **R290**
Compressor status

APPLICATION		COMPRESSOR		MOTOR	
Application	Low-Medium Back Pressure	Displacement	8,10 cm ³	Voltage/Frequency	220-240V 50Hz
Refrigerant	R290	Diameter	0,00 mm	Voltage range	187-255 V
Evaporating Temp.	-40,0 °C to 0,0 °C	Stroke	0,00 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. ambient temp.	43,0 °C	Oil charge	180 cm ³	Main W. resist. at 25°C	8,05 Ω
		HP	1/4 hp	Start W. resist. at 25°C	14,90 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	341 kCal/h	296 W
COP	1,84 W/W	1,43 W/W
EER	1,58 kCal/Wh	1,23 kCal/Wh
Input Power	216 W	208 W
Current	1,01 A	0,97 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			
Pick-Up				
Drop-Out				
Protector	Option 1	Option 1		
Reference	DRB261R61A2	BT73-130		
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	167	135	0,65	1,44	1,24
40	-35	209	152	0,72	1,60	1,38
40	-30	264	169	0,80	1,82	1,56
40	-25	331	186	0,88	2,07	1,78
40	-23,3	357	192	0,90	2,16	1,86
40	-20	410	203	0,95	2,35	2,02
40	-15	502	219	1,02	2,66	2,29
40	-10	605	235	1,10	2,99	2,57
40	-5	721	251	1,17	3,34	2,87
40	0	849	267	1,24	3,70	3,18

45	-40	159	134	0,64	1,38	1,19
45	-35	202	154	0,73	1,53	1,31
45	-30	258	174	0,82	1,73	1,48
45	-25	326	193	0,91	1,96	1,68
45	-23,3	351	200	0,94	2,04	1,76
45	-20	406	213	0,99	2,22	1,91
45	-15	498	232	1,08	2,50	2,15
45	-10	602	250	1,16	2,80	2,40
45	-5	718	269	1,24	3,11	2,67
45	0	847	287	1,32	3,43	2,95

50	-40	152	134	0,64	1,32	1,13
50	-35	196	156	0,74	1,46	1,25
50	-30	252	178	0,84	1,64	1,41
50	-25	320	200	0,94	1,86	1,60
50	-23,3	346	208	0,97	1,94	1,66
50	-20	401	222	1,04	2,10	1,80
50	-15	494	244	1,13	2,35	2,02
50	-10	599	265	1,23	2,63	2,26
50	-5	716	286	1,32	2,91	2,50
50	0	845	307	1,41	3,20	2,75

55	-40	144	133	0,64	1,26	1,08
55	-35	189	158	0,75	1,39	1,19
55	-30	246	183	0,86	1,56	1,34
55	-25	315	208	0,97	1,76	1,52
55	-23,3	341	216	1,01	1,84	1,58
55	-20	396	232	1,08	1,98	1,71
55	-15	489	256	1,19	2,22	1,91
55	-10	595	280	1,29	2,47	2,13
55	-5	713	304	1,40	2,73	2,35
55	0	843	327	1,50	3,00	2,58

60	-40	137	133	0,64	1,20	1,03
60	-35	182	160	0,76	1,32	1,14
60	-30	240	188	0,88	1,48	1,28
60	-25	309	215	1,00	1,67	1,44
60	-23,3	336	224	1,05	1,74	1,50
60	-20	391	242	1,12	1,88	1,62
60	-15	485	268	1,24	2,10	1,81
60	-10	592	295	1,36	2,33	2,01
60	-5	710	321	1,47	2,57	2,21
60	0	841	347	1,59	2,82	2,42

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-40	180	135	0,65	1,34	1,16
40	-35	234	152	0,72	1,54	1,33
40	-30	299	169	0,80	1,77	1,53
40	-25	375	186	0,88	2,01	1,74
40	-23,3	403	192	0,90	2,10	1,82
40	-20	462	203	0,95	2,28	1,97
40	-15	561	219	1,02	2,56	2,21
40	-10	670	235	1,10	2,85	2,46
40	-5	792	251	1,17	3,15	2,72
40	0	924	267	1,24	3,46	2,99

45	-40	166	134	0,64	1,24	1,07
45	-35	215	154	0,73	1,40	1,21
45	-30	276	174	0,82	1,59	1,37
45	-25	349	193	0,91	1,80	1,56
45	-23,3	376	200	0,94	1,88	1,62
45	-20	432	213	0,99	2,03	1,76
45	-15	527	232	1,08	2,28	1,97
45	-10	633	250	1,16	2,53	2,18
45	-5	750	269	1,24	2,79	2,41
45	0	879	287	1,32	3,06	2,65

50	-40	151	134	0,64	1,13	0,97
50	-35	197	156	0,74	1,26	1,09
50	-30	254	178	0,84	1,42	1,23
50	-25	322	200	0,94	1,61	1,39
50	-23,3	348	208	0,97	1,67	1,45
50	-20	402	222	1,04	1,81	1,56
50	-15	493	244	1,13	2,02	1,75
50	-10	595	265	1,23	2,24	1,94
50	-5	709	286	1,32	2,48	2,14
50	0	834	307	1,41	2,72	2,35

55	-40	136	133	0,64	1,02	0,88
55	-35	178	158	0,75	1,12	0,97
55	-30	231	183	0,86	1,26	1,09
55	-25	296	208	0,97	1,43	1,23
55	-23,3	321	216	1,01	1,48	1,28
55	-20	372	232	1,08	1,60	1,39
55	-15	459	256	1,19	1,79	1,55
55	-10	558	280	1,29	1,99	1,72
55	-5	667	304	1,40	2,20	1,90
55	0	788	327	1,50	2,41	2,08

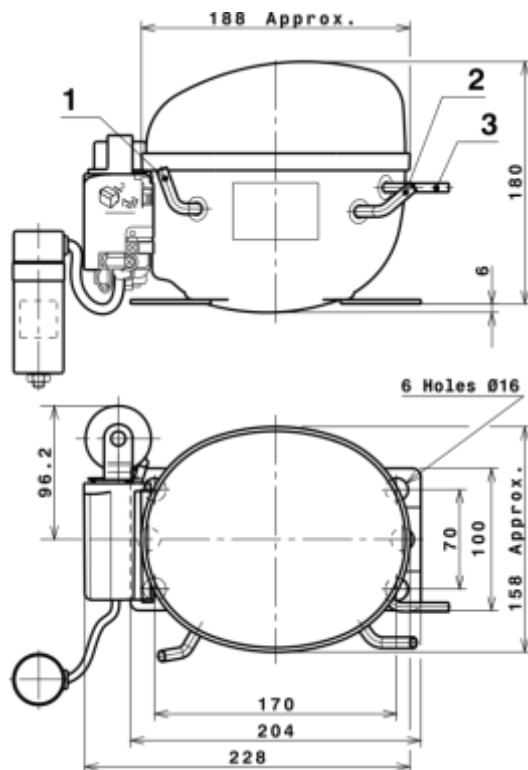
60	-40	121	133	0,64	0,91	0,79
60	-35	159	160	0,76	0,99	0,86
60	-30	209	188	0,88	1,11	0,96
60	-25	270	215	1,00	1,26	1,08
60	-23,3	293	224	1,05	1,31	1,13
60	-20	342	242	1,12	1,41	1,22
60	-15	425	268	1,24	1,58	1,37
60	-10	520	295	1,36	1,76	1,52
60	-5	626	321	1,47	1,95	1,68
60	0	743	347	1,59	2,14	1,85

EN12900				
X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.288,1772626416	109,8666519097	0,5456696126	11,001711264374
2	33,5650053434	-0,9579534998	-0,0042743419	0,33821788241238
3	-9,4788811600	4,1071645574	0,0180503446	-0,0052605645817193
4	0,2199297731	-0,0041771310	-0,0000241238	0,0033092177734412
5	-0,1615866555	0,1052332905	0,0004626883	0,00032721586021744

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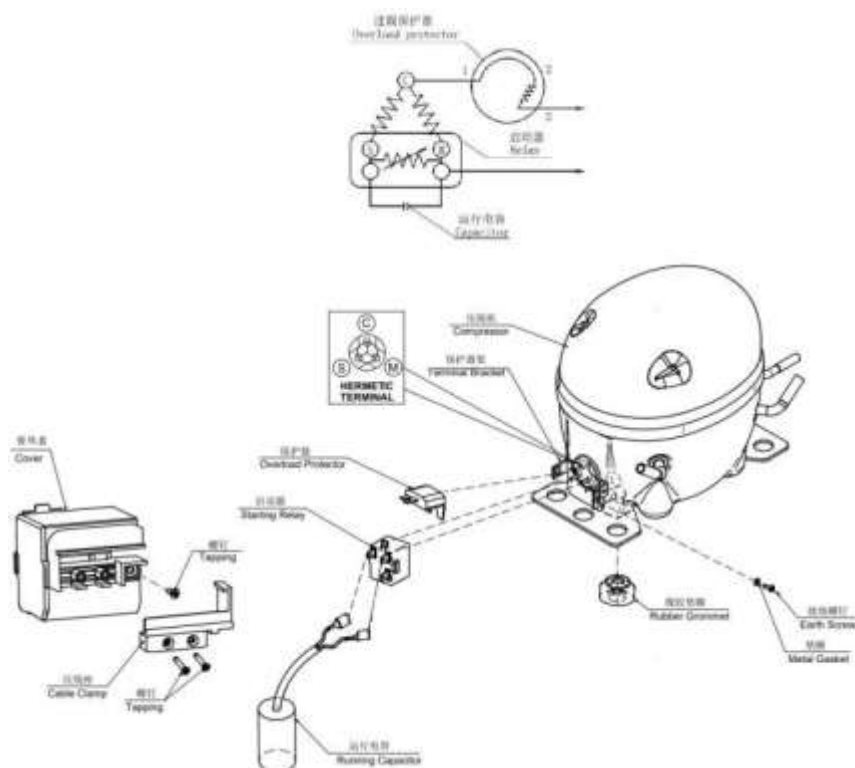
COMPRESSOR DIMENSIONS

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



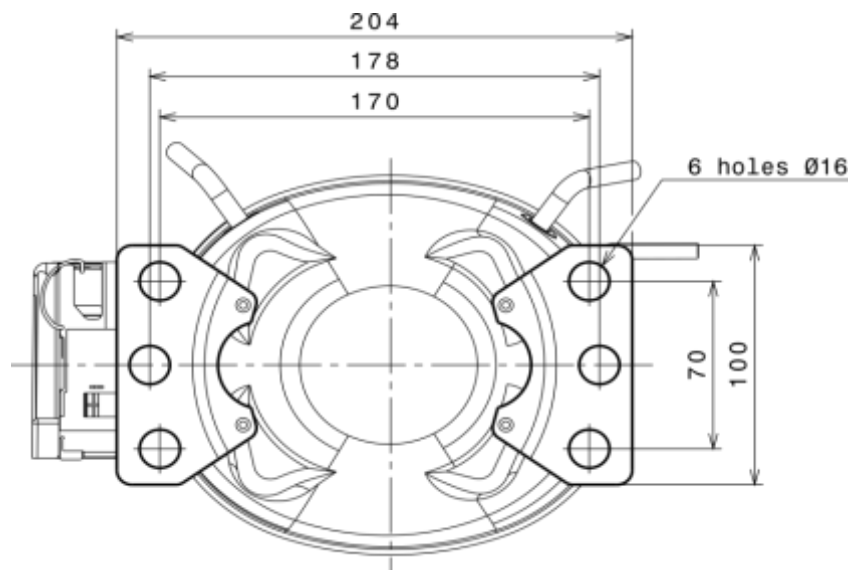
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSCR CONNECTION (U range)



Technical Data Sheet

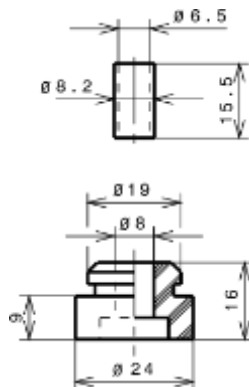
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

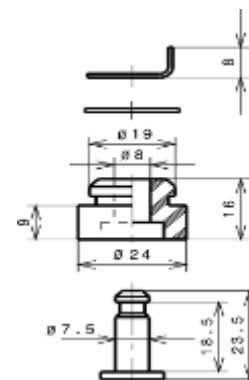
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R290 LMBP

