

Technical Data Sheet

Compressor model **GPY14NGb**
 Voltage **200-220/220-230V 50/60Hz ~1**
 Refrigerant **R134a**

APPLICATION		COMPRESSOR		MOTOR	
Application	Low-Medium Back Pressure	Displacement	14,32 cm ³	Nominal Power	1/3 hp
Refrigerant	R134a	Diameter	29,37 mm	Voltage/Frequency	200-220V 50Hz
Evaporating Temp.	-35,0 °C to 0,0 °C	Stroke	21,13 mm	Voltage range	170-242 V
Expansion	Capillar/Valve	Net Weight	12,69 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	400 cm ³	Locked Rotor Amps (LRA)	19,00 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	4,20 A
				Main W. resist. at 25°C	3,70 Ω
				Start W. resist. at 25°C	11,80 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	334 kCal/h	284 W
COP	1,27 W/W	0,97 W/W
EER	1,09 kCal/Wh	0,84 kCal/Wh
Input Power	306 W	293 W
Current	2,01 A	1,97 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

Starting capacitor	72- 88 μF 330 V			
Run capacitor	6 μF 400 V			
Relay	Option 1			
Reference	2014 158. + NTC15Ω			
Pick-Up	9,05 A			
Drop-Out	7,70 A			
Protector	Option 1			
Reference	T0266			
Current	11,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 52,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	181	220	1,76	0,96	0,82
40	-30	245	247	1,83	1,16	0,99
40	-25	330	276	1,92	1,39	1,19
40	-23,3	363	287	1,95	1,47	1,27
40	-20	435	308	2,02	1,64	1,41
40	-15	562	343	2,13	1,90	1,64
40	-10	709	381	2,27	2,16	1,86
40	-5	877	422	2,42	2,42	2,08
40	0	1.066	465	2,60	2,67	2,29

45	-35	173	220	1,76	0,91	0,78
45	-30	236	250	1,84	1,10	0,95
45	-25	320	282	1,93	1,32	1,14
45	-23,3	354	293	1,97	1,40	1,21
45	-20	425	316	2,04	1,56	1,34
45	-15	551	354	2,17	1,81	1,56
45	-10	698	394	2,32	2,06	1,77
45	-5	865	438	2,48	2,30	1,98
45	0	1.053	484	2,68	2,53	2,18

50	-35	164	221	1,76	0,87	0,74
50	-30	227	252	1,85	1,05	0,90
50	-25	311	287	1,95	1,26	1,08
50	-23,3	344	300	1,99	1,33	1,15
50	-20	415	325	2,07	1,49	1,28
50	-15	540	365	2,21	1,72	1,48
50	-10	686	408	2,37	1,96	1,68
50	-5	853	454	2,55	2,19	1,88
50	0	1.041	502	2,76	2,41	2,07

55	-35	156	221	1,76	0,82	0,71
55	-30	218	255	1,86	0,99	0,85
55	-25	301	293	1,97	1,20	1,03
55	-23,3	334	306	2,01	1,27	1,09
55	-20	405	333	2,10	1,41	1,22
55	-15	529	376	2,25	1,64	1,41
55	-10	675	421	2,42	1,86	1,60
55	-5	841	470	2,62	2,08	1,79
55	0	1.028	521	2,84	2,29	1,97

60	-35	148	221	1,76	0,78	0,67
60	-30	209	258	1,86	0,94	0,81
60	-25	291	298	1,99	1,14	0,98
60	-23,3	324	312	2,03	1,21	1,04
60	-20	395	341	2,13	1,35	1,16
60	-15	519	386	2,29	1,56	1,34
60	-10	663	435	2,47	1,77	1,53
60	-5	829	486	2,68	1,98	1,71
60	0	1.015	540	2,93	2,19	1,88

65	-35	139	222	1,76	0,73	0,63
65	-30	200	261	1,87	0,89	0,77
65	-25	282	304	2,00	1,08	0,93
65	-23,3	314	319	2,05	1,15	0,99
65	-20	384	349	2,15	1,28	1,10
65	-15	508	397	2,33	1,49	1,28
65	-10	652	448	2,53	1,69	1,45
65	-5	817	502	2,75	1,89	1,63
65	0	1.003	558	3,01	2,09	1,80

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	197	220	1,76	0,90	0,77
40	-30	276	247	1,83	1,12	0,97
40	-25	375	276	1,92	1,36	1,17
40	-23,3	413	287	1,95	1,44	1,24
40	-20	493	308	2,02	1,60	1,38
40	-15	630	343	2,13	1,84	1,59
40	-10	787	381	2,27	2,07	1,79
40	-5	964	422	2,42	2,29	1,98
40	0	1.160	465	2,60	2,49	2,15

45	-35	181	220	1,76	0,82	0,71
45	-30	253	250	1,84	1,01	0,88
45	-25	345	282	1,93	1,22	1,06
45	-23,3	380	293	1,97	1,30	1,12
45	-20	456	316	2,04	1,44	1,25
45	-15	587	354	2,17	1,66	1,43
45	-10	737	394	2,32	1,87	1,61
45	-5	906	438	2,48	2,07	1,79
45	0	1.095	484	2,68	2,26	1,96

50	-35	164	221	1,76	0,74	0,64
50	-30	230	252	1,85	0,91	0,79
50	-25	315	287	1,95	1,10	0,95
50	-23,3	348	300	1,99	1,16	1,00
50	-20	419	325	2,07	1,29	1,12
50	-15	543	365	2,21	1,49	1,29
50	-10	686	408	2,37	1,68	1,45
50	-5	849	454	2,55	1,87	1,62
50	0	1.031	502	2,76	2,05	1,77

55	-35	148	221	1,76	0,67	0,58
55	-30	206	255	1,86	0,81	0,70
55	-25	284	293	1,97	0,97	0,84
55	-23,3	315	306	2,01	1,03	0,89
55	-20	382	333	2,10	1,15	0,99
55	-15	499	376	2,25	1,33	1,15
55	-10	636	421	2,42	1,51	1,30
55	-5	792	470	2,62	1,69	1,46
55	0	967	521	2,84	1,86	1,60

60	-35	131	221	1,76	0,59	0,51
60	-30	183	258	1,86	0,71	0,61
60	-25	254	298	1,99	0,85	0,74
60	-23,3	283	312	2,03	0,91	0,78
60	-20	345	341	2,13	1,01	0,87
60	-15	455	386	2,29	1,18	1,02
60	-10	585	435	2,47	1,35	1,16
60	-5	734	486	2,68	1,51	1,31
60	0	903	540	2,93	1,67	1,45

65	-35	114	222	1,76	0,52	0,45
65	-30	160	261	1,87	0,61	0,53
65	-25	224	304	2,00	0,74	0,64
65	-23,3	251	319	2,05	0,79	0,68
65	-20	308	349	2,15	0,88	0,76
65	-15	412	397	2,33	1,04	0,90
65	-10	535	448	2,53	1,19	1,03
65	-5	677	502	2,75	1,35	1,17
65	0	839	558	3,01	1,50	1,30

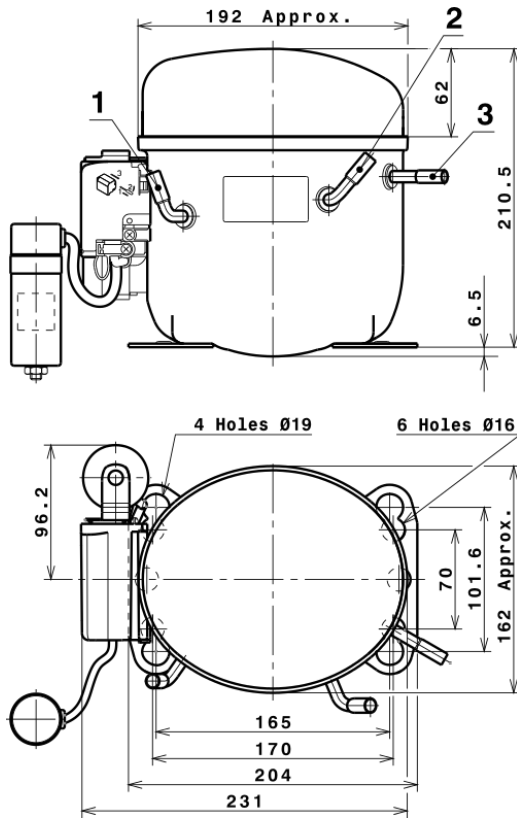
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.675,5664551314	323,8195749966	1,9691478463	28,171949478824
2	51,8345483974	4,9782298374	0,0210567748	1,0057446346254
3	-13,3148644045	3,8297563252	0,0169494424	-0,06130530964314
4	0,3805163371	0,0591225216	0,0004330690	0,010472566467082
5	-0,2848681553	0,1074758896	0,0004790033	-0,0006359024061086

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

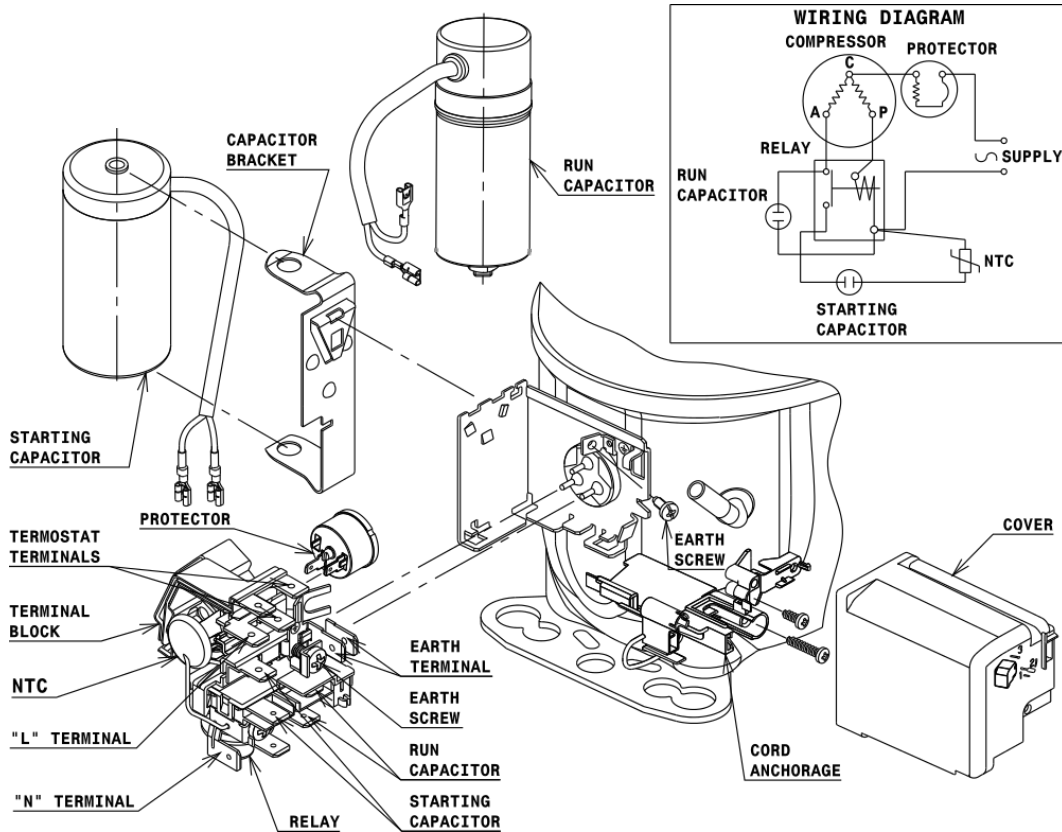
COMPRESSOR DIMENSIONS



DESIGNATION	INTERNAL DIAM.
1 Suction	8,1 mm
2 Service	8,1 mm
3 Discharge	6,5 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (L, P ranges)



FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



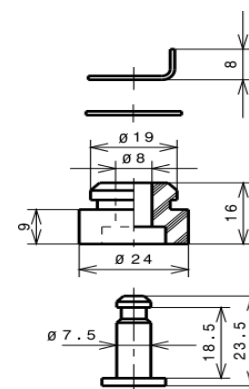
AMERICAN FEET

$\varnothing 19$ holes (165x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R134a LMBP

