Technical Data Sheet

ENGINEERING TOMORROW

Compressor model **GL70ANa**

Voltage **200-220/220-230V 50/60Hz ~1**

Refrigerant **R134a**

APPLICATION

Application	Low Back Pressure
Refrigerant	R134a
Evaporating Temp.	-35,0 ºC to -10,0 ºC
Expansion	Capillar
Comp. Cooling	Static
Max. ambient temp.	43,0 ºC
Compatible refriger.	R1234yf

COMPRESSOR

Displacement	6,65 cm³
Diameter	22,00 mm
Stroke	17,47 mm
Net Weight	9,49 Kg
Oil type	ISO VG 32 ESTER
Oil charge	340 cm³

MOTOR

Nominal Power	1/5 hp
Voltage/Frequency	220-230V 60Hz
Voltage range	187-253 V
Type	RSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	14,50 A
Max. Cont. Current (MCC)	2,50 A
Main W. resist. at 25ºC	10,20 Ω
Start W. resist. at 25ºC	14,10 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	175 kCal/h	150 W
COP	1,17 W/W	0,90 W/W
EER	1,01 kCal/Wh	0,78 kCal/Wh
Input Power	174 W	166 W
Current	1,27 A	1,24 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	LBP (B)	**LBP (A)**
Evaporating temp. (T_e)	-23,3 ºC	-25,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	32,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	32,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	32,0 ºC	32,0 ºC
Voltage/Frequency	220 V 60 Hz	220 V 60 Hz

ELECTRICAL COMPONENTS

Relay	Option 1			
Reference	PTC K100			
Voltage	200-240 V			
Resistance	14.00 Ω			
Protector	Option 1	Option 2	Option 3	
Reference	T0490	AE11FQ	4TM414NFBYY	
Current	9,40 A	10,80 A	13,00 A	
Time check	7,5-14 seg	7,5-14 seg	5-15 seg	
Disc temp. (Open/Close)	130,00 / 62,00 ºC	125,00 / 62,00 ºC	120,00 / 61,00 ºC	

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ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	103	127	1,10	0,94	0,81
40	-30	136	142	1,16	1,12	0,96
40	-25	180	160	1,22	1,31	1,12
40	-23,3	197	167	1,24	1,37	1,18
40	-20	233	181	1,29	1,50	1,29
40	-15	296	203	1,38	1,69	1,45
40	-10	369	229	1,47	1,87	1,61
45	-35	97	126	1,10	0,90	0,77
45	-30	130	143	1,16	1,06	0,91
45	-25	173	162	1,23	1,24	1,07
45	-23,3	189	169	1,25	1,30	1,12
45	-20	225	184	1,31	1,42	1,22
45	-15	288	209	1,40	1,61	1,38
45	-10	360	236	1,50	1,78	1,53
50	-35	91	124	1,09	0,85	0,73
50	-30	123	143	1,16	1,00	0,86
50	-25	166	164	1,23	1,18	1,01
50	-23,3	182	172	1,26	1,24	1,06
50	-20	218	187	1,32	1,35	1,16
50	-15	280	214	1,42	1,52	1,31
50	-10	352	242	1,52	1,69	1,45
55	-35	85	123	1,09	0,80	0,69
55	-30	117	143	1,16	0,95	0,82
55	-25	159	166	1,24	1,11	0,96
55	-23,3	175	174	1,27	1,17	1,01
55	-20	210	191	1,33	1,28	1,10
55	-15	272	219	1,43	1,44	1,24
55	-10	343	249	1,55	1,60	1,38
60	-35	79	122	1,09	0,76	0,65
60	-30	110	143	1,16	0,90	0,77
60	-25	151	168	1,25	1,05	0,90
60	-23,3	168	176	1,28	1,11	0,95
60	-20	203	194	1,34	1,21	1,04
60	-15	264	224	1,45	1,37	1,18
60	-10	334	256	1,58	1,52	1,31
65	-35	73	120	1,08	0,71	0,61
65	-30	104	144	1,16	0,84	0,72
65	-25	144	169	1,25	0,99	0,85
65	-23,3	161	179	1,29	1,04	0,90
65	-20	195	198	1,36	1,15	0,99
65	-15	255	229	1,47	1,30	1,12
65	-10	326	262	1,60	1,44	1,24

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	112	127	1,10	0,88	0,76
40	-30	152	142	1,16	1,07	0,92
40	-25	200	160	1,22	1,25	1,08
40	-23,3	219	167	1,24	1,31	1,13
40	-20	258	181	1,29	1,43	1,24
40	-15	325	203	1,38	1,60	1,38
40	-10	402	229	1,47	1,75	1,52
45	-35	102	126	1,10	0,81	0,70
45	-30	138	143	1,16	0,97	0,84
45	-25	183	162	1,23	1,13	0,98
45	-23,3	201	169	1,25	1,19	1,03
45	-20	238	184	1,31	1,29	1,12
45	-15	302	209	1,40	1,45	1,25
45	-10	376	236	1,50	1,59	1,38
50	-35	91	124	1,09	0,73	0,63
50	-30	124	143	1,16	0,87	0,75
50	-25	167	164	1,23	1,02	0,88
50	-23,3	183	172	1,26	1,07	0,92
50	-20	218	187	1,32	1,16	1,01
50	-15	279	214	1,42	1,31	1,13
50	-10	349	242	1,52	1,44	1,25
55	-35	80	123	1,09	0,65	0,56
55	-30	110	143	1,16	0,77	0,67
55	-25	150	166	1,24	0,90	0,78
55	-23,3	165	174	1,27	0,95	0,82
55	-20	198	191	1,33	1,04	0,90
55	-15	256	219	1,43	1,17	1,01
55	-10	323	249	1,55	1,30	1,12
60	-35	70	122	1,09	0,57	0,50
60	-30	97	143	1,16	0,67	0,58
60	-25	133	168	1,25	0,79	0,69
60	-23,3	147	176	1,28	0,84	0,72
60	-20	179	194	1,34	0,92	0,79
60	-15	233	224	1,45	1,04	0,90
60	-10	297	256	1,58	1,16	1,00
65	-35	59	120	1,08	0,49	0,42
65	-30	83	144	1,16	0,58	0,50
65	-25	116	169	1,25	0,69	0,59
65	-23,3	130	179	1,29	0,72	0,63
65	-20	159	198	1,36	0,80	0,69
65	-15	210	229	1,47	0,92	0,79
65	-10	271	262	1,60	1,03	0,89

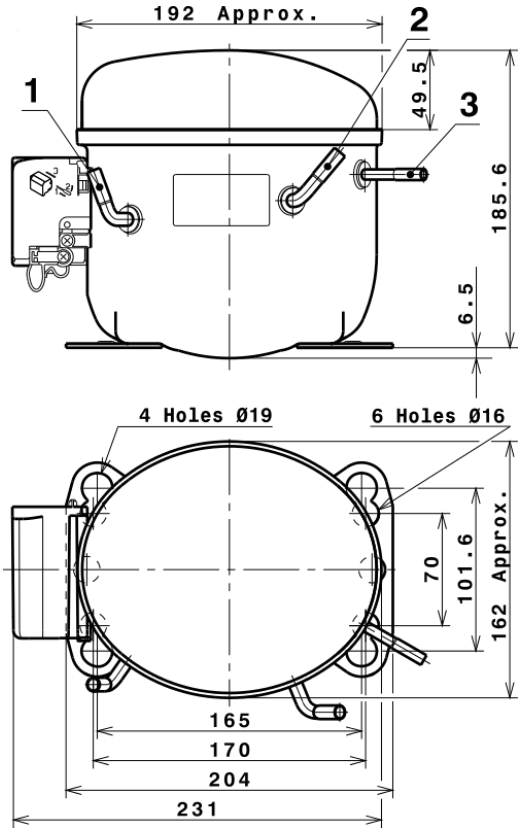
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	837,9564532497	214,1738271980	1,4209149756	14,915886105336
2	24,6815042592	3,9627791444	0,0159990702	0,49610070270118
3	-6,6334634088	2,0202331897	0,0077181055	-0,046641704138554
4	0,1808301203	0,0531839473	0,0002367745	0,0048846052179713
5	-0,1285363911	0,0655038271	0,0002474620	-0,00052946379741189

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

Technical Data Sheet

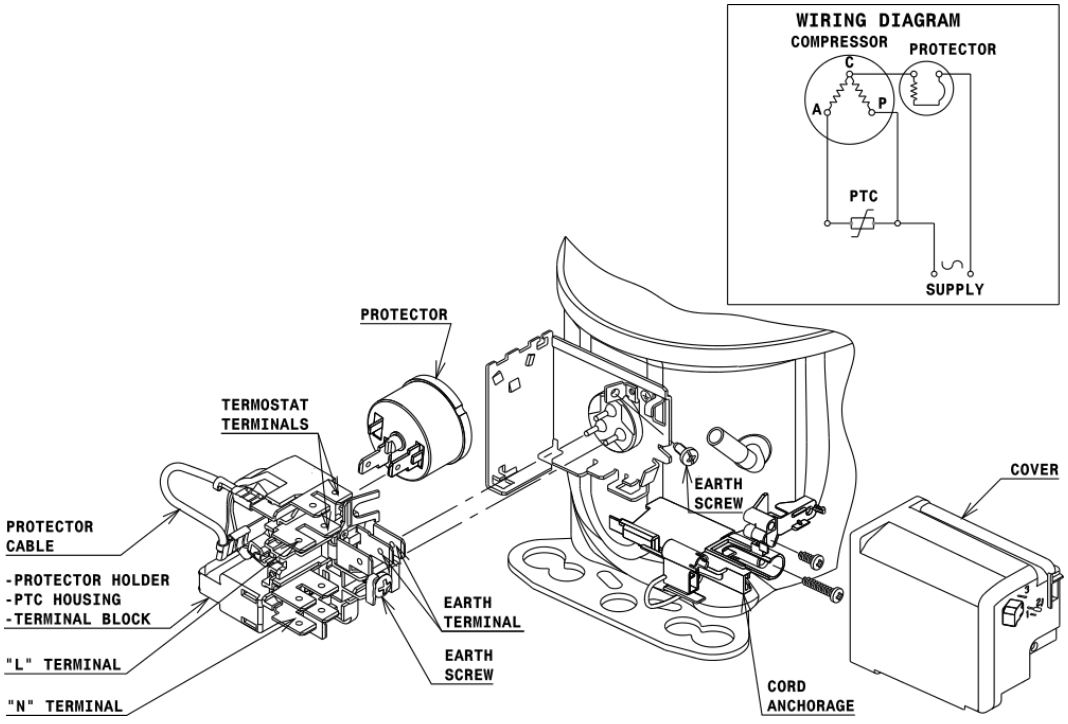
COMPRESSOR DIMENSIONS



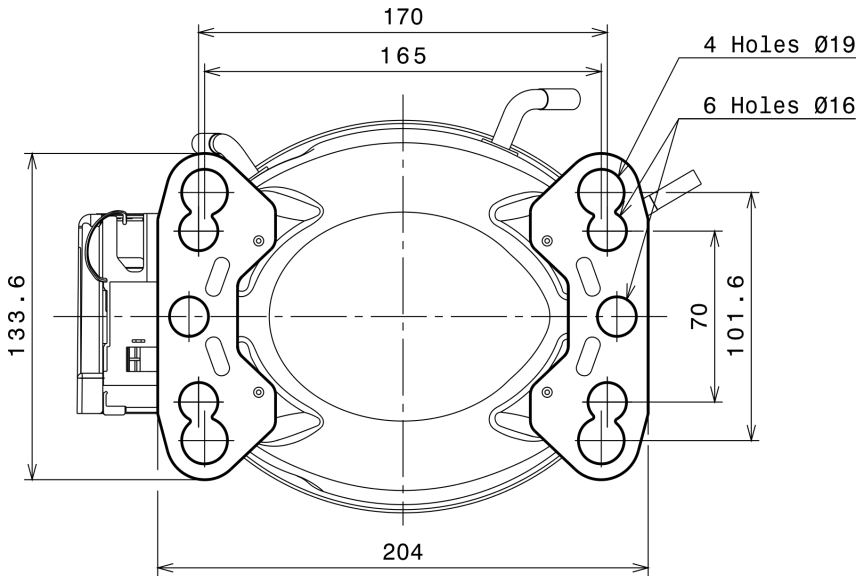
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSIR CONNECTION (PTC) (L, P ranges)



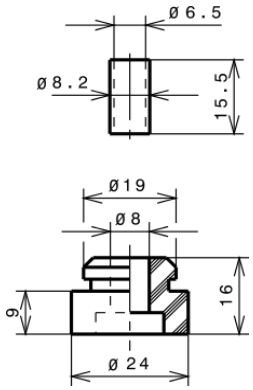
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

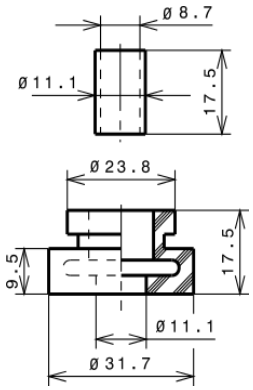
STANDARD

Ø16 holes (170x70 net)



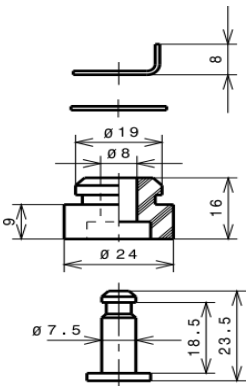
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP