

Technical Data Sheet

Compressor model **GUY72RCb**
 Voltage **100V 50/60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	7,20 cm ³	Nominal Power	1/4 hp
Refrigerant	R134a	Diameter	22,00 mm	Voltage/Frequency	100V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	19,00 mm	Voltage range	85-110 V
Expansion	Capillar/Valve	Net Weight	9,59 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	200 cm ³	Locked Rotor Amps (LRA)	22,70 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	6,30 A
				Main W. resist. at 25°C	1,60 Ω
				Start W. resist. at 25°C	7,20 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	792 kCal/h	772 W
COP	2,72 W/W	2,35 W/W
EER	2,34 kCal/Wh	2,03 kCal/Wh
Input Power	339 W	328 W
Current	3,60 A	3,48 A

TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T _e)	7,2 °C	5,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C	55,0 °C
Ambient temp. (T _{amb.})	35,0 °C	32,0 °C
Suction temp. (T _{suction})	35,0 °C	32,0 °C
Voltage/Frequency	100 V 60 Hz	100 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	125 µF 160 V			
Run capacitor	15 µF 250 V			
Relay	Option 1			
Reference	2014 166. + NTC3Ω			
Pick-Up	11,00 A			
Drop-Out	9,35 A			
Protector	Option 1			
Reference	T0260			
Current	22,00 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	-25	208	155	1,77	1,56	1,34
40	-20	282	175	1,95	1,88	1,62
40	-15	371	195	2,14	2,21	1,90
40	-10	474	217	2,35	2,54	2,19
40	-5	591	239	2,57	2,88	2,47
40	0	722	262	2,80	3,20	2,75
40	5	868	286	3,05	3,53	3,03
40	7,2	936	297	3,16	3,67	3,15
40	10	1.027	311	3,30	3,84	3,30

45	-25	196	157	1,79	1,45	1,24
45	-20	265	179	1,99	1,72	1,48
45	-15	348	201	2,20	2,01	1,73
45	-10	445	224	2,43	2,31	1,98
45	-5	556	249	2,67	2,60	2,24
45	0	682	274	2,92	2,90	2,49
45	5	822	299	3,18	3,19	2,75
45	7,2	888	311	3,30	3,32	2,86
45	10	976	326	3,46	3,48	2,99

50	-25	183	160	1,81	1,34	1,15
50	-20	247	183	2,03	1,57	1,35
50	-15	324	207	2,26	1,82	1,56
50	-10	416	232	2,50	2,08	1,79
50	-5	522	258	2,76	2,35	2,02
50	0	642	285	3,03	2,62	2,25
50	5	776	313	3,32	2,89	2,48
50	7,2	840	325	3,45	3,01	2,58
50	10	925	341	3,62	3,15	2,71

55	-25	171	162	1,83	1,23	1,06
55	-20	229	187	2,07	1,42	1,22
55	-15	301	213	2,32	1,64	1,41
55	-10	387	240	2,58	1,88	1,61
55	-5	487	268	2,86	2,12	1,82
55	0	602	296	3,15	2,36	2,03
55	5	731	326	3,46	2,61	2,24
55	7,2	792	339	3,60	2,72	2,34
55	10	874	356	3,78	2,85	2,45

60	-25	159	164	1,85	1,12	0,97
60	-20	211	191	2,11	1,28	1,10
60	-15	277	219	2,37	1,47	1,27
60	-10	358	248	2,66	1,68	1,45
60	-5	453	277	2,96	1,90	1,63
60	0	562	308	3,27	2,12	1,83
60	5	685	339	3,60	2,35	2,02
60	7,2	744	353	3,75	2,45	2,11
60	10	823	371	3,95	2,58	2,22

65	-25	146	167	1,87	1,02	0,88
65	-20	193	195	2,15	1,15	0,99
65	-15	254	225	2,43	1,31	1,13
65	-10	329	256	2,74	1,50	1,29
65	-5	418	287	3,05	1,70	1,46
65	0	522	319	3,39	1,90	1,64
65	5	640	352	3,74	2,11	1,82
65	7,2	696	367	3,90	2,21	1,90
65	10	772	386	4,11	2,32	2,00

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	224	156	1,77	1,44	1,24
40	-20	305	176	1,96	1,74	1,50
40	-15	401	196	2,15	2,04	1,76
40	-10	512	218	2,36	2,35	2,03
40	-5	638	240	2,58	2,65	2,29
40	0	778	264	2,82	2,95	2,55
40	5	934	288	3,06	3,24	2,80
40	7,2	1.007	299	3,18	3,37	2,91
40	10	1.105	313	3,33	3,53	3,05

45	-25	210	158	1,79	1,33	1,15
45	-20	284	180	2,00	1,58	1,37
45	-15	373	202	2,21	1,85	1,59
45	-10	478	226	2,44	2,12	1,83
45	-5	597	250	2,68	2,39	2,06
45	0	731	275	2,93	2,66	2,30
45	5	880	301	3,20	2,92	2,52
45	7,2	950	313	3,32	3,04	2,62
45	10	1.044	328	3,49	3,18	2,75

50	-25	195	161	1,82	1,22	1,05
50	-20	263	184	2,04	1,43	1,24
50	-15	346	208	2,27	1,66	1,43
50	-10	443	234	2,52	1,90	1,64
50	-5	556	260	2,78	2,14	1,85
50	0	684	287	3,05	2,38	2,06
50	5	826	315	3,34	2,63	2,27
50	7,2	893	327	3,47	2,73	2,36
50	10	983	343	3,65	2,86	2,47

55	-25	181	163	1,84	1,11	0,96
55	-20	242	188	2,08	1,29	1,11
55	-15	318	214	2,33	1,49	1,28
55	-10	409	241	2,59	1,70	1,47
55	-5	515	269	2,87	1,91	1,65
55	0	636	298	3,17	2,13	1,84
55	5	772	328	3,48	2,35	2,03
55	7,2	836	341	3,62	2,45	2,12
55	10	923	358	3,81	2,57	2,22

60	-25	167	165	1,86	1,01	0,87
60	-20	221	192	2,12	1,15	0,99
60	-15	291	220	2,39	1,32	1,14
60	-10	375	249	2,67	1,51	1,30
60	-5	474	279	2,97	1,70	1,47
60	0	589	310	3,29	1,90	1,64
60	5	718	341	3,62	2,10	1,82
60	7,2	780	355	3,77	2,19	1,90
60	10	862	374	3,97	2,31	1,99

65	-25	152	168	1,88	0,91	0,79
65	-20	200	196	2,16	1,02	0,88
65	-15	263	226	2,44	1,16	1,00
65	-10	341	257	2,75	1,33	1,15
65	-5	434	289	3,07	1,50	1,30
65	0	541	321	3,41	1,69	1,46
65	5	664	354	3,77	1,87	1,62
65	7,2	723	369	3,93	1,96	1,69
65	10	801	389	4,14	2,06	1,78

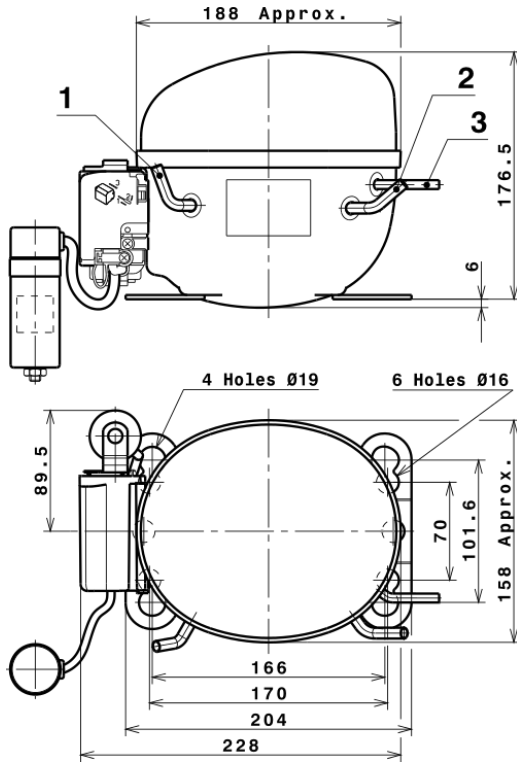
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.162,5843256432	176,3343265859	1,8850158615	19,120732415632
2	40,3389696300	1,9502055497	0,0185487341	0,74965887003341
3	-9,8538261229	2,3565323070	0,0248647403	-0,050042513814225
4	0,2937513512	0,0200465538	0,0003275762	0,0085625571704624
5	-0,2766706601	0,0750777620	0,0008158133	-0,0011114779361543

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

COMPRESSOR DIMENSIONS

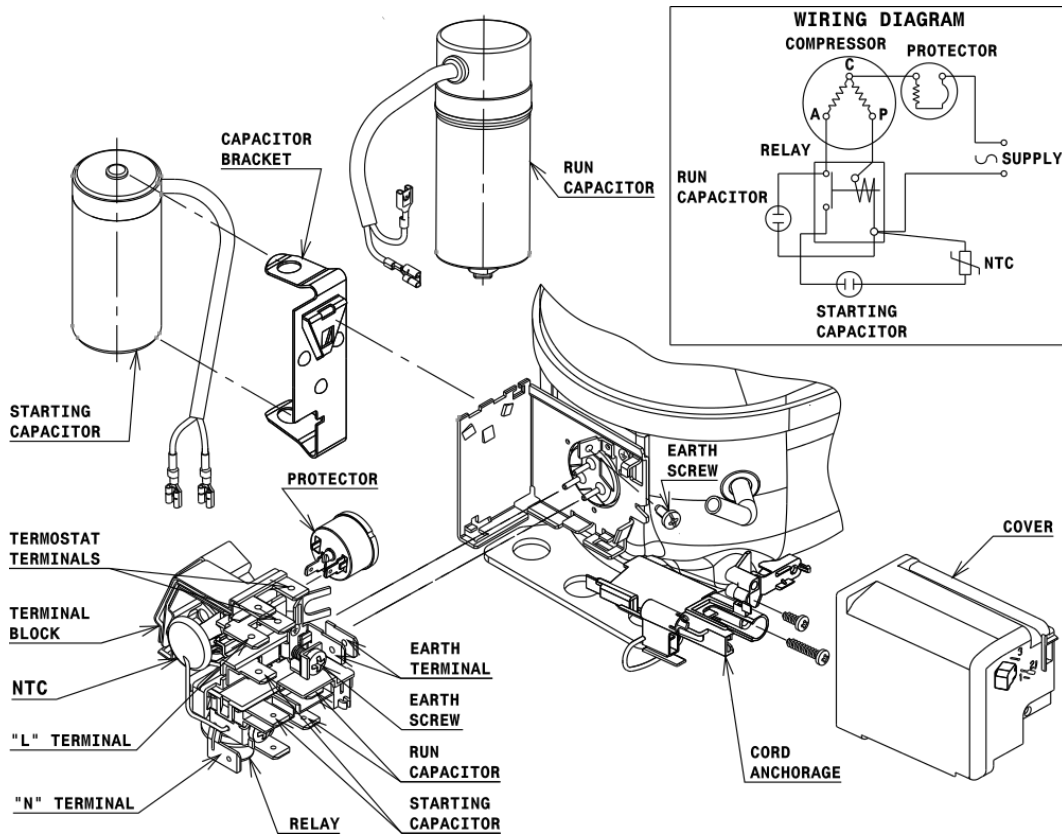


DESIGNATION INTERNAL DIAM.

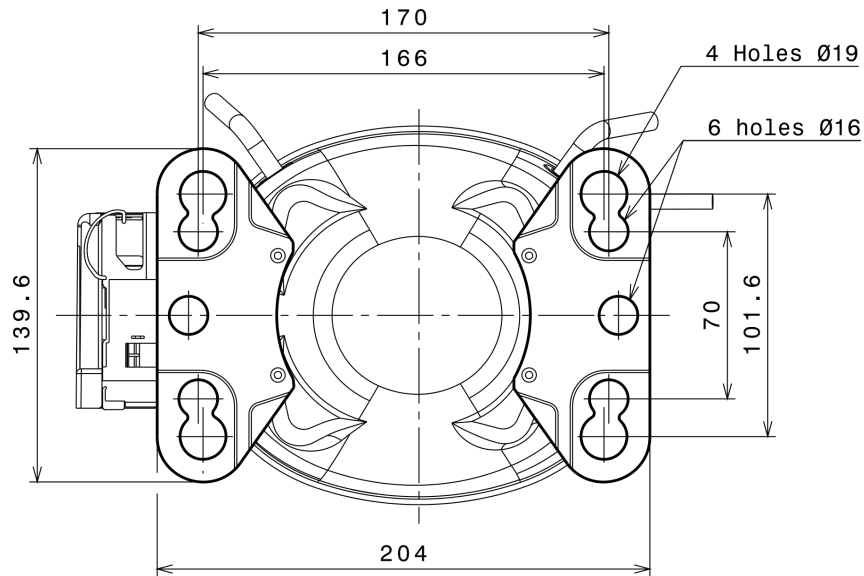
DESIGNATION	INTERNAL DIAM.
1 Service	6,2 mm
2 Suction	6,2 mm
3 Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (U range)



FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



AMERICAN FEET

$\varnothing 19$ holes (166x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R134a HMBP

