Technical Data Sheet

Compressor model **GU60TG**

Voltage **200-230/220-240V 50/60Hz ~1**

Refrigerant **R134a**

APPLICATION

Application	High Back Pressure
Refrigerant	R134a
Evaporating Temp.	-15,0 ºC to 10,0 ºC
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 ºC
Compatible refriger.	R1234yf

COMPRESSOR

Displacement	6,00 cm³
Diameter	22,00 mm
Stroke	16,00 mm
Net Weight	8,60 Kg
Oil type	ISO VG 22 ESTER
Oil charge	220 cm³

MOTOR

Nominal Power	1/5 hp
Voltage/Frequency	220-240V 60Hz
Voltage range	187-264 V
Type	CSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	10,90 A
Main W. resist. at 25ºC	13,30 Ω
Start W. resist. at 25ºC	38,50 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	645 kCal/h	620 W
COP	2,38 W/W	2,05 W/W
EER	2,05 kCal/Wh	1,77 kCal/Wh
Input Power	315 W	303 W
Current	1,82 A	1,77 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	HBP (D)	**HBP (C)**
Evaporating temp. (T_e)	7,2 ºC	5,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	46,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	35,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	35,0 ºC	32,0 ºC
Voltage/Frequency	230 V 60 Hz	230 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	50 µF 330 V			
Relay	Option 1			
Reference	QLZ-4.0A			
Pick-Up	4.00 V			
Drop-Out	3.40 V			
Protector	Option 1			
Reference	B90-105			
Current	9,40 A			
Time check	7,5-16 seg			
Disc temp. (Open/Close)	110,00 / 62,00 ºC			

Technical Data Sheet

cubigel compressors

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-15	294	187	1,45	1,83	1,57
40	-10	359	199	1,47	2,10	1,81
40	-5	444	215	1,50	2,41	2,07
40	0	551	234	1,54	2,74	2,35
40	5	678	257	1,61	3,06	2,63
40	7,2	740	269	1,64	3,20	2,75
40	10	825	285	1,70	3,37	2,90
45	-15	277	193	1,46	1,67	1,44
45	-10	339	207	1,48	1,90	1,64
45	-5	421	225	1,52	2,18	1,87
45	0	524	246	1,57	2,47	2,13
45	5	647	272	1,65	2,77	2,38
45	7,2	708	284	1,70	2,90	2,49
45	10	792	301	1,76	3,06	2,63
50	-15	260	199	1,47	1,52	1,31
50	-10	318	215	1,50	1,72	1,48
50	-5	397	235	1,54	1,97	1,69
50	0	497	259	1,61	2,23	1,92
50	5	617	286	1,70	2,51	2,16
50	7,2	677	300	1,76	2,63	2,26
50	10	758	318	1,83	2,77	2,39
55	-15	243	205	1,48	1,38	1,19
55	-10	298	223	1,52	1,55	1,34
55	-5	374	245	1,57	1,77	1,52
55	0	470	271	1,65	2,02	1,73
55	5	587	301	1,76	2,27	1,95
55	7,2	645	315	1,82	2,38	2,05
55	10	725	334	1,91	2,52	2,17
60	-15	226	211	1,49	1,25	1,07
60	-10	278	231	1,54	1,40	1,20
60	-5	350	255	1,60	1,59	1,37
60	0	443	283	1,69	1,82	1,56
60	5	557	315	1,82	2,05	1,77
60	7,2	613	330	1,89	2,16	1,86
60	10	691	351	1,99	2,29	1,97
65	-15	209	217	1,50	1,12	0,96
65	-10	257	239	1,56	1,25	1,08
65	-5	326	266	1,63	1,43	1,23
65	0	416	296	1,74	1,64	1,41
65	5	527	330	1,89	1,86	1,60
65	7,2	582	346	1,97	1,96	1,68
65	10	658	367	2,08	2,08	1,79

CECOMAF

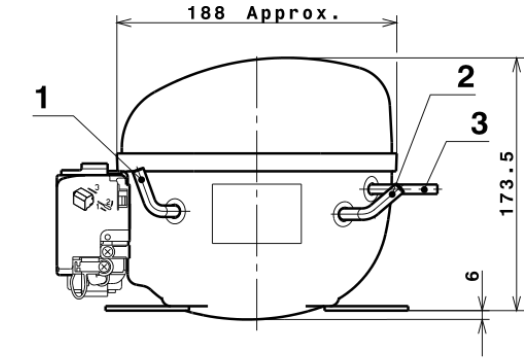
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-15	317	188	1,45	1,68	1,45
40	-10	387	200	1,47	1,94	1,67
40	-5	480	216	1,50	2,22	1,92
40	0	594	235	1,55	2,52	2,18
40	5	730	259	1,61	2,82	2,43
40	7,2	796	271	1,65	2,94	2,54
40	10	887	287	1,71	3,10	2,67
45	-15	297	194	1,46	1,53	1,32
45	-10	363	208	1,49	1,75	1,51
45	-5	452	226	1,52	2,00	1,73
45	0	561	248	1,58	2,27	1,96
45	5	693	274	1,66	2,53	2,19
45	7,2	758	286	1,70	2,65	2,29
45	10	847	303	1,77	2,79	2,41
50	-15	277	200	1,47	1,38	1,20
50	-10	339	216	1,50	1,57	1,36
50	-5	423	236	1,55	1,79	1,55
50	0	529	260	1,62	2,03	1,76
50	5	657	288	1,71	2,28	1,97
50	7,2	720	302	1,76	2,39	2,06
50	10	806	320	1,84	2,52	2,18
55	-15	257	206	1,48	1,25	1,08
55	-10	315	224	1,52	1,40	1,21
55	-5	395	247	1,58	1,60	1,38
55	0	497	273	1,66	1,82	1,57
55	5	620	303	1,77	2,05	1,77
55	7,2	681	317	1,83	2,15	1,86
55	10	765	336	1,92	2,27	1,96
60	-15	237	212	1,49	1,12	0,97
60	-10	291	233	1,54	1,25	1,08
60	-5	367	257	1,60	1,43	1,23
60	0	464	285	1,70	1,63	1,41
60	5	584	317	1,83	1,84	1,59
60	7,2	643	332	1,90	1,93	1,67
60	10	724	353	2,00	2,05	1,77
65	-15	217	218	1,51	1,00	0,86
65	-10	267	241	1,56	1,11	0,96
65	-5	339	267	1,64	1,27	1,10
65	0	432	297	1,75	1,45	1,25
65	5	547	332	1,90	1,65	1,43
65	7,2	604	348	1,98	1,74	1,50
65	10	684	370	2,09	1,85	1,60

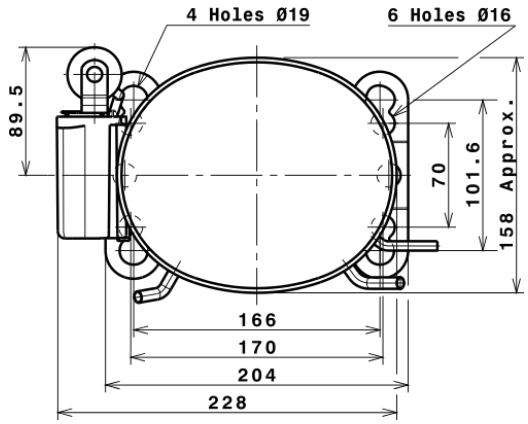
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	856,9929324507	139,7785795207	1,1613106996	13,678834970057
2	31,9201523777	1,0211362800	-0,0049392249	0,56023711340847
3	-6,7732246449	2,5443789150	0,0094322961	-0,017111527373296
4	0,4273639933	0,0824999140	0,0006158109	0,012366938401786
5	-0,1800618195	0,0873092806	0,0004868121	0,00079944874245482

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

COMPRESSOR DIMENSIONS

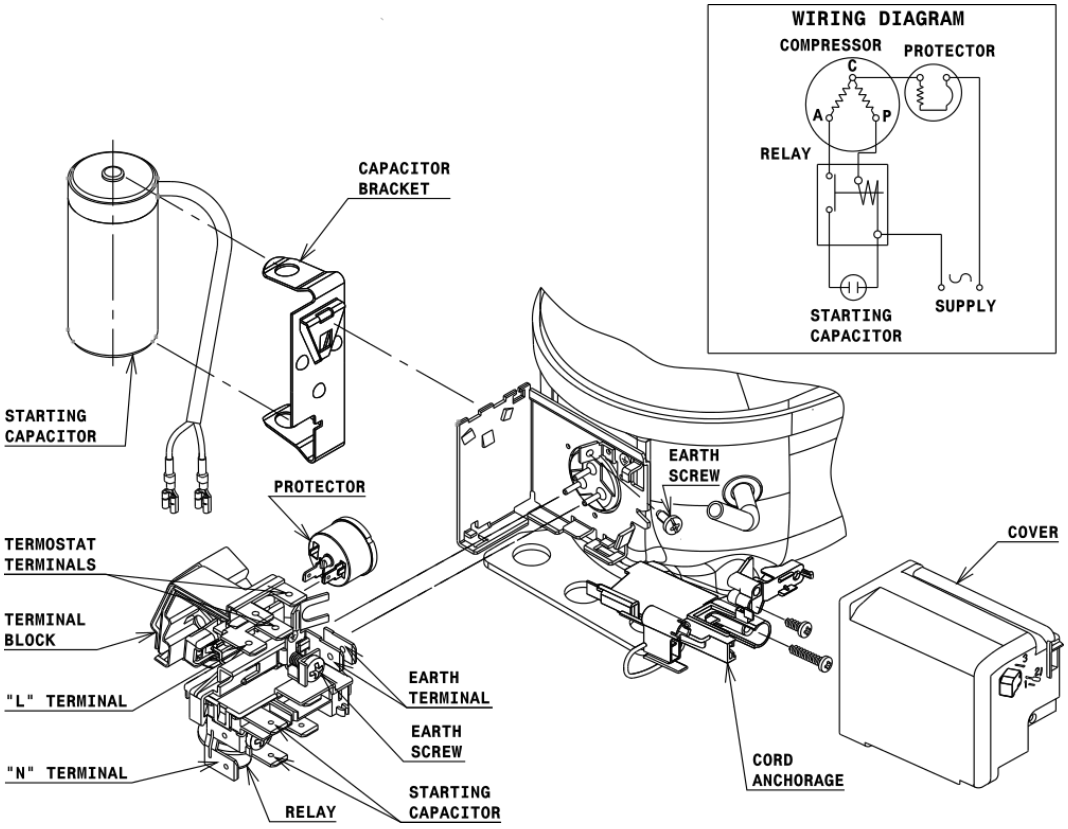




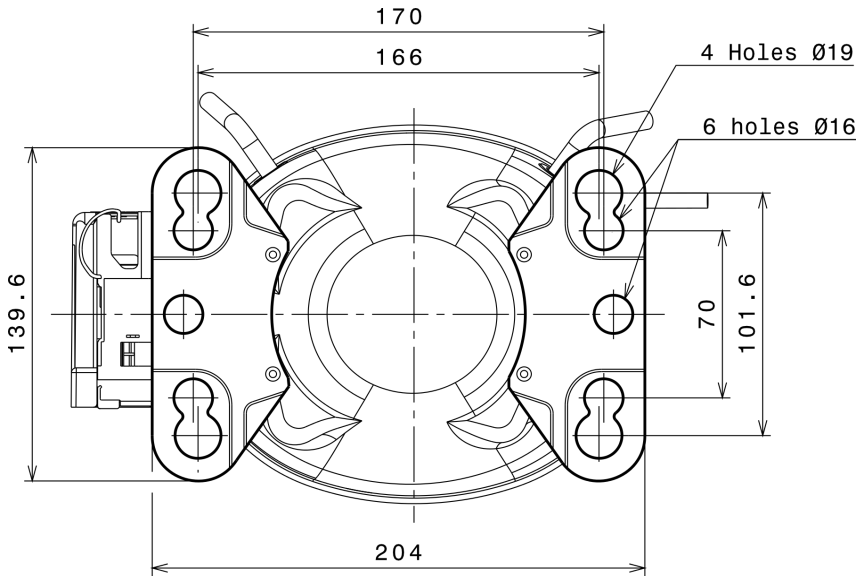
	DESIGNATION	INTERNAL DIAM.
1	Service	6,2 mm
2	Suction	6,2 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (U range)



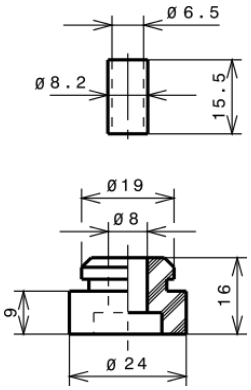
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

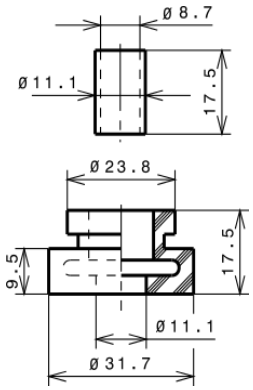
STANDARD

Ø16 holes (170x70 net)



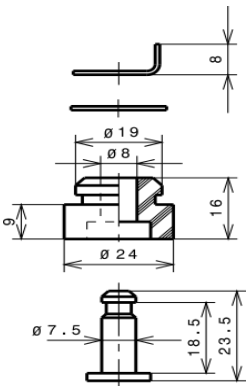
AMERICAN FEET

Ø19 holes (166x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a HBP