Technical Data Sheet

Compressor model **GS26TG_V**

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

Refrigerant **R134a**

APPLICATION

Application	High-Medium Back Pressure
Refrigerant	R134a
Evaporating Temp.	-25,0 ºC to 10,0 ºC
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 ºC
Compatible refriger.	R1234yf

COMPRESSOR

Displacement	25,93 cm³
Diameter	39,98 mm
Stroke	20,65 mm
Net Weight	21,22 Kg
Oil type	ISO VG 32 ESTER
Oil charge	700 cm³

MOTOR

Nominal Power	3/4 hp
Voltage/Frequency	220-230V 60Hz
Voltage range	187-253 V
Type	CSR
Phase number	1 PH
Locked Rotor Amps (LRA)	33,50 A
Max. Cont. Current (MCC)	8,60 A
Main W. resist. at 25ºC	2,55 Ω
Start W. resist. at 25ºC	6,71 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	2.500 kCal/h	2.419 W
COP	2,40 W/W	2,06 W/W
EER	2,07 kCal/Wh	1,78 kCal/Wh
Input Power	1.210 W	1.174 W
Current	7,00 A	6,84 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	HMBP (D)	**HMBP (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	88-108 µF 330 V			
Run capacitor	20 µF 420 V			
Relay	Option 1	Option 2		
Reference	3ARR3 3AV3	RVA 2L..		
Pick-Up	224-252 V	224-252 V		
Drop-Out	40-90 V	40-105 V		
Protector	Option 1			
Reference	T0260			
Current	22,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 52,00 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	-25	525	470	4,15	1,30	1,12
40	-20	813	586	4,53	1,61	1,39
40	-15	1.146	694	4,90	1,92	1,65
40	-10	1.523	794	5,27	2,23	1,92
40	-5	1.945	887	5,63	2,55	2,19
40	0	2.411	972	5,97	2,89	2,48
40	5	2.921	1.049	6,29	3,24	2,79
40	7,2	3.160	1.080	6,42	3,40	2,93
40	10	3.476	1.118	6,59	3,62	3,11
45	-25	447	453	4,10	1,15	0,99
45	-20	713	578	4,51	1,43	1,23
45	-15	1.024	696	4,91	1,71	1,47
45	-10	1.379	805	5,31	1,99	1,71
45	-5	1.778	907	5,71	2,28	1,96
45	0	2.222	1.001	6,09	2,58	2,22
45	5	2.711	1.088	6,46	2,90	2,49
45	7,2	2.940	1.123	6,61	3,04	2,62
45	10	3.244	1.166	6,80	3,23	2,78
50	-25	368	437	4,05	0,98	0,84
50	-20	613	571	4,48	1,25	1,07
50	-15	901	698	4,92	1,50	1,29
50	-10	1.234	817	5,36	1,76	1,51
50	-5	1.612	928	5,79	2,02	1,74
50	0	2.034	1.031	6,22	2,29	1,97
50	5	2.501	1.127	6,63	2,58	2,22
50	7,2	2.720	1.167	6,80	2,71	2,33
50	10	3.012	1.215	7,02	2,88	2,48
55	-25	290	420	4,00	0,80	0,69
55	-20	512	564	4,46	1,06	0,91
55	-15	779	700	4,93	1,29	1,11
55	-10	1.090	828	5,40	1,53	1,32
55	-5	1.446	949	5,87	1,77	1,52
55	0	1.846	1.061	6,34	2,02	1,74
55	5	2.290	1.166	6,80	2,28	1,96
55	7,2	2.500	1.210	7,00	2,40	2,07
55	10	2.779	1.264	7,25	2,56	2,20
60	-25	212	403	3,95	0,61	0,52
60	-20	412	556	4,43	0,86	0,74
60	-15	657	702	4,93	1,09	0,94
60	-10	946	839	5,44	1,31	1,13
60	-5	1.279	969	5,96	1,54	1,32
60	0	1.657	1.091	6,47	1,77	1,52
60	5	2.080	1.205	6,98	2,01	1,73
60	7,2	2.280	1.253	7,20	2,12	1,82
60	10	2.547	1.312	7,47	2,26	1,94
65	-25	133	387	3,90	0,40	0,34
65	-20	312	549	4,41	0,66	0,57
65	-15	534	704	4,94	0,88	0,76
65	-10	801	851	5,49	1,10	0,94
65	-5	1.113	990	6,04	1,31	1,12
65	0	1.469	1.121	6,60	1,52	1,31
65	5	1.870	1.245	7,16	1,75	1,50
65	7,2	2.060	1.297	7,40	1,85	1,59
65	10	2.315	1.361	7,71	1,98	1,70

CECOMAF

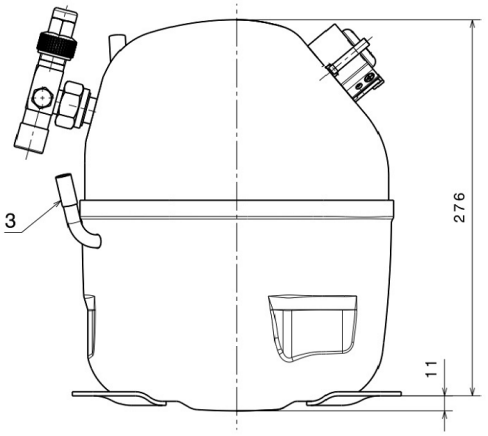
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	566	472	4,16	1,20	1,03
40	-20	879	589	4,54	1,49	1,29
40	-15	1.238	698	4,92	1,78	1,53
40	-10	1.645	799	5,29	2,06	1,78
40	-5	2.098	892	5,65	2,35	2,03
40	0	2.598	977	5,99	2,66	2,30
40	5	3.145	1.055	6,32	2,98	2,58
40	7,2	3.401	1.087	6,45	3,13	2,70
40	10	3.739	1.125	6,62	3,32	2,87
45	-25	479	456	4,11	1,05	0,91
45	-20	766	582	4,52	1,32	1,14
45	-15	1.100	700	4,92	1,57	1,36
45	-10	1.481	810	5,33	1,83	1,58
45	-5	1.908	913	5,73	2,09	1,81
45	0	2.382	1.007	6,12	2,36	2,04
45	5	2.903	1.095	6,49	2,65	2,29
45	7,2	3.147	1.131	6,64	2,78	2,41
45	10	3.471	1.174	6,84	2,96	2,55
50	-25	393	439	4,06	0,90	0,77
50	-20	654	574	4,49	1,14	0,98
50	-15	962	702	4,93	1,37	1,18
50	-10	1.317	821	5,37	1,60	1,39
50	-5	1.718	933	5,81	1,84	1,59
50	0	2.166	1.038	6,24	2,09	1,80
50	5	2.661	1.134	6,66	2,35	2,03
50	7,2	2.894	1.174	6,84	2,46	2,13
50	10	3.203	1.223	7,06	2,62	2,26
55	-25	307	422	4,01	0,73	0,63
55	-20	542	567	4,47	0,96	0,83
55	-15	824	704	4,94	1,17	1,01
55	-10	1.153	833	5,42	1,38	1,20
55	-5	1.528	954	5,90	1,60	1,38
55	0	1.950	1.068	6,37	1,83	1,58
55	5	2.419	1.174	6,84	2,06	1,78
55	7,2	2.640	1.218	7,04	2,17	1,87
55	10	2.935	1.272	7,29	2,31	1,99
60	-25	221	405	3,96	0,54	0,47
60	-20	430	559	4,44	0,77	0,66
60	-15	686	706	4,95	0,97	0,84
60	-10	989	844	5,46	1,17	1,01
60	-5	1.338	975	5,98	1,37	1,19
60	0	1.734	1.098	6,50	1,58	1,36
60	5	2.177	1.213	7,01	1,79	1,55
60	7,2	2.387	1.261	7,24	1,89	1,63
60	10	2.667	1.321	7,52	2,02	1,74
65	-25	134	389	3,91	0,35	0,30
65	-20	318	552	4,42	0,58	0,50
65	-15	548	708	4,95	0,77	0,67
65	-10	825	855	5,51	0,96	0,83
65	-5	1.148	996	6,07	1,15	1,00
65	0	1.518	1.128	6,63	1,35	1,16
65	5	1.935	1.253	7,20	1,54	1,33
65	7,2	2.134	1.305	7,44	1,63	1,41
65	10	2.399	1.370	7,75	1,75	1,51

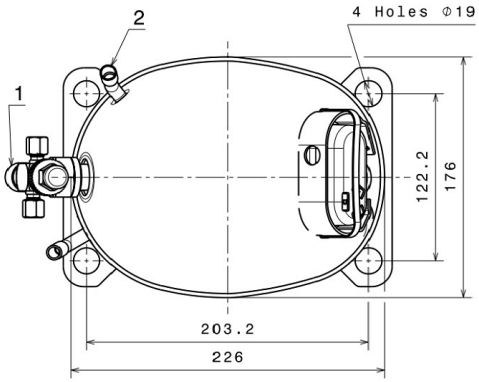
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	4.331,6846778972	754,8895099344	4,8845276394	75,918656002042
2	146,6121789550	1,6237235874	0,0116100668	2,7356890245459
3	-44,1616043689	6,1961246596	0,0289882299	-0,46767712503888
4	0,9200589303	-0,1508117040	0,0000440358	0,02702573632619
5	-1,0808966810	0,3848702030	0,0015859373	-0,0065075215581322

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

COMPRESSOR DIMENSIONS

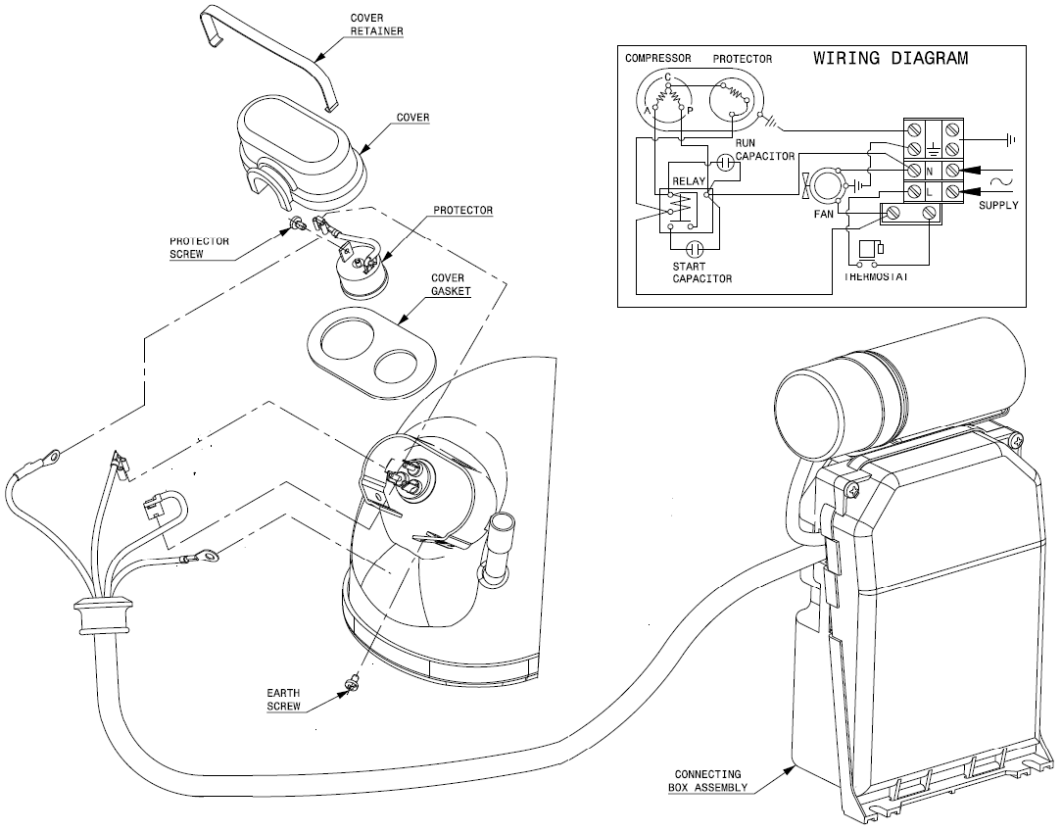




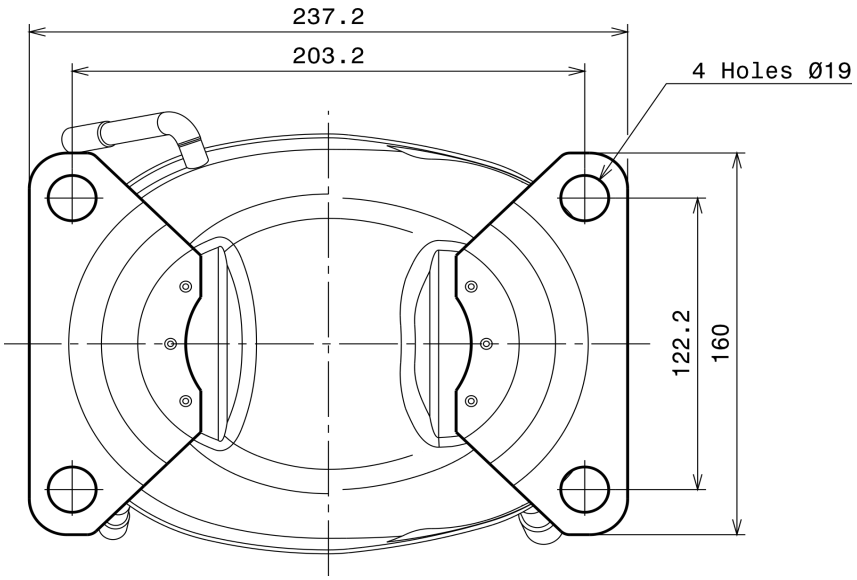
	DESIGNATION	INTERNAL DIAM.
1	Service Valve	5/8" SAE
2	Service	9,7 mm
3	Discharge	8,0 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (EXTERNAL CONNECTING BOX) (NS Range)



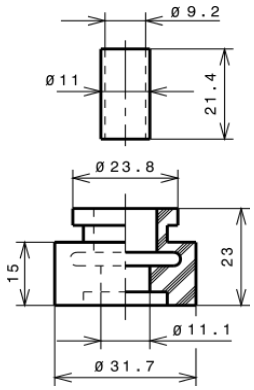
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

Ø19 holes (203.2x122.2 net)



SOA

SOA R134a HMBP