



DC FAN LIFE EXPERIMENT REPORT

Available for these models with lower speed and same physical structure. All model may be followed by Rxx or Fxx series suffixes. This test report applies to GFC40x40x56.0 mm series as the right table	GFB0412SHS-8L68			
	GFB0412SHS-8L69			

Representative Test P/N : GFC0412DS-DF00

Equipment: 1.Oven: E24-F0118 On/Off Cycles: Every 500 hours

☉ **L₁₀ Expectancy: 70,000 hours minimum @ fan rated voltage and the temperature of 40 °C**
 According to the equation for **Weibull distribution**, **MTTF ≙ 7×L10 = 490,000 hours**

And we rely on a zero failure Weibull test strategy and accelerated testing technique, to determine the total test time (t) for verifying the above life estimation by the equations,

$$t = 1.036 \times \text{MTTF} \times [(B_{r;c}) \div n]^{0.91} \div A_F, \text{ and } A_F = 2^{(T_s - T_u)/10}$$

where, (B_{r;c}) is Poisson distribution factor with the failure number of r equal to 0 and the decimal confidence level of c equal to 0.90(90%).

Stress/Elevated Temperature T _s (°C) (Actual Test Temperature)	Unstress Temperature T _u (°C)	Acceleration Factor A _F	Quantity of Test Devices n (pcs)	Poisson Distribution Factor B _{r;c}	Required test time with zero failure t (hours)	Actual test time with zero failure t (hours)	Verified MTTF 40 °C (hours)	Verified L ₁₀ 40 °C (hours)
60	40	4.00	100	2.303	4,104	8,296.0	990,562	141,509

Test Progress:

Date for Test Beginning	Date for Test Termination (at least)	Current Test Status			Current Total Test Time (hours)
2008/6/19 5:00 PM	2009/2/28 4:46 PM	<input type="checkbox"/> In process	<input checked="" type="checkbox"/> In process (exceed requested)	<input type="checkbox"/> Termination	8296.0

Herewith, we could assume as right on the basis of above test result. Besides, if the actual test time exceed the required, it comes out that those fans' L₁₀ expectancy and MTTF are greater than the warrant. (MTTF: means Mean Time To Failures, it should be used in a non-repairable system setting. Now we show the MTTF in our life report, that's because we will not repair the failed fans during life experiment. MTBF: means Mean Time Between failures, it should be used in a repairable system setting.

Temperature for MTTF Estimation (°C)	Acceleration Factor A _F	Estimated MTTF (hours)	Estimated L ₁₀ (hours)
25	11.31	2,801,731	400,247
30	8.00	1,981,123	283,018
40	4.00	990,562	141,509
50	2.00	495,281	70,754
60	1.00	247,640	35,377

- Fan permission criteria for the measurement after test :
1. Speed can not drop of $\geq 15\%$ below the original measured rpm.
 2. Current cannot increase $> 15\%$ of original measure current.
 3. Noise cannot $> 3\text{dB}$ over the original measure noise.

Test Result	<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject
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QE File No.	Time-out for function test or others (hours)	Issued Date	Reported By	Approved By
DG08FNL092	1992.00	2009/8/25	Nan Yang	Zenny Lei



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GFB0412SHS-8L68	
GFB0412SHS-8L69	

Required Test Time (hrs)	Date for Test Beginning	Date for Test Termination	Sample Size (pcs):	Failure (pcs):	Current Total Test Time (hrs)
4,104	2008/6/19 5:00 PM	2009/2/28 4:46 PM	100	0	8296.0

Representative Test P/N : GFC0412DS-DF00	Current Test Status	<input type="checkbox"/> In process	<input checked="" type="checkbox"/> In process (exceed requested)	<input type="checkbox"/> Termination
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Equipment: 1.Oven: E24-F0118 On/Off Cycles: Every 500 hours

Test Data Between Initial Test and Final Test

Sample No.	Initial Test	Final Test	Deviation (%)	Initial Test	Final Test	Deviation (%)	Initial Test	Final Test	Deviation
	Current Spec. (A)	Current Spec. (A)		Speed Spec. (RPM)	Speed Spec. (RPM)		Noise Spec. (dB A)	Noise Check. (dB A)	
	1.82 Max.	1.82 Max.		14400-17600	14400-17600		68.5 Max	68.5 Max	3 dBMax.
				13860-16940	13860-16940				
1	1.31	1.21	-7.6	15584	15663	0.5	63.9	64.7	0.8
				15578	15289	-1.9			
2	1.30	1.23	-5.4	15418	15966	3.6	63.5	64.5	1.0
				15045	15506	3.1			
3	1.30	1.23	-5.4	15226	15729	3.3	63.7	64.9	1.2
				15473	15731	1.7			
4	1.30	1.23	-5.4	15552	15729	1.1	63.2	64.5	1.3
				14984	15736	5.0			
5	1.21	1.25	3.3	15234	15480	1.6	63.4	64.7	1.3
				14916	15261	2.3			
6	1.25	1.23	-1.6	15587	15735	0.9	63.9	64.5	0.6
				14790	14879	0.6			
7	1.28	1.25	-2.3	15591	15856	1.7	63.5	64.6	1.1
				15073	15435	2.4			
8	1.31	1.24	-5.3	15559	15725	1.1	63.2	65.0	1.8
				15561	15711	1.0			
9	1.32	1.26	-4.5	15690	15876	1.2	63.9	64.7	0.8
				14980	15663	4.6			
10	1.29	1.23	-4.7	15672	15894	1.4	63.7	64.3	0.6
				15065	15053	-0.1			
11	1.31	1.21	-7.6	15242	15820	3.8	63.3	64.9	1.6
				14881	15508	4.2			
12	1.31	1.23	-6.1	16210	15937	-1.7	63.5	64.8	1.3
				15452	15466	0.1			
13	1.24	1.21	-2.4	15482	15775	1.9	63.2	64.4	1.2
				14886	15520	4.3			
14	1.28	1.23	-3.9	15531	15697	1.1	63.3	64.9	1.6
				15532	15706	1.1			
15	1.33	1.20	-9.8	15476	15766	1.9	63.7	64.5	0.8
				14643	15477	5.7			
16	1.40	1.28	-8.6	15364	15501	0.9	63.4	64.7	1.3
				14561	15229	4.6			

QE File No.	Time-out for function test or others (hours)	Issued Date	Reported By	Approved By
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Required Test Time (hrs)	Date for Test Beginning	Date for Test Termination	Sample Size (pcs):	Failure (pcs):	Current Total Test Time (hrs)
4,104	2008/6/19 5:00 PM	2009/2/28 4:46 PM	100	0	8296.0

Representative Test P/N : GFC0412DS-DF00	Current Test Status	<input type="checkbox"/> In process	<input checked="" type="checkbox"/> In process (exceed requested)	<input type="checkbox"/> Termination
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Equipment: 1.Oven: E24-F0118	On/Off Cycles: Every 500 hours
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Test Data Between Initial Test and Final Test

Sample No.	Initial Test	Final Test	Deviation (%)	Initial Test	Final Test	Deviation (%)	Initial Test	Final Test	Deviation
	Current Spec. (A)	Current Spec. (A)		Speed Spec. (RPM)	Speed Spec. (RPM)		Noise Spec. (dB A)	Noise Spec. (dB A)	
	1.82 Max.	1.82 Max.		14400-17600	14400-17600		68.5 Max	68.5 Max	3 dBMax.
				13860-16940	13860-16940				
17	1.26	1.21	-4.0	15774	16348	3.6	63.2	65.0	1.8
				15162	15281	0.8			
18	1.31	1.19	-9.2	15893	15581	-2.0	63.8	64.7	0.9
				14795	15076	1.9			
19	1.24	1.23	-0.8	15103	15733	4.2	63.5	65.1	1.6
				14266	14514	1.7			
20	1.22	1.21	-0.8	15703	15693	-0.1	63.7	64.9	1.2
				14656	15241	4.0			
21	1.29	1.24	-3.9	15454	15793	2.2	63.4	64.7	1.3
				15323	15526	1.3			
22	1.29	1.24	-3.9	15048	15974	6.2	63.9	64.4	0.5
				15509	15386	-0.8			
23	1.28	1.24	-3.1	15357	15679	2.1	63.5	64.9	1.4
				15002	15173	1.1			
24	1.27	1.25	-1.6	15776	15955	1.1	63.2	64.4	1.2
				15206	15431	1.5			
25	1.28	1.26	-1.6	15652	15865	1.4	63.7	64.3	0.6
				14545	14695	1.0			
26	1.26	1.24	-1.6	15627	15974	2.2	64.1	64.9	0.8
				15159	15466	2.0			
27	1.25	1.22	-2.4	15706	15618	-0.6	63.5	64.4	0.9
				14579	15193	4.2			
28	1.22	1.24	1.6	15788	15986	1.3	63.8	64.9	1.1
				14827	15241	2.8			
29	1.24	1.23	-0.8	15428	15671	1.6	63.5	64.7	1.2
				15756	15671	-0.5			
30	1.29	1.24	-3.9	15438	15811	2.4	63.9	64.3	0.4
				15058	15382	2.2			
31	1.23	1.18	-4.1	15429	15853	2.7	63.4	64.5	1.1
				14967	15365	2.7			
32	1.26	1.25	-0.8	15133	15999	5.7	63.6	64.7	1.1
				14796	15540	5.0			

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Required Test Time (hrs)	Date for Test Beginning	Date for Test Termination	Sample Size (pcs):	Failure (pcs):	Current Total Test Time (hrs)
4,104	2008/6/19 5:00 PM	2009/2/28 4:46 PM	100	0	8296.0

Representative Test P/N : GFC0412DS-DF00	Current Test Status	<input type="checkbox"/> In process	<input checked="" type="checkbox"/> In process (exceed requested)	<input type="checkbox"/> Termination
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Equipment: 1.Oven: E24-F0118	On/Off Cycles: Every 500 hours
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Test Data Between Initial Test and Final Test

Sample No.	Initial Test	Final Test	Deviation (%)	Initial Test	Final Test	Deviation (%)	Initial Test	Final Test	Deviation
	Current Spec. (A)	Current Spec. (A)		Speed Spec. (RPM)	Speed Spec. (RPM)		Noise Spec. (dB A)	Noise Spec. (dB A)	
	1.82 Max.	1.82 Max.		14400-17600	14400-17600		68.5 Max	68.5 Max	3 dBMax.
				13860-16940	13860-16940				
33	1.30	1.23	-5.4	15757	15919	1.0	63.7	64.9	1.2
				15760	15475	-1.8			
34	1.26	1.23	-2.4	15316	15931	4.0	63.2	64.5	1.3
				15033	15375	2.3			
35	1.23	1.26	2.4	15531	15725	1.2	63.8	64.7	0.9
				15533	15463	-0.5			
36	1.32	1.19	-9.8	15385	15638	1.6	63.4	64.3	0.9
				15390	15108	-1.8			
37	1.27	1.23	-3.1	15424	15967	3.5	63.4	64.7	1.3
				14907	15283	2.5			
38	1.25	1.22	-2.4	15563	16011	2.9	63.5	64.4	0.9
				14681	15267	4.0			
39	1.27	1.24	-2.4	15766	15862	0.6	63.8	64.9	1.1
				15463	15084	-2.5			
40	1.30	1.22	-6.2	15240	15979	4.8	63.2	65.0	1.8
				15568	15280	-1.8			
41	1.27	1.25	-1.6	15472	15981	3.3	63.9	64.4	0.5
				14814	15533	4.9			
42	1.31	1.25	-4.6	15189	15782	3.9	63.5	64.9	1.4
				14892	15063	1.1			
43	1.24	1.25	0.8	15718	15865	0.9	63.7	64.7	1.0
				15228	15469	1.6			
44	1.28	1.24	-3.1	15700	15845	0.9	63.4	65.0	1.6
				15400	15294	-0.7			
45	1.30	1.26	-3.1	15424	15652	1.5	63.7	64.4	0.7
				15603	15752	1.0			
46	1.27	1.23	-3.1	15403	15856	2.9	63.2	64.9	1.7
				14957	15382	2.8			
47	1.31	1.20	-8.4	15593	15803	1.3	63.7	64.7	1.0
				14946	15525	3.9			
48	1.27	1.24	-2.4	15584	15736	1.0	63.5	65.0	1.5
				15038	15538	3.3			

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GFB0412SHS-8L68				
GFB0412SHS-8L69				

Required Test Time (hrs)	Date for Test Beginning	Date for Test Termination	Sample Size (pcs):	Failure (pcs):	Current Total Test Time (hrs)
4,104	2008/6/19 5:00 PM	2009/2/28 4:46 PM	100	0	8296.0

Representative Test P/N : GFC0412DS-DF00	Current Test Status	<input type="checkbox"/> In process	<input checked="" type="checkbox"/> In process (exceed requested)	<input type="checkbox"/> Termination
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Equipment: 1.Oven: E24-F0118 On/Off Cycles: Every 500 hours

Test Data Between Initial Test and Final Test

Sample No.	Initial Test Current Spec.	Final Test Current Spec.	Deviation (%)	Initial Test Speed Spec.	Final Test Speed Spec.	Deviation (%)	Initial Test Noise Spec.	Final Test Noise Spec.	Deviation
	(A)	(A)		(RPM)	(RPM)		(dB A)	(dB A)	
	1.82 Max.	1.82 Max.		14400-17600	14400-17600		68.5 Max	68.5 Max	3 dBMax.
				13860-16940	13860-16940				
49	1.25	1.24	-0.8	15672	15947	1.8	63.9	64.5	0.6
				14896	15122	1.5			
50	1.26	1.25	-0.8	15727	15965	1.5	63.2	64.8	1.6
				15302	15575	1.8			
51	1.28	1.23	-3.9	15447	15661	1.4	63.7	64.5	0.8
				14969	15679	4.7			
52	1.25	1.22	-2.4	15547	15998	2.9	63.5	65.0	1.5
				15201	15263	0.4			
53	1.27	1.25	-1.6	15393	15804	2.7	63.9	64.7	0.8
				14847	15474	4.2			
54	1.26	1.23	-2.4	15402	15623	1.4	63.7	65.0	1.3
				15102	15123	0.1			
55	1.32	1.25	-5.3	15350	15860	3.3	63.1	64.9	1.8
				14777	15420	4.4			
56	1.22	1.25	2.5	15472	15979	3.3	63.5	64.4	0.9
				14892	15533	4.3			
57	1.33	1.25	-6.0	14791	15615	5.6	63.8	64.8	1.0
				14784	15189	2.7			
58	1.26	1.23	-2.4	15305	16006	4.6	63.5	64.6	1.1
				14665	15424	5.2			
59	1.24	1.21	-2.4	15295	16036	4.8	63.9	64.5	0.6
				14303	14860	3.9			
60	1.32	1.22	-7.6	15560	15916	2.3	63.1	64.7	1.6
				14927	15489	3.8			
61	1.25	1.23	-1.6	15579	15930	2.3	63.0	64.4	1.4
				14603	15302	4.8			
62	1.31	1.23	-6.1	15387	15930	3.5	63.2	64.8	1.6
				14983	15277	2.0			
63	1.35	1.25	-7.4	15088	15851	5.1	63.7	64.5	0.8
				15088	15451	2.4			
64	1.33	1.24	-6.8	14991	15805	5.4	63.9	64.3	0.4
				14311	15495	8.3			

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	GFB0412SHS-8L69			

Required Test Time (hrs)	Date for Test Beginning	Date for Test Termination	Sample Size (pcs):	Failure (pcs):	Current Total Test Time (hrs)
4,104	2008/6/19 5:00 PM	2009/2/28 4:46 PM	100	0	8296.0

Representative Test P/N : GFC0412DS-DF00	Current Test Status	<input type="checkbox"/> In process	<input checked="" type="checkbox"/> In process (exceed requested)	<input type="checkbox"/> Termination
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Equipment: 1.Oven: E24-F0118	On/Off Cycles: Every 500 hours
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Test Data Between Initial Test and Final Test

Sample No.	Initial Test	Final Test	Deviation (%)	Initial Test	Final Test	Deviation (%)	Initial Test	Final Test	Deviation
	Current Spec. (A)	Current Spec. (A)		Speed Spec. (RPM)	Speed Spec. (RPM)		Noise Spec. (dB A)	Noise Spec. (dB A)	
	1.82 Max.	1.82 Max.		14400-17600	14400-17600		68.5 Max	68.5 Max	3 dBMax.
				13860-16940	13860-16940				
65	1.33	1.23	-7.5	15133	15967	5.5	63.2	64.7	1.5
				15131	15396	1.8			
66	1.23	1.19	-3.3	15274	15603	2.2	63.4	64.9	1.5
				14929	15125	1.3			
67	1.34	1.24	-7.5	15481	15966	3.1	63.7	64.4	0.7
				14533	15336	5.5			
68	1.29	1.24	-3.9	15324	15661	2.2	63.4	64.2	0.8
				14437	14684	1.7			
69	1.33	1.23	-7.5	16017	15721	-1.8	63.8	64.7	0.9
				15065	15719	4.3			
70	1.26	1.25	-0.8	15521	15605	0.5	63.2	64.5	1.3
				15504	15661	1.0			
71	1.35	1.30	-3.7	15619	15856	1.5	63.5	64.3	0.8
				15405	15326	-0.5			
72	1.26	1.24	-1.6	15825	16510	4.3	63.3	64.4	1.1
				14564	15023	3.2			
73	1.26	1.23	-2.4	15901	15982	0.5	63.8	64.7	0.9
				14903	15143	1.6			
74	1.45	1.32	-9.0	15984	15743	-1.5	63.5	64.4	0.9
				15200	15745	3.6			
75	1.30	1.24	-4.6	15869	15633	-1.5	63.9	64.5	0.6
				15066	15199	0.9			
76	1.37	1.24	-9.5	15594	15906	2.0	63.7	64.3	0.6
				15020	15267	1.6			
77	1.32	1.23	-6.8	15342	15755	2.7	63.5	64.6	1.1
				14015	14518	3.6			
78	1.31	1.19	-9.2	15799	15590	-1.3	63.3	64.4	1.1
				14822	15104	1.9			
79	1.27	1.24	-2.4	15350	15689	2.2	63.8	64.7	0.9
				15353	15217	-0.9			
80	1.25	1.23	-1.6	16802	15710	-6.5	63.3	64.3	1.0
				15685	15525	-1.0			
81	1.25	1.23	-1.6	15539	15952	2.7	63.5	64.6	1.1
				15328	15437	0.7			
82	1.29	1.25	-3.1	15243	15856	4.0	63.7	64.5	0.8
				15551	15540	-0.1			

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GFB0412SHS-8L69				

Required Test Time (hrs)	Date for Test Beginning	Date for Test Termination	Sample Size (pcs):	Failure (pcs):	Current Total Test Time (hrs)
4,104	2008/6/19 5:00 PM	2009/2/28 4:46 PM	100	0	8296.0

Representative Test P/N : GFC0412DS-DF00	Current Test Status	<input type="checkbox"/> In process	<input checked="" type="checkbox"/> In process (exceed requested)	<input type="checkbox"/> Termination
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Equipment: 1.Oven: E24-F0118 On/Off Cycles: Every 500 hours

Test Data Between Initial Test and Final Test

Sample No.	Initial Test Current Spec.	Final Test Current Spec.	Deviation (%)	Initial Test Speed Spec.	Final Test Speed Spec.	Deviation (%)	Initial Test Noise Spec.	Final Test Noise Spec.	Deviation
	(A)	(A)		(RPM)	(RPM)		(dB A)	(dB A)	
	1.82 Max.	1.82 Max.		14400-17600	14400-17600		68.5 Max	68.5 Max	3 dBMax.
				13860-16940	13860-16940				
83	1.31	1.25	-4.6	15279	15964	4.5	63.4	64.7	1.3
				15278	15541	1.7			
84	1.35	1.23	-8.9	15643	15664	0.1	63.8	64.4	0.6
				14549	15666	7.7			
85	1.30	1.25	-3.8	15616	15850	1.5	63.2	64.9	1.7
				15991	15493	-3.1			
86	1.29	1.24	-3.9	15339	15933	3.9	63.9	64.6	0.7
				14912	15450	3.6			
87	1.25	1.23	-1.6	15591	15927	2.2	63.7	64.3	0.6
				15387	15373	-0.1			
88	1.28	1.24	-3.1	15434	15774	2.2	63.3	64.8	1.5
				15433	15484	0.3			
89	1.33	1.24	-6.8	15373	15824	2.9	63.9	64.4	0.5
				14594	15485	6.1			
90	1.33	1.24	-6.8	15316	15929	4.0	63.4	64.5	1.1
				15501	15394	-0.7			
91	1.28	1.24	-3.1	15355	15915	3.6	63.7	64.7	1.0
				15362	15509	1.0			
92	1.30	1.23	-5.4	15401	15737	2.2	63.8	64.3	0.5
				15539	15727	1.2			
93	1.23	1.24	0.8	15734	15762	0.2	63.2	64.5	1.3
				15242	14920	-2.1			
94	1.29	1.23	-4.7	15636	15724	0.6	63.3	64.8	1.5
				14849	15720	5.9			
95	1.29	1.23	-4.7	15424	15913	3.2	63.7	64.6	0.9
				14903	15435	3.6			
96	1.26	1.22	-3.2	15467	15732	1.7	63.9	64.2	0.3
				14913	15732	5.5			
97	1.35	1.24	-8.1	15081	15882	5.3	63.5	64.5	1.0
				15083	15499	2.8			
98	1.25	1.23	-1.6	15400	15623	1.4	63.1	64.3	1.2
				14951	15023	0.5			
99	1.32	1.28	-3.0	15791	15856	0.4	63.8	64.5	0.7
				15133	15202	0.5			
100	1.36	1.25	-8.1	15175	15865	4.5	63.1	64.8	1.7
				14593	15494	6.2			
X-Bar	1.287	1.235	-	15275.4	15593.8	-	63.54	64.62	-
σ	0.041	0.021	-	396.420	317.353	-	0.259	0.228	-

QE File No.	Time-out for function test or others (hours)	Issued Date	Reported By	Approved By
DG08FNL092	1992.00	2009/8/25	Nan Yang	Zenny Lei