

## Specification / Drawing Change Notice

Design Department, Cooling Systems Division  
 SANYO DENKI CO., LTD.  
 Cooling Systems Division  
 SANYO DENKI America, Inc.

**SANYO DENKI Ref. No.: A0050878**

### 1. Information

**To:** Sanyo Denki America Cooling Distributors

**Product Affected:** BLDC Fan

**Model No.:** 80x80x38 9HV type

**Date of Publication:** October 14th, 2020

Should you have any issues with the schedule or content of this change, please contact your sales representative.

### 2. Change Description

Item 1	<b>Outline</b> Change the resin material of Impeller.
	<b>Before Change</b> - Material : PPHOX                      - Type : X532Z - Color : BLACK                         - Manufacturer : ASAHI KASEI CORPORATION - UL File No. : E82268                - UL94 Frame Class : UL94V-0 - Material Marking : PPE+PS-(GF+PS)20
	<b>After Change</b> - Material : PPHOX                      - Type : G793Z - Color : BLACK                         - Manufacturer : ASAHI KASEI CORPORATION - UL File No. : E82268                - UL94 Frame Class : UL94V-0 - Material Marking : PPE+PS-GF30
	<b>Reason for Change</b> To standardize impeller and fan material. There is no influence for the fan performance and the reliability in this changing.

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Changes	<b>Outline</b> Impeller			
	<table border="1"> <thead> <tr> <th>Before Change</th> <th>After Change</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="text-align: center;"> </td> </tr> </tbody> </table>	Before Change	After Change	
Before Change	After Change			

### Representative models

- 9HV0812P1G\*    - 9HV0812P1H\*    - 9HV0812G1\*    - 9HV0824P1G\*    - 9HV0824G1\*  
 - 9HV0848P1G\*    - 9HV0848G1\*

Please also refer Appendix for a complete list of applicable models.

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### 3. Schedule of Change

**Time of Implementation:** It will be implemented from April in 2021.

Please note that the Implementation date may change depending on the status of order.

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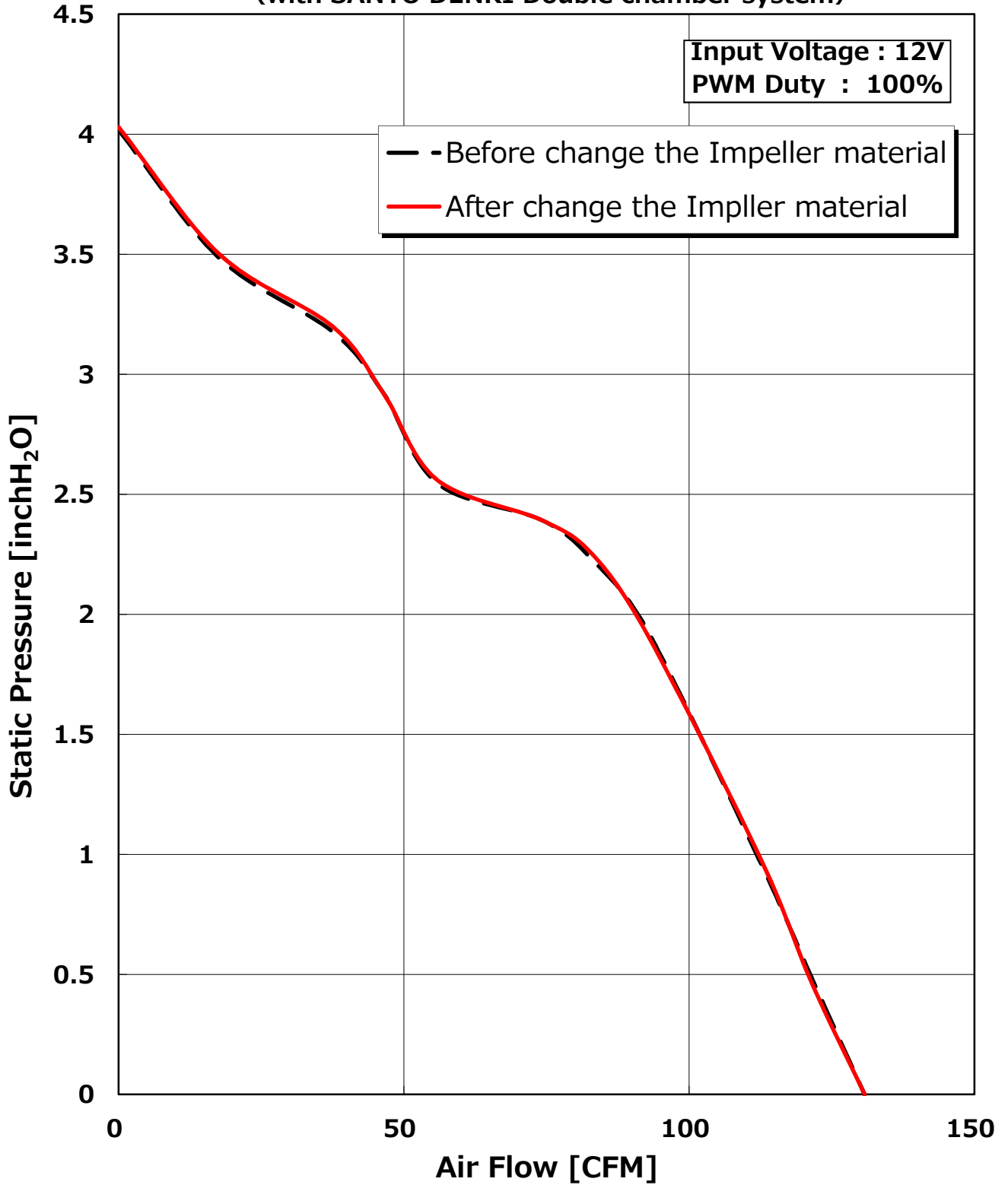
### Appendix: Applicable model numbers

9HV0812G1001	9HV0812P1G018	9HV0824G1D001	9HV0848G1001
9HV0812G10011	9HV0812P1G019	9HV0824P1G0011	9HV0848G10011
9HV0812G1002	9HV0812P1G020	9HV0824P1G003	9HV0848G1002
9HV0812G10021	9HV0812P1G022	9HV0824P1G0031	9HV0848G10021
9HV0812G1003	9HV0812P1G023	9HV0824P1G004	9HV0848G1D001
9HV0812P1G001	9HV0812P1G024	9HV0824P1G0041	9HV0848P1G001
9HV0812P1G0011	9HV0812P1G025	9HV0824P1G005	9HV0848P1G0011
9HV0812P1G001-A01	9HV0812P1G026	9HV0824P1G0051	9HV0848P1G003
9HV0812P1G003	9HV0812P1G601	9HV0824P1G006	9HV0848P1G0031
9HV0812P1G0031	9HV0812P1G6011	9HV0824P1G007	9HV0848P1G004
9HV0812P1G005	9HV0812P1G603	9HV0824P1G008	9HV0848P1G0041
9HV0812P1G0051	9HV0812P1G6031		9HV0848P1G005
9HV0812P1G006	9HV0812P1G604		9HV0848P1G0051
9HV0812P1G0061	9HV0812P1G6041		9HV0848P1G0058
9HV0812P1G007	9HV0812P1G6051		9HV0848P1G006
9HV0812P1G0071	9HV0812P1G6061		9HV0848P1G0061
9HV0812P1G008	9HV0812P1G6071		9HV0848P1G007
9HV0812P1G0081	9HV0812P1G6081		9HV0848P1G008
9HV0812P1G009	9HV0812P1G6091		9HV0848P1G009
9HV0812P1G0091	9HV0812P1G6101		9HV0848P1G010
9HV0812P1G010	9HV0812P1H601		9HV0848P1G0101
9HV0812P1G0101	9HV0812P1H6011		9HV0848P1G011
9HV0812P1G011	9HV0812P1H6031		9HV0848P1G0111
9HV0812P1G012	9HV0812P1H6041		9HV0848P1G012
9HV0812P1G013	9HV0812P1H6051		9HV0848P1G013
9HV0812P1G016	9HV0812P1H6061		9HV0848P1G014
9HV0812P1G017			9HV0848P1G015

### Air Flow-Static Pressure Performance Curves

Model : 9HV0812P1G001

(with SANYO DENKI Double chamber system)



## Reliability Test Report

### 1. Model Number: 9HV0812P1G001 (with change the impeller material to “G793Z”)

### 2. Reliability Test Conditions and Result

The reliability test consists of a series of environmental and life tests of simulated or accelerated stress factors (current, voltage, temperature and mechanical) having possible impact on the reliability of fan motors. The nature of each test and outlines of the test methods, together with the results of the tests are provided in the attached document.

### 3. Conclusion

The test results show compliance with reliability test standards of SANYO DENKI.

On behalf of Sanyo Denki Co., Ltd.

Quality Control Department

Cooling System Division

## RELIABILITY TEST RESULTS

Tested model: 9HV0812P1G001 (with change the impeller material to "G793Z")

### EVALUATION TEST

GROUP	ITEM	STANDARD	TEST CONDITION		SAMPLE	DEFECT
I	Oscillation	JIS C 60068-2-6	Frequency Sweep Amplitude Direction Test times  Power Measurement	10 - 55Hz 1 oct/min 1.5 mm The X,Y,Z-axis 2 hours each axis (Total 6 hours) OFF Room temp	6	0
	Shock (Half sine pulse)	JIS C 60068-2-27	Acceleration Direction  Number of times  Power Measurement	300 m/s <sup>2</sup> for 18m sec. The X,Y,Z-axis (Both directions) 3 time each (Total 18 times) OFF Room temp		0
	Humidity	JIS C 60068-2-78	Temperature Humidity Time Power Measurement	70°C±2°C 90 – 95% 240 hours ON Room temp		0
II	Low temperature	JIS C 60068-2-1	Temperature  Duration Power Measurement	-5 K lower than guaranteed temperature 24 hours ON -5 K lower than guaranteed temperature	6	0
	High temperature	JIS C 60068-2-2	Temperature  Duration Power Measurement	+5 K higher than guaranteed temperature 24 hours ON +5 K higher than guaranteed temperature		0
	Cycle of low vs. High temperature	JIS C 60068-2-14	Temperature  Duration (Shift Time) Number of cycles Power Measurement	Low temp. at -25 °C High temp. at +85 °C 30 minutes at each temp. (Less than 3 minutes.) 100 cycles OFF Room temp		0