

Test Report

Name of Product: Sink dishwasher

Type of inspection: Entrusted inspection

Inspected Entity: --

Entrusting Party: Ningbo FOTILE Kitchen Ware Co., Ltd.

China Household Electrical Appliances Research Institute

Special seal for inspection and testing of CHEARI(seal)

Test Report

No. of Report: WCjs-19-40717

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Name of Product	Sink dishwasher	Model No. and Specifications	JPSD1T-C3D 1850W
Trademark	FOTILE	Sample Quantity	1
Sampling Place	--	Sample Grade	--
Sampling Base	--	Type of Inspection	Entrusted Inspection
Source of Sample	Sample delivery	No. of Sample	1914-00031-1
Manufacturer	Ningbo FOTILE Kitchen Ware Co., Ltd.	Address of Manufacturer	No. 218, Binhai 2 nd Road, Hangzhou Bay New District, Ningbo City, Zhejiang Province
Inspected Entity	--	Address of Inspected Entity	--
Entrusting Party	Ningbo FOTILE Kitchen Ware Co., Ltd.	Address of Entrusting Party	No. 58, Binhai 3 rd Road, Hangzhou Bay New District, Ningbo City, Zhejiang Province
Inspection Standards	QB/T 5133-2017 <i>Technical Requirements and Test Methods for Anti-microbial and Eliminating microbial Functions for Household and Similar Dishwashers;</i> <i>Pesticide Removal Rate Test Scheme</i>		

Inspection conclusion:

As required by Ningbo FOTILE Kitchen Ware Co., Ltd., the FOTILE brand JPSD1T-C3D sink dishwasher they produced was tested for its sterilization performance (escherichia coli, staphylococcus aureus) and pesticide removal rate. This test only provides data and does not make judgments.

This test results also apply to model JPSD1T-CT03D and JPSD1T-CJ03D.

Note: At the request of the client, this sterilization performance test uses the tableware specified in Appendix A of Annex 7 of GK 38 *Electrical Product Performance Certification Implementation Rules*, not the tableware specified in QB/T 5133-2017.

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(In this report, the entrusting party is responsible for the authenticity of the sample and related materials, and the testing agency is only responsible for the accuracy of the testing data.)

Special seal for inspection and testing of CHEARI(seal)

Issuing date: January 3, 2020

Inspector: Nan Qian (signature) Reviewer: Zhou Wenhong (signature) Approver: Zhang Qingling(signature)

Description or Photo
<p>1. Type of Sample: Whole machine [<input checked="" type="checkbox"/>] Components []</p>
<p>2. Water Pressure: Range of Pressure: (0.14-1) MPa; Water temperature: -- °C</p>
<p>3. Rinsing method Spraying [<input checked="" type="checkbox"/>] Other []</p>
<p>4. Power supply properties Single-phase alternating current [<input checked="" type="checkbox"/>] Three-phase alternating current [] Direct current [] Power not needed []</p>
<p>5. Rated value Rated voltage or voltage range: 220V Rated current or current range:-- Rated power or power range: 1850W Rated frequency or frequency range:50Hz</p>
<p>6. Type of protection against electric shock : Type 0 [] Type 0I [] Type I [<input checked="" type="checkbox"/>] Type II [] Type III []</p>
<p>7. Type of power plug: Single-phase two-pole [] Single-phase three-pole [<input checked="" type="checkbox"/>] Three-phase four-pole []</p>
<p>8. Overall dimensions: Length 481mm × Width 488 mm × Height (including drain-pipe) 595 mm</p>
<p>9. Others:--</p>

Description or Photo

FOTILE

Product Name: Sink dishwasher

Product Model: JPSDIT-C3D

Rated Voltage: 220V~ Waterproof Level: IPX1

Rated Frequency: 50Hz Rated Water Pressure: 0.14-1 MPa

Rated Power: 1850W

Made by Ningbo FOTILE Kitchen Ware Co., Ltd.

Company Address: No. 218, Binhai 2nd Road, Hangzhou Bay
New District, Ningbo City, Zhejiang Province (315336)Production Address: No. 58, Binhai 3rd Road, Hangzhou Bay
New District, Ningbo City, Zhejiang Province (315336)

Hotline: 952315

Attentions

1. Please ensure that the water supply pipe and drain pipe of the dishwasher are unobstructed.
2. Please remove the food residues in the tableware before you put them into the machine to prevent clogging of the filter screen, and at the same time, put them in the correct position.
3. Tableware with poor heat resistance should not be washed in the washing machine to avoid deformation.
4. Clean the filter system of the machine thoroughly every seven days or so.
5. Clean up the residue in the slag basket of the machine in time after each cleaning.

Please unplug the power plug when cleaning the whole machine.

JPSDIT-C3D (Data plate)

FOTILE

Product Name: Sink dishwasher

Product Model: JPSDIT-CT03D

Rated Voltage: 220V~ Waterproof Level: IPX1

Rated Frequency: 50Hz Rated Water Pressure: 0.14-1 MPa

Rated Power: 1850W

Made by Ningbo FOTILE Kitchen Ware Co., Ltd.

Company Address: No. 218, Binhai 2nd Road, Hangzhou Bay
New District, Ningbo City, Zhejiang Province (315336)Production Address: No. 58, Binhai 3rd Road, Hangzhou Bay
New District, Ningbo City, Zhejiang Province (315336)

Hotline: 952315

Attentions

1. Please ensure that the water supply pipe and drain pipe of the dishwasher are unobstructed.
2. Please remove the food residues in the tableware before you put them into the machine to prevent clogging of the filter screen, and at the same time, put them in the correct position.
3. Tableware with poor heat resistance should not be washed in the washing machine to avoid deformation.
4. Clean the filter system of the machine thoroughly every seven days or so.
5. Clean up the residue in the slag basket of the machine in time after each cleaning.

Please unplug the power plug when cleaning the whole machine.

JPSDIT-CT03 (Data plate)

Description or Photo

FOTILE

Product Name: Sink dishwasher

Product Model: JPSD1T-CT03D

Rated Voltage: 220V~ Waterproof Level: IPX1

Rated Frequency: 50Hz Rated Water Pressure: 0.14-1 MPa

Rated Power: 1850W

Made by Ningbo FOTILE Kitchen Ware Co., Ltd.

Company Address: No. 218, Binhai 2nd Road, Hangzhou Bay

New District, Ningbo City, Zhejiang Province (315336)

Production Address: No. 58, Binhai 3rd Road, Hangzhou Bay New

District, Ningbo City, Zhejiang Province (315336)

Hotline: 952315

Attentions

1. Please ensure that the water supply pipe and drain pipe of the dishwasher are unobstructed.
2. Please remove the food residues in the tableware before you put them into the machine to prevent clogging of the filter screen, and at the same time, put them in the correct position.
3. Tableware with poor heat resistance should not be washed in the washing machine to avoid deformation.
4. Clean the filter system of the machine thoroughly every seven days or so.
5. Clean up the residue in the slag basket of the machine in time after each cleaning.

Please unplug the power plug when cleaning the whole machine.

JPSD1T-CJ03D (Data plate)

Description or Photo

Photo

JPSD1T-C3D (Whole Machine)

Photo

JPSD1T-C3D (Tableware placement)

Description or Photo

1. Confirm the sample before inspection

- ☒ Well packaged ☒ The product is normal. ☒ Meet the requirements of inspection
☒ Correct quantity ☒ The sample is consistent with the description in the order.
☒ Complete accessories ☒ Other

2. In this report, "Pass" means that the test method/test result meets the standard requirements;

"Qualified" means that the result of the current item meets the standard requirements;

"Fail" means that the test method/test result does not meet the standard requirements;

"Unqualified" means that the result of the current item does not meet the standard requirements;

"--" indicates that the requirement ☒ does not apply to the sample;

☐ or the test was not performed this time.

When multiple options are provided with ☐ in this report, a ☒ in ☐ indicates the selected option.

3. Starting date of the inspection: December 9, 2019

Ending date of the inspection: January 2, 2020

4. This inspection ☒ does/☐ does not deviate from the standard.

The reason and detail of deviation: At the request of the client, this sterilization performance test uses the tableware specified in Appendix A of Annex 7 of GK 38 *Electrical Product Performance Certification Implementation Rules*, not the tableware specified in QB/T 5133-2017. The tableware used are:

Name	Parameter
Rice Bowl	φ117mm×52mm, 7
6-inch Noodle Bowl	φ159mm×56mm, 4
Mug	φ85mm×94mm, 4
Chopsticks	225mm, 7pairs
Condiment Dish	φ95mm×23mm, 4
Small Spoon	135mm, 7
8-inch Deep Dish	φ208mm×36mm, 3
8-inch Shallow Dish	φ205mm×25mm, 4
Big Soup Bowl	φ207mm×96mm
Fish-steaming Plate	321mm×211mm×36mm
Rice Spoon	200mm×71mm, 1
Spoon	217mm×63mm, 1

Inspection Instructions

5. The sample [☒] does not have / [☐] has:

[☐] complement / [☐] replacement, reason and timing:

6. Unless otherwise specified, this inspection was conducted at the China Household Electrical Appliances Research Institute.

7. The difference between the main test sample and the covered sample is:

Model		Functional sink position	Glass panel	Whether there is a top door mechanism	Whether there is an air supply component
Main sample	JPSD1T-C3D	Single	No silk screen in the bottom	No	Yes
Sample covered	JPSD1T-CT03D	Single	Gray silk screen in the bottom	No	Yes
	JPSD1T-CJ03D	Single	Orange silk screen in the bottom	No	Yes

No other differences, and will not affect the sterilization effect and pesticide removal effect.

QB/T 5133-2017

Articles	Items tested and requirements			Result - description		Judgement
	Item	Unit	Standard value	Actual value		
4	Technical Requirements					
4.2	Sterilization performance	Escherichia coli	%	≥99.9	>99.99	--
		Staphylococcus aureus			>99.99	--
	Logarithmic value of Sterilization	Escherichia coli	--	≥3.0	6.81	--
		Staphylococcus aureus			6.70	--
Inspection Instructions: 1. Testing procedure: Super strong dishwashing 2. Load capacity: 7 sets 3. Contaminated tableware: 4 sets						

Testing Results of Pesticide Removal Rate						
No.	Item tested	Concentration of pesticide residues on the surface of cherry tomatoes p_0 (mg/kg)	Concentration of pesticide residues on the surface of cherry tomato after cleaned by the sample machine p (mg/kg)	Removal Rate X (%)	Sample liquid testing method	Judgement
1	Dichlorvos	2.21	0.02	99.1	Based on NY/T 761-2008	--
2	Acephate	2.21	0.05	97.7		--
3	Omethoate	2.21	0.07	96.8		--
4	Dimethoate	2.21	0.09	95.9		--
5	Chlorpyrifos Methyl	2.21	0.08	96.4		--
6	Phorate	2.11	0.04	98.1		--
7	Malathion	2.11	0.10	95.3		--
8	Triazophos	2.11	0.10	95.3		--
9	Fenitrothion	2.11	0.07	96.7		--
10	Methyl Parathion	2.11	0.07	96.7		--
11	Clenbuterol	2.36	0.03	98.7	Referred to GB/T21313-2007	--
12	Carbendazim	2.36	0.090	96.2	Referred to GB/T20769-2008	--
13	Pirimicarb	2.36	0.17	92.8		--
14	Carbaryl	2.36	0.39	83.5		--

Notes:

1. Pesticide residue concentration p_0 on the surface of cherry tomato sample. (The residual concentration p_0 is about 2 mg/kg)

Weigh a cleaned and dried cherry tomato (about 10g-25g), the mass is m (unit:g), according to the mass of the cherry tomato, use a small watering can to spray the surface of the cherry tomato gently with a concentration of $C_0=10$ mg/L and a volume of V (unit: mL) (about 2 mL-5 mL, the specific spray volume is determined by the mass of the cherry tomato). Spray a small amount for several times to make pesticide residue on the surface of the cherry tomato, and the concentration of pesticide residues on the surface of cherry tomato samples is p_0 (unit: mg/kg):

$$p_0 = \frac{C_0 \times V \times 10^{-3}}{m \times 10^{-3}}$$

2. Use the sample machine to clean the cherry tomato with pesticide residues

2.1 Rinse the machine according to the product manual.

2.2 After the rinsing, put the pesticide residue cherry tomato (the quantity is 1) prepared in the **first** step into the machine for cleaning, and select strong washing procedure for fruits and vegetables.

2.3 Let the cherry tomato dry naturally after being washed, and then measure according to step 3.

3. Determination of the pesticide concentration on the surface of the cherry tomato sample after being cleaned by the sample machine (Note: use the cherry tomato which was cleaned by the sample machine according to step 2)

3.1 Extraction

Put the cleaned cherry tomato into a homogenizer, add 50 mL of acetonitrile, homogenize it at a high speed in the homogenizer for 2 minutes, and filter it with filter paper. Collect the filtrate into a 100ml measuring cylinder with a stopper containing 5g-7g sodium chloride, collect 40ml-50ml filtrate, cover the stopper, shake vigorously for 1 min, and stand at room temperature for 30 min to separate the acetonitrile phase and the water phase.

3.2 Purification

Draw 10.00 mL of acetonitrile solution from the measuring cylinder with a stopper, put it into a 150 mL beaker, heat the beaker on an 80°C water bath, slowly introduce nitrogen into the beaker. When the solution is almost evaporated, add 2.0 mL of acetone, cover with aluminum foil for later use.

Transfer all the above solution to a 15 mL graduated centrifuge tube, rinse the beaker three times with about 3 mL of acetone, pour into the centrifuge tube, and finally make the volume to 5 mL, mix on a vortex mixer, and transfer into 2 mL autosampler bottles respectively for analytical determination. If the sample solution is too turbid, use a 0.2 µm filter membrane to filter it and then measure it. The measured concentration of the sample solution is c (unit: mg/L), which is calculated from the standard curve.

3.3 The pesticide quantity on the surface of the cherry tomato sample after being cleaned by the sample machine is calculated as follows:

$$p = \frac{V_1 \times V_3 \times c}{V_2 \times m}$$

In the above formula:

p -- the pesticide quantity on the surface of the cherry tomato sample after being cleaned by the sample machine, mg/kg;

c -- the concentration of the sample solution calculated from the standard curve, mg/L; V_1 -- total volume of the solution extracted, 50mL;

V_2 -- volume of solution drawn for inspection, 10mL;

V_3 -- volume of solution for final measuring, 5mL; m -- mass of the sample, g.

4. Measuring of pesticide residue removal rate

The pesticide residue removal rate is calculated as follows:

$$X = \left(1 - \frac{p}{p_0} \right) \times 100\%$$

X -- pesticide residue removal rate %;

p_0 -- pesticide residues on the surface of the cherry tomato after spraying, mg/kg;

p -- Pesticide residues on the surface of the cherry tomato cleaned by the sample machine, mg/kg;

Controlled Elements				
Element	Manufacturer	Model	Technical Data	Remark
Daily use tubular heating element	Hangzhou Heatwell Electric Heating Technology Co., Ltd.	SE-2	220~240V 50Hz 1800W	--
Daily use tubular heating element (Cartridge heater)	NINGBO SUNNY Electrical Heating Appliances Co., LTD	SN	220V 1800W 50Hz	--
DC brushless motor	CIXI TIANXING ELECTRICAL APPLIANCES CO., LTD	85ZWM-1604	DC310V 30W 3000r/min Class E	--
ECU	Shenzhen Topband Co.,Ltd. / Sanmen Kangchuang Electronic Technology Co., Ltd / NINGBO SHUNYUN ELECTRONIC CO., LTD	KB-6160/FR-4	Green KB-6160/KB-6160A Thickness:1.6mm /FR-4 (1.6mm) 94V0	Power
ECU	NINGBO SHUNYUN ELECTRONIC CO.,LTD	Green TL-S/ Green cs-1	Green TL-S Thickness:1.5mm/ Green cs-1 Thickness:1.5mm	Ultrasonic
Drain valve	Zhejiang Yuhua Electronics Co.,Ltd.	XPQ-8	220-240VAC 50/60Hz Input power: 5.5W Class E	Spare
Electric water valve (Inlet solenoid valve)	ZHEJIANG HONGCHANG ELECTRICAL TECHNOLOGY CO., LTD	FCD180C24	220-240VAC 50/60Hz Type 1 6000 cycles	--
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Precautions

1. A report without the special seal for inspection and testing or the official seal of the testing authority is invalid.
2. A copy of the report not re-stamped with the special seal for inspection and testing or the official seal of the testing authority is invalid.
3. The report is invalid without the signature or seal of the inspector, reviewer and approver.
4. The report is invalid if altered.
5. A report without qualification mark can be used for internal reference or new product verification by the client.
6. If you have any objection to the test report, you should submit a written opinion to the agency within 15 days from the date of receipt of the report, and it will not be accepted after the deadline.
7. This test is only responsible for the tested sample.
8. A copy of this report should be provided by China Household Electrical Appliances Research Institute.

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