

Technical Report No.: 64.181.21.03042.01 Rev.00

Date: 2021-07-28

Client: Report holder's name: Guangdong Jienuo Electric Appliances Co., Ltd.

Report holder's Address: No.23 Yonghui Road. Nantou Town, Zhongshan, Guangdong

Contact person of applicant: Mr. SHI Jianhong

Manufacturer's name: Guangdong Jienuo Electric Appliances Co., Ltd.

Manufacturer's address: No.23 Yonghui Road. Nantou Town, Zhongshan, Guangdong

Manufacturing place: Factory's name: Guangdong Jienuo Electric Appliances Co., Ltd.

Factory's address: No.23 Yonghui Road. Nantou Town, Zhongshan, Guangdong

Test object: Product: Dishwasher

Type: TDJR01A, TDJR02A, TDJR03A, TDJR05A; TDQR01A, TDQR02A, TDQR03A, TDQR05A

Trade mark: **JEENOW**

Test specification: EN 60436: 2020+A11:2020
EN 50564: 2011
EN 60704-2-3:2019/A11:2019

Purpose of examination: Testing according to the test specification
EU 2019/2022:2019-10-01
EU 2019/2017:2019-03-11
EU 2021/913:2021-06-03

Test result: The test results show that the presented product is in compliance with the specific requirements.

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1. Description of the test object

1.1 Picture(s)



More details can refer to Appendix No.3: Photo documentations.

1.2 Function

Manufacturer's specification for intended use:

The appliances are dishwasher for household use.

Manufacturer's specification for predictive use:

According to the user manual.

1.3 Consideration of the foreseeable use

1.4 Technical Data

Model	:	TDJR01A, TDJR02A, TDJR03A, TDJR05A; TDQR01A, TDQR02A, TDQR03A, TDQR05A
Rated Voltage (V)	:	220-240V~
Rated Frequency (Hz)	:	50Hz
Rated Power (W)	:	950W
Protection Class	:	<input checked="" type="checkbox"/> Class I; <input type="checkbox"/> Class II; <input type="checkbox"/> Class III
Degree of Protection	:	IPX1

Construction : Stationary
 Portable
 Hand-held
 Open-frame

Supply connection : Non detachable cord
 Permanent connection to fixed wiring
 Appliance inlet

Operation mode : continuous operation;
 Intermittent operation;
 Short time operation;

Rated capacity (ml), if any : N/A

Weight (kg) : N/A

Refrigerant : N/A

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2. Order

2.1 Date of Purchase Order, Customer's Reference

Date of Purchase Order: 2021-06-01,
Customer's Reference: Guangdong Jienuo Electric Appliances Co., Ltd.

2.2 Test Sample(s)

- Reception date(s): 2021-06-23
- Location(s) of reception: No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, 510663, P. R. China
- Condition of test sample(s): completed and can be normal operation

2.3 Date(s) of Testing 2021-06-25 to 2021-07-26

2.4 Location(s) of Testing No.3, Tiantaiyi Road, Kaitai Avenue, Science City, Guangzhou, 510663, P. R. China

2.5 Points of Non-Compliance or Exceptions of the Test Procedure

- None
- Procedure: N/A
- Rational: N/A
- Not performed tests: N/A

3. Test Results

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Telephone : +86 20 38320668
Telefax : +86 20 38320478

<http://www.tuv-sud.cn>

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch,
TÜV SÜD Group

5F, Communication Building, 163 Pingyun Rd, Huangpu Ave.
West, Guangzhou, 510656, P.R.China

3.1 Positive Test Results

N/A

3.2 Points of Non-Compliance according to the test specification

- None

4. Remarks

4.1 General

- 1) The appliance is dishwasher for household use.
- 2) The main power is supplied via the unit by a 3-pole supply cable with a plug.
- 3) The models TDJR02A, TDJR03A and TDJR05A are same as model TDJR01A except overview, details can refer to Appendix No.3: Photo documentations;
- 4) The models TDQR01A, TDQR02A, TDQR03A and TDQR05A are same as model TDJR01A, TDJR02A, TDJR03A and TDJR05A except TDQR01A, TDQR02A, TDQR03A and TDQR05A without water softener.
- 5) The appliance was installed according to user manual and standard requirements.
- 6) All tests except for noise test were tested according to standard EN 50564: 2011 & EN 60436: 2020.
- 7) Annex II, IV of Regulation EU No. 2019/2017 and annex II, III of Regulation EU No. 2019/2022 and Directive (EU) 2016/2282 were considered in this report.
- 8) The test carried out on model TDJR01A as representative, test results referred only to the submitted samples and the tests that are fixed according to the scope of the order.

4.2 Factory surveillance cycle

Your production facility is currently on a

- Annual (12 month)
 Bi-Annual (6 month)
 Quarterly (3 month)
 N/A

surveillance cycle.

- 4.3** The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.
- 4.4** When the product is placed on the market, it must be accompanied with safety Instructions written in official language of the country. The instructions shall give information regarding safe operation, installation and maintenance.
- 4.5** According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.
- 4.6** The manufacturer/ Importer has to ensure the appliance placing on the EU market conforms to the applicable EU directives which provide the affixing of the CE marking, such as LVD, EMC, RoHS, ErP, and so on.

5. Documentation

- Appendix No.1: Format of test results
- Appendix No.2: Marking plate
- Appendix No.3: Photo documentations
- Appendix No.4: Test equipment list

6. Summary

None.

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch TÜV SÜD Group

Tested by:



Plum Li, Project Handler

printed name, function & signature

Approved by:

Tony Xie, Designated Reviewer

printed name, function & signature

Appendix 1 Test results

Model	TDJR01A		
Standard program	ECO		
Characteristic	Measured value	Deviation	Declaration
Standard loading (Place settings)	2	--	2
Energy efficiency class	F	--	F
Eco programme energy consumption (kWh/cycle), EPEC	0,384	100%	0,384
Energy consumption, program (kWh)	0,384	--	0,384
Eco programme energy consumption per 100 cycles (kWh)	38,4	100%	38,4
Standard programme energy consumption (kWh/cycle), SPEC	0,630	--	--
Energy efficiency Index, EEI	61,0	--	--
Power consumption in off-mode (W), Po	0,49	100%	0,49
Power consumption in standby mode (W), Psm	0,49	100%	0,49
Power consumption in delay start (W), Pds	--	--	--
Eco programme water consumption (l/cycle), EPWC	4,2	100%	4,2
Cleaning efficiency Index, Ic	1,21	100%	1,21
Half range of the logarithmic cleaning confidence interval, ln WC	0,043	--	--
Drying performance Index, Id	1,10	100%	1,10
Half range of the logarithmic drying confidence interval, ln W _D	0,021	--	--
Duration of the eco programme (h:mim), Tt	0:59+1:00	+2,5%	2:02
Acoustic airborne noise emission classes	D	--	D
Noise (dB(A))	59,9	100%	59,9
Remark: The test results refer only to the submitted samples and the tests that are fixed according to the scope of the order.			

a) Test machine:

Type	TDJR01A
Cleaning program	ECO
Detergent dosing	8 g
Clear rinse agent	Setting 2
Loading	2 standard covers
Softener setting	H4
Installation	Free standing
Other machine settings	N/A

b) Reference machine

Type	Miele G 1222 SC
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c) Standby measurement

Measurement instrument	WT210, YOKOGAWA
Accuracy	0.1%
Voltage	230V, 50Hz
Uncertainty	0.2% (K=2)
Standby mode	With power management.

Test conditions according: EN 60436

Items	Tolerance	Test value
Ambient temperature	(23 ± 2) °C	23,2°C
Relative humidity of air	(55 ± 5) %	56,2% RH
Water inlet temperature	(15 ± 2) °C	15,0°C
Flow rate pressure	0,24 Mpa ± 0,02 Mpa	0,24Mpa
Voltage	230 V ± 1% V	230,0V
Water quality total hardness	2,5 mmol/l ± 0.5 mmol/l	2,5 mmol/l
Detergent	Reference Type "D"	
Rinse agent	Referenc rinse agent Formula "III"	
Regeneration salt	Yongda Co., Ltd.	

1.1 Determination of cleaning performance

Cleaning performance							
Calculations							
Run number		1	2	3	4	5	Mean value
Parameter	Symbol						
Total number of scores for all items (TDJR01A / Miele G 1222 SC)	N	24 / 136	24 / 136	24 / 136	24 / 136	24 / 136	
Test dishwasher single cleaning index	$C_{T,i}$	4,38	4,42	4,54	4,50	4,38	4,44
Reference dishwasher single cleaning index	$C_{R,i}$	3,67	3,74	3,60	3,68	3,72	3,68
Single cleaning performance index	$I_{c,i}$	1,19	1,18	1,26	1,22	1,18	1,21
Half range of the logarithmic cleaning confidence interval	$\ln W_c$	0,043					
Remark	1. Individual results C_T see page 11 to 13. 2. Individual results C_R see page 13 to 17.						

1.2 Determination of the drying efficiency

Drying performance							
Calculations of the drying index							
Run number		1	2	3	4	5	Mean value
Parameter	Symbol						
Total number of scores for all items (TDJR01A / Miele G 1222 SC)	N	24 / 136	24 / 136	24 / 136	24 / 136	24 / 136	
Test dishwasher single drying index	$D_{T,i}$	0,90	0,92	0,92	0,88	0,92	0,90
Target drying score of the reference machine	$D_{R,t}$	0,82					
Single drying performance index	$I_{d,i}$	1,09	1,12	1,12	1,07	1,12	1,10
Calculations of the confidence interval for the drying index ($\ln W_D$)							

Test dishwasher single drying index	$D_{T,i}$	0,90	0,92	0,92	0,88	0,92	0,90
Reference dishwasher single drying index	$D_{R,i}$	0,82	0,87	0,84	0,85	0,82	0,84
Single drying performance index	$I_{D,i}$	1,09	1,06	1,09	1,03	1,12	1,08
Half range of the logarithmic drying confidence interval	$\ln W_D$	0,021					
Remark	1. Individual results C_T see page 17 to 18. 2. Individual results C_R see page 18 to 22.						

1.3 Energy consumption, water consumption and time

Energy consumption, water consumption and time							
Run Number		1	2	3	4	5	Mean value
Energy consumption (kWh)		0,379	0,386	0,372	0,382	0,385	0,381
Main washing	Average cold water temp, (°C)	15,5	15,9	15,2	15,0	15,5	15,4
	Cold water volume (l)	1,5	1,5	1,5	1,5	1,5	1,5
	Cold water energy correction (kwh)	0,0009	0,0016	0,0003	0,0000	0,0009	0,001
Rinse washing	Average cold water temp (°C)	16,2	16,5	16,2	16,4	16,8	16,4
	Cold water volume (l)	1,4	1,4	1,4	1,4	1,4	1,4
	Cold water energy correction (kwh)	0,0020	0,0024	0,0020	0,0023	0,0029	0,002
Cold water energy correction (kwh)		0,003	0,004	0,002	0,002	0,004	0,003
Eco programme energy consumption (kWh/cycle)		0,384					

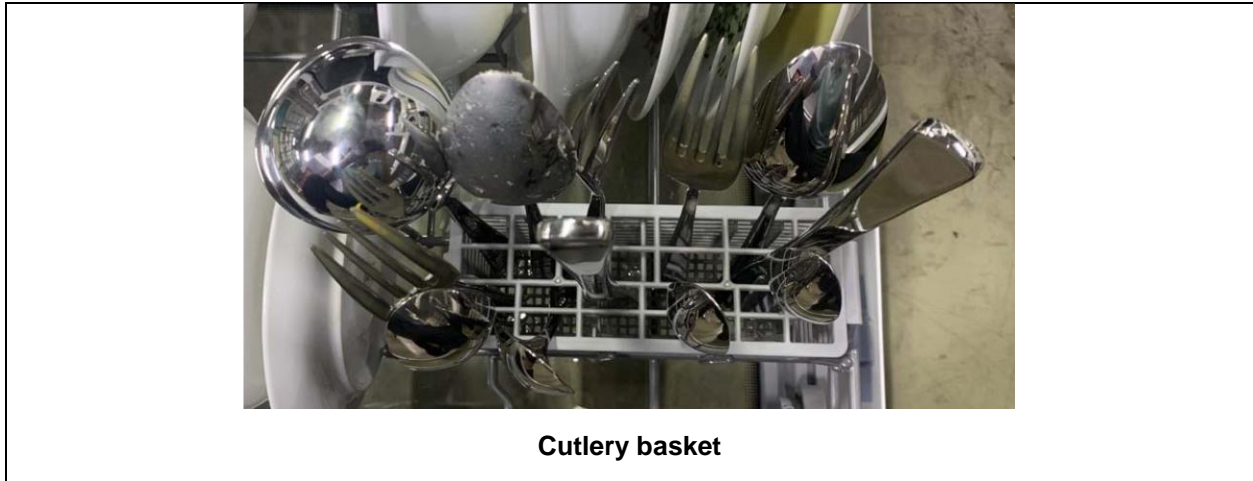
Water consumption (l)	4,2	4,2	4,2	4,2	4,2	4,2
Program time (min)	122	121	123	122	121	122
Softener regeneration	--	--	--	--	--	--

2 Determination of the Standby consumption

Test status	Test period	Average power
Power consumption in off-mode	0:00:00 – 0:30:00	0,49 W
Power consumption in standby mode	0:00:00 – 0:15:00	0,49 W
Power consumption in delay start	--	--

3 Loading scheme





4 Individual results

4.1 Cleaning evaluation

Cleaning evaluation								
Test data for: Test machine								
Test sample:			TDJR01A					
Place settings:			2					
Program:			ECO					
Detergent dosage:			8 (g) Detergent D					
Rinse aid setting:			Add 2mL of rinse manually					
Illuminance (Lux)			1280	1280	1280	1280	1280	--
Part- No.	Items being cleaned	Type of soil	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value
			Score b	Score b	Score b	Score b	Score b	
1	Soup Plates	Oak Flakes	4	5	5	5	5	5
2	Dessert bowl	Oak Flakes	5	5	5	5	5	5
3	Melamine dessert plate	Egg	5	5	5	5	4	5
4	Dessert Dishes	Spinach	3	4	4	5	5	4
5	Dessert Dishes	Mincemeat	4	3	2	2	1	2
6	Dessert Dishes	Egg	5	5	5	5	5	5
7	Cups	Tea	2	2	4	4	2	3
8	Mug	Tea	2	1	1	2	2	2
9	Saucers	Tea	5	5	5	5	5	5
10	Melamine bowl	Margarine	5	5	5	5	5	5
11	Glasses	unsoiled	5	5	4	5	5	5
12	Glasses	Milk	2	2	4	2	2	2
13	Soup Spoons	unsoiled	4	5	5	5	5	5

14	Soup Spoons	Oak Flakes	5	5	5	4	4	5
15	Forks	Egg	5	5	5	5	5	5
16	Forks	Egg	5	5	5	5	5	5
17	Knife	unsoiled	5	5	5	4	5	5
18	Knife	unsoiled	5	5	5	5	5	5
19	Dessert Spoon	unsoiled	4	5	5	5	5	5
20	Dessert Spoon	unsoiled	5	4	5	5	5	5
21	Teaspoon	unsoiled	5	5	5	5	5	5
22	Teaspoon	unsoiled	5	5	5	5	5	5
23	Serving Fork	unsoiled	5	5	5	5	5	5
24	Gravy Ladle	unsoiled	5	5	5	5	5	5
Sum of all scores		Σ_c	105	106	109	108	105	--

Total-cleaning Index according EN 60436								
Cycle		Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value	- In Wc
I_c	Total cleaning performance index	1,20	1,19	1,27	1,23	1,19	1,22	
InI_c	-	0,18	0,18	0,24	0,21	0,17	0,20	0,036
$C_{Testm.}$	Cleaning index	4,38	4,42	4,54	4,50	4,38	4,44	
C_{China}	Index china	4,00	4,00	4,10	4,30	3,90	4,06	-
C_{Glass}	Index glass	3,50	3,50	4,00	3,50	3,50	3,60	-
$C_{Cutlery}$	Index cutlery	4,83	4,92	5,00	4,83	4,92	4,90	-
$C_{Referrm.}$	Total cleaning index	3,64	3,71	3,57	3,65	3,69	3,65	-
Consumptions								
Cycle		Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value	Standard Deviation
Energy consumptions (kWh)		0,379	0,386	0,372	0,382	0,385	0,381	0,005
Water consumptions (l)		4,2	4,2	4,2	4,2	4,2	4,2	--
Program time (min)		122	121	123	122	121	122	--
Softener regeneration		--	--	--	--	--	--	--
Test Date		2021-07-12	2021-07-13	2021-07-14	2021-07-15	2021-07-16	--	--
Evaluation depending of soil type								
Cycle		Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value	
Oak plates		4,00	5,00	5,00	5,00	5,00	4,80	

Oak spoons	5,00	5,00	5,00	4,00	4,00	4,60
Minced meat	4,00	3,00	2,00	2,00	1,00	2,40
Egg plates	5,00	5,00	5,00	5,00	4,00	4,80
Egg forks	5,00	5,00	5,00	5,00	5,00	5,00
Spinach	3,00	4,00	4,00	5,00	5,00	4,20
Tea	3,00	2,67	3,33	3,67	3,00	3,13
Milk glasses	2,00	2,00	4,00	2,00	2,00	2,40
Margarine	5,00	5,00	5,00	5,00	5,00	5,00

Cleaning evaluation

Test data for: Reference machine

Test sample: Miele G 1222 SC, reference

Place settings: 12

Program: Reference EN/IEC

Detergent dosage: 20 (g) IEC Type D

Rinse aid setting: 3

Part- No.	Items being cleaned	Type of soil	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value
			Score b	Score b	Score b	Score b	Score b	
1	Soup Plates	Oak Flakes	4	3	5	4	5	4
2	Soup Plates	Oak Flakes	2	4	2	5	3	3
3	Soup Plates	Oak Flakes	3	5	3	2	4	3
4	Soup Plates	Oak Flakes	5	2	2	3	2	3
5	Soup Plates	Oak Flakes	4	4	4	4	4	4
6	Soup Plates	Oak Flakes	3	3	2	2	3	3
7	Dessert bowl	Oak Flakes	2	4	3	3	2	3
8	Dessert bowl	Oak Flakes	3	2	4	3	4	3
9	Dessert bowl	Oak Flakes	4	3	2	2	2	3
10	Dessert bowl	Oak Flakes	2	5	3	3	3	3
11	Dessert bowl	Oak Flakes	3	4	2	4	4	3
12	Dessert bowl	Oak Flakes	2	3	3	2	4	3
13	Dinner Plates	Egg	5	5	5	5	5	5
14	Dinner Plates	Egg	5	5	2	4	5	4
15	Dinner Plates	Egg	4	4	4	5	4	4
16	Dinner Plates	Egg	5	5	5	5	5	5
17	Dinner Plates	Egg	5	4	5	4	5	5
18	Dinner Plates	Egg	5	5	5	5	5	5
19	Melamine dessert plate	Egg	5	5	5	4	5	5
20	Melamine dessert plate	Egg	5	5	5	5	5	5
21	Melamine dessert plate	Egg	5	5	4	5	4	5
22	Melamine dessert plate	Egg	4	5	5	5	5	5

23	Melamine dessert plate	Egg	5	5	4	5	5	5
24	Melamine dessert plate	Egg	5	5	5	5	5	5
25	Dessert Dishes	Spinach	2	2	4	2	4	3
26	Dessert Dishes	Spinach	3	3	2	2	2	2
27	Dessert Dishes	Spinach	2	4	3	3	1	3
28	Dessert Dishes	Spinach	3	2	1	4	3	3
29	Dessert Dishes	Spinach	4	1	4	2	2	3
30	Dessert Dishes	Spinach	2	3	2	2	4	3
31	Cups	Tea	2	0	0	0	2	1
32	Cups	Tea	0	2	2	0	0	1
33	Cups	Tea	0	1	2	2	1	1
34	Cups	Tea	1	0	0	1	2	1
35	Cups	Tea	2	2	1	2	1	2
36	Cups	Tea	0	0	2	0	0	0
37	Mug	Tea	0	0	2	2	0	1
38	Mug	Tea	0	2	2	0	2	1
39	Mug	Tea	2	0	0	0	0	0
40	Mug	Tea	0	0	0	2	2	1
41	Mug	Tea	0	2	2	2	0	1
42	Mug	Tea	2	0	0	1	2	1
43	Saucers	Tea	0	2	0	1	0	1
44	Saucers	Tea	0	2	2	2	2	2
45	Saucers	Tea	2	0	2	0	2	1
46	Saucers	Tea	2	0	0	2	0	1
47	Saucers	Tea	0	2	0	1	0	1
48	Saucers	Tea	1	2	2	0	2	1
49	Melamine bowl	Margarine	5	4	5	4	5	5
50	Melamine bowl	Margarine	5	5	5	5	5	5
51	ovale Platte	Mincemeat	2	4	0	3	2	2
52	Glass bowl	Mincemeat	0	2	1	3	0	1
53	Oven pot inner bottom	Mincemeat	2	0	1	2	1	1
54	Oven pot inner wall	Mincemeat	3	2	3	3	3	3
55	Oven pot outer surfaces	Mincemeat	5	5	5	5	5	5
56	Oven pot all pot surfaces	Mincemeat	4	5	4	5	4	4
57	Small pot inner bottom	Spinat+Margarine	2	2	1	3	3	2
58	Small pot inner wall	Spinat+Margarine	4	3	3	2	3	3
59	Small pot outer surfaces	Spinat+Margarine	5	4	4	5	5	5
60	Small pot all pot surfaces	Spinat+Margarine	4	5	4	4	5	4
61	Glasses	unsoiled	5	5	5	5	5	5



62	Glasses	unsoiled	5	5	4	5	5	5
63	Glasses	unsoiled	4	5	5	4	5	5
64	Glasses	unsoiled	5	5	5	5	5	5
65	Glasses	unsoiled	5	4	5	5	4	5
66	Glasses	unsoiled	4	5	5	5	5	5
67	Glasses	Milk	2	2	1	2	3	2
68	Glasses	Milk	3	2	3	2	1	2
69	Glasses	Milk	1	1	2	0	2	1
70	Glasses	Milk	2	2	3	3	2	2
71	Glasses	Milk	2	2	1	1	0	1
72	Glasses	Milk	1	2	2	2	1	2
73	Soup Spoons	unsoiled	5	5	4	5	5	5
74	Soup Spoons	unsoiled	5	5	5	5	5	5
75	Soup Spoons	unsoiled	4	5	5	4	5	5
76	Soup Spoons	unsoiled	5	5	4	5	4	5
77	Soup Spoons	unsoiled	5	5	5	5	5	5
78	Soup Spoons	unsoiled	5	5	5	4	5	5
79	Soup Spoons	Oak Flakes	2	3	2	2	4	3
80	Soup Spoons	Oak Flakes	3	3	3	1	2	2
81	Soup Spoons	Oak Flakes	2	2	4	3	3	3
82	Soup Spoons	Oak Flakes	1	1	2	2	2	2
83	Soup Spoons	Oak Flakes	3	2	1	1	2	2
84	Soup Spoons	Oak Flakes	2	3	2	3	1	2
85	Forks	Egg	5	5	5	5	5	5
86	Forks	Egg	5	5	5	4	5	5
87	Forks	Egg	4	5	4	5	4	4
88	Forks	Egg	5	5	4	5	5	5
89	Forks	Egg	5	4	5	4	5	5
90	Forks	Egg	4	5	5	5	5	5
91	Forks	Egg	5	5	4	5	4	5
92	Forks	Egg	5	4	5	5	5	5
93	Forks	Egg	4	5	5	4	5	5
94	Forks	Egg	5	5	4	5	5	5
95	Forks	Egg	5	4	5	5	5	5
96	Forks	Egg	5	5	5	5	5	5
97	Knife	unsoiled	5	5	4	5	5	5
98	Knife	unsoiled	5	5	5	5	5	5
99	Knife	unsoiled	5	5	4	5	4	5
100	Knife	unsoiled	4	5	5	5	5	5
101	Knife	unsoiled	5	4	5	5	5	5
102	Knife	unsoiled	5	5	4	4	5	5
103	Knife	unsoiled	5	5	5	5	5	5
104	Knife	unsoiled	4	4	5	5	4	4
105	Knife	unsoiled	4	5	5	4	5	5
106	Knife	unsoiled	5	5	4	4	5	5
107	Knife	unsoiled	5	4	5	5	5	5
108	Knife	unsoiled	5	5	5	5	5	5
109	Dessert Spoon	unsoiled	5	5	5	5	5	5
110	Dessert Spoon	unsoiled	5	5	5	5	5	5



111	Dessert Spoon	unsoiled	5	5	4	5	5	5
112	Dessert Spoon	unsoiled	5	5	5	5	5	5
113	Dessert Spoon	unsoiled	4	5	5	4	5	5
114	Dessert Spoon	unsoiled	5	5	5	5	4	5
115	Dessert Spoon	unsoiled	5	4	5	5	5	5
116	Dessert Spoon	unsoiled	5	5	5	5	5	5
117	Dessert Spoon	unsoiled	5	5	5	5	5	5
118	Dessert Spoon	unsoiled	5	5	5	5	4	5
119	Dessert Spoon	unsoiled	5	5	4	5	5	5
120	Dessert Spoon	unsoiled	5	5	5	5	5	5
121	Teaspoon	unsoiled	5	5	5	5	5	5
122	Teaspoon	unsoiled	5	5	4	5	5	5
123	Teaspoon	unsoiled	4	5	5	5	5	5
124	Teaspoon	unsoiled	5	5	5	5	4	5
125	Teaspoon	unsoiled	5	5	4	5	5	5
126	Teaspoon	unsoiled	5	4	5	4	5	5
127	Teaspoon	unsoiled	5	5	5	5	5	5
128	Teaspoon	unsoiled	5	5	4	5	5	5
129	Teaspoon	unsoiled	5	5	5	5	5	5
130	Teaspoon	unsoiled	5	5	5	4	5	5
131	Teaspoon	unsoiled	5	4	5	5	5	5
132	Teaspoon	unsoiled	5	5	5	5	4	5
133	Serving Spoon	unsoiled	5	5	5	5	5	5
134	Serving Spoon	unsoiled	5	5	5	5	5	5
135	Serving Fork	unsoiled	5	5	5	5	5	5
136	Gravy Ladle	unsoiled	5	5	5	5	5	5
Sum of all scores		Σ_c	499	508	490	501	506	--

Total-cleaning Index according EN 60436								
Cycle		Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value	Standard Deviation
C _{ref.}	Cleaning index	3,64	3,71	3,57	3,65	3,69	3,65	0,047
C _{China}	Index china	2,77	2,88	2,67	2,85	2,88	2,81	-
C _{Glass}	Index glass	3,25	3,33	3,42	3,25	3,17	3,28	
C _{Cutlery}	Index cutlery	4,59	4,61	4,52	4,55	4,61	4,58	
Test Date		2021-07-12	2021-07-13	2021-07-14	2021-07-15	2021-07-16	-	-
Evaluation depending of soil type								
Cycle		Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value	

Oak Plates	3,50	3,50	3,00	3,33	3,50	3,17
Oak Spoons	2,17	2,33	2,33	2,00	2,33	3,58
Milk Glasses	1,83	1,83	2,00	1,67	1,50	3,33
Margarine	3,75	3,50	3,00	3,50	4,00	5,00
Meat Dinner Plates	2,00	4,00	0,00	3,00	2,00	5,00
Large Bowl	2,67	3,50	2,83	2,83	3,17	5,00
Egg Dinner Plates	4,83	4,67	4,33	4,67	4,83	4,67
Egg Dessert Plates	4,80	5,00	4,60	5,00	4,80	2,83
Egg Forks	4,75	4,75	4,67	4,75	4,83	5,00
Spinach Dessert Plates	2,67	2,50	2,67	2,50	2,67	1,00
Medium Bowl	5,00	4,50	5,00	4,50	5,00	5,00
Small Bowl	0,00	2,00	1,00	3,00	0,00	5,00
Tea Cups	0,83	0,83	1,17	0,83	1,00	1,00
Tea Saucers	0,83	1,33	1,00	1,00	1,00	3,33
Knives	4,75	4,75	4,67	4,75	4,83	4,92
Dessert spoons	4,92	4,92	4,83	4,92	4,83	5,00
Tea spoons	4,92	4,83	4,75	4,83	4,83	5,00
Serving	5,00	5,00	5,00	5,00	5,00	5,00

4.2 Drying performance evaluation

4.2.1 Drying evaluation							
Test data for: Test machine							
Test sample:		TDJR01A					
Place settings:		2					
Program / Programm:		ECO					
Detergent dosage:		8 (g) IEC Type D					
Rinse aid setting:		Add 2mL of rinse manually					
Drying evaluation:							
2 = dry							
1 = intermediate							
0 = wet							
Illuminance (Lux)		1280	1280	1280	1280	1280	--
Part-No.	Items	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value
		Score c	Score c	Score c	Score c	Score c	Score c
1	Soup plate	2	2	2	2	2	2
2	Dessert bowl	2	2	2	2	2	2
3	Melamine dessert plate	2	2	2	2	2	2
4	Dessert Dishes	2	2	2	2	2	2
5	Dessert Dishes	2	2	2	2	2	2
6	Dessert Dishes	2	2	2	2	2	2
7	Cups	1	2	2	1	2	2

8	Mug	0	0	0	0	0	0	
9	Saucers	2	2	2	2	2	2	
10	Melamine bowl	2	2	2	2	2	2	
11	Glasses	1	2	2	2	1	2	
12	Glasses	1	0	0	1	2	1	
13	Soup Spoons	2	2	2	2	2	2	
14	Soup Spoons	2	2	2	1	2	2	
15	Forks	2	2	2	2	2	2	
16	Forks	2	2	2	1	1	2	
17	Knife	2	2	2	2	2	2	
18	Knife	2	2	2	2	2	2	
19	Dessert Spoon	2	2	2	2	2	2	
20	Dessert Spoon	2	2	2	2	2	2	
21	Teaspoon	2	2	2	2	2	2	
22	Teaspoon	2	2	2	2	2	2	
23	Serving Fork	2	2	2	2	2	2	
24	Gravy Ladle	2	2	2	2	2	2	
Sum of all scores		ΣD	43	44	44	42	44	44

Total-drying Index according EN 60436								
Cycle		Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value	In W _D
I _D	Total drying performance index	1,09	1,06	1,09	1,03	1,12	1,08	
InI _D		0,08	0,05	0,09	0,03	0,12	0,07	0,039
D	Drying index	0,90	0,92	0,92	0,88	0,92	0,90	
D _{China}	Index china	0,85	0,90	0,90	0,85	0,90	0,88	--
D _{Glass}	Index glass	0,50	0,50	0,50	0,75	0,75	0,60	
D _{Cutlery}	Index cutlery	1,00	1,00	1,00	0,92	0,96	0,98	
Test Date		2021-07-12	2021-07-13	2021-07-14	2021-07-15	2021-07-16	--	--
D _{Referenz}	Total drying index	0,82	0,87	0,84	0,85	0,82	0,84	-

4.2.2 Drying evaluation	
Test data for: Reference machine	
Sample	Miele G 1222 SC, reference
Place settings	12
Program	Reference EN/IEC
Detergent dosage	20 (g) IEC Type D
Rinse aid setting	3

Drying evaluation:

2 = dry / Trocken

1 = intermediate / mittelmäßig

0 = wet / Nass

Illuminance (Lux)		1280	1280	1280	1280	1280	--
Part-No.	Items	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value
		Score c	Score c	Score c	Score c	Score c	Score c
1	soup plate	2	1	1	1	2	1
2	soup plate	1	2	2	1	0	1
3	soup plate	1	1	1	2	1	1
4	soup plate	0	2	1	2	0	1
5	soup plate	2	2	2	1	2	2
6	soup plate	1	1	1	2	1	1
7	Dessert bowl	2	2	2	2	2	2
8	Dessert bowl	2	2	2	2	1	2
9	Dessert bowl	1	2	2	2	2	2
10	Dessert bowl	2	2	2	2	2	2
11	Dessert bowl	2	1	2	1	2	2
12	Dessert bowl	2	2	2	2	2	2
13	dinner plate	2	1	2	2	2	2
14	dinner plate	2	2	2	1	1	2
15	dinner plate	2	2	2	2	2	2
16	dinner plate	2	2	2	2	2	2
17	dinner plate	2	2	2	2	2	2
18	dinner plate	2	1	2	1	1	1
19	Melamine dessert plate	0	2	0	1	1	1
20	Melamine dessert plate	1	1	1	2	1	1
21	Melamine dessert plate	1	1	0	0	1	1
22	Melamine dessert plate	0	1	0	1	0	0
23	Melamine dessert plate	2	2	2	1	2	2
24	Melamine dessert plate	1	2	1	2	1	1
25	Dessert Dishes	2	1	2	1	2	2
26	Dessert Dishes	1	2	1	2	1	1
27	Dessert Dishes	2	0	1	1	2	1
28	Dessert Dishes	0	2	2	2	1	1
29	Dessert Dishes	2	2	2	2	2	2
30	Dessert Dishes	2	2	1	0	1	1
31	Cups	1	2	1	2	2	2
32	Cups	2	1	2	1	1	1
33	Cups	2	2	1	2	2	2
34	Cups	1	1	2	1	1	1
35	Cups	1	0	0	0	2	1

36	Cups	0	0	1	0	0	0
37	Mug	0	0	0	0	0	0
38	Mug	0	0	0	0	1	0
39	Mug	0	1	0	0	0	0
40	Mug	1	0	0	1	0	0
41	Mug	0	0	1	0	0	0
42	Mug	1	1	0	2	2	1
43	Saucers	2	2	2	2	2	2
44	Saucers	2	1	2	0	2	1
45	Saucers	1	2	1	2	1	1
46	Saucers	2	2	2	1	2	2
47	Saucers	2	1	2	2	0	1
48	Saucers	0	2	2	1	2	1
49	Melamine bowl	2	2	2	2	2	2
50	Melamine bowl	2	2	2	1	2	2
51	ovale Platte	2	2	1	2	1	2
52	Glass bowl	1	1	1	2	1	1
53	Oven pot inner bottom	0	1	0	1	0	0
54	Oven pot inner wall	1	2	0	1	1	1
55	Oven pot outer surfaces	2	1	2	2	2	2
56	Oven pot outer surfaces	1	2	1	2	1	1
57	Small pot inner bottom	0	1	0	1	0	0
58	Small pot inner wall	1	2	2	1	1	1
59	Small pot outer surfaces	1	1	1	2	2	1
60	Small pot all pot surfaces	2	2	2	2	1	2
61	Glasses	2	2	2	2	2	2
62	Glasses	0	2	2	2	2	2
63	Glasses	1	2	2	2	1	2
64	Glasses	2	2	2	2	0	2
65	Glasses	1	2	2	1	2	2
66	Glasses	2	2	1	2	1	2
67	Glasses	2	2	2	2	2	2
68	Glasses	1	2	2	1	2	2
69	Glasses	2	1	2	2	1	2
70	Glasses	2	2	2	2	2	2
71	Glasses	2	2	2	1	2	2
72	Glasses	2	2	2	2	1	2
73	Soup Spoons	2	2	2	2	2	2
74	Soup Spoons	2	2	2	2	2	2
75	Soup Spoons	2	2	2	2	2	2
76	Soup Spoons	2	2	2	2	2	2

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77	Soup Spoons	2	2	2	2	2	2
78	Soup Spoons	2	2	2	2	2	2
79	Soup Spoons	2	2	2	2	2	2
80	Soup Spoons	2	2	2	2	2	2
81	Soup Spoons	2	2	2	2	2	2
82	Soup Spoons	2	2	2	2	2	2
83	Soup Spoons	2	2	2	2	2	2
84	Soup Spoons	2	2	2	2	2	2
85	Forks	2	2	2	2	2	2
86	Forks	2	2	2	2	2	2
87	Forks	2	2	2	2	2	2
88	Forks	2	2	2	2	2	2
89	Forks	2	2	2	2	2	2
90	Forks	2	2	2	2	2	2
91	Forks	2	2	2	2	2	2
92	Forks	2	2	2	2	2	2
93	Forks	2	2	2	2	2	2
94	Forks	2	2	2	2	2	2
95	Forks	2	2	2	2	2	2
96	Forks	2	2	2	2	2	2
97	Knife	2	2	2	2	2	2
98	Knife	2	2	2	2	2	2
99	Knife	2	2	2	2	2	2
100	Knife	2	2	2	2	2	2
101	Knife	2	2	2	2	2	2
102	Knife	2	2	2	2	2	2
103	Knife	2	2	2	2	2	2
104	Knife	2	2	2	2	2	2
105	Knife	2	2	2	2	2	2
106	Knife	2	2	2	2	2	2
107	Knife	2	2	2	2	2	2
108	Knife	2	2	2	2	2	2
109	Dessert Spoon	2	2	2	2	2	2
110	Dessert Spoon	2	2	2	2	2	2
111	Dessert Spoon	2	2	2	2	2	2
112	Dessert Spoon	2	2	2	2	2	2
113	Dessert Spoon	2	2	2	2	2	2
114	Dessert Spoon	2	2	2	2	2	2
115	Dessert Spoon	2	2	2	2	2	2
116	Dessert Spoon	2	2	2	2	2	2
117	Dessert Spoon	2	2	2	2	2	2
118	Dessert Spoon	2	2	2	2	2	2
119	Dessert Spoon	2	2	2	2	2	2
120	Dessert Spoon	2	2	2	2	2	2
121	Teaspoon	2	2	2	2	2	2
122	Teaspoon	2	2	2	2	2	2
123	Teaspoon	2	2	2	2	2	2
124	Teaspoon	2	2	2	2	2	2
125	Teaspoon	2	2	2	2	2	2

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Telephone : +86 20 38320668
 Telefax : +86 20 38320478

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch,
 TÜV SÜD Group

<http://www.tuv-sud.cn>

5F, Communication Building, 163 Pingyuan Rd, Huangpu Ave.
 West, Guangzhou, 510656, P.R.China





126	Teaspoon	2	2	2	2	2	2	
127	Teaspoon	2	2	2	2	2	2	
128	Teaspoon	2	2	2	2	2	2	
129	Teaspoon	2	2	2	2	2	2	
130	Teaspoon	2	2	2	2	2	2	
131	Teaspoon	2	2	2	2	2	2	
132	Teaspoon	2	2	2	2	2	2	
133	Serving Spoon	2	2	2	2	2	2	
134	Serving Spoon	2	2	2	2	2	2	
135	Serving Fork	2	2	2	2	2	2	
136	Gravy Ladle	2	2	2	2	2	2	
Sum of all scores		ΣD	224	236	229	230	222	--

Total-drying Index according EN 60436								
Cycle		Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5	Mean value	Stadard Deviation
DR,i	Drying index	0,82	0,87	0,84	0,85	0,82	0,84	0,018
D _{China}	Index china	0,64	0,71	0,65	0,68	0,63	0,66	--
D _{Glass}	Index glass	0,79	0,96	0,96	0,88	0,75	0,87	
D _{Cutlery}	Index cutlery	1,00	1,00	1,00	1,00	1,00	1,00	
Test Date		2021-07-12	2021-07-13	2021-07-14	2021-07-15	2021-07-16	--	--

Appendix No.2: Marking plate

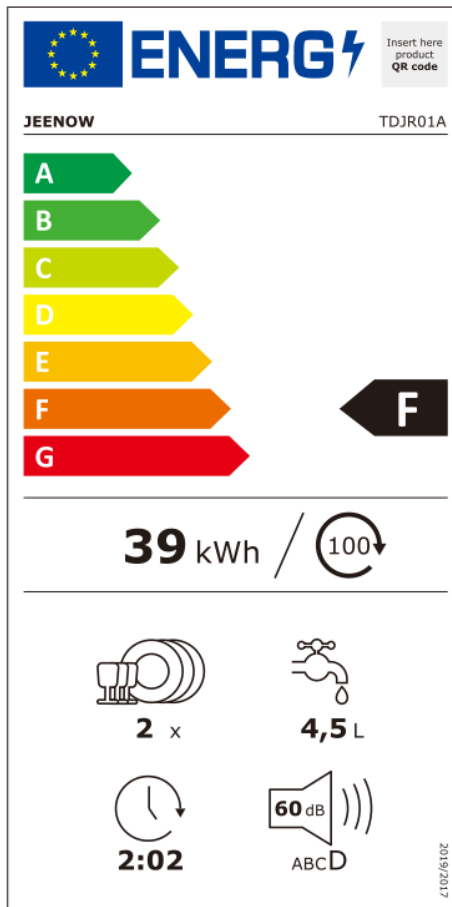
Nameplate:

JEENOW		 	
Name	: Dishwasher	Model	: TDJR01A
Rated voltage	: 220-240V~50Hz	Water Pressure	: 0.04-1.00MPa
Rated power	: 950W	Waterproof	: IPX1
Capacity	: 2 place settings		

Guangdong Jienuo Electric Appliance Co.,Ltd.

Remark: The nameplate of models TDJR02A, TDJR03A, TDJR05A, TDQR01A, TDQR02A, TDQR03A and TDQR05A are same as model TDJR01A except model name.

Energy label:



The energy label features the EU flag and the word 'ENERGY' with a lightning bolt. It includes a QR code placeholder, the brand name 'JEENOW' and model 'TDJR01A'. A scale from A to G is shown, with 'F' highlighted in a black arrow. The energy consumption is '39 kWh / 100'. Below are icons for: 2 place settings, 4.5 L water consumption, 2:02 cycle time, and 60 dB noise level (ABC D). A date '2019/2017' is printed vertically on the right.

Remark: The energy label of models TDJR02A, TDJR03A, TDJR05A, TDQR01A, TDQR02A, TDQR03A and TDQR05A are same as model TDJR01A except model name.

Appendix No.3: Photo documentations

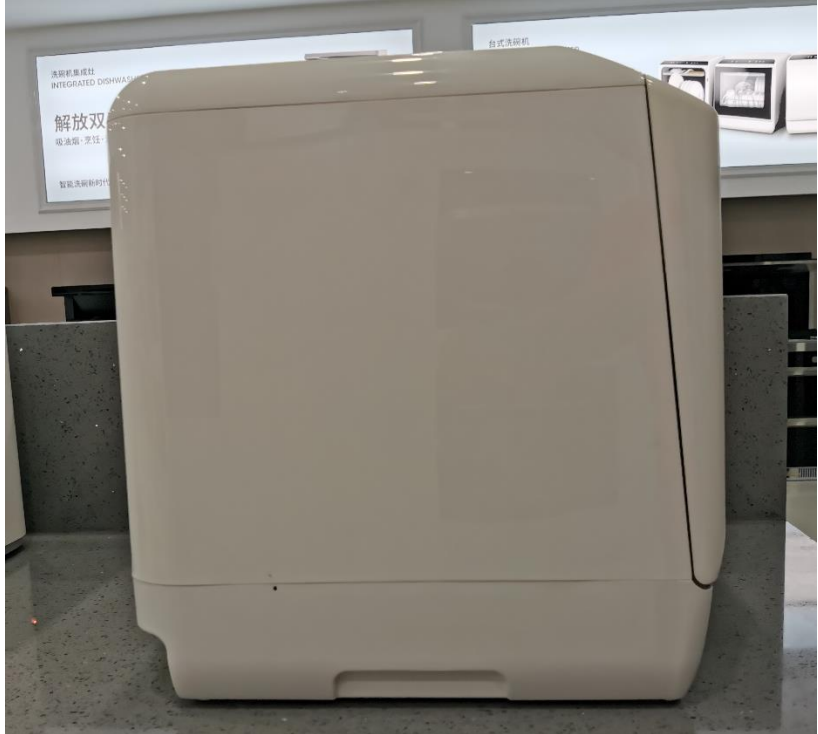
Details of:	Overall view TDJR01A, TDQR01A
<p>View:</p> <p><input checked="" type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view TDJR01A, TDQR01A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input checked="" type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR01A, TDQR01A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input checked="" type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR02A, TDQR02A
<p>View:</p> <p><input checked="" type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR02A, TDQR02A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input checked="" type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR02A, TDQR02A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input checked="" type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR02A, TDQR02A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input checked="" type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR03A, TDQR03A
<p>View:</p> <p><input checked="" type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR03A, TDQR03A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input checked="" type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR03A, TDQR03A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input checked="" type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR03A, TDQR03A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input checked="" type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR05A, TDQR05A
<p>View:</p> <p><input checked="" type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR05A, TDQR05A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input checked="" type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR05A, TDQR05A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input checked="" type="checkbox"/> Right</p> <p><input type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Details of:	Overall view
	TDJR05A, TDQR05A
<p>View:</p> <p><input type="checkbox"/> General</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right</p> <p><input checked="" type="checkbox"/> Left</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p>	

Appendix No.4: Test equipment list

No.	Type	Manufacture	Model	Equipment ID	Calibration Due Date
1	Digital Power Meter	YOKOGAWA	WT210	ME-702	2021-09-18
2	Frequency Conversion Power	Ainuo	AinuoAN970	SB-CS136	2021-09-12
3	Temperature and humidity recorder	-	7210-00	MH-095	2021-09-26
4	Automatograph for Dishwashers	-	-	ME-227	2022-06-02
5	Light Desk	-	-	SB-CS436	2021-11-20
6	Electronic scale	-	TE6101	MP-363	2021-12-16
7	Hot-wire Anemometer	-	TES 1341	ME-707	2022-04-22
8	Stopwatch	-	WB388	MO-391	2021-12-18
9	Thermal cabinet	-	UFP800-DW-D1	MH-418	2022-05-12
10	Reference machine	-	Miele G 1222SC	41/101982464	-

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