

PLEASE ADDRESS ANY CORRESPONDENCE TO WATER SUPPLY (NETWORK) DEPARTMENT

Our Ref : WSN 92413/90/202111/COMM-EQPMT

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To all commercial equipment suppliers, distributors, retailers, manufacturers, test laboratories, Certification Bodies for Water Efficiency Labelling Scheme (WELS), relevant associations and government agencies.

Dear Sir/Madam

(A) PUBLIC UTILITIES (WATER SUPPLY) (AMENDMENT NO. 2) REGULATIONS 2021 ON THE SALE AND SUPPLY OF THREE TYPES OF COMMERCIAL EQUIPMENT WITH MINIMUM WATER EFFICIENCY STANDARDS

(B) TESTING, CERTIFICATION AND REGISTRATION OF COMMERCIAL EQUIPMENT

This circular is to remind the commercial equipment suppliers, distributors, retailers, manufacturers and their relevant industry partners, test laboratories, certification bodies for WELS, associations and government agencies on the implementation of mandatory sale and supply of commercial dishwashers, washer extractors and high pressure washers.

(A) Public Utilities (Water Supply) (Amendment No. 2) Regulations 2021

2. We would like to remind you that **with effect from 1 Jan 2022**, only commercial washer extractors, commercial dishwashers and high pressure washers that are registered under the Mandatory Water Efficiency Labelling Scheme (MWELS) and fulfil the water efficiency requirements shown in Table 1 below, shall be offered, displayed, or advertised for sale or supply in Singapore. As stated in PUB’s circular of 28 Jan 2021, there is no plan to introduce tick ratings and labels for these commercial equipment under MWELS for now.

Table 1: Water Efficiency Requirements for Commercial Equipment

Commercial Equipment	Affected Types	Water Efficiency Requirements
Commercial Washer Extractor	<ul style="list-style-type: none"> • Front load • Top load 	≤ 8.0 L / kg
Commercial Dishwasher	<ul style="list-style-type: none"> • Undercounter • Hood 	≤ 2.4 L / rack
High Pressure Washer	<ul style="list-style-type: none"> • General cleaning except for the following use: <ul style="list-style-type: none"> - household - steam cleaning or hot water pressure washing - washing of equipment or vehicles 	≤ 11.0 L / min

We would like to update you that the above-mentioned mandatory requirements have been incorporated in the Public Utilities (Water Supply) (Amendment No. 2) Regulations 2021. Please refer to **Annex C** for the relevant extracts from this regulation. Anyone found not complying with the Public Utilities (Water Supply) Regulations shall be guilty of an offence and be liable for prosecution.

(B) Testing, registration and certification

3. Similar to other existing WELS products, the above-mentioned commercial equipment shall be tested in accordance with PUB's stipulated test methods and certified by an accredited Certification Body (CB) for WELS before they can registered under MWELS. For more information on the test methods to measure water consumption, water efficiency requirements, supporting documents as proof of compliance, etc, please refer to PUB's WELS website at <https://www.pub.gov.sg/wels/suppliers> and download a copy of the WELS Guidebook. Only models published on PUB's WELS website and supplied under the supply chain of their respective registered suppliers are deemed as registered products.

4. Suppliers, manufacturers, distributors and retailers are advised to send their new and existing models for testing and certification by an accredited CB for WELS, if not already done so. The list of test laboratories and certification bodies can be found in **Annexes A and B** and PUB's WELS website at <https://www.pub.gov.sg/wels>. Please note that the list of test laboratories and certification bodies may be updated by PUB from time to time. With immediate effect, the Certification Bodies for WELS as listed in **Annex B** may submit their applications via PUB's WELS website at <https://www.pub.gov.sg/wels/suppliers>.

5. Please disseminate the information in this circular to your relevant distributors, stakeholders, retailers, manufacturers and other industry partners for their information and compliance. A copy of this circular is also downloadable from PUB's website at <https://www.pub.gov.sg/compliance/industry/circulars>. If you have any queries concerning this circular or need further clarification or assistance, please contact the officers listed below.

Name	Email
Tan Kai Rong	tan_kai_rong@pub.gov.sg
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Yours faithfully



TAN KAI RONG
SENIOR ENGINEER
for DIRECTOR
WATER SUPPLY (NETWORK) DEPARTMENT

Enclosed.

Annex A**List of Testing Laboratories for Commercial Equipment**

Please note that the list may be updated by PUB from time to time. Test laboratories and certification bodies should approach PUB if they have any clarification or queries.

Test laboratories (in alphabetical order)	Category of products
SETSCO Services Pte Ltd 531 Bukit Batok Street 23 Singapore 659547 Mr Edwin Leong Tel: +65 6566 7777 Ext. 363 Website: www.setsco.com Email: edwinleong@setsco.com	Commercial dishwasher Washer Extractor
Singapore Test Lab Pte Ltd 10B Enterprise Road, Singapore 629828 Mr Chua Peck Cheong, Patrick Tel : +65 9363 3934 Website: www.singaporetestlab.sg Email : chuapc@singaporetestlab.sg	High pressure washer
TÜV SÜD PSB Pte Ltd 15 International Business Park TÜV SÜD @ IBP Singapore 609937 Mr Jimmy Tan Tel: +65 6973 6361 Email: jimmy.tan@tuvsud.com	Commercial dishwasher Washer Extractor
UL International-Singapore Private Limited 1 Fusionopolis Walk #10-01 Solaris South Tower Singapore 138628 Mr Yong Chian Haw Email: ChianHaw.Yong@ul.com Mr Aries, Rolando (UL International Italia S.r.l) Email : Rolando.Aries@ul.com	Commercial dishwasher Washer Extractor

Annex B**List of Certification Bodies for WELS**

Please note that the list may be updated by PUB from time to time. Test laboratories and certification bodies should approach PUB if they have any clarification or queries.

Certification Bodies for WELS (in alphabetical order)
SETSCO Services Pte Ltd 531 Bukit Batok Street 23 Singapore 659547 Mr Dixon Ng / Ms Fiona Leong Tel: +65 6566 7777 [Ext. 416] / 6895 0650 Email: ngds@setsco.com / fionaleong@setsco.com
Singapore Test Lab Pte Ltd 10B Enterprise Road, Singapore 629828 Mr Chua Peck Cheong, Patrick Tel : +65 9363 3934 Email : chuapc@singaporetestlab.sg
TÜV SÜD PSB Pte Ltd 15 International Business Park TÜV SÜD @ IBP Singapore 609937 Ms Emily Mok Tel : 6885 1264 / 68851485 Email: Emily.MOK@tuvsud.com
UL International-Singapore Private Limited 1 Fusionopolis Walk #10-01 Solaris South Tower Singapore 138628 Mr Yong Chian Haw Email: ChianHaw.Yong@ul.com

Annex C**Extract of Public Utilities (Water Supply) (Amendment No. 2) Regulations 2021 on the Sale and Supply of three types of Commercial Equipment with Minimum Water Efficiency Standards****PUBLIC UTILITIES ACT
(CHAPTER 261)****PUBLIC UTILITIES (WATER SUPPLY)
(AMENDMENT NO.2) REGULATIONS 2021**

In exercise of the powers conferred by section 72 of the Public Utilities Act, the Public Utilities Board, with the approval of the Minister for Sustainability and the Environment, makes the following Regulations:

Citation and commencement

1. These Regulations are the Public Utilities (Water Supply) (Amendment No.2) Regulations 2021 and come into operation on 1 January 2022.

Amendment of regulation 40A

5. Regulation 40A of the principal Regulations is amended —

(a) by inserting, immediately after the definition of “affix”, the following definitions:

“high pressure washer” means a machine or tool that uses high pressure water spray to clean surfaces and objects;

“hood dishwasher” means a manually loaded, programmable, hood-type pass-through dishwasher that typically has a detergent circulating zone and a freshwater rinsing process;”;

(b) by inserting, immediately after paragraph (c) of the definition of “specified water fitting”, the following paragraph:

“(ca) a water-closet flush valve;”;

(c) by inserting, immediately after paragraph (e) of the definition of “specified water fitting”, the following paragraph:

“(ea) a washer extractor (other than for household use) that is —

(i) designed to be loaded or unloaded through an opening in the front of the washer extractor; or

(ii) designed to be loaded or unloaded through an opening in the top of the washer extractor;”;

(d) by inserting, immediately after paragraph (f) of the definition of “specified water fitting”, the following paragraphs:

“(g) a dishwasher (other than for household use) that is of any of the following types:

- (i) a hood dishwasher;
- (ii) an undercounter dishwasher;”;

(h) a high pressure washer other than for any of the following uses:

- (i) household use;
- (ii) steam cleaning or hot water pressure washing;
- (iii) washing equipment or vehicles;”;

(e) by inserting, immediately after the definition of “test report”, the following definition:

““undercounter dishwasher” means a manually loaded, programmable, undercounter front-loading dishwasher that typically has a detergent circulating zone and a freshwater rinsing process;”.

Amendment of regulation 40AA

6. Regulation 40AA of the principal Regulations is amended by inserting, immediately after paragraph (1), the following paragraph:

“(1A) Paragraph (1)(b) does not apply to a specified water fitting that is of a description or type mentioned in paragraph (ea), (g) or (h) of the definition of “specified water fitting” in regulation 40A.”.

Amendment of regulation 40AB

7. Regulation 40AB of the principal Regulations is amended by inserting, immediately after paragraph (2A), the following paragraph:

“(2B) Paragraph (2)(a) does not apply to a specified water fitting that is of a description or type mentioned in paragraph (ea), (g) or (h) of the definition of “specified water fitting” in regulation 40A.”.

Amendment of Part 1 of Second Schedule

9. Part 1 of the Second Schedule to the principal Regulations is amended —

(b) by inserting, immediately after the words “Clothes washing machine” in item (4) of paragraph 1, the words “intended for household use”;

(c) by inserting, immediately after item (4) of paragraph 1, the following item:

<i>First column</i>	<i>Second column</i>	<i>Third column</i>
<i>Specified water fitting</i>	<i>Type</i>	<i>Applicable test standard or method</i>

“(4A)	Washer extractor other than for household use	(a)	Front-loading washer extractor)	Clauses 9.1 and 9.2 of BS EN 17116-4:2019 relating to measurement of water consumption
		(b)	Top-loading washer extractor)	

(d) by inserting, immediately after the words “Dishwasher” in item (5) of paragraph 1, the words “intended for household use”;

(e) by inserting, immediately after item (5) of paragraph 1, the following items:

	<i>First column</i>		<i>Second column</i>		<i>Third column</i>
	<i>Specified water fitting</i>		<i>Type</i>		<i>Applicable test standard or method</i>
“(6)	Dishwasher other than for household use	(a)	Hood dishwasher)	Clause 7 of IEC 63136:2019 relating to measurement of water consumption
		(b)	Undercounter dishwasher)	
(7)	High pressure washer that is a specified water fitting			—	The test method for determining the flow rate set out in paragraph 4C”;

(g) by inserting, immediately after the words “water consumption for a clothes washing machine” in paragraph 4, the words “intended for household use”;

(h) by inserting, immediately after paragraph 4, the following paragraph:

“4AA. The water consumption for a washer extractor (other than for household use) is to be measured using the wash programme or other associated settings recommended in the manufacturer’s product literature for a nominal load at rated load capacity, and the following are not required as a test condition:

- (a) the use of a reference washer extractor;
- (b) the use of a specific ambient temperature or humidity;
- (c) the use of a specific inlet water hardness, water pressure or water temperature;

- (d) the use of a specific type of energy supply;
 - (e) the use of an electricity supply at a specific voltage;
 - (f) the use of a specific compressed air supply;
 - (g) the use of a specific steam supply;
 - (h) the use of stain and soil monitors, wash process control sheets or rinse performance fabrics;
 - (i) the use of detergent;
 - (j) the determination of wash performance.”;
- (i) by inserting, immediately after the words “water consumption for a dishwasher” in paragraph 4A, the words “intended for household use”; and
- (j) by inserting, immediately after paragraph 4A, the following paragraphs:

“4B. The water consumption for a hood dishwasher or an undercounter dishwasher (other than for household use) is to be measured using the wash programme specified in Clause 5.4 of IEC 63136:2019, and the following are not required as a test condition:

- (a) a cleaning and resoiling performance test;
- (b) the conditioning of the dishwasher under test and sequence of test procedures;
- (c) the use of an electricity supply at a specific voltage;
- (d) the use of specific ambient conditions;
- (e) the use of a specific inlet water hardness, water pressure or water temperature;
- (f) the use of detergent;
- (g) the use of rinse aid;
- (h) the measurement of the temperature of any rack in the dishwasher.

4C. The flow rate for a high pressure washer is measured with the following test method:

- (a) the high pressure washer must be connected to —
 - (i) a water supply system via a bib tap; and
 - (ii) a stable electricity supply (230±10 V and 50 Hz) with an ammeter;
- (b) the water supply must have a delivery flow of at least 20 litres per minute at a dynamic pressure of 3 bars;
- (c) the bib tap must be securely connected to the high pressure washer with an inlet hose having an internal diameter of at least 15 mm;
- (d) the bib tap must be fully opened;
- (e) the flow meter and pressure gauge must be connected to the outlet hose of the high pressure washer;
- (f) the pressure setting of the high pressure washer must be set at maximum;
- (g) the flow rate, water pressure and electric current must be measured and recorded.”.

Amendment of Part 3 of Second Schedule

11. Part 3 of the Second Schedule to the principal Regulations is amended —

(c) by inserting, immediately after paragraph 3, the following paragraph:

“3A. Every washer extractor that is a specified water fitting must be of such a design as to use not more than 8 litres of water per kilogram of wash load.”;

(d) by inserting, immediately after paragraph 4, the following paragraphs:

“4A. Every dishwasher that is a specified water fitting (other than for household use) must be of such a design as to use not more than 2.4 litres of water per rack of washware.

4B. Every high pressure washer that is a specified water fitting must be of such a design as to use not more than 11 litres of water per minute.”; and

(e) by deleting the words “that flows out of a tap and mixer per minute” in the definition of “flow rate” in paragraph 5 and substituting the words “(measured in litres per minute) that flows out of a tap and mixer or a high pressure washer (as the case may be)”.

=====END=====

cc Distribution (via email only)

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