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Toilet seat with shower unit

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Toilet Seat Association (JTSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS A 4422 : 2009** is replaced with this Standard.

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Toilet seat with shower unit

1 Scope

This Japanese Industrial Standard specifies toilet seats with shower units, in which the potable water or water equivalent in quality thereto is electrically heated to be used for washing, and with heated seats (hereafter referred to as "spray seats") mainly for household use.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS A 5207 *Sanitary wares*

JIS B 0100 *Glossary of terms for valves*

JIS B 2061 *Faucets, ball taps and flush valves*

JIS G 4313 *Cold rolled stainless steel strip for springs*

JIS G 4314 *Stainless steel wires for springs*

JIS K 6353 *Rubber goods for water works*

JIS S 3200-1 *Equipment for water supply service—Test methods of hydrostatic pressure*

JIS S 3200-3 *Equipment for water supply service—Test method of water hammer*

JIS S 3200-4 *Equipment for water supply service—Test method of prevention from back current*

JIS S 3200-5 *Equipment for water supply service—Test methods of destruction by vacuum pressure*

JIS T 0923 *Guidelines for older persons and persons with disabilities—Methods of displaying braille sign—Consumer products*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in JIS B 0100 and the following definitions apply.

3.1 spray units

devices that perform rear washing, or rear and front washing by spraying warm water obtained by the water heater from the nozzle

3.2 heated seats

toilet seats with an electrical heating element

3.3 dryer units

devices that dry washed areas by warm air obtained by an electrical heating element and fan (hereafter referred to as "dryer units")

3.4 front washing

to perform washing of a feminine body's front part with warm water spray

4 Classification

Spray seats are classified according to the configuration, water supply method and washing water heating method as shown in Table 1 to Table 3.

Table 1 Classification by configuration

Classification	Classification details
Separated type	Appliances that can be installed onto general conventional toilets.
Integrated type	Appliances integrated with a design-matched exclusive toilet.

Table 2 Classification by water supply method

Classification	Classification details
Direct connection to the potable water mains	Directly connected to the potable water mains for water supply.
Indirect water supply type	Not connected to the potable water mains.

Table 3 Classification by washing water heating method

Classification	Classification details
Warm water storage type	Washing water is heated and stored, while being kept warm, in a built-in water heater storage tank.
Instantaneous water heating type	Washing water is heated instantaneously by a water heater only during time of use.

5 Rated voltage and rated frequency

The rated voltage of spray seats shall be a single-phase AC 100 V or 200 V, and the rated frequency shall be rated, both 50 Hz and 60 Hz for common use.

6 Performance requirements

6.1 Washing performance

6.1.1 Washing water temperature