GLASS COLUMN

Tips on washing glassware with commercial dishwashers

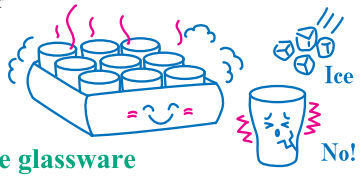
Dishwashers are very convenient tools, but they use strong alkaline detergents. If used improperly, stain on glasses will not be removed sufficiently, and the alkaline content in the stain will corrode the glass surface, causing it to cloud. Visible cloudiness on the glass surface cannot be removed, so use the dishwasher properly and "Wash and Rinse thoroughly" to prevent cloudiness from occurring. Glass with gold or platinum print or luster color is delicate and cannot be used in a dishwasher.

Remove heavy dirty spots from the glassware surface before operation

Since commercial dishwasher soap is often designed for repeated use, heavy food spots will pollute and thus reduce the power of the soap. Heavy and dirty spots may remain on the glassware after completing the rinsing with alkaline dishwasher soap.

Rinse the glassware thoroughly

In order to rinse off the alkaline residue of the dishwasher soap, it is recommended to set a longer rinsing time for glassware than other types of tableware. In particular, stemware and glassware with decorative patterns are easier for soap residue to stay, compared with simpler items such as straight tumblers.



Cool down the glassware before another use

Do not use the glassware while it is still warm afterwash. Abrupt temperature change (esp. going from high to low temperature, such as adding ice to a warm glass) might cause the glass to break. Wait until the glassware to reach back the room temperature.

Choose the right washing rack

Having rack compartments that are too small might block the wash flow thus allow dirty spots to be remained on the glassware, while having compartments that are too large might allow the glass to fall and break. Always use racks with the right compartment size.

Use rinse agent

Use rinse agent to help dissolving the rinsing water from the glass surface. Minerals and soap residue in the rinsing water may form milky stains on the glass surface after drying. The bottom of the glass is usually where extra water is being accumulated. Use a towel to wipe it off or hold the glassware to spin the water off before drying.

Use only clean towels to rub your glassware

Dirty towels must be washed and replaced with clean ones regularly. Soiled towels that are simply dried out and reused might have their dirt spread to the cleaned glassware.

Perform proper maintenance regularly

Clogged detergent/water nozzles and other malfunctions might prevent the dishwasher from its full washing power.

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Precautions when using glassware in a dishwasher or dryer

Perform proper maintenance regularly

Operation methods vary depending on the manufacturer and model, so please read the instruction manual carefully and contact the manufacturer's customer service if you have any questions.

We do not recommend using crystal glass in a dishwasher.

Crystal glass is delicate and may break or become cloudy due to thermal shock caused by temperature changes in a dishwasher or corrosion by alkaline detergents. We do not recommend using crystal glass in any dishwasher other than those recommended by the manufacturer.

* Fine Crystal can be used in household dishwashers due to our proprietary technology. Please see pages 6 and 7 for details.

Gold, platinum, or luster decorated glass cannot be used in a dishwasher.

The decoration may peel or become thin.

We recommend connecting to a water heater that produces gradual temperature changes (especially cooling).

Glasses do not tolerate temperature changes (especially rapid cooling). If your model allows you to choose between a water heater and a tap connection, we generally recommend connecting to a water heater that produces gradual temperature changes. Using tap water for rinsing is not recommended, as the warmed glasses will be rapidly cooled by the rinse water.

Avoid washing scratched glassware.

Scratched glassware is more likely to break, and temperature changes during washing can cause it to break.

Allow glasses to cool before using them.

Avoid using hot glasses immediately after washing. A heated glass may crack if exposed to ice or cold water, causing a sudden temperature change (especially rapid cooling).