

Supersonic Wave Mold Washer

SANWA

# WAVE CLEAN

U600 TYPE-1



BASIC



FULL SPEC

U600 TYPE-2

**Removing  
Mold Deposit(MD)!!**

**Polyacetal (POM)!!**

**Polycarbonate!!**

**and Elastomer!!**



COMPACT

U300

### Full-Spec Model

Complete cleaning machine, TYPE-1, equipped with an overflow tank for preventing re-adhesion of stains, a filter for maintaining cleaning liquid in the best condition, and a drain tray, information timer, controllable heater, and circulation pump. Besides, pipes requiring maintenance are arranged on the front of the machine. Try the advanced performances of the TYPE-1.

#### TYPE-1 Special Specifications

- Overflow Tank
- Barrier Filter
- Drain Tray
- Front Pipe Layout
- Information Timer

Supersonic Wave  
**600W**

Liquid Amount  
**52 liters**

Wide-type Cleaning Cage  
W440 x D340 x H200 mm



### Overflow Tank

Contamination removed from the mold rises to the liquid surface and then flow into the overflow tank, thus preventing re-contamination.



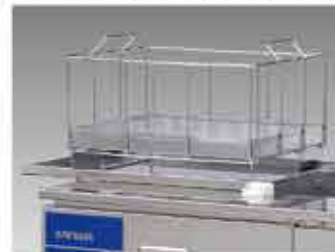
### Barrier Filter

The filter removes contamination of the cleaning liquid to maintain purity, thus keeping the liquid in the optimum condition.



### Drain Tray

The tank cover opens & closes by 180°. The back of the cover serves as a drain tray. Cleaning liquid flows into the tank, ensuring safety.



### Easy Maintenance

The pipes are arranged on the front of the machine. The valves, filters, etc., are accessible without the need to move the machine or go behind it.



### Strengthened basic performance ensured for all models!

Five functions that support comfortable cleaning are featured for all models

#### Types and Specifications

	U600 TYPE-1	U600 TYPE-2	U300
Overflow Tank	●		
Barriers Filter	●		
Drain Tray	●		
Front Pipe Layout	●		
Information Timer	●		
Circulating Pump	●	●	●
Heater with Controls	●	●	●
Liquid Shortage Sensor	●	●	●
Digital Control Timer	●	●	●
High Performance Vibrator	600W	600W	300W
Compact Design		●	●

### Heater with Controls

The heater will raise the cleaning liquid temperature in the tank to enhance the cleaning effect. The temperature is adjustable in the range from 0 to 70 °C by digital control.



### Liquid Shortage Sensor

The sensor detects the absence of cleaning liquid and shuts down the system automatically. You do not have to worry about heating without liquid during the unattended cleaning process.



### Digital Control Timer

The cleaning process time is controlled by the digital control timer, thus enhancing the efficiency of cleaning.



### High Performance Vibrator

The high-performance vibrator with the oscillation frequency of 28 kHz clean mold from every hole and corner. The output is adjustable in the range from 0 to 600W (300W, max. for U300) according to mold size.



**Controlling the cleaning liquid at the optimum temperature!**  
 Removing the resin coating with the synergetic effect of supersonic waves and the heater!

## U600 TYPE-2

### Basic Model

The "Type-2" model is a simple-design washer with selected functions. It features the circulating pump, heater with controls, and a digital timer with a simple design, thus enabling comfortable and simple cleaning work.



Supersonic Wave  
**600W**

Liquid Amount  
**36 liters**

Wide-type Cleaning Cage  
**W440 x D340 x H200 mm**

Wide Washing Tank with Compact Body

Wide-type cleaning cage



## U300

### Compact Model

The model "U300" is a compact model that ensures efficient cleaning with a small amount of cleaning liquid, featuring the washing tank size that is suited to small molds. The maximum liquid amount required for cleaning is mere 18 liters. The model will contribute to help make the running cost lower.



Supersonic Wave  
**300W**

Liquid Amount  
**18 liters**

Compact-type Cleaning Cage  
**W280 x D280 x H150 mm**

Max. liquid amount of 18 liters

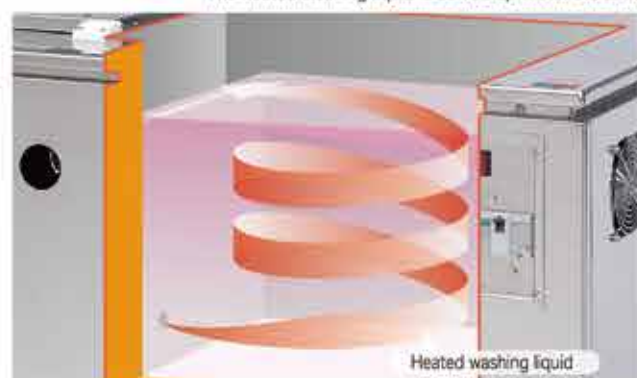
Best cage size for micro-machined molds



## Circulating Pump

The use of a heater will generate a temperature difference at the upper and the lower part of the liquid in the washing tank. The Wave Clean washer stirs up the cleaning liquid evenly with the circulating pump. The reflux flow of the liquid prevents generation of uneven temperatures in the washing tank. As a result, the mold can be cleaned without unevenness and in every hole and corner.

The heated cleaning liquid is stirred up within the tank.

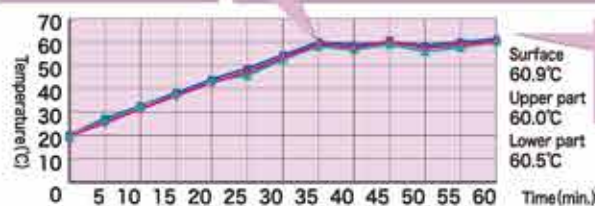


### Comparative temperature rise distribution graph

■ Surface ◆ Upper part ▲ Lower part

**With circulating pump**  
The heater is preset at 60°C

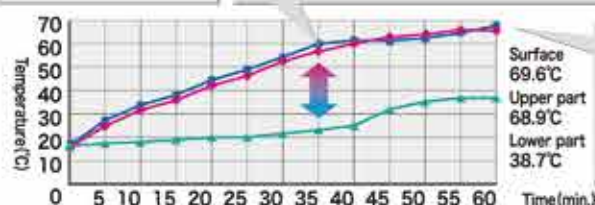
When 35 minutes pass after the start of heating, there is almost no temperature difference between the surface and the lower part of the vessel.



When a circulating pump is working, it can maintain the preset temperature uniformly even it reaches 60°C.

**No circulating pump**  
The heater is preset at 60°C

When 35 minutes pass after the start of heating, a temperature difference of about 38°C occurs between the surface and the lower part of the vessel.



When there is no circulating pump, the temperature rises even after it reaches the preset temperature and a temperature difference of more than 20°C occurs between the surface and the lower part of the vessel.

Standard Accessories



Main unit

- ① Washing cage (mesh type)
- ② Hose for bleeding off the cleaning liquid
- ③ Rubber gloves
- ④ pH-test paper
- ⑤ Pump for cleaning liquid
- ⑥ Protective mask
- ⑦ Protective glasses
- ⑧ Barrier filter



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Specifications	WC-U600 TYPE-I	WC-U600 TYPE-II	WC-U300
Outside dimensions	W1100 X D665 X H735mm	W750 X D760 X H650mm	W570 X D585 X H700mm
Weight	Approx. 138 kg (main unit only)	Approx. 85kg (main unit only)	Approx. 75kg (main unit only)
Tank dimensions	W450 X D350 X H250mm	W450 X D350 X H250mm	W300 X D300 X H200mm
Cage dimensions	W440 X D340 X H200mm	W440 X D340 X H200mm	W280 X D280 X H150mm
Max. liquid amount	52 liters	36 liters	18 liters
Power consumption	3.75kW	3.65kW	2.65kW
Supersonic wave output	0 to 600 W (variable with potentiometer)	0 to 600 W (variable with potentiometer)	0 to 300 W (variable with potentiometer)
Oscillation frequency	28kHz	28kHz	28kHz
Power requirement	3-phase 200V AC	3-phase 200V AC	3-phase 200V AC

●Part of the specifications and the exterior appearance are subject to change without notice for improving the product.

**We can manufacture a mold washer to order.**

Upon confirming the customers requirements, we will manufacture an ultrasonic mold washing machine to order. We will propose an optimum design, including the number and output of wave oscillators, as well as the size of the washing vessel and the main body in accordance with the sizes and shapes of your molds. Please feel free contact us.

■ Guide for washing vessel dimensions and supersonic wave output

Size of Washing Tank	Recommended supersonic wave output
450X350mm	600W
460X360~500X400mm	1200W
510X410~600X450mm	1200W

Depth of Washing Tank 250mm

**Cleaning Liquid - Wave Liquid**

Applications	E-18 Undiluted Solution	PO-18 Diluted 5 times	A-18 Diluted 3 times
	Standard type	Best suited for removal of resin coating	Suited for removal of tough contamination
Plastic mold	●	●	
Rubber mold			●
Die-casting mold			●
Removal of resin coating		●	
Rust	●		●
Greasy spot	●	●	●
Gas burn	●		●

Usable for most of the washers using alkaline cleaning liquid

For various resin coatings of elastomer, polyacetal, polycarbonate, and others

**▲ Safety Precaution**

Operations and maintenance inspection of the product must be done only by those who have full knowledge of supersonic wave washers.

※The cleaning liquids show strong the strong alkaline properties (pH12.5 to 14). Execute the waste liquid treatment according to the local stipulations in the area where the equipment is used.

Manufacturer And Seller

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Agent