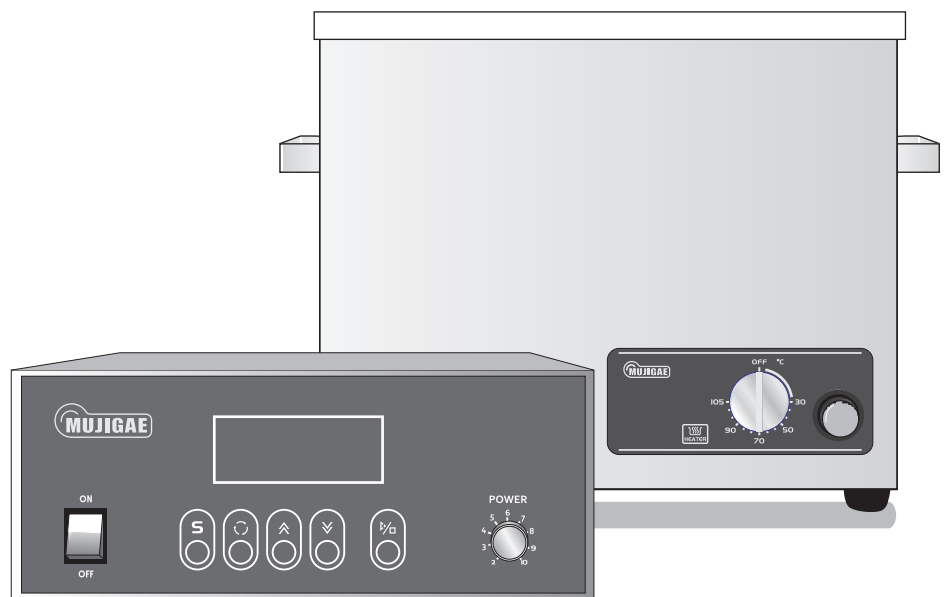


SDN-600H

Manual



INTRODUCTION

Thank you for your choice. Please read carefully this operating manual to use properly. First of all the device use in safety places and follow the manual when transfer to a third party.

The company has the right to change specifications without previous notice.

SAFETY REGULATIONS

1. Description of Symbols



Warning

Information for avoiding injuries or fatal accidents



Environment

Information about the operating environment



Warning of Explosions

Safety instruction to avoid explosions



Attention

Information about technical matters.



Attention to High Temperatures

Instructions to avoid injuries caused by high temperatures

2. Instructions

For a safety and faultless using of the device you read the following instructions and follow them.



- Connect the device only to the suitable power supply.
- Check the power supply cord before you stick it into the electrical outlet.
- Do not use power bars to extend the power supply cord.
- Do not touch the device with wet hands during the usage because it may cause an electrical shock.
- If unexpected sound, smell or smog is generated by the device, pull out the main plug and contact supplier immediately.
- Disconnect the power supply plug before cleaning or maintenance.
- If you use radiation or contaminated samples the responsibility is only up to you.
- Avoid injuries : never put your hands or other parts of your body in the working device.
- **Do not clean living creatures in this device.**
- **Do not use operate the device without cleaning liquid.**



- It is important that the device stands up on a horizontal, stable and firm subsurface to avoid vibrations.
- Make sure that the device can not slip away.
- To avoid heat congestion or fires make sure that there is enough space for air circulations.
- Avoid direct solar radiation.
- Do not set the device outdoors.
- To set the device in wet or dusty places could cause overheating, short circuits or fires.



- Do not use this device in area with potentially explosive atmosphere.
- Do not use inflammable materials for cleaning liquid.
- Do not use the material of acid and alkalinity cleaning liquid to avoid the water leak.



- This device should only be used by persons who are familiarized with safety instructions approved by the manufacturer.
- Pay attention that no liquid reaches the controller or inward of the capsule.
- You have to keep the device clean if you want to get a longer life of it.
- Pull out the power cable if you do not want to use the device for a longer time.



- Do not put heat-sensitive items at the device.
- The heat-sensitive item causes damage or changes the shape of the item during operations. (glasses, plastic items)
- Pay attention when you lift up the lid, hot condensation water may drop down or hot steam could come out.

INTRODUCTION

Ultrasonic Cleanser is used for cleaning with the various kinds of dirt like finger marks or oils on the surface located in the irregular narrow spaces at the corner.

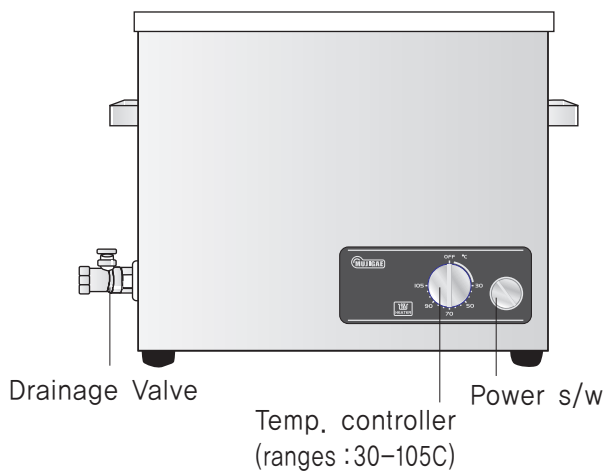
Display Current/Setting temperature and Operation time (1~60min.) Built in the function of SWEEP and Ultrasonic output control to maximize the cleaning efficiency.

1. Specifications

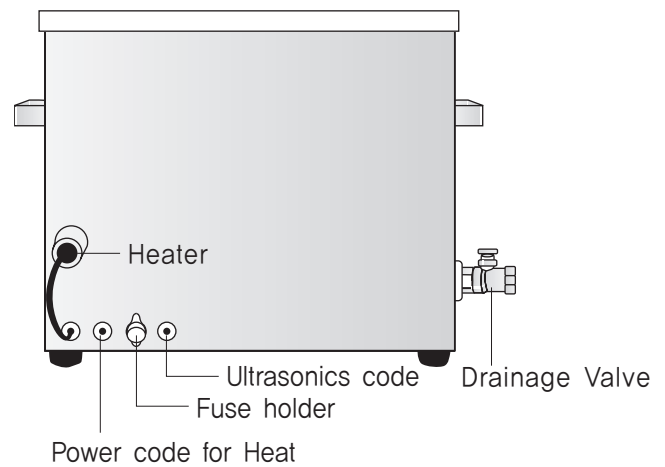
- Digital timer (1min~60min.)
- Frequency : 40Khz
- Temperature control (30~80C)
- Ultrasonic output control
- SWEEP function
- Stainless body/tub

2. Name/Function of Parts

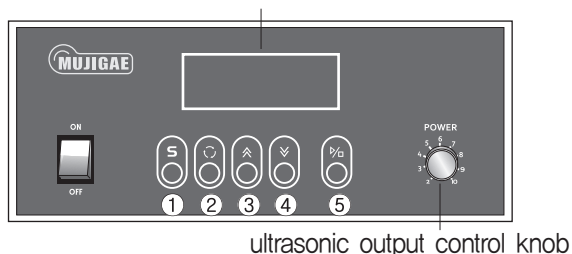
▶ Front parts for Vibration



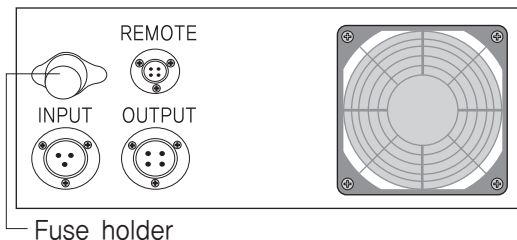
▶ Rear parts of Vibration



▶ Front parts of Control



▶ Rear parts of Control



- ① **S** [sweep] : SWEEP on/off, adjust the time during time setting
 - ② **⌚** [Mode button] : Set the time
 - ③ **▲** [UP] : Increase the setting value of Time
 - ④ **▼** [DOWN] : Drop the setting value of Time
 - ⑤ **⏻** [Start/Stop button] : on/off for Ultrasonic operation
- INPUT ; connect to the power
 - OUTPUT ; connect to the ultrasonic terminal of tank
 - REMOTE ; connect to the foot switch

3. Parts

Ultrasonic Tank, Controller, Cover, Manual, Supporter, Bracket, Hose, Fuse, Nipple, Foot s/w

4. Before installation

There are 2 kinds of method allowed.

- 1) Direct cleaning ; operate the device after the items and liquid added in the tub same time.
- 2) Indirect cleaning : First add the items in the baker with liquid then move to the tub to operate(mainly used for the acid or other corrosive solutions.)

SPECIFICATIONS

SPEC. MODEL	Ultrasonic frequency	Gross weight	Inside diameter (W x L x H)	Outside diameter (W x L x H)	Capacity	Ultrasonic output	Current
SDN-600H	40KHz	20Kg	350 × 300 × 250	430 × 380 × 400	30L	600W	3.5A



SPEC. MODEL	Ranges	Power	Materials
SDN-600H	Ultrasonic operation(1~60min.) Heat-on(30~105c)+/-10%	AC120V/60Hz (AC220V/60Hz for option)	Tub(sus-304) Control box steel

SPEC. MODEL	Outside diameter	Power
CONTROLLER	460 × 250 × 160	AC200~240V/50~60Hz

NOTE

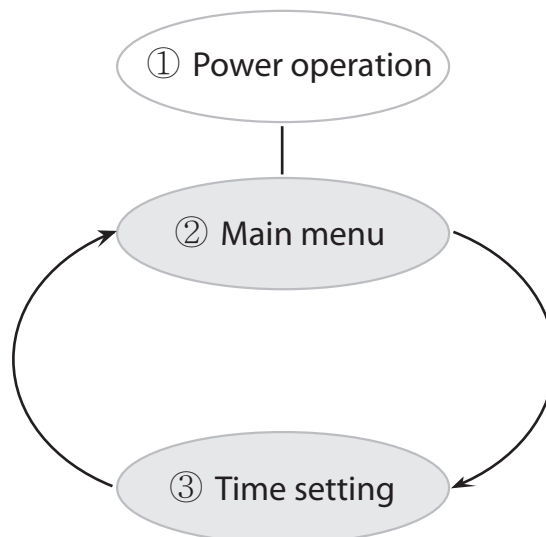
- Do not impact the device or drop from the high place.
- Keep the operation time max 10hr.
- Do not operate the device without liquid.
- Do not use highly inflammable/acid liquid.

HOW TO USE

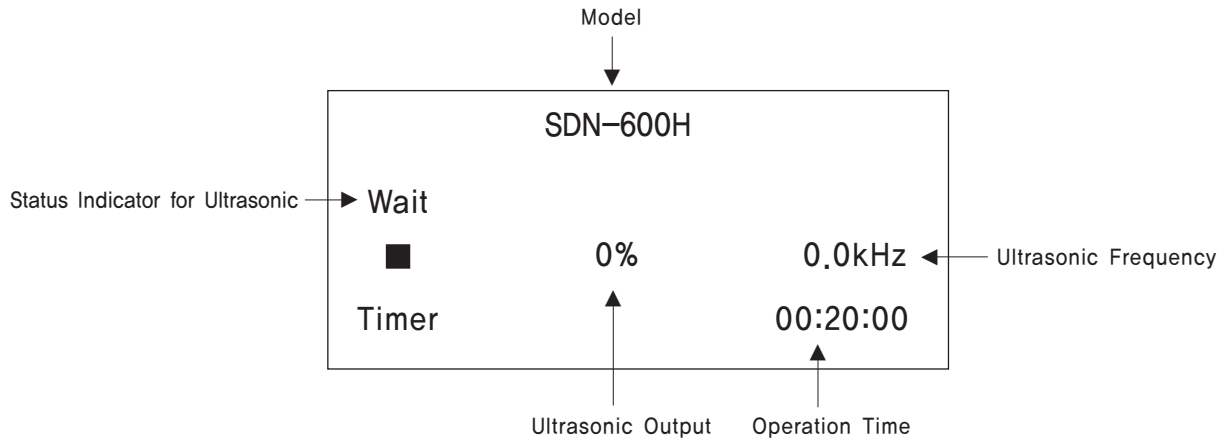
- 1) Avoid the place of 
- 2) Connect the Tank with Controller.
- 3) Plug in the power plug into the power outlet.
- 4) Fill the warm water 20L in the tub.
- 5) Turn on the power.
- 6) Push the button of 
- 7) Take out the items to rinse all the remained on the surface.
- 8) Cover up the cover after use.

HOW TO SET

1. Setting Diagram

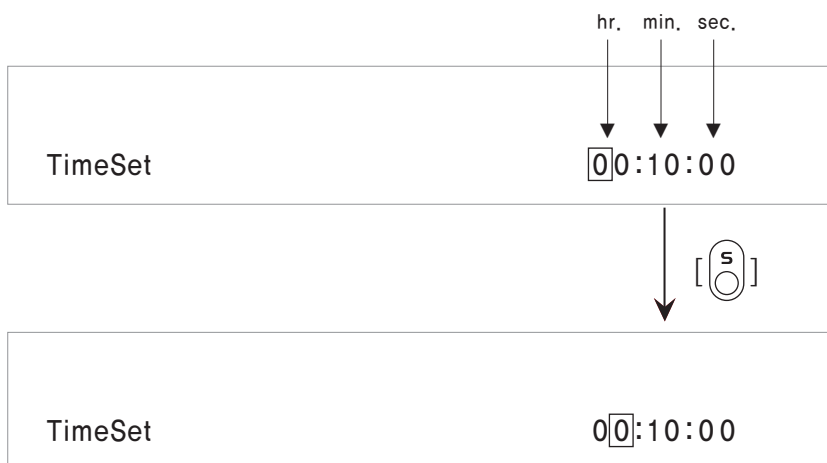



2. Description of Main menu



3. Time Setting

Push the button () for Tume setting.



Push () button to move the curse on the right.

Push () () button to set the time

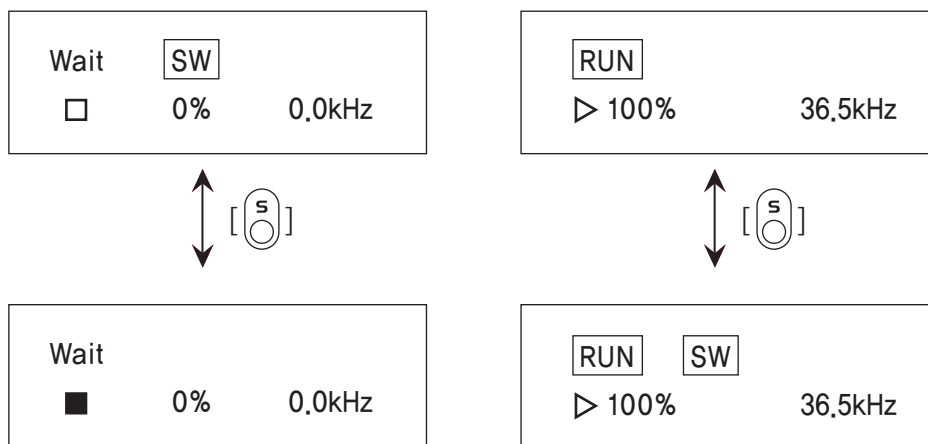
Complete the setting with the status no.2 of Wait Mode on the Setting Diagram.

OPERATION

1. Ultrasonic Operation

Push the on/off Foot s/w()

2. Sweep Operation



* Sweep function ?

Operate 2 different frequency repeated to clean widely during ultrasonic operation.

HOW TO KEEP

1. Drain well the liquid in the tub.
2. Separate the Tub and Controller parts after power off.
3. Wash the tub and wipe out well with cloth or cotton.

(NOTE : Do not use with scrubber to prevent scratches or may cause the problem with cleaning efficiency.

EMERGENCY

Problems	Solutions
No power	① Check the power connection. ② Check the fuse holder. ③ Call A/S Center
Increasing Temperature in Tub	It is in normal state when the temperature reach to max. 70~80C during operations.
No operation during the LCD light ON	Call A/S Center (damaged on the circuit of Ultrasonic Generator.)
Display "over load" on the LCD	Call A/S Center (damaged on the main circuit of controller.)
Display " Transducer Error" on the LCD	Call A/S Center (damaged on the part of Ultrasonic Vibrator.)

SD-ULTRASONIC CO.,LTD

<http://www.sd-ultra.com>

No.560, Sewoon B/D, #173 Jangsa-dong, Jongro-ku, Seoul, Korea

Tel) +82-1644-5897 Fax) +82-2-2278-2276

서울시 종로구 장사동 173번지 세운상가 가동 560호

Tel. 1644-5897 Fax. 02)2278-2276