

# Planetary Centrifugal Vacuum Mixer

## THINKY MIXER

### ARV-501



## Mid-size mixer for manufacturing with vacuum option

- ✓ THINKY's original cup holder design minimizes space and significantly reduces time to reach and release vacuum
- ✓ Newly added defoam mode can be used with or without vacuum
- ✓ Dedicated stand with the built-in vacuum pump enables to save the footprint
- ✓ Ease of the touch operation
- ✓ PC connectivity enables traceability
- ✓ Adapters for various containers are available

#### Optional

##### PU-501

Stand with Built-in  
Vacuum Pump for  
ARV-501



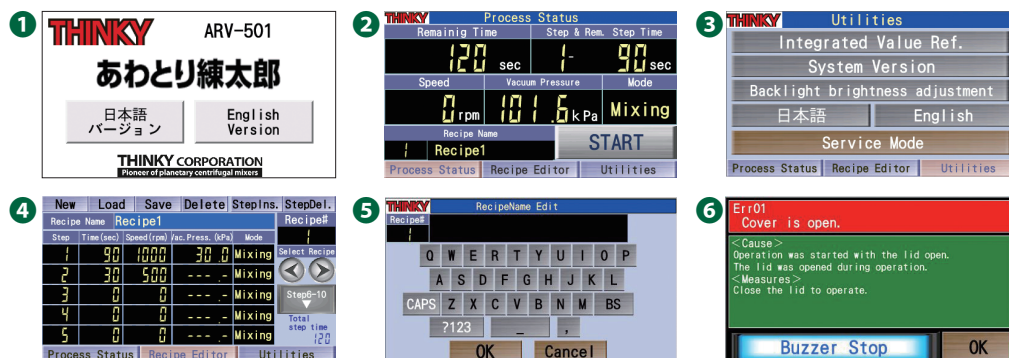
Maximum  
capacity

**700 g**

Standard  
container

**550 ml**  
HDPE  
container

## Operation screen of touch panel



- ① Initial screen
- ② Screen of operation control
- ③ Screen of utility selection
- ④ Screen for editing recipe
- ⑤ Screen for recipe-name input
- ⑥ Example of alarm display

## Specifications

| <b>Model</b>                           | ARV-501                                                                                                                                                                                                                                                                                                              |             |                                                                                                    |                |                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------|
| <b>Product</b>                         | Planetary Centrifugal Mixer (Vacuum type)                                                                                                                                                                                                                                                                            |             |                                                                                                    |                |                                                                                                    |
| <b>System</b>                          | Vacuum-type, planetary, propeller-less mixing                                                                                                                                                                                                                                                                        |             |                                                                                                    |                |                                                                                                    |
| <b>Operation Time Setting</b>          | Timer setting range: 0 s to 30 min in 1 s increments                                                                                                                                                                                                                                                                 |             |                                                                                                    |                |                                                                                                    |
| <b>Revolution/Rotation Speed (rpm)</b> | <table border="1"> <tr> <th>Mixing Mode</th><td>Revolution: 0, 400 to 1500 rpm (adjustable)<br/>Rotation: Approx. 0.58 revolution-to-rotation ratio</td></tr> <tr> <th>Defoaming Mode</th><td>Revolution: 0, 400 to 2000 rpm (adjustable)<br/>Rotation: Approx. 0.03 revolution-to-rotation ratio</td></tr> </table> | Mixing Mode | Revolution: 0, 400 to 1500 rpm (adjustable)<br>Rotation: Approx. 0.58 revolution-to-rotation ratio | Defoaming Mode | Revolution: 0, 400 to 2000 rpm (adjustable)<br>Rotation: Approx. 0.03 revolution-to-rotation ratio |
| Mixing Mode                            | Revolution: 0, 400 to 1500 rpm (adjustable)<br>Rotation: Approx. 0.58 revolution-to-rotation ratio                                                                                                                                                                                                                   |             |                                                                                                    |                |                                                                                                    |
| Defoaming Mode                         | Revolution: 0, 400 to 2000 rpm (adjustable)<br>Rotation: Approx. 0.03 revolution-to-rotation ratio                                                                                                                                                                                                                   |             |                                                                                                    |                |                                                                                                    |
| <b>Maximum Capacity</b> *1             | 700 g                                                                                                                                                                                                                                                                                                                |             |                                                                                                    |                |                                                                                                    |
| <b>Standard Container</b> *2           | 550 ml HDPE container                                                                                                                                                                                                                                                                                                |             |                                                                                                    |                |                                                                                                    |
| <b>Vacuum System</b>                   | Vacuum system within container holder                                                                                                                                                                                                                                                                                |             |                                                                                                    |                |                                                                                                    |
| <b>Ultimate Vacuum</b>                 | 0.67 kPa                                                                                                                                                                                                                                                                                                             |             |                                                                                                    |                |                                                                                                    |

\*1: Total mass to mount on the cup holder, including materials, containers, and adapters.

\*2: Contact us because the actual volume of mixing may vary depending on the containers, materials, and conditions.

|                                        |                                                                                                                                     |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power Supply</b>                    | Voltage: Single-phase AC 200 to 240 V $\pm$ 10 %, 50/60 Hz<br>Power consumption: Approx. 50 VA (standby)<br>Max 2000 VA (operation) |
| <b>Programming Function</b>            | 20 memories with 10 steps                                                                                                           |
| <b>Safety Mechanism</b>                | Lid locking sensor, Vibration sensor, Speed sensor                                                                                  |
| <b>Operating Environment</b>           | 0 to 35 °C, 35 to 80 % RH (without condensation)                                                                                    |
| <b>Unit Dimensions</b>                 | H815 × W500 × D595 (mm)                                                                                                             |
| <b>Unit Weight</b>                     | Approx. 100 kg                                                                                                                      |
| <b>Switch / display unit</b>           | Touch panel (4.3 inches)                                                                                                            |
| <b>Communication function (RS232C)</b> | Data collection function (Traceability function)<br>Operation start and stop, recipe editing and saving, using an external terminal |
| <b>Others</b>                          | Real-time display of rpm during operation, function of setting recipe name                                                          |

## Optional

### Multi-Sensor

MS-150ML/MS-300ML/MS-550ML



|                                          |                                 |                          |                          |
|------------------------------------------|---------------------------------|--------------------------|--------------------------|
| <b>Unit Dimensions</b>                   | The height of container + 27 mm |                          |                          |
| <b>Unit Weight (Including container)</b> | Approx. 100 g (MS-150ML)        | Approx. 135 g (MS-300ML) | Approx. 155 g (MS-550ML) |

### PU-501

Stand with Built-in Vacuum Pump for ARV-501



\* The voltage of the PU-501 (Stand with Built-in Vacuum Pump) is single-phase AC200 $\pm$ 10%.

|                        |                         |
|------------------------|-------------------------|
| <b>Unit Dimensions</b> | H300 × W493 × D493 (mm) |
| <b>Unit Weight</b>     | Approx. 47 kg           |

Product appearance/specifications may change without notice.

# THINKY CORPORATION

Headquarters: 2-16-2 Sotokanda, Chiyoda-ku, Tokyo 101-0021  
Phone : +81-3-5207-2713 Fax : +81-3-5289-3281

THINKY USA Inc. : 23151 Verdugo Drive, Suite 112 Laguna Hills, CA 92653, USA

THINKY CHINA: East building, HaiAn Kafunuo Mansion, Shennan road,  
Qianhai road, Nanshan district, Shenzhen

<https://www.thinkymixer.com/en-gl/>

Sales agent