

THINKY ARV-501 Planetary Centrifugal Vacuum Mixer



Description

The **THINKY ARV-501** is a mid-sized mixer able to homogeneously mix all engineering compounds including silicones, adhesives, conductive pastes, pharmaceuticals and many other materials. It operates using THINKY's industrial non-contact "planetary" mixing technology, and is able to mix, disperse and degas **up to 700g** of material within minutes, eliminating any micro-bubbles.



Thinky ARV-501 without optional PU-501 stand

The **ARV-501** has an optional stand, the **ARV-PU501**, which includes a built in vacuum pump. Mixing can be achieved under vacuum by using the **ARV-PU501** or another external vacuum pump in order to achieve a completely bubble-free result. Mixing and degassing can be done without vacuum by using

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the two standard modes, “mixing” and “defoaming”. Non-vacuum mixing is useful for solvated or highly volatile materials, or for when a less critical mix is needed. THINKY’s cup holder vacuum design minimises the overall vacuum volume, and so keeps the process time required to achieve vacuum and to restore atmospheric pressure to a minimum.

The **ARV-501** comes with **550ml** HDPE thick wall jars, including inner lid & cap, as standard. There is a standard version with a hole in the cap to facilitate vacuum mixing. Materials can be mixed in other sealed or lid-less containers such as jars, beakers, syringes or cartridges; we provide adaptors so they fit in the ARV-501.

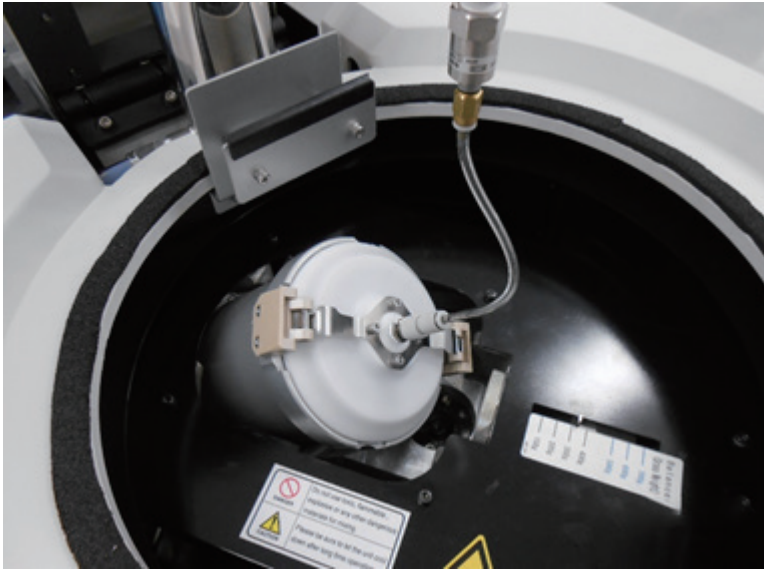
The **THINKY ARV-501’s** multi-step mixing feature allows 20 different programs to be set containing mixing and degassing conditions (time and speed per mode) in a single batch cycle. These programs are set up and stored using the inbuilt touch screen control panel. RS232 connectivity allows recording of each process for traceability, start/stop, program editing, etc.

This **Technical Bulletin**, [*Vacuum Mixing & Degassing*](#), discusses the differences between non-vacuum and vacuum Thinky mixers and processes, and when they are needed.

Features & Benefits



THINKY ARV-501 Planetary Centrifugal Vacuum Mixer



Thinky ARV-501 cup holder design showing vacuum hook up

Simultaneous process of mixing, dispersion and degassing in one batch

- Mix in your product container
- Vacuum and non-vacuum defoaming mode
- Non-invasive, no propeller or stirrer
- Small footprint
- RS232 connectivity for traceability
- From low viscosity to semi-solid materials
- Dry particle mixing
- Syringe degassing

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- No cleaning between batches
- Consistent quality with all digital controls
- Multi-step mixing
- Hands-free processing
- Fast vacuum process

Applications

Our customers use the mixer to formulate and mix a multitude of different products including:

- adhesives
- sealants
- moulding compounds
- lubricants
- slurries
- coatings
- inks
- paints
- abrasives
- bio-chemicals
- cements
- medical compounds
- cosmetics/personal care materials
- detergents
- conductive pastes
- dental materials

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- foods
- any other materials which are hard to mix, degas, or wet

Specifications


Specification	
Method	Vacuum type propellerless rotation and revolution mixing method
Range of operation time	From 00 minutes 00 seconds to 30 minutes 00 seconds (total operation time can be set at maximum 30 minutes in units of 1 second)
Revolution speed	Maximum 2000 rpm
Rotation speed	Maximum 870 rpm
Number of programmes	20 memories (10 steps can be registered in each)
Maximum mixing volume	550ml container: 500ml / 700g

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Specification	
Vacuum system	Vacuum system within container holder
Dimensions	H 815 x W 500 x D 601mm
Weight	Approximately 110kg
Power supply	Single-phase AC 200 - 240V +/- 10% 50Hz / 60Hz
Power consumption	On standby: approximately 50 VA During operation: maximum 2000 VA
Display unit	Touch panel (4.3 inches)
Communication function	Data collection function (traceability) Operation start and stop Program editing and saving
Other	Real-time display of rpm during operation Ability to assign program names

Other Information

	Getting to know THINKY Mixers Download a presentation which describes how THINKY Mixers work, and what benefits they can deliver to you.
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Ordering Information

Part number	Description
THIARV-501CE	THINKY ARV-501 Planetary Centrifugal Vacuum Mixer includes 1 x THI550ML-01 550ml jar, 2 x THI550ML-01-HOLE 550ml jars, instruction manual and set-up tools
THIPU-501CE	THINKY ARV-501 Vacuum Pump Unit/Stand (optional)

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Part number	Description
THI550ML-01	550ml HDPE thick wall jar with inner lid & cap
THI550ML-01-HOLE	550ml HDPE thick wall jar with inner lid & cap - hole in cap for vacuum mixing

Let’s start by talking about your application

THINKY ARV-501 Planetary Centrifugal Vacuum Mixer

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orders@intertronics.co.uk

- Name*
- Company*
- Phone*
- Email*
- Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

-
- Tell us about your application

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Last updated: November 2022 Version: 1.3

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