



C3 PROZESS- UND  
ANALYSENTECHNIK GmbH

PRODUKTINFORMATION

# THINKY Mixer ARV-310 / ARV-310 LED

**THINKY**

Our amazing mixer with  
a rotating and revolving method  
accelerates a mixture to 400G force  
in 10 seconds and 100G force in 10  
seconds. It is a revolutionary mixer  
that can mix, disperse and degas  
materials in seconds.

High-speed material  
rotation under strong  
acceleration 400G.

High-speed rotation  
100G force in 10 seconds  
and 400G force in 10 seconds.  
It is a revolutionary mixer  
that can mix, disperse and degas  
materials in seconds.



# Mix, Disperse and Degas Completely in Seconds

Planetary Centrifugal Mixer

## THINKY "Vacuum" Mixer

# ARV-310

Squeeze and vacuum all air bubbles out from the mixture  
This is the power of vacuum centrifugal mixer

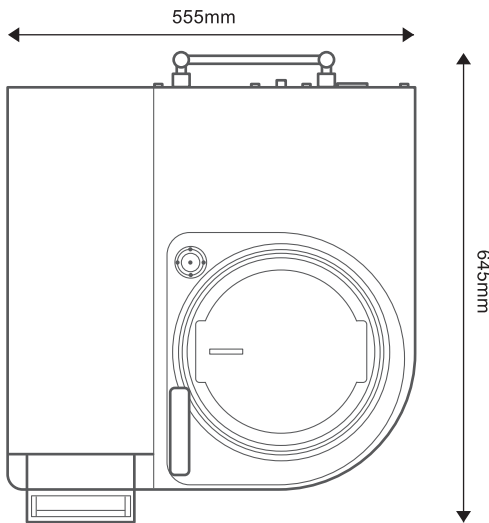
- Disperse and de-agglomerate all types of materials.
- Deaerate down to sub-microns extremely rapidly due to centrifugal mixing process in vacuum pressure, regardless viscosity of materials.
- NO overflows, NO monitor of the system. 400Gs force applied to materials has ended overflow materials in degassing process.
- Select your preferred unit of measurement. KPa or Torr
- Easy operation. Load material container and press the start button. Process can be controlled as programmed.
- Precise control on materials. Program different 5 sequential mixing steps in a cycle.
- Recall the programmed cycle. 9 memory slots are available.

For  
the Best  
Result



## Planetary Centrifugal Vacuum Mixer

# THINKY Mixer ARV-310



Typical Vacuum Process

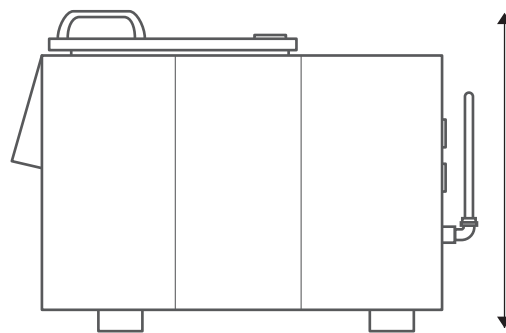
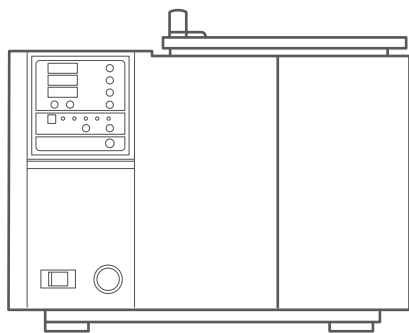


Vacuum deaeration is a time consuming work, which requires your dedicate monitor on materials for overflow control, through long time processing.



ARV-310 causes NO material overflow in the process. Process itself will be done in minutes.

The lid slides and has a wide open working area.



### Standard Accessories ;

- (1) 300ml reusable container x 3 pieces
- (2) 150ml reusable container x 1 piece
- (3) 150ml container adapter x 1 piece

### ARV-310 Main Specifications

Model Number	ARV-310	Vacuum Chamber	Rotator in Vacuum	Unit Dimensions	H440×W555×D645 (mm)
Product Name	"Planetary Centrifugal Mixer THINKY Vacuum Mixer"	Vacuum pump capacity	200 Pa (2Torr), 100 liter / minute	Unit Weight	90kg. (198lb.)
Method	Non-contact, planetary motion centrifugal mixing method	Vacuum Pressure	0.67 Kpa (5Torr) - Air pressure	Safety Features	Lid Locking system, Vibration Sensor, Rotation speed sensor
Process Cycle Time	1 seconds to 30 minutes	Revolution Speed	0, 200 - 2,000RPM 10RPM Increment	Standard Containers	300ml or 150ml jar, HDPE
Program Memory	9 slots	Rotation Speed	0 - 1000RPM Follows Revolution Speed / 2		
Maximum mixing capacity (gross weight)	Air 250ml, 310g (300ml jar) 150ml, 310g (150ml jar) Vacuum* 200ml, 310g (300ml jar) 120ml, 310g (150ml jar)	Power Supply	Single Phase 100VAC ±10% 50hz/60hz Power consumption Standby : 50VA // In process : 1,100VA		
Multi-Step Mixing	1-5 steps in a cycle	Operating Environment	10-35°C, 35-85%RH (Non-condensation)		

### Optional Adapters



Please ask THINKY sales representatives for all adapters available in your country or custom made adapters for your specific containers.

\* Process half of ML capacity of your mixing cup with no use of its lid. Lid is with hole in the middle.

- Specification is subject to change without notification.

- The mixing results may vary depending on processing conditions or materials.

- The unit is NOT explosion-proof.

- Material could heat by shear given in the process.

Pioneer of Centrifugal Mixer

## THINKY Corporation

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THINKY Business Partner ;

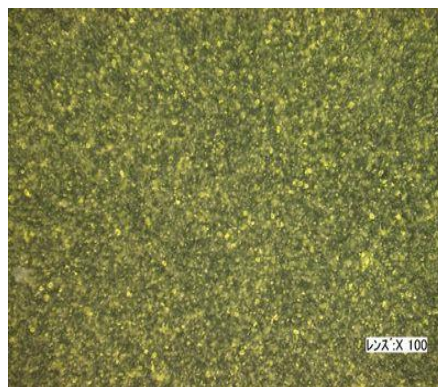
### ◀ New Product info ▶

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**NEW !!**



**ARV-310LED CE**



**Optic Microscope (x100)**

- ★Uniform mixing and dispersing
- ★No air bubbles are observed

#### — Specification —

Product name	"THINKY mixer" Rotation/Revolution propeller-less mixing in vacuum
Model	ARV-310 LED CE
Max process volume	Air 250mL / *Vacuum 200mL (*Use inner and outer lid with an air vented hole)
Max process weight	310g (Gross)
Standard container	300mL and 150mL containers (HDPE)
Operating time setting range	0 seconds to 30 minutes (in the unit of 1 sec.)
Maximum revolution speed	1,200 rpm
Ultimate Vacuum	0.67kPa
Vacuum pump ability	266 Pa (Approx. 2 Torr) 100L/min.
Vacuuming style	Rotating part vacuum chamber
Programing memory	9 slots (each 5 steps in 1 slot)
Safety features	Lid locking, Vibration sensor, Revolution speed sensor, Pressure sensor, Emergency bu
Power supply	Single phase 230V 50/60Hz
Operating environment	10~35°C、 35~85%RH(Non-condensation)
Unit dimensions	450 H x 555 W x 645 D(mm)
Unit Weight	Approx. 90 kg
Options	Please consult with our sales representative.



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