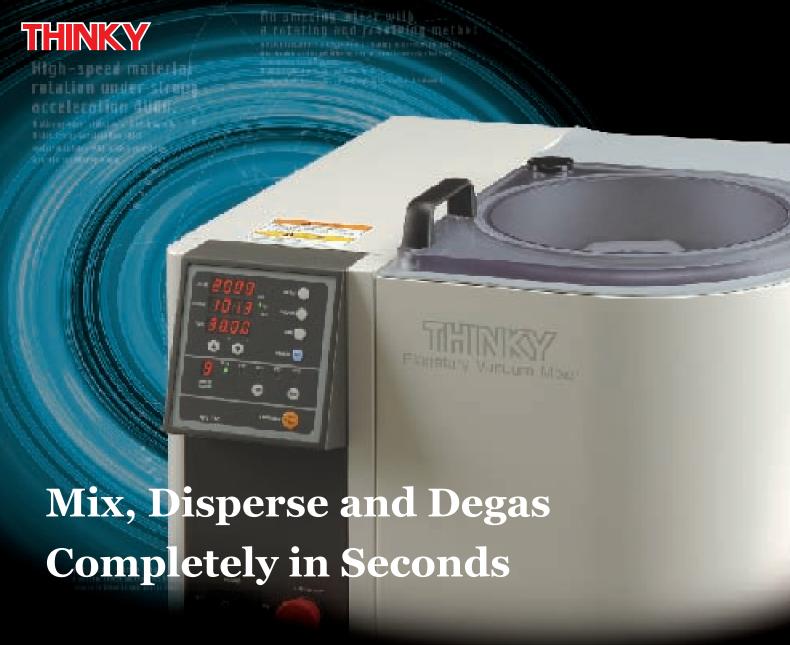


PRODUKTINFORMATION

THINKY Mixer ARV-310 / ARV-310P



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

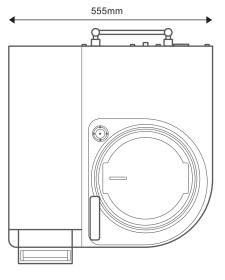
- Disperse and de-agglomerate all types of materials.
- Deaerate down to sub-microns extremely rapidly due to centrifugal mixing process in vacuum pressure, regardless viscosity of materials.
- NO overflows, NO monitor of the system. 400Gs force applied to materials has ended overflow materials in degassing 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





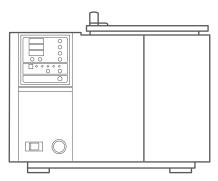
Vacuum deaeration is a time consuming work, which requires your dedicate monitor on materials for overflow control, through long time processing.

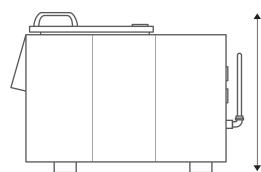


ARV-310 causes NO material overflow in the process. Process itself will be done in

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** Vacuum Chamber Unit Dimensions H440×W555×D645 (mm) Rotator in Vacuum Model Number ARV-310 "Planetary Centrifugal Mixer THINKY Vacuum Mixer" Vacuum 90kg. (198lb.) Product Name 200 Pa (2Torr), 100 liter / minute Unit Weight pump capacity Non-contact, planetary motion centrifugal mixing method Lid Locking system, Vibration Sensor, Method Vacuum Pressure 0.67 Kpa (5Torr) - Air pressure Safety Features Rotation speed sensor Standard Containers Process Cycle Time 1 seconds to 30 minutes Revolution Speed 0, 200 - 2,000RPM 10RPM Increme 300ml or 150ml jar, HDPE 0 - 1000RPM Program Memory 9 slots Rotation Speed Follows Revolution Speed / 2 ■Optional Adapters 250ml, 310g (300ml jar) 150ml, 310g (150ml jar) Single Phase 100VAC \pm 10%

Power Supply

Operating

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

200ml, 310g (300ml jar)

120ml, 310g (150ml jar)

Specification is subject to change without notification.

Air

Vacuum

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

1-5 steps in a cycle

- The unit is NOT explosion-proof.

10-35°C

- Material could heat by shear given in the process.

Power consumption Standby: 50VA

35-85%RH (Non-condensation)

In process: 1,100VA



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

Pioneer of Centrifugal Mixer

Maximum mixing

capacity

(gross weight)

Multi-Step Mixing



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THINKY Business Partner;



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≪ New Product info ≫

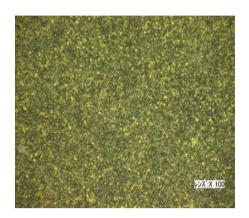
THINKY Corporation International Marketing Department Tokyo 81+3-5821-7455

NEW !!



ARV-310LED CE

★Uniform mixing and dispersing ★No air bubbles are observed



Optic Microscope (x100)

— Specification —

	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 innner 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 butto		
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 representitive.		





Meeting traceability needs in operating processes

THINKY Mixer ARV-310PCE

Touch panel

Recipe Management Improved

- ✓ Register up to 20 recipes, each specified by an appropriate name.
- ✓ Real-time display and check of recipe progress and operating status
- ✓ Easy identification of causes of error by clear display of error status with a corresponding explanation



Communication function

Support automatic operation and log report

- ✓ An external terminal for recipe selection and loading as well as operation start and stop available
- During remote control, external terminal instructions are prioritized and main unit panel operation is disabled.
- ✓ Supports equipment function of reporting progress and operating status every second
- ✓ Sample software for remote operation available free of charge (for Windows 7, 8, and 10)

Operation screen of touch panel

Initial screen



ARV-310PCE

あわとり練太郎



English Version

THINKY CORPORATION Pioneer of planetary centrifugal mixers

Screen for editing recipe



Viewing and editing of all steps in one screen possible

Screen of operation control



Displays real-time revolution speed and vacuum pressure

5 Screen for recipe-name input



Upper and lower case letters and numerals can be input.

Screen of utility selection



Shows total number of operations and total operation time in a table

6 Example of alarm display



Error details, explanation of cause, and recommended action are displayed together with the error number.

ARV-310PCE: Product Specification

Method		Vacuum type, propellerless, rotation and revolution mixing method
Range of ope	eration time	From 00 minutes 00 seconds to 30 minutes 00 seconds (The total operation time can be set at maximum 30 minutes in units of 1 second)
Revolution speed		Maximum 2000 rpm (0 rpm and range from 200 to 2000 rpm in units of 10 rpm)
Rotation speed		Maximum 1000 rpm (automatically set to be the half of the revolution speed)
Number of memories		20 memories (five steps can be registered in each)
Container		300 ml and 150 ml, made of HDPE
Maximum &	Atmospheric pressure	When using 300 ml container: 250 ml / 310 g When using 150 ml container: 120 ml / 310 g
minimum quantity processed	Vacuum operation	When using 300 ml container: 200 ml / 310 g When using 150 ml container: 100 ml / 310 g

Vacuum chamber		Rotary part vacuum chamber system
Power	Voltage	Single-phase AC 230 V \pm 10%, 50 kHz / 60 kHz
supply	Power consumption	During standby: about 50 VA During operation: Maximum 1200 VA (except at startup)
Operatio	n environment	- 10 to 35°C, 35 to 85% RH (no condensation) - Altitude lower than 2000 m
Main body dimensions		450 mm (H) × 555 mm (W) × 645 mm (D)
Body weight		About 90 kg
Switch / display unit Communication function (RS232C) Others		Touch panel (4.3 inches)
		Data collection function (Traceability function) Operation start and stop, recipe editing and saving, using an external terminal
		Real-time display of rpm during operation, function of setting recipe name

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