



THINKY MIXER

THINKY ARV-931-TWIN-CE

POLY DISPENSING SYSTEMS
S Y S T E M E S D E D O S A G E I N D U S T R I E L

This product employs a twin mixer system, and supports manufacturing application with the capacity to process a maximum 1L of materials. It is equipped with a vacuum function in order to achieve deaeration at the submicron level, thus it is possible to process uniform mixing and dispersion as well as deaeration at the same time.

It has two deaeration modes as standard features: one is vacuum deaeration mode which combines 400G centrifugal force and vacuum, and the other is Non Vacuum deaeration mode which utilizes powerful centrifugal force of maximum 670G.

This enables high precision deaeration even with materials that contain a volatile component that is not suitable for vacuum deaeration. Furthermore, time to reach vacuum is significantly reduced by adopting our unique in-cup-holder vacuum pressure reduction system that minimizes the vacuum volume.

- **Powerful mixing by 400G**

Simple operation can mix and deaerate max. 1L Material

Capable of 400G acceleration with 750 ml x 2 containers

- **Optional mode of vacuum or defoaming mode**

Defoaming mode realizes the deaeration of volatile materials. Powerful defoaming by 660G acceleration.



Name of Commodity	Planetary Centrifugal Vacuum Mixer "THINKY MIXER"
Model	ARV-931TWIN CE
Method	Vacuum-type, planetary, propeller-less mixing
Time Setting range	0 s to 30 min in 1 s increments
Programming Function	10 steps / 20 recipes
Revolution speed (rpm)	Mixing Mode : Max. 1400 rpm (0 rpm and 200-1400 rpm) Defoaming Mode : Max. 1800 rpm (0 rpm and 200-1800 rpm)
Rotation speed (rpm)	Mixing Mode : Max. 700 rpm (following by 1/2 speed of revolution) Defoaming Mode : Max. 54 rpm (following by 1/33.3 speed of revolution)
Max. Mixing Volume	930 g x 2
Standard Container	Inner volume: 750 ml and 550 ml Material: HDPE
Vacuum System	Vacuum system within cup holder
Ultimate Vacuum	0.60 kPa (approx. 5 Torr) (using epoxy 300g)
Power Supply	Voltage : 3 phase AC220V±10%, 50/60 Hz Power consumption : During standby: approx. 120 VA During operation: max. 4400 VA (excl. at the time to start)
Operating Environment	10-35°C, 35-80% RH (without condensation) Within 2000 m of altitude Excessive vibrations or impact must be avoided. Keep away from the rain, dust and other fine particles, or chemicals. Pollution degree: 2 (IEC60664 1). Overvoltage category of the power source: Category III (IEC60664 1).
Unit Dimensions	900 mm (H) × 660 mm (W) × 820 mm (D)
Unit Weight	Approx. 240 kg

Features of ARV-930 TWIN

- 1 ARV-930TWIN can mix, disperse and deaerate at the same time by powerful centrifugal force 660G + vacuum.
- 2 Applicable for production volume. Max 500 ml (x2) in 750ml container can be processed under vacuum condition.
- 3 Twin cup mixing system can process 1 liter at once.
- 4 Defoaming mode is available on vacuum mixer. ARV-930TWIN carries both vacuum and non-vacuum defoaming mode.
- 5 Cup holder vacuum offers big advantages; temps ; contamination, time.
- 6 Variety of cups are set with custom design adapter even small volume.

Thinky Original cup holder vacuuming

Conventional chamber vacuuming has heating issues.

Merit

- Short pumping time
- Air cooling by Revolution
- Cold Air cooling (option)
- Less contamination

750ml containers are set in the holders





Ease of Operation

« Mixing mode Max. 1400 rpm (400G) », « Defoaming mode Max 1800rpm (approx. 660G) » can be set 10rpm Increment.

Vacuum can be set ambient _ 0.67Pa 0.1kPa Increment

Step performing

Up to 9 steps can be set in each memory.

Memory

9 memories are available. Loading by one key.



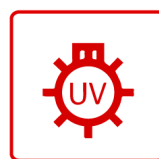
Mix



Dispenser



Robots



Polymerization

PDS S.A.S is a french company that commercializes a wide range of dosage equipments, proven and effective. Distributed in over 20 countries around the world, these equipments provide tailored solutions to many users in order to improve technically their manufacturing and reduce their productions costs.

Our collaborators and sales engineers all have a strong technical competences. They are able to answer your questions and offer you, after analysis, the right solution for your particular need.

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