

Meeting traceability needs in operating processes

THINKY Mixer
Vacuum type

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)

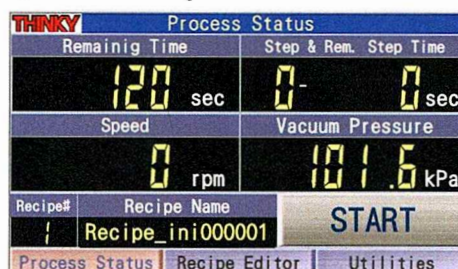
Operation screen of touch panel

① Initial screen



Japanese ⇄ English language switch possible

② Screen of operation control



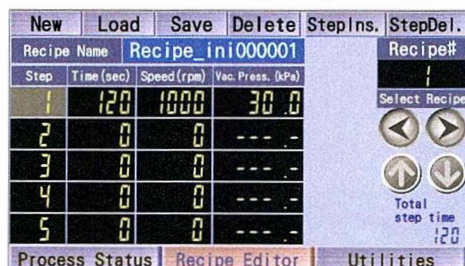
Displays real-time revolution speed and vacuum pressure

③ Screen of utility selection



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

④ Screen for editing recipe



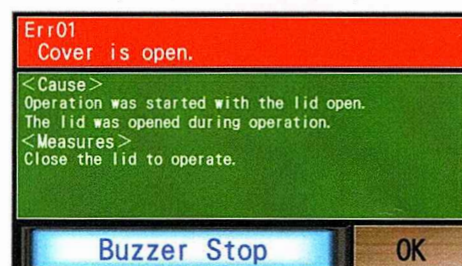
Viewing and editing of all steps in one screen possible

⑤ Screen for recipe-name input



Upper and lower case letters and numerals can be input.

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 operation 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 & minimum quantity processed | Atmospheric pressure | When using 300 ml container: 250 ml / 310 g When using 150 ml container: 120 ml / 310 g |
| | 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 supply | Voltage | Single-phase AC 230 V ± 10%, 50 kHz / 60 kHz |
| | Power consumption | During standby: about 50 VA During operation: Maximum 1200 VA (except at startup) |
| Operation 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 | | Touch panel (4.3 inches) |
| Communication function (RS232C) | | Data collection function (Traceability function) Operation start and stop, recipe editing and saving, using an external terminal |
| Others | | Real-time display of rpm during operation, function of setting recipe name |

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