



## RC-LAB

### Laboratory Heating/Cooling mixer "RC LAB"

The **RC LAB** laboratory mixer is suitable for mixing PVC dry blend, powder coatings, pigment masterbatches, thermoplastic rubbers, (WPC) wood-plastic composites. It offers high process reproducibility in the manufacturing plant to provide essential data to improve productivity and quality. The RC LAB allows mixing and cooling in the same unit as the double wall allows water to circulate.

#### PRINCIPLE OF OPERATION

The RC LAB mixers are used in many mixings process and applications. Are ideal for new formulation preparation, but also for training purpose of customer, suppliers, and machine operators. The lab mixer is designed for safe scale up of new product development. The newly design take in consideration of the many tools the lab technician it may require, and we create a safe storage are incorporated in the design of the mixer.



#### MAIN FEATURES

##### EASY AND FAST CLEANING

Mirror polished vessel and lid, to facilitate cleaning. One body frame for all sizes, easy transportation, ready to use. Heating and cooling with automatic water discharge between cycles.

##### HIGH PERFORMANCE

Essential for testing of new formulations and production of small batch as samples. Reliable for scale-up to production process. Several designed mixing tools are available for each mixer size and the required amount of mixing required.

##### A WIDE RANGE OF SIZES AVAILABLE

The RC LAB mixers are designed to be operated at a variable filling level and for a wide range of applications: homogenizing, friction mixing, coating, color sampling, etc.

##### INSTALLATIONS

RC LAB are extremely easy to set up, thanks to the plug and mix architecture. They can be put in place by a simple manual pallet truck.

##### CONTROL SYSTEM & INDUSTRY 4.0

The fully integrate control and display has an easy data export. Reliable for R & D projects and recording of all parameters. Optionally connect to Syncro Tyger support system.

##### HMI

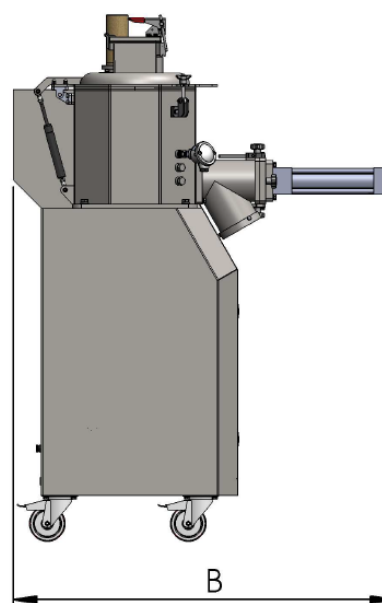
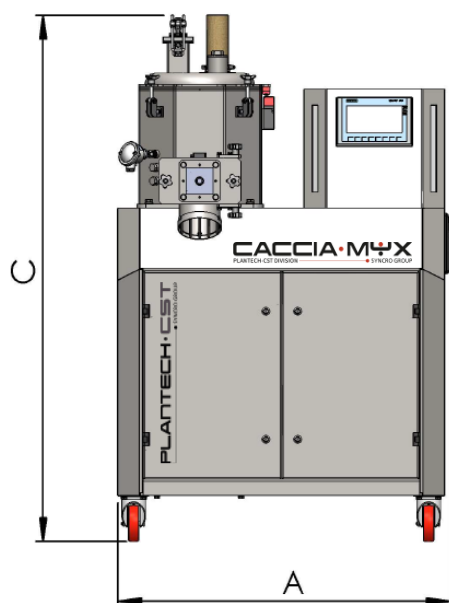
RC LAB mixers are equipped with a user-friendly HMI touch screen (7"-9"-15,6").

##### OPTIONS AVAILABLE

As an option, RC LAB coolers are available with nitrogen and oxygen concentration monitoring by insufflation.

Available in ATEX, NEMA and UL version.

## TECHNICAL DATA



### Configurations

- Single frame for all 3 sizes of mixer (10/20/30 lt)
- Easy replacement of the 3 sizes of Mixer
- Cabin load-bearing structure in painted carbon steel
- Swivel wheels
- Closed circuit hydraulic system managed by automatic ball valves
- Mixer and blades in Aisi 304 with contact parts mirror polished
- Integrated control cabinet
- 7" HMI
- Status LED
- Blades coated in tungsten carbide. Very resistant
- Chopper
- Heated hopper for plastic injection
- ATEX, Nitrogen inertization
- NEMA / UL CSA execution

### Options

- Additional blade complete with spacer
- Tungsten carbide blade covering
- Chopper
- Mixing chamber heating
- Execution in the ATEX environment

### Technical data

- Engine: 5.5÷11 Kw
- Voltage: 400-440V - Hz 50-60

	Useful volume (Lt)	Blades (n°)	A (mm)	B (mm)	C (mm)	Power (kW)
<b>RC LAB 10</b>	8	2	912	1047	1398	5.5
<b>RC LAB 20</b>	16	3	912	1047	1468	7.5
<b>RC LAB 30</b>	24	3	912	1047	1509	11