

LABORATORY CENTRIFUGES RC 20 / RC 30 VX



RC 30 VxR



RC 30 Vx

KEY FEATURES OF RC TYPE CENTRIFUGES



EASE OF USE

- Cake discharge by removable bag.
- Cycle control in manual or semi-automatic mode.
- Can be installed on the ground-floor or upstairs.



FLEXIBILITY

- Interchanging elements.
- Possibility to test various solutions (filtration/decantation) for liquid/solid separation.
- Allows use in laboratories as well as for pilot plant trials and even for small scale production (kilolab).



RELIABILITY

- Perform under most arduous conditions: process of corrosive products, aggressive environments, explosive atmosphere...

GENERAL DESIGN OF RC20 / RC30 Vx TYPE CENTRIFUGES

Rigid form
Vertical axis centrifuge mounted on 4 anti-vibration rubber dampers.



Controllers
Centrifuge manual operation by means of a control box set on the frame.

Electrical cabinet
Separate & water tight.



MAIN FEATURES

TYPE	Basket								
	Ø mm	Height mm	Useful volume dm ³	Useful load kg	Maximum speed tr/min	Length mm	Width mm	Height mm	Weight kg
RC 20	200	100	1,2	1,5	3000	780	440	645	130
RC 30	300	150	5,5	6,85	3000	780	440	645	130



Basket
Ø 200 mm (RC20) or Ø 300mm (RC30) with removable filtration bag.

Material
All product wetted parts including the outside frame are manufactured from stainless steel AISI 316.

Lid with E.P.
Sealing gasket and safety locking, feeding pipe and sight glass.

Rotating basket
Driven by single speed side mounted motor and transmission via antistatic belt connected to a frequency inverter to achieve starting, braking and variable speed. All motors and electrical equipment mounted on the machine are water tight (IP55).

Safety
Centrifuge supplied with all safety devices according to latest European standards. Centrifuge manual operation by means of a control box set on the frame.



ALTERNATIVE CONSTRUCTIONS AND OPTIONNALS EQUIPMENTS

• ATEX CONFORMITY / EXPLOSION PROOF EQUIPMENT

Manufactured according to ATEX regulation (European Union countries) or supplied with explosion proof electrical equipment (countries outside the EU). **Possibility to supply the control panel under explosion proof envelope.**

• INERTIZATION

The centrifuge can be gas-tight for gas under pressure (10 mbar) to receive nitrogen blanketed (relevant piping + lid and gasket suitable for improved sealing).

Possible supply of the inerting control system (ICS) and of the hydraulic siphon for sealing the outlet pipe.

• MATÉRIAUX

Other **stainless steels** or **alloys** for all product wetted parts. Lid seal from **VITON**, or **VITON PTFE** encapsulated, **silicone** and **silicone rubber PTFE** encapsulated.



Cake rinsing pipe with one or more adjustable spraying nozzles.



Inspection lamp on additional sight hole.



Standard decantation bowl
 Ø 200 mm (useful volume 1, 2 liter) or Ø 300 mm (useful volume 5, 5 liters) or bowl with top part designed with sets of 2 holes, plugged with screws, for different defined useful volumes.

Control cabinet
 on Skid.

Liquors discharge pump.

Mobile manual trolle



Additional removable filtration bag for basket 200 or Ø 300mm manufactured with fabrics from different material and features.

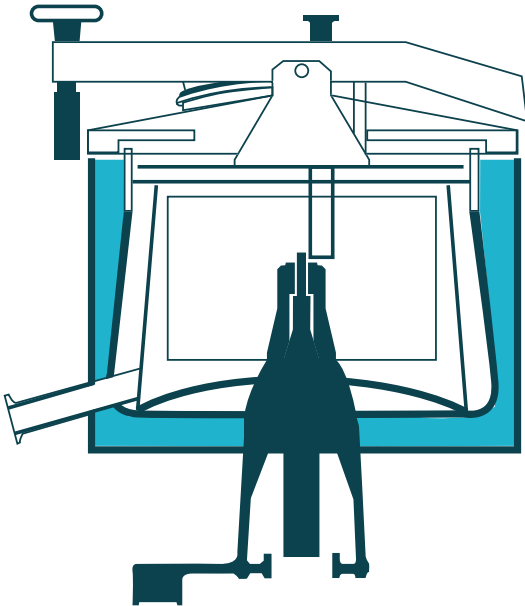


Optional equipment and auxiliaries

- **Liquid removal either by overflowing or by means of a manually controlled skimmer pipe** (Ø 300 mm bowl only) or through two holes designed in the bowl plate.
 - **Test tube holder.**
 - **Interchangeable feeding pipes En Place** (straight or curved).
- **Clean In Place (CIP) pipe** with rotating spray head.
 - **Additional small piping on lid** (vapor feeding).
 - **Cycle timer.**
 - **Anti-vibration safety device** (accelerometer).
 - **Anti-noise protection** sound insulation plates on inner sides of the frame.
 - **Shaft protector.**

SPECIFIC VERSIONS

- **Double jacket shell**, with or without thermal insulation (see diagram below).
- **Increased maximum speed: according to the centrifuge configuration**, processed solution characteristics, and with ROUSSELET ROBATEL choice only, the centrifuge will be built with optional rotating rotor speed of 3.500 or 4.000 rpm.
- **Removable basket Ø 200 mm or Ø 300 mm**, driven in rotation by a non removable basket carrier or bowl (for impregnation machine only)/maximum speed reduced to 1.500 rpm.
- **Rotor manufactured with specific shapes**, dimensions and volumes.
- **Finish level as per customer request** (improved mechanical polishing or electrolytic polishing).
- Centrifuge designed to incorporate a **soft containment envelope** or placed under a rigid glove box.



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