

LABORATORY CENTRIFUGES RC20 / RC30



food industry



chemicals & pharmaceuticals



textile



metallurgy



PROPERTIES OF THE RC 20/30 RANGE



EASE OF USE

- Unloading of solids via removable bag or liquids via decanter with skimmer.
- Manual or semi-automatic cycle control.
- Equipment can be installed on a table or trolley



FLEXIBILITY/ PERFORMANCE

- Interchangeable elements.
- Solutions for solid/liquid or liquid/liquid separation.
- Can be used for both laboratory testing and smallscale production (Kilolab).



RELIABILITY

- Working in the most severe conditions: handling corrosive products, explosive atmospheres (ATEX).

BASIC VERSION FEATURES

Rigid form
Vertical axis centrifuge



Controllers
Control of the centrifuge from a box attached to the frame

Electrical cabinet
Separate & water tight



MAIN FEATURES

TYPE	Basket (mm)	Basket height (mm)	Useful volume (l)	Useful load (kg)	Max. speed (rpm)	Lenght (mm)	Widht (mm)	Height (mm)	Weight (kg)
RC 20	200	100	1,2	1,5	3 500	780	440	645	130
RC 30	300	150	5	6,25	3 500	780	440	645	130

Material
All parts in contact with the product are made of AISI 316L stainless steel or Alloy C22. The outer casing is made of AISI 316L.

Cover with EP or PTFE seal
and locking device, equipped with a feed pipe and a sight glass.

Basket drive
Rotation by side motor. Speed transmission by antistatic belt. Frequency converter allowing starts, braking, and speed adjustment. Frequency variator for starting, braking, and speed adjustment. Waterproof motors and other electrical equipment.

Safety
Centrifuge equipped with all safety devices in accordance with current standards.

Standard decanting bowl
Ø 200 mm (volume 1.2 liters) or Ø 300 mm (volume 5 liters) or bowl with upper rim fitted with a set of 2 holes, blocked by suitable screws, for defining different useful volumes.

Liquid drainage by overflow or by manually operated sampling tube (only for 300 mm bowl) or through 2 holes in the bowl tray.

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



ALTERNATIVE CONSTRUCTIONS AND OPTIONNALS EQUIPMENTS

ATEX CONFORMITY / EXPLOSION PROOF EQUIPMENT

Machine compliant with ATEX regulations (EU countries) or supplied with explosion-proof electrical equipment (non-EU countries). **Can be adapted to suit customer zoning requirements.**

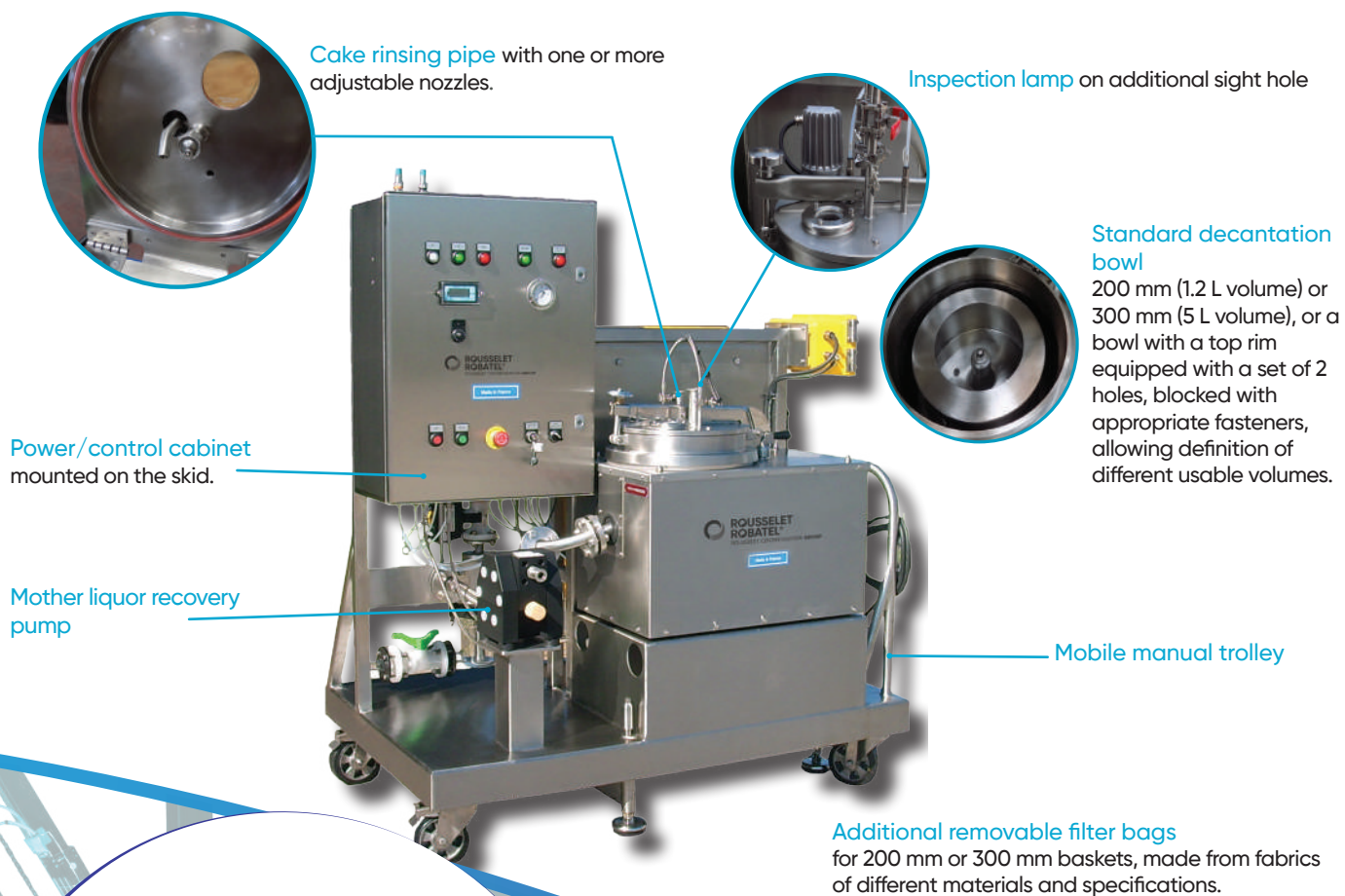


INERTING

Centrifuge suitable for pressurized gas sealing to accommodate nitrogen inerting (inerting connections, with cover and gasket adapted for enhanced sealing). **Pressure control and hydraulic guard inerting system available.**

MATERIALS

Other grades of **stainless steels** or other alloys for all product-contact parts. Cover gaskets: **VITON, PTFEcoated VITON, PTFE-coated silicone.**



Cake rinsing pipe with one or more adjustable nozzles.

Inspection lamp on additional sight hole

Standard decantation bowl

200 mm (1.2 L volume) or 300 mm (5 L volume), or a bowl with a top rim equipped with a set of 2 holes, blocked with appropriate fasteners, allowing definition of different usable volumes.

Power/control cabinet mounted on the skid.

Mother liquor recovery pump

Mobile manual trolley

Additional removable filter bags for 200 mm or 300 mm baskets, made from fabrics of different materials and specifications.

- **Other available options**
 - Tube holder
 - Interchangeable feeding pipe (straight or bent (J shape).
 - Cleaning-in-place (CIP) piping with rotating head.
 - Additional connection on cover (steam supply).
 - Timer for time selection.
 - Temperature maintenance and heating system.



SPECIAL VERSIONS

- **Temperature control** via double-jacketed tank, insulating layer or mat, plus electric tracing.
- **Increased maximum speed:** depending on the centrifuge configuration, characteristics of the solution to be processed, and based on a specific study, the centrifuge can be designed for rotor speeds up to 4000 rpm.
- **Removable basket** 200 mm or 300 mm diameter, driven by a **basket holder** or a bowl (for impregnation machines).
- **Rotors with specific designs**, dimensions, and volumes.
- **Custom finishes on request**, including advanced mechanical polishing or electropolishing.
- Centrifuge designed to accommodate a **flexible containment envelope** or to be placed under a rigid glove box.



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