

OUR RANGE



PRODUCTS

- ▶ Dyeing accessories (pumps, kiers in stainless steel, material carriers, beams cart...)
- ▶ Loading press
- ▶ Rapid dryers
- ▶ "Space dyeing" machines
- ▶ Laboratory equipment : dyeing machine press, dryers
- ▶ Hank washers and dyeing machines
- ▶ Energy recovery systems
- ▶ Horizontal dyeing and bleaching polyclaves

SERVICES

- ▶ Dyeing process automation and computer-controlled dye house
- ▶ Machinery revamping and improvements
- ▶ Production process creation by exhaustion data analysis



VERTICAL POLYCLAVE S.R.E



CALLEBAUT DE BLICQUY

Callebaut de Blicquy is the well-known specialist of dyeing machines. Its experience has been acquired over many years through SMTI, Comeureg, Texinox, Schlumpf & Wilms. today, This experience enables Callebaut de Blicquy to give you well qualified advices and to offer you a range of machines and auxiliary equipment at the sharp end of dyeing technology

On these foundations, Callebaut de Blicquy provides also the best advice for selecting and improving equipments, engineering and revamping.

These give the dyer and finisher a guarantee of high quality and reliable productivity taking into account the imperatives of delivery times and ecological factors

- ▶ World leaders in large capacity hank dyeing machines for carpet yarn
- ▶ Over 75 years experience
- ▶ A wide range of state of the art machines and equipment
- ▶ Excellent customer after sales service
- ▶ Quality and productivity guaranteed
- ▶ Consideration for the Health & Safety and environmental issues

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PRESENTATION

The vertical polyclave SRE dyes :

- ▶ Yarn, raw, tow, top, ribbon... (beforehand loaded on a material carrier placed into the dying vat)
- ▶ Any types of materials such as wool, polyester, acrylic, polyamide, viscose, cotton...
- ▶ Their mixtures in any form: conical or cylindrical bobbins, soft or hard...
- ▶ And uses any standard dyes on the market.

The standard polyclave SRE has been made with an addition tank, the dyes being dissolved separately and poured into the addition tank or into the reservoir. A modern design dye kitchen with a 1 to 5 doses capacity is provided as an option.



OPTIONS

- ▶ Preparation tank
- ▶ Separate cooling coil
- ▶ High temperature evacuation system: possibility to collect calories, to save steam and water, decrease in oligomeres
- ▶ Additional kitchen tanks
- ▶ Secondary circulation between the additional tank and the main tank



TECHNICAL FEATURES

All parts in contact with the bath are in 316L stainless steel. The treatment vat, designed for a temperature up to 140°C (284°F), has been built according to norms by agreed institutions.

- ▶ Adjustable liquor ratio and varying capacity
- ▶ Static air cushion pressure
- ▶ Incorporated circulation pump for an optimal control of the dyeing
- ▶ Flow regulation from the main pump – automatic outflow regulation
- ▶ Dynamic hydro-extraction by compressed air
- ▶ Modular and multifaceted design
- ▶ Automatic control of the dyeing and bleaching cycle

INCORPORATED CIRCULATION PUMP

The helicoids circulation pump is the heart of the polyclave SRE. Developed on the FLUENT and NASA SP36 software, it offers a high number of cycles per minute. Working with intern pumps have many advantages, taking into account the deletion of the external pipes, as :

- ▶ Better homogeneous of the dye bath
- ▶ Perfect control of the ΔP
- ▶ Optimal power on board
- ▶ No dirtying of the pipes due to the high speed
- ▶ Preserve the quality of dyestuff
- ▶ No waste of calories because there is no radiator effect in the pipes

ADVANTAGES

- ▶ Easy use
- ▶ Respect for material, reliability of reproduction
- ▶ Short dyeing times
- ▶ The best production/investment ratio

