



RBNV-I 270

**AUTOMATIC LAB
DYEING MACHINE**



SMALL PRODUCTION LABORATORY/SAMPLING

AUTOMATIC HIGH PRESSURE AND HIGH TEMPERATURE VERTICAL MACHINE FOR DYEING AND BLEACHING FOR LABORATORY PURPOSE OR SMALL LOTS OF YARN.

RBNV-I 270 it is used for preliminary dyeing tests on **yarn packages, hanks, tops, loose stock fibers, small warp beams, narrow tapes and fabric beams** by using interchangeable spindle carriers.

The machine is pressurized at 5 bars and 140°C and might be considered as a fundamental "bridge" between actual laboratory machine and industrial production.

The machine is configured with electronic sensors, probes and pneumatic/automatic valves to perform all the functions of the dyeing cycle in a completely automatic way by means of the process controlling computer LEONARDO® PC, without the need of a continuous intervention by the operator.

The typical functions performed automatically are:

- Filling at variable programmable level
- Operator call
- Introduction of the products from the adding tank at controlled speed (dosing).
- Circulation with automatic programmed control of the differential pressure value, of the pump speed, or of the liquor flow-rate by means of a flow-rate device (optional).
- Programmed heating
- Operator call for sample
- Dye bath recirculation from machine to adding tank and from adding tank to machine (operation made only if programmed, because not needed due to the presence of the air pad system)
- Color correction cycle
- Indirect cooling
- Continuous rinsing by overflow
- Direct cooling
- Normal and high temperature discharge (to avoid oligomers with polyester)

