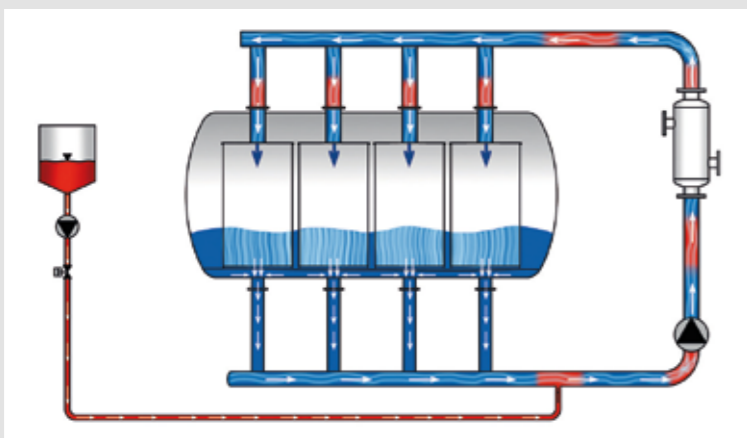
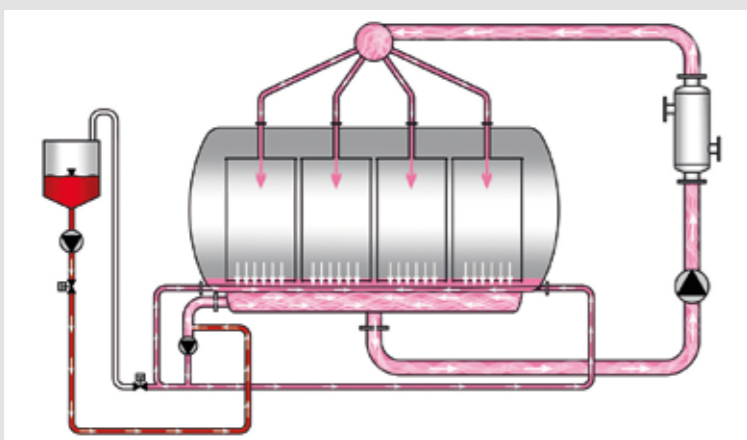


The transversal movement of the treatment bath (Brazzoli patent) substantially enhances and speeds up the achievement of a perfectly smooth treatment bath. This innovative flow permits to mix completely the bath every 30" hence mixing is 4 times as much the bath volume per lap, based on a hypothetical average rope turn of 2 minutes.

The ideal bath smoothness is achieved thanks to also two new devices that distribute and feed the bath to the nozzles as well as to a multi-intake system that develops throughout the entire width of the machine. The perfect intake of the bath so obtained, combined with the optimal bath distribution and the bath transversal mixing, ensures ideal working conditions.



Conventional flow



Innovative translational flow



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Ecologic Plus II - ENG - 10/2022

ecologic plus II



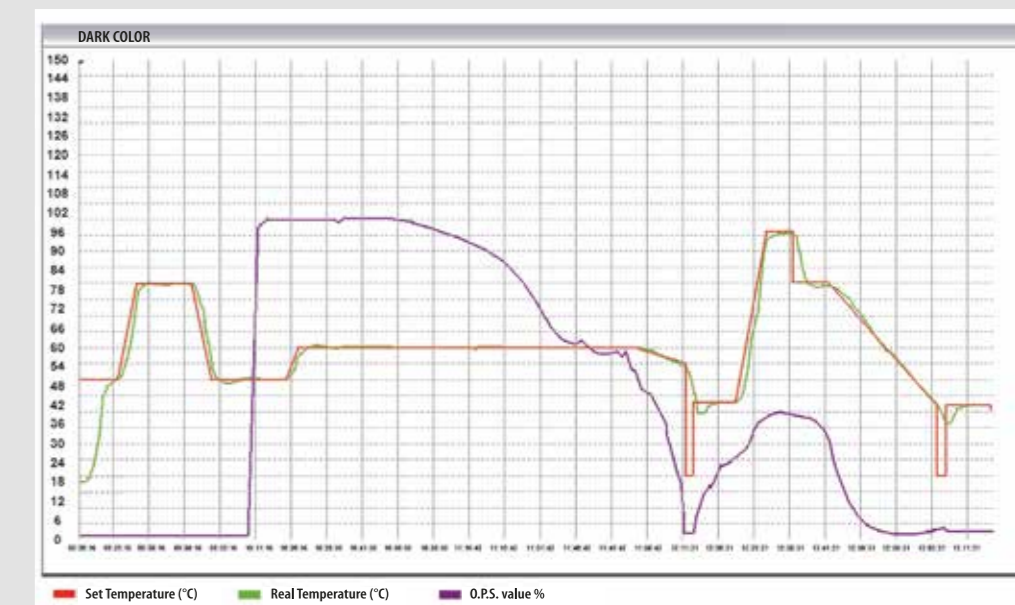
ecologic plus II

ANOTHER STEP FORWARD IN THE FUTURE

Ecologic Plus II is the machine for rope fabrics dyeing process designed and produced by Brazzoli. As evolution of the previous Ecologic, this new version controls and automatically operates all the machine parameters (lap time, bath ratio, fabric absorption, pump speed, reel speed) according to the processed fabric.

The innovations introduced in the new Ecologic Plus II optimize even more its total automation. The new O.P.S. (Optimized Performance System) replaces the traditional W.S.S. for a better control of dyeing re-circulation flow.

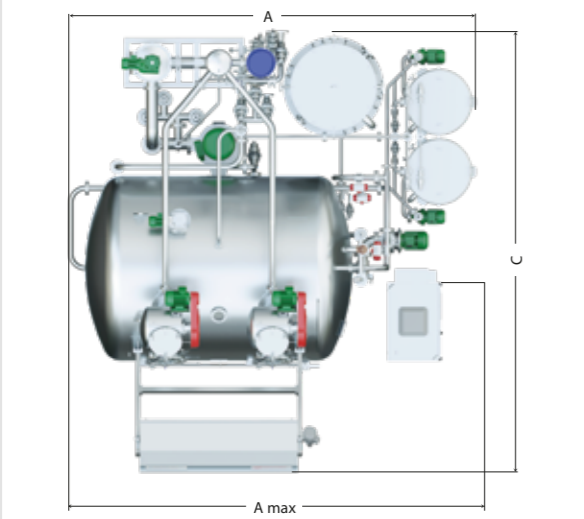
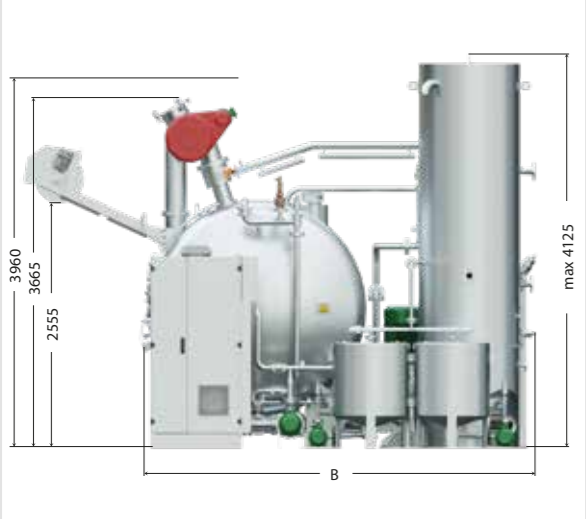
The control of the fabric movement has been improved to allow high working speeds without piling, crease marks and tensions. New technical solutions provide a higher mechanical reliability while maintenance procedures have been changed for optimizing productivity thanks to reduced machines down-times.



Basis knit cotton 100% - reactive process | Fabric absorption: 200%

	Light shades	Middle shades	Dark shades
Water (l/kg)	20/22	25/26	28/32
Steam (kg of steam/kg of fabric)	1.1	1.2	1.7
Energy (kW/kg)	0.11	0.12	0.13
Process time (H:min) (including loading and unloading)	4:20	4:40	5:00

Final liquor ratio: 1,8 liters + absorption



A= max length with electrical panel doors closed
Amax= max length with electrical panel doors opened
B= max width without unloading reel
C= max width with unloading reel

Models	Dimensions			
	A mm	Amax mm	B mm	C mm
ECL PLUS HT1XC1 (200Kg)	3630	4020	4150	5455
ECL PLUS HT2XC1 (400Kg)	4435	4935	4150	5455
ECL PLUS HT3XC1 (600Kg)	5360	5960	4150	5455
ECL PLUS HT4XC1 (800Kg)	6385	7030	4325	5615
ECL PLUS HT5XC1 (1000Kg)	7435	8080	4325	5615
ECL PLUS HT6XC1 (1200Kg)	8575	9190	4635	5925

Models	Dimensions			
	A mm	Amax mm	B mm	C mm
ECL PLUS HT1XC3 (300Kg)	3805	4520	4150	5455
ECL PLUS HT2XC3 (600Kg)	5015	5940	4150	5455
ECL PLUS HT3XC3 (900Kg)	6380	7045	4325	5615
ECL PLUS HT4XC3 (1200Kg)	7775	8420	4325	5615
ECL PLUS HT5XC3 (1500Kg)	9300	9915	4325	5615
ECL PLUS HT6XC3 (1800Kg)	10720	11210	4960	6250

Models	Dimensions			
	A mm	Amax mm	B mm	C mm
ECL PLUS HT1XC2 (250Kg)	3800	4190	4150	5455
ECL PLUS HT2XC2 (500Kg)	4960	5445	4150	5455
ECL PLUS HT3XC2 (750Kg)	6170	6710	4325	5615
ECL PLUS HT4XC2 (1000Kg)	7410	8055	4325	5615
ECL PLUS HT5XC2 (1250Kg)	8800	9415	4635	5925
ECL PLUS HT6XC2 (1500Kg)	10100	10715	4635	5925

Models	Dimensions			
	A mm	Amax mm	B mm	C mm
ECL PLUS HT1XC4 (400Kg)	4500	5000	5500	5700
ECL PLUS HT2XC4 (800Kg)	6390	6875	4325	5875
ECL PLUS HT3XC4 (1200Kg)	8000	8500	5700	7000
ECL PLUS HT4XC4 (1600Kg)	9500	10000	6100	7500
ECL PLUS HT5XC4 (2000Kg)	11500	12000	6100	7500

The indicated loading capacity refers to knitwear 100% cotton with a weight of 250 g/ml for model XC 1 and XC 2 and with a weight of 300 g/ml for model XC 3 and XC 4. The right to make design changes is reserved; the quoted dimensions are non-binding.

» Inner Reel

Thanks to the new design, inner reel has a high durability and it's not affected by the tensions that the fabric can create.

» Plaiter

The special Brazzoli plaiter, thanks to its movement, fills 100% of the basket and positions the fabric evenly, resulting in optimum utilization of the production capacity and the possibility of working in double ropes, avoiding knot problems.



» Magnetic Fabric Entanglement Sensing

New fabric entanglement sensing system has eliminated the deformation in springs. Due to this magnetic system is completely located inside the tower, it has minimized the cost of maintenance and repair.

» Variable Turbovarior Nozzle

The jet flow, that strikes the fabric to 360°, can be adjusted by means of the variable Turbovarior nozzle. The mechanical movement inside allows the variation of the flow pressure in real time and allows it to adapt to the different types of fabric processed. This procedure is set into the processing recipe and is automatically adjusted by means of a servomotor. Available diameters: 110 - 140 - 168 mm and special version for terry towel 273 mm. New design with direct motor drive for the movement of the nozzle. Therefore, dripping and leakage problems are completely eliminated.

Perfection in dyeing comes from details

» Innowash

The new position of O.P.S. sensor has given perfect stability at the signal without turbulences or foams. The measurement of the turbidity of the bath is continuous, without interruptions.

» Conductivity Measurement Device

The conductivity device shows the concentration of sodium carbonate or sodium sulphate ions in the dye bath and reflects that on the screen for the operator. For this reason, there is no need to measure with hydrometer after every dye bath, which saves time.

» Filter for Recirculation Pump

The new filter inserted in the pipeline allows a quick and simple cleaning of the re-circulation pump reducing machines down-time.

» Preparation Tank

Ecologic Plus II is designed to work with or without the preparation tank, maintaining with both technical solutions, the highest dyeing quality and the shortest dyeing times.

HOW IT WORKS



Twin Technology

To increase productivity, all the range of machinery by Brazzoli can work at "double (multiple) ropes" in the same dyeing chamber with medium, light and very light (such as body-size) fabrics without entanglements, tensions and knots. This technology permits keeping the optimal load and the minimum bath ratio as well as the consequent control of production costs.

Multiflex

A coupling innovative system that permits the exponential increase of production flexibility allowing to keep high loading capacity and, as consequence, maintaining the energetic consumption per kg of fabric at an optimum level.



Twin Split

Equipment for dividing the fabrics after treatment in double (multiple) rope.



Operation panel

All the dyeing process are automatically controlled by means of an external touch screen. The advanced software available for the Ecologic Plus II operation panel are: SETEX, SEDO, EAS, ELIAR, AREL.

