



ecologic plus II



BRAZZOLI®
THE DYEING MACHINES MANUFACTURER



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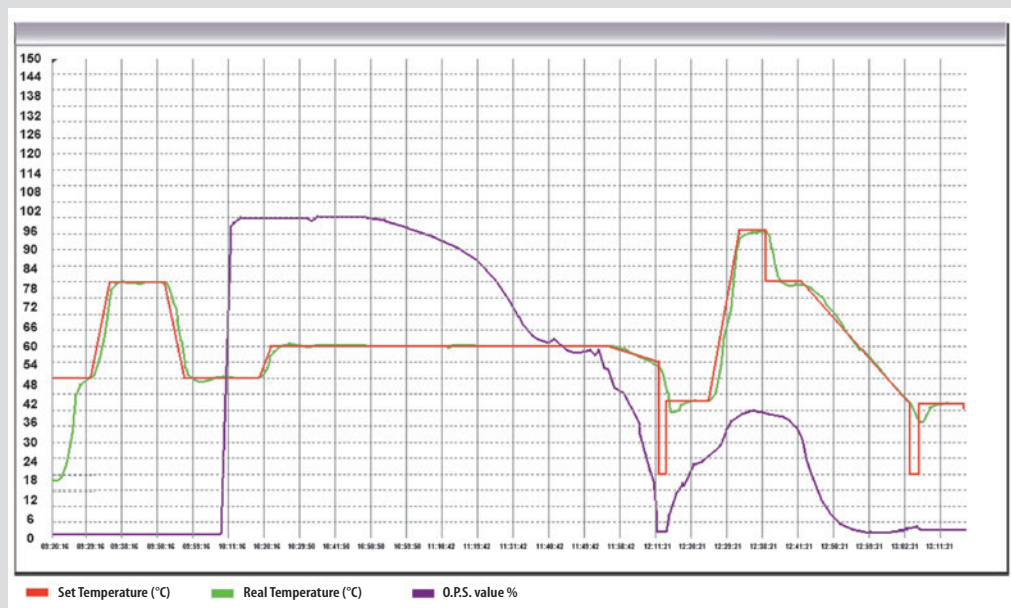
ecologic plus II

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)	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

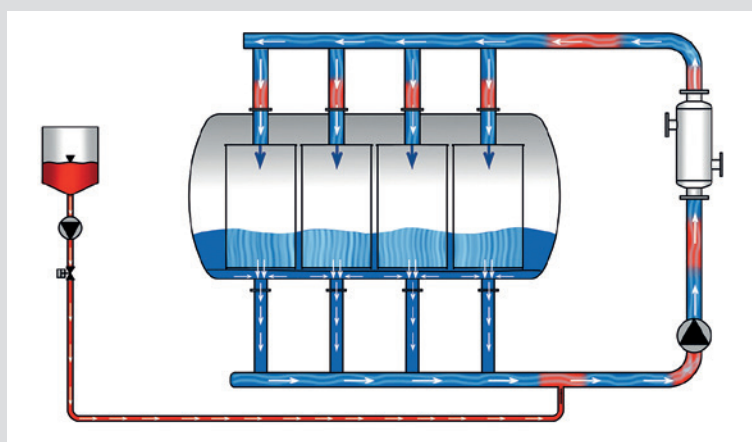


The transversal movement of the treatment bath (Brazzoli patent) substantially enhances and speeds up the achievement of a perfectly smooth treatment bath.

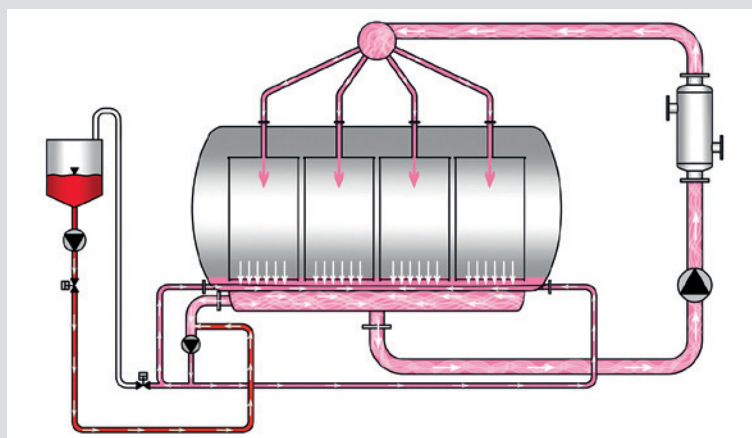
This innovative flow permits to mix completely the bath every 30" hence mixing is 4 times as much the bath volume per lap, based on a hypothetical average rope turn of 2 minutes. The ideal bath smoothness is achieved thanks

to also two new devices that distribute and feed the bath to the nozzles (patent pending) as well as to a multi-intake system that develops throughout the entire width of the machine.

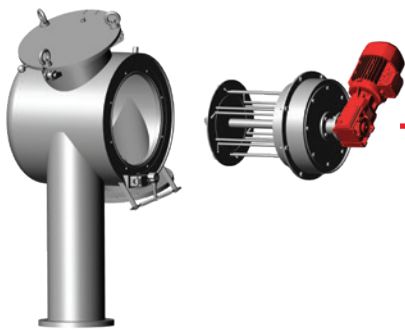
The perfect intake of the bath so obtained, combined with the optimal bath distribution and the bath transversal mixing, ensures ideal working conditions.



Conventional flow



Innovative translational flow



» MTS

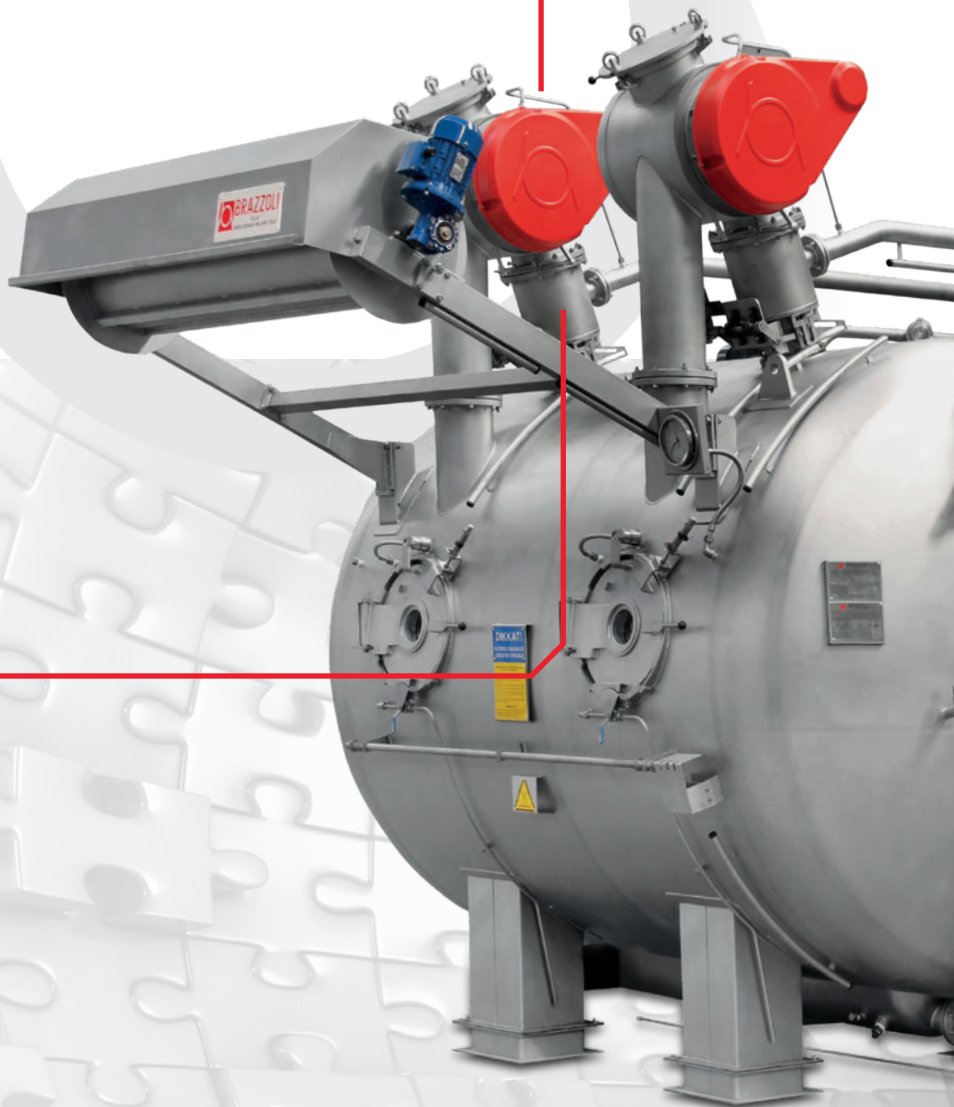
The new magnetic reel (MTS – Magnetic Tower System – new Brazzoli patent) is revolutionary innovation developed for the standard dyeing operations and process of fabrics in rope form. Also this new improvement allows the quick replacement of the rubber stripes without disassembling the whole reel group.



» 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.

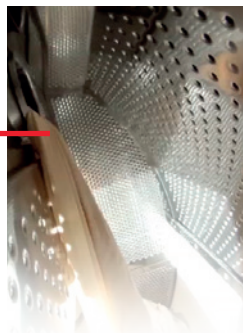
Available diameters: 110–140–168 mm and special version for terry towel 273 mm.



» Flange for the recirculation pump cleaning

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





» 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.

Builder of a coloured world



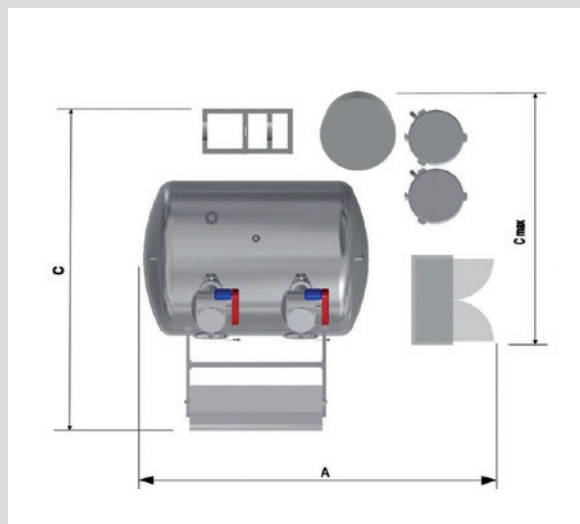
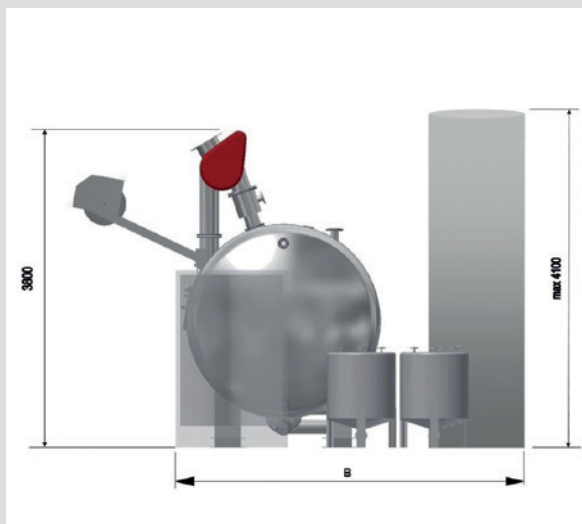
» Innowash

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.



» 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.



Models	Dimensions			
	A mm	B mm	C mm	C max mm
EC L HT 1 XC 1 (200 kg)	3950	4000	5300	5350
EC L HT 2 XC 1 (400 kg)	4850	4100	5350	5350
EC L HT 3 XC 1 (600 kg)	5900	4100	5400	5450
EC L HT 4 XC 1 (800 kg)	6950	4200	5450	5500
EC L HT 5 XC 1 (1000 kg)	7950	4250	5550	5550
EC L HT 6 XC 1 (1200 kg)	9100	4400	5700	5700

Models	Dimensions			
	A mm	B mm	C mm	C max mm
EC L HT 1 XC 2 (250 kg)	3950	4000	5300	5350
EC L HT 2 XC 2 (500 kg)	5250	4100	5400	5450
EC L HT 3 XC 2 (750 kg)	6550	4200	5500	5500
EC L HT 4 XC 2 (1000 kg)	7950	4250	5550	5550
EC L HT 5 XC 2 (1250 kg)	9300	4400	5700	5700
EC L HT 6 XC 2 (1500 kg)	10550	4400	5700	5700

Models	Dimensions			
	A mm	B mm	C mm	C max mm
EC L HT 1 XC 3 (300 kg)	3950	4000	5300	5350
EC L HT 2 XC 3 (600 kg)	5450	4100	5400	5450
EC L HT 3 XC 3 (900 kg)	6850	4200	5500	5500
EC L HT 4 XC 3 (1200 kg)	8350	4250	5550	5550
EC L HT 5 XC 3 (1500 kg)	9800	4400	5700	5700
EC L HT 6 XC 3 (1800 kg)	11100	4400	5700	6000

Models	Dimensions			
	A mm	B mm	C mm	C max mm
EC L HT 1 XC 4 (400 kg)	4350	4000	5300	5350
EC L HT 2 XC 4 (800 kg)	6150	4000	5300	5500
EC L HT 3 XC 4 (1200 kg)	8200	4000	5300	5700
EC L HT 4 XC 4 (1600 kg)	9750	4600	5500	5700
EC L HT 6 XC 4 (2400 kg)	14200	4600	5500	6250

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.



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 allows combining up to 3 machines with a different load capacity (i.e. HT 1 + HT 3 + HT 2).

This breakthrough system 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.



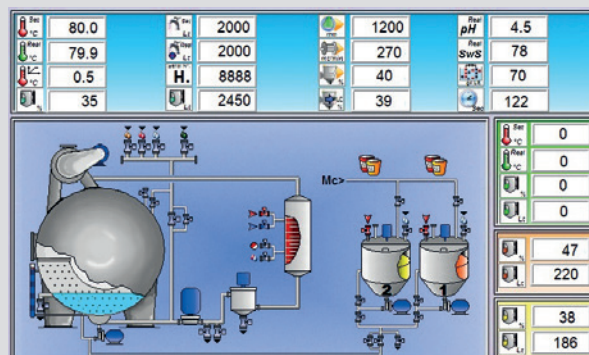
Twin Split

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.





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