

ColorYarn

With New
European
Technology.

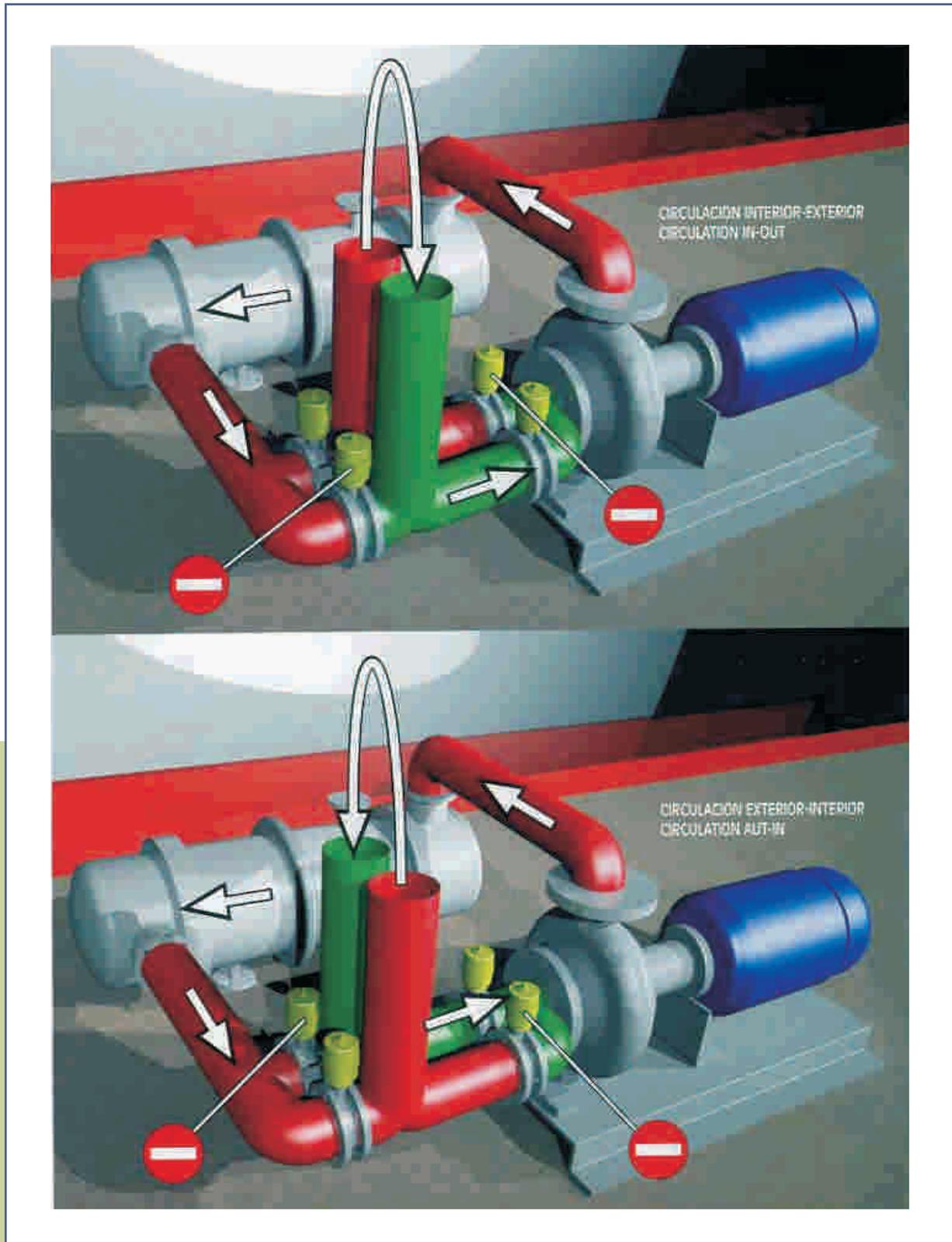


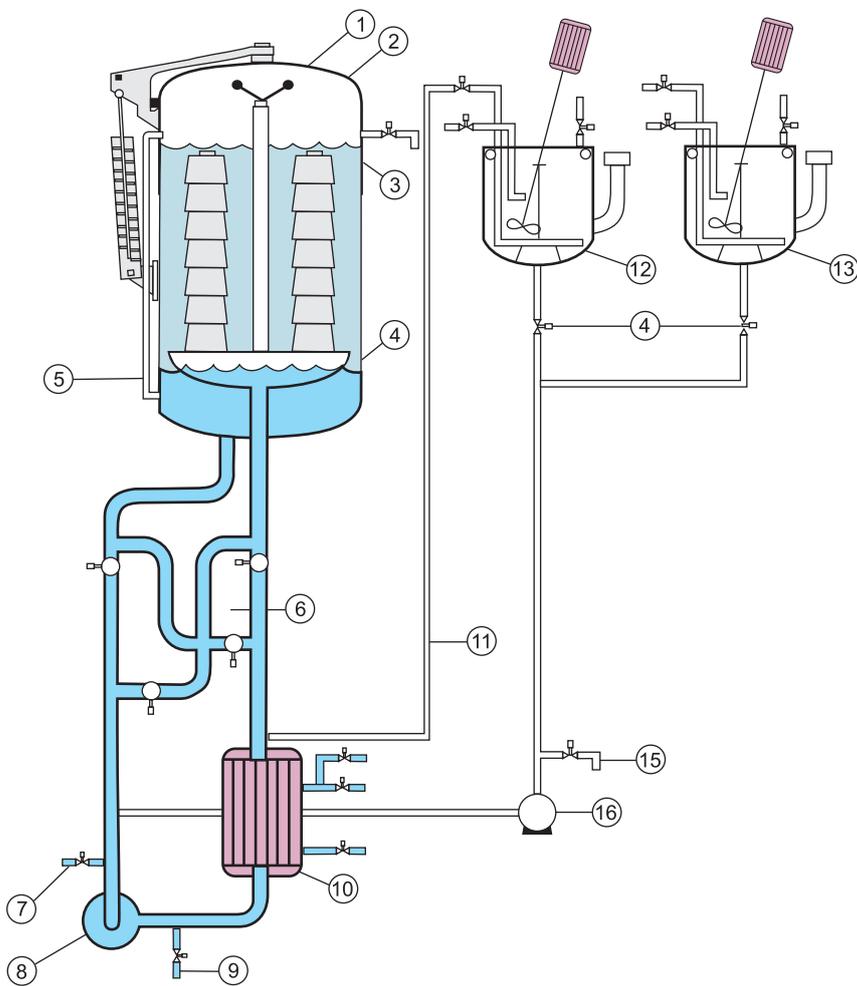
An ISO 9001:2000 Company

EXOLLOYS
ENGINEERING PVT. LTD.

COMPARATIVE DYEING PROCESS BETWEEN A STANDARD MACHINE AND ONE COLOR-YARN CCI + RAPID SYSTEM

100% CO, dyeing process with reactive dyestuffs (80°C) medium shade.





Specific data from the sketch:

- 1) Autoclave.
- 2) Air pad.
- 3) High level of bath 1:8.
- 4) Low level of bath 1:4
- 5) Magnetic level program mated.
- 6) System 4V (4 valves) to circulate In-out. out-in
- 7) Draining valve.
- 8) Circulation pump of high rendement with frequency inverter.
- 9) Filing valves (2).
- 10) Multitubular (exterior) heat exchanger.
- 11) Return of the bath to the tank T-1 of CCL
- 12) Tank T-1 from CCI SYSTEM with the following elements inlet water. / Mixer. / Filter. / Automatic system of dissolution-introduction of the salt.
- 13) Tank T-2 from CCI SYSTEM with me following. elements :Inlet water. / Inlet direct steam. / Mixer. / Filter. / Automatic system of dissolution-introduction of the salt.
- 14) Transference valves from the CCI SYSTEM tanks to the autoclave.
- 15) Draining valve of the CCI SYSTEM tanks.
- 16) Introduction pump from the tanks of the CCI SYSTEM to the Autoclave.



ColorYarn

ColorYarn 4V, is a new generation machine, for dyeing yarns in cones/bobbins, tops, cable and loose stack with an optimum performance.

Exolloys, with latest technology, is introducing a new model , **ColorYarn 4V**, to the market for best possible results. Circulation of bath is a new concept, where the circulation In-Out and Out-In is achieved by means of a High Performance Unique system called '**4V**'.

Thanks to this new system, there is practically no loss of head in the flow of the bath through the pump. The bath flows directly from the pump to the autoclave without any leakages or obstructions. This helps to improve the circulation by about 30%.

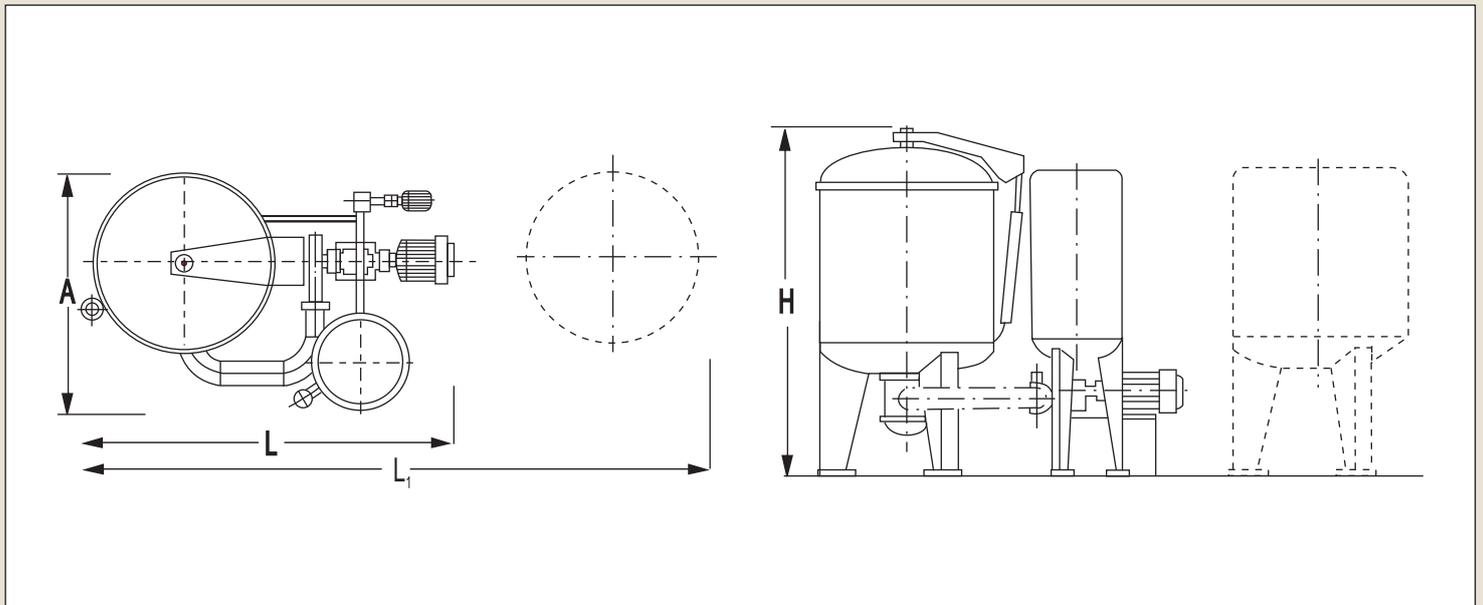
The purpose is to achieve higher flow circulation in the packages for better performance and reduction of dyeing process. This also means that it is possible to reduce the Installed power by 30% against the conventional machine. However, the aim is to get better performance over conventional machine. The Power saving can be done through the frequency convertor and performance can be enhanced with 4V System.

It means that this will result in lower cost of dyeing.

The machine is also equipped with 'RAPID SYSTEM' . This system consists of filling and draining by means of pump. Besides, it also has a new feature called 'RAPID RINSING' . In this process, the machine fills in with clean water at low pressure and the machine is draining the dirty water simultaneously, without recirculation of the bath through the pump. This saves the cost as well as the process time.

The machine is integrated with dye kitchen (addition tank) to prepare and add (transfer) the dyestuff and chemical products into the kier eliminating the necessity of dye kitchen. The tank is equipped with a system to dissolve and add the salt and chemicals.

It is imperative that with the machine '**ColorYarn**' 4V, we get, besides Optimal Dyeing, a great saving of Costs. Thanks to the reduction in process time and the electrical consumption.



COLORYARN 4V

Type	Pump power HP	Carga aprox kgs. / Load			Pressed loose stock Density 380 gr./l.	A	L	L'	H
		Cones 5"/6" Density 350 gr./l.	Compressable bobbins 1750 gr. Density 350 gr./l.	Tops 10 kg. Density 315 gr./l.					
4V - 550	10	50	50	60	100	1100	2000	2600	3000
4V - 850	20	100	100	60	200	1600	2300	3200	3150
4V - 1025	25	150	150	240	350	1800	2900	3950	3300
4V - 1220	40	250	300	300	500	1950	3200	4450	3400
4V - 1320	40	300	380	360	600	2100	3350	4750	3400
4V - 1450	60	-	400	420	750	2400	3750	5250	3600
4V - 1450	75	-	500	-	-	-	-	-	-
4V - 1650	60	400	-	480	-	2500	3850	5300	3800
4V - 1650	75	470	-	-	-	-	-	-	-
4V - 1650	100	-	600	-	1000	-	-	-	-
4V - 2000	100	650	-	-	-	3100	5000	7000	4000
4V - 2000	125	-	800	900	1500	-	-	-	-
4V - 1650 DP	125	600	1000	640	-	2500	3850	5300	5550
4V - 2000 DP	150	1000	1400	1200	-	3100	5000	7000	5800



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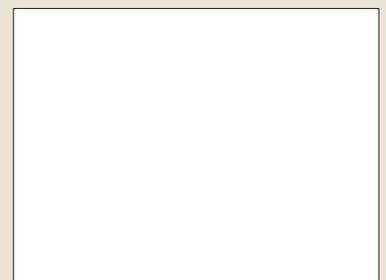
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Represented By:



Subject to design modification as a result of technical progress.