



Way of dyeing



Athena4A

Fabric Dyeing Machine

Athena4A

Athena4A is the top of the highly successful and well-established series of Athena fabric dyeing machine concept.

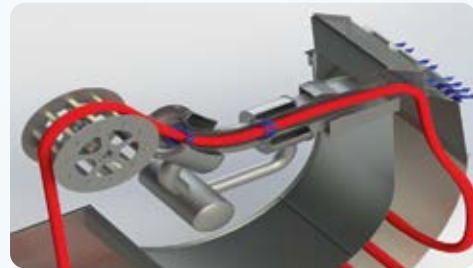
Athena4A incorporates new systems for meeting strict requirements of modern fabrics quality as well as for reducing considerably water and energy consumptions.

Main Features of Athena4A.

- **Double Soft Floating system with Open Plaiting device (DSF).**

DSF is a Sclavos patented fabric dyeing and transporting system, operating under very gentle conditions due to the unique action of two low pressure nozzles.

DSF is accompanied by an Open Plaiting device, equipped with the liquor by pass system, ensuring ideal fabric's storage for tangle free operation even of very light and delicate fabrics.



- **Flow Balancing Device (FBD).**

FBD is a new development of Sclavos which eliminates any interference on machine's operation caused by supply's fluctuations of factory's utilities networks.

As a result, machine's efficiency is considerably increased.

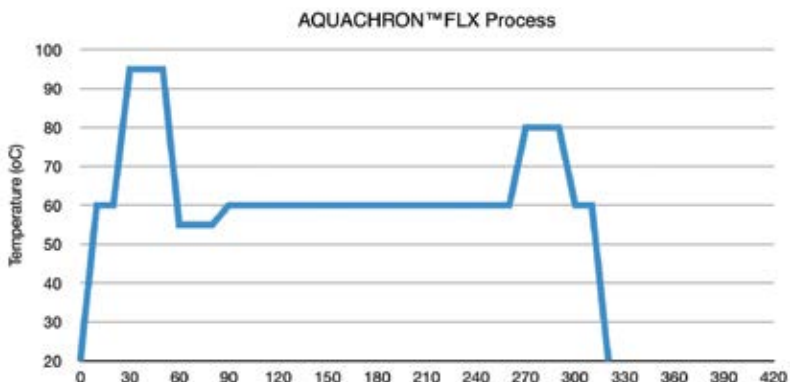


- **Aquachron FLX, nonstop washing system.**

Aquachron FLX is the new generation of Sclavos patented nonstop fabric's washing system.

Aquachron FLX performs a continuous washing process after pretreatment and after dyeing without interrupting the smooth and efficient removal of the unfixed dyestuff and contaminant chemicals as it happens in drain and fill process.

New Aquachron FLX offers a further reduction of water and energy consumptions by 15% in combination with a very gentle treatment of the fabric.



- **Lowest Installed Power**

Sclavos technology achieves the lowest installed operational power i.e. motors under continuous operation, ensuring up to 30% less electric energy consumption.

Operational Power Ratio: 26 -31 Watt/Kg of fabric



- **Nozzle Flow Monitoring (NFM)**

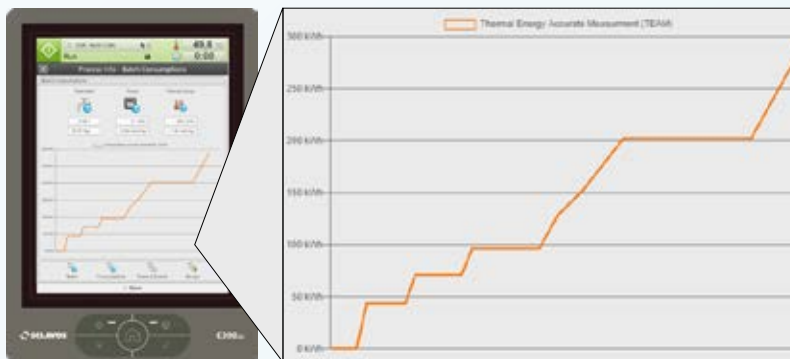
Nozzle Flow Monitoring (NFM) monitors in real time flow and pressure in the nozzles, signaling if any irregularities appear during the process. As a result a very critical factor affecting quality is fully controlled.



- **Real time Thermal Energy accurate measurement (TEAM)**

Sophisticated software with smart sensors measuring in real time consumed thermal energy during the process.

This is a much more accurate figure than steam consumption.

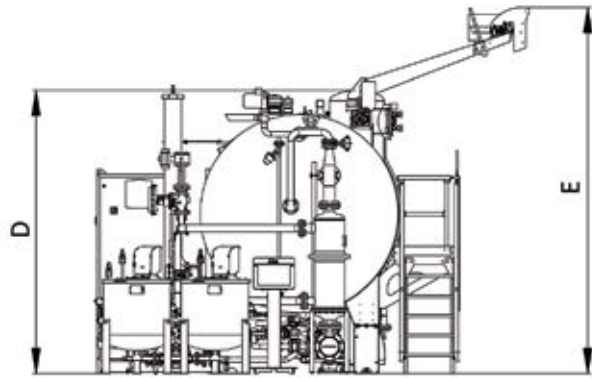
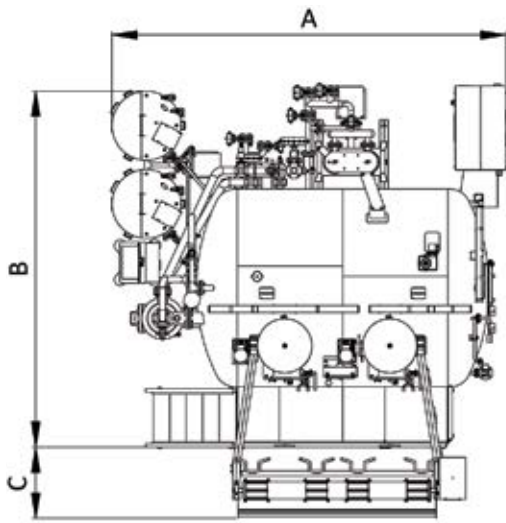


- **Advanced Automation.**

Athena4A is equipped with new generation controllers, which control advanced machine's auto adjustment and automation systems.

New controllers could be incorporated in factory's integrated logistics system, ensuring full operation under **Industry 4.0** requirements. Accurate figures of Water, Electrical Energy and Thermal Energy consumptions are recorded.





Machine SIZE	Fabric Capacity (Kgs)	DIMENSIONS (mm)				
		A	B	C	D	E
Athena4A 150H	150	3450	4310	930	3450	4230
Athena4A 250H	250	3550	4310	860	3450	4300
Athena4A 500H	500	4750	4350	860	3450	4350
Athena4A 750H	750	5950	4680	860	3450	4350
Athena4A 1000H	1000	7400	4800	830	3600	4500
Athena4A 1250H	1250	8850	5250	830	3600	4500
Athena4A 1500H	1500	10150	5520	830	3600	4500

Machine SIZE	Fabric Capacity (Kgs)	DIMENSIONS (mm)				
		A	B	C	D	E
Athena4A 300H/1	300	3850	4310	860	3450	4300
Athena4A 600H/2	600	5250	4350	860	3450	4350
Athena4A 900H/3	900	6850	4890	860	3450	4350
Athena4A 1200H/4	1200	8500	4910	830	3600	4500
Athena4A 1500H/5	1500	10100	5520	830	3600	4500
Athena4A 1800H/6	1800	12150	5520	830	3600	4500

*Above dimensions may slightly change according to final machine's specifications.

www.sclavos.eu

HEADQUARTERS

5, AGHIOU PANTELEIMONOS ST., GR 12241 EGALEO, ATHENS, GREECE

FACTORY - SERVICE CENTER

THESI KORMATZINI, GR 32009 SCHIMATARI, VIOTIA, GREECE

TEL.: +30 226 20 59788