



CDD
POWDER DYESTUFF AUTOMATION SYSTEM

The single address for all automation
needs of the textile industry.

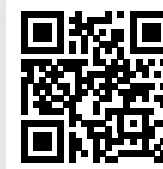
Control Your Factory.

ELIAR FULL AUTOMATIC
CHEMICAL KITCHEN



ELIAR RD96

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MINERAL KITCHEN



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ELIAR DYEHOUSE
SUPERVISORY SOFTWARE

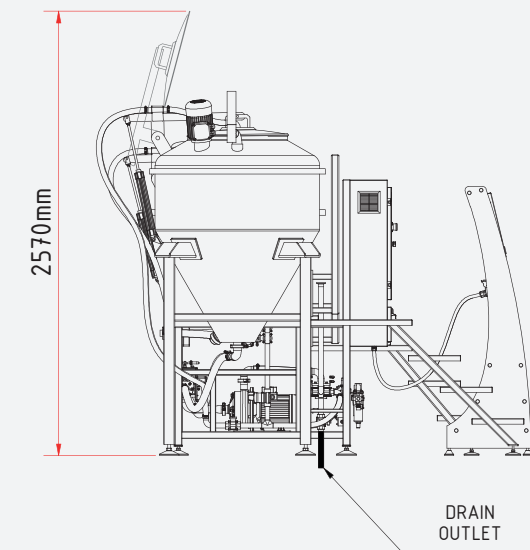
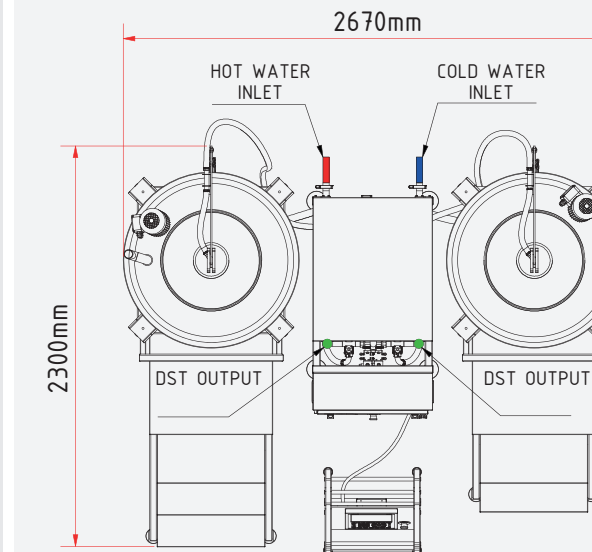
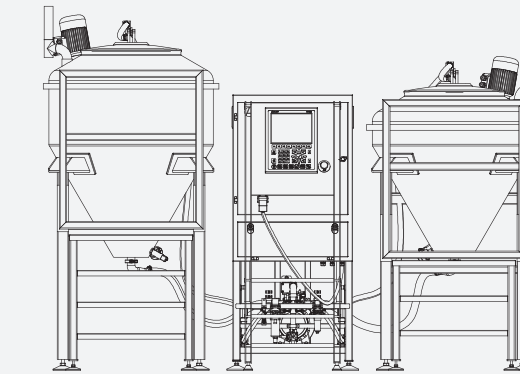


ELIAR TELESKOP

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Technical Specifications

Dissolving Tank Capacity	: 200 Liters - 350 Liters - 500 Liters
Transfer Type	: Multi-Line transfer
Pump Type	: Centrifugal pump for water, Centrifugal pump for dyestuff solution transfer
Pump Capacity	: 120 liters / minute
Operation Time	: 10 - 25 minute
Daily Dissolving Capacity	: 40-50 dissolving/day per each CDD
Dissolving Type	: Mixing with stirrer



CDD is developed by Eliar in order to eliminate the powder dyestuff dissolving and transfer problems of dyehouses in the most accurate way. As one of the leading automation companies in the world, Eliar, with its wide range of automation products for the textile industry, eliminates the powder dyestuff dissolving and transfer problems of dyehouses.

SMART LEARNING & ZERO RISK

Manual operations in dyestuff dissolving and transfer are very difficult and risky. Non-homogeneous dissolving operation and incorrect timing of dyestuff transfer, even can cause you to lose the entire batch.

Eliar CDD aims to eliminate all these problems and provide trouble-free dyeing processes with its smart learning technology and multi-line robotic distribution principle.

HIGH CAPACITY & RELIABLE PROCESS

CDD ensures that dyestuff recipes are being automatically dissolved and transferred to dyeing machines just in time. Dyestuffs been weighed by operator guided systems are carried to CDD. Thanks to the information included in the batch number, CDD automatically adjusts the dissolving parameters (temperature, bath ratio, mixing time, etc.) depending on the dyestuff type and amount. With the ability of CDD multi-line dispensing system, the entire dyestuff preparation process (dissolving, mixing and transfer to the machines) is controlled from a single and central system. In this way, the differences that may occur between the parties are completely eliminated.

MODULAR DESIGN

CDD has been designed and manufactured in a modular way to fully meet your needs in your dyehouse. CDD, which has a dissolving system in 3 different capacities, 200 liters, 350 liters and 500 liters, can be expanded in modules and can serve you for your increasing dyestuff dissolving and transfer needs in future.

- 200 Liters & 350 Liters & 500 Liters DISSOLVING SYSTEM
- INCREASABLE CAPACITY ACCORDING TO YOUR NEEDS

SMART DISSOLVING SCENARIOS

CDD offers a unique solution for dyestuff dissolving processes with its smart learning technology. Different dissolving parameters are transferred to the system for each dyestuff type. Thanks to this feature, operators do not need to manually select the dissolving parameters and by this way all possible solving errors are eliminated.

- AUTOMATIC DISSOLVING SCENARIOS
- REPEATABILITY

CONTINUOUSLY READY FOR OPERATION

When the recipe is weighed and the dyestuff is brought to CDD by the operator, thanks to the external water heating system, the water to be required for dissolving is always kept at the desired temperature. According to the dissolving parameter to be used in the relevant process, the temperature of the water to be taken into the dissolving tank is controlled by the internal temperature sensor, thus ensuring the optimum dissolving temperature.

- EXTERNAL WATER HEATING SYSTEM
- TEMPERATURE CONTROL ACCORDING TO THE DISSOLVING PARAMETER

CLEAN DISSOLVING PROCESS, HIGH-QUALITY MATERIALS

After CDD has successfully dissolved and transferred each recipe, it automatically cleans itself and gets ready for the next recipe. Thanks to its smooth SS316L inner surface, surface tension is minimized and the dyestuff remaining in the dissolving system is easily cleaned with the special hot water spray/washing system. The loss of even individual dyestuff particles affects the final product color quality and reproducibility. As so, CDD also sends the cleaning water to the dyeing machine in order to ensure the complete transfer of the dyestuff that had been weighed and dissolved properly.

- SMOOTH SS316L SURFACE
- TRANSFER OF THE DYESTUFF UP TO THE LAST PARTICLE

READY FOR FUTURE

CDD is 100% compatible with the Industry 4.0 concept and is ready for possible future enhancements to software applications in your dyehouse. It is integrated into Eliar dyehouse supervisory software to automatically generate reports on actual consumptions, process monitoring and control data.

- INDUSTRY 4.0
- EMBEDDED ELIAR SOFTWARE

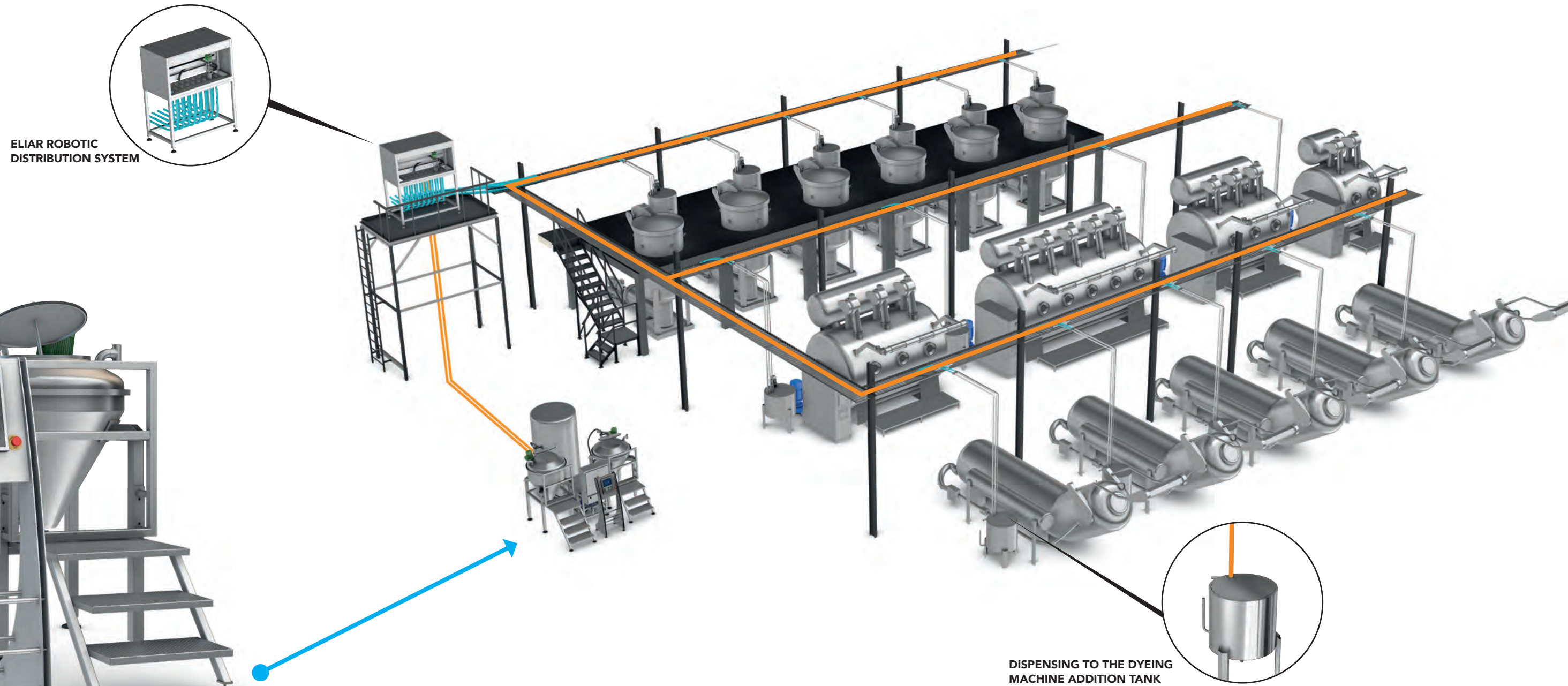
DISTRIBUTION OPTIONS

CDD is integrated with its dedicated multi-line distributors. There are two distribution unit options with 15 and/or 22 outputs. With the option to use an additional distribution unit, CDD meets the dyestuff distribution needs of 44 dyeing machines. ELIAR, with its multi-line robotic dispensing technology and just-in-time dispensing discipline, guarantees to distribute the right dyestuff, to the right machine, at the right time without any risk of color mixing.

- MULTI-LINE DISTRIBUTION
- THE RIGHT AMOUNT & THE RIGHT TIMING

PERFECT PROJECTS WITH EXPERT ESTABLISHMENT IN THE TEXTILE INDUSTRY

Aligned with its vision for the future, with the awareness that the only way to progress is the triangle of qualified knowledge, qualified workforce and optimum cost, Eliar, thanks to its wide engineer staff specialized in their fields and the R&D center that directs technology, shares its deep application experience with you from the projects it has carried out in different parts of the world. During the selection and projecting of the most suitable powder dyestuff automation system, Eliar also cooperates you in every aspects of your automation project and with its technical team specialized in textile automation systems, takes the responsibility of all design, project and engineering works, installation stages and commissioning processes from the production of your project until the delivery stage and always offers you turn-key automation projects.



The dyestuff recipe, which is dissolved in CDD, is transferred to the Eliar multi-line robotic dispensing system. With this robot, the system is connected simultaneously to the single line going to that particular dyeing machine to which the recipe will be transferred, and thus dyestuff transfer is ensured without the risk of mixing or any contamination.

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