

AUTOMATED LECITHIN DOSING INCL. CIP

AUTOMATED LECITHIN DOSING UNIT TECHNOLOGY

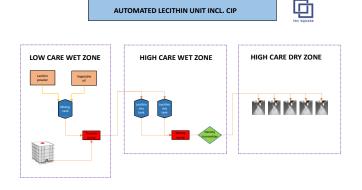
TEC Square has designed a fully automated lecithin dosing unit that can be integrated in an existing spray dryer and CIP plant.

The principle of operation

- Ready-made lecithin mix in an IBC or other container in the "low care wet zone" is pumped to the mix storage tanks situated in the "high care wet zone".
- If needed a mixing tank can be provided in the "low care wet zone", where lecithin powder and vegetable oil can be mixed before transfer.
- ♦ In the mix storage tanks the mix can be pasteurized and cooled down to the dosing temperature before adding eventual minor ingredients manually.
- Mix is pumped via a mass flow meter to the spray nozzles situated in the "high care dry zone"

<u>AUTOMATED LECHITHIN DOSING UNIT — KEY POINTS</u>

- The operation is fully automated and can be integrated in the central control system.
- Cleaning is done automatically



SPECIFICATIONS AND ADVANTAGES

	TEC Square Automated Lecithin Dosing Unit	Advantages
Location	 The unit is split into 3 parts in 3 different hygiene zones 	It comply to GMP, FDA, FSCC 22000 and other hygiene standards.
Pasteurization	The final mix can be legal pasteurized to client requirements in the mix storage tank.	 It comply to GMP, FDA, FSCC 22000 and other hygiene standards Avoid bacteriologic cross contamination
Automated CIP	 The transfer line to the storage tanks and the storage tanks can be CIP from the central CIP plant The dosing line to the spray nozzles will be a part of the drier CIP sequence. 	No need of any manual cleaning and operation required
Flexibility	 The transfer line to the mix storage tanks can be CIP together with 1 storage tank while the other tank is still in production. The dosing line can be CIP together with the drier while mix is being transfer to the storage tanks. 	Unit can operate 24/7
Automation	 The unit will be delivered with a control panel in the "wet high care zone" which will be communicating with the central PLC. The unit is delivered with an accurate mass flow meter. 	 No people require in the "dry high care zone" Consumption of lecithin can be controlled accurately Total consumption can be send to the ERP system

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