



AROMA RECOVERY

AROMA RECOVERY TECHNOLOGY

TEC Square has developed a cost effective, unique and simple aroma recovery process that is capable of delivering the right aroma to the end-product.

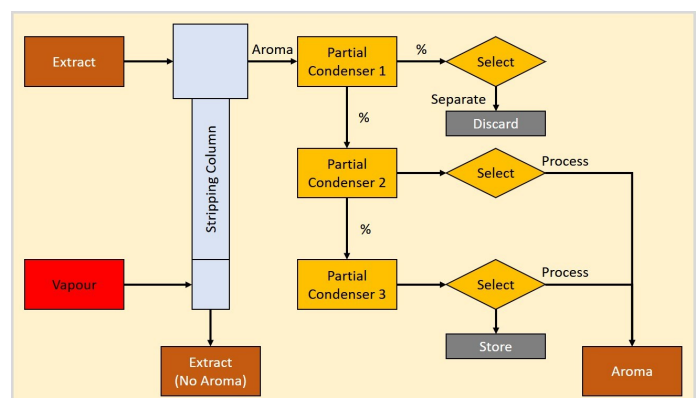
Our system is characterized by the following:

- ◆ Simple design, gravity is our main driving force.
- ◆ Counter-current stripping operation.
- ◆ Partial condensing technology, ideal for high quality applications.
- ◆ Hardly any moving parts, only pumps.
- ◆ Self-draining system, no product hold-up.
- ◆ Integrated in-line CIP. Vapor bodies fully flooded.

Our aroma recovery system provides a simple cost-effective alternative and is ideal for high quality products, as we are able to separate aromas to suit customer demands.

TEC SQUARE AROMA RECOVERY PLANT

Our Aroma recovery is based on a stacked column design, requiring a minimal footprint, normally less than 3m x 6m. As we work mainly with gravity, our installation requires a building height of minimum 7m.



Schematic installation of a TEC Square AR System

SPECIFICATIONS AND ADVANTAGES

	TEC Square Aroma Recovery Technology	Advantages
Aroma Separation Principle	Multi-stage stripping column. Number of stages depends on the application. TEC Square offers a less expensive variation as well, based on flash technology.	<ul style="list-style-type: none"> ◆ No moving parts. ◆ Robust operation. ◆ Flexible in design, system can be extended in the future. ◆ Cost effective technology.
Condensing Principle	TEC Square partial condensing column. Number of stages depends on the application.	Accurate control over condensed fractions. Very stable control Multiple fractions are possible
Aroma Recovery	Aromas are first separated from each other and can later be combined in a separate operation based on the desired end product aroma.	Very flexible set-up. Ideal for multiple SKU processing.
CIP	Fully wetted CIP. Fully automatic CIP is possible.	All parts in contact with product or aroma can be cleaned. Fully automatic CIP allows for integration in a complete system.
Automation	Fully automatic control is possible <ul style="list-style-type: none"> ◆ Recipe management. ◆ Data trending. 	The system normally does not require any intervention.
Operation principle	The system can be operated in <ul style="list-style-type: none"> ◆ Manual mode. ◆ Automatic mode. 	Depending on the budget an operational mode can be chosen
Energy efficiency	The system is very energy efficient and a high degree of energy recuperation is possible.	Low energy requirement due to energy recuperation possibilities.

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