

## RFM: Sweetener Decolorant

- **RFM** is a high-capacity wood-based activated carbon designed for superior decolorization, treatment and filtration of starch-derived sweeteners such as glucose and HFCS.

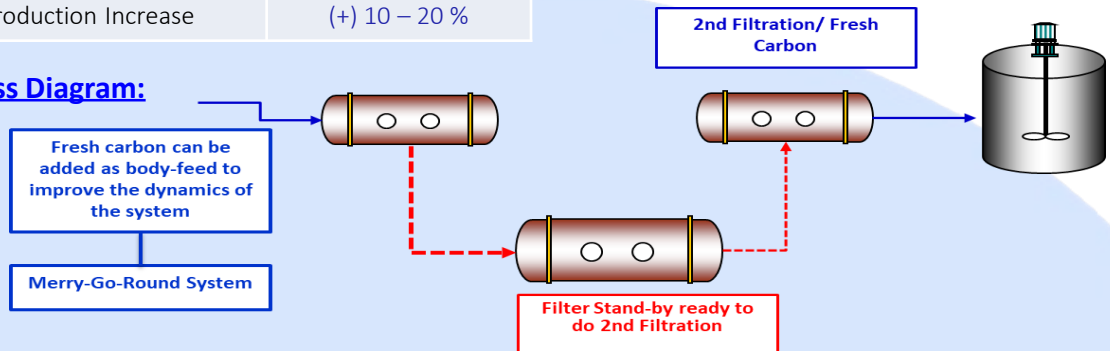
### Functionality:

- ✓ Used in body-feed or as a precoat placed on top of the filters as purification media.
- ✓ Excellent decolorization combined with little pH modifications.
- ✓ Enable longer filtration cycles.
- ✓ High flexibility and reduced operating costs.
- ✓ Filter's washing water savings.
- ✓ Easy operations and less waste generation.
- ✓ Extend resins cycles.
- ✓ Minimal calcium content.

### Projected Benefits:

Parameter	Effect
Color Removal	(+) 20 - 30 %
Carbon Consumption	(-) 30 - 40 %
Filter Cycle Duration	(+) 30 - 50 %
Production Increase	(+) 10 - 20 %

### Process Diagram:



### Feasibility study:

Taking as a base of calculations US\$ per ton of sugar produced and overall recovery of 89%.

	Consumption (Kg Carbon/Ton Glucose)	Ratio (USD/Ton Glucose)
RFM	1.80	4.7
Regular PAC	2.80	6.4

	Average Production of Glucose per Month	Monthly Carbon Consumption (Kg)	Annual Savings Estimated
RFM	1,600	2,880	38 %
Regular PAC	1,600	4,480	

### Application:

Product can be added directly in dry powder or by pumping a 15-25% water slurry. Typical dosages are 1.0-2.5 kg/Ton glucose or 2 kg/m<sup>2</sup> of filtering area.