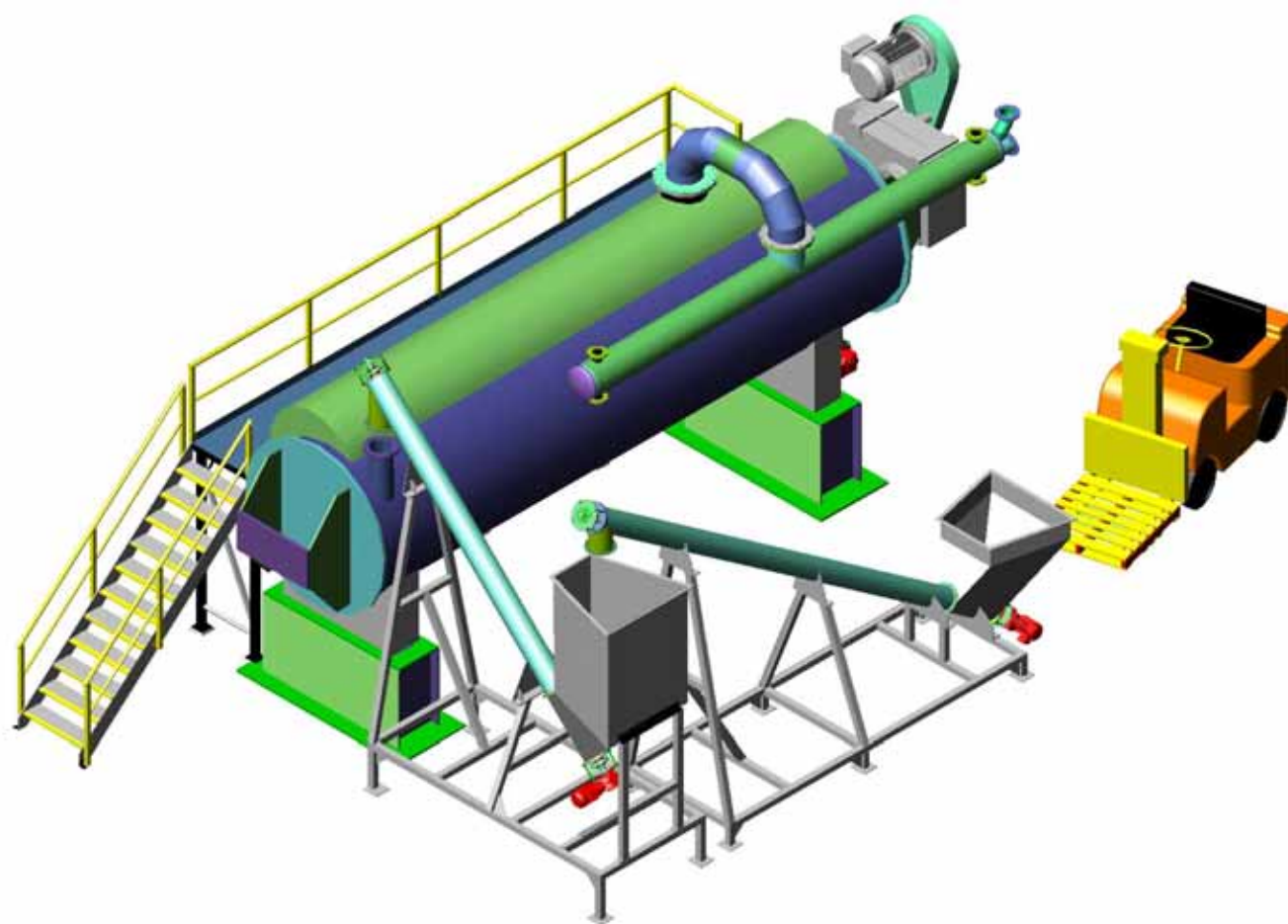


Saurin

Grape Marc Wine & Aroma Recovery Process



Technology with one Vintage payback



- Marc is generally about 15% of the Grapes crushed.
- Contains 55% to 60% moisture.
- By recovering this moisture, the wine yield can be increased upto 10%
- High Moisture content of Grape Marc makes the disposal difficult
- Many delicate flavours are lost in the Marc.

Grape Marc Disposal Issues

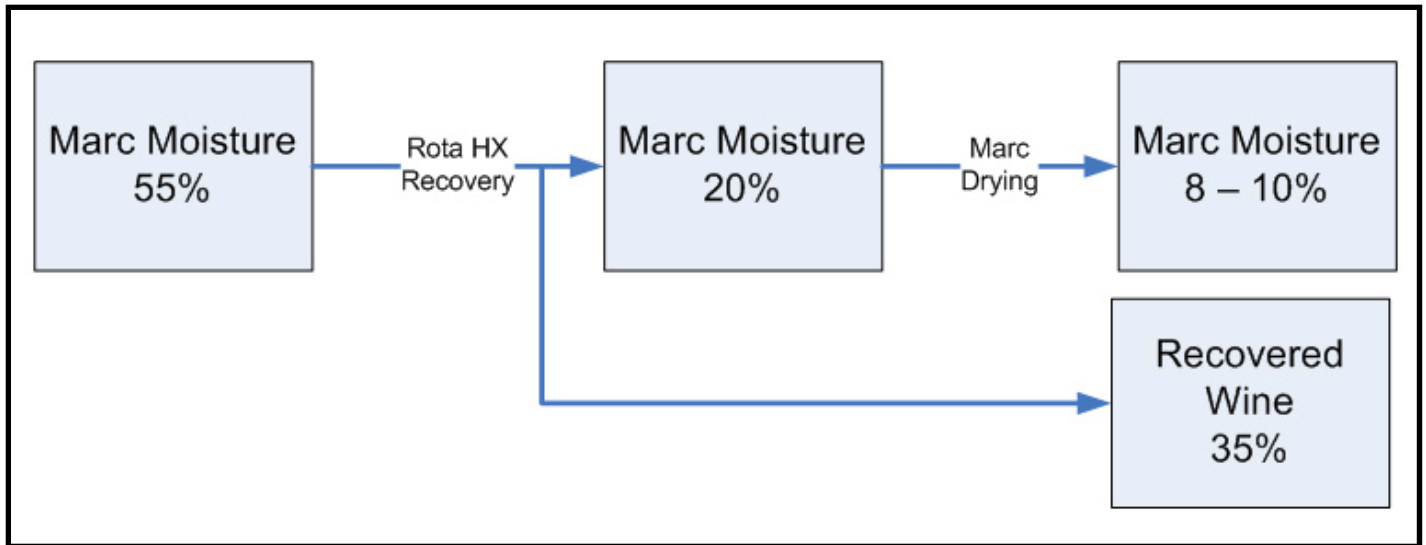
- Pests & disease : Vinegar fly and the risk of spreading pests, disease and weeds
- Leachates:
 - oxygen depletion in the soil
 - surface, soil and ground water contamination
 - grape marc into vineyard soils inhibits root growth.
- Loss of valuable wine, flavours and moisture
- Air emissions: Odours are created by the anaerobic breakdown



Environmental Solutions with Real Cash Flow

- Dried Marc is a valuable Animal Feed
- No soil contamination risk
- No foul smells, no fly, pest, disease or weed risk
- Patent Pending Technology by Saurin
- **Convert waste Marc into cash**

Process Schematic



Advantages

- Wine recovery of 35% of the Marc
- **Varietal Integrity Preservation**
- 6 - 10% increase in wine yield from grapes
- No need to pay for transportation of wet marc to processor
- In-Line Process
- **Can be used to fortify or dilute the wine without the loss of flavours**
- Low space requirement
- Equipment can be used for other agricultural products
- Simple technology and proven equipment
- **Higher recovery of delicate varietal flavours generally lost in Wine making.**



Financial Analysis

Process	Rate	15,000 MT/ yr	30,000 MT/ yr	60,000 MT/ yr
Dried Marc Value as animal feed	70 \$/Mt	\$69,300	\$138,600	\$277,200
Recovered Wine Value	1.50 \$/Lt	\$742,500	\$1,485,000	\$2,970,000
Saving in Marc Transport	16 \$/Mt	\$28,050	\$56,100	\$112,200
Energy Cost	5.50 \$/GJ 0.10 \$/kWh	\$38,000	\$76,000	\$152,000
Net Return		\$801,850	\$1,603,700	\$3,207,400



 The logo for Saurin, featuring the word "Saurin" in a stylized, blue, serif font. The letters are bold and have a slight shadow effect. The logo is positioned on a white background with a blue horizontal bar behind it.

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