

# ÉCLAIR

## Your assistant for top wines

### ÉCLAIR - the brand new generation of microfiltration

Longlasting experience and knowledge in filtration, especially in membrane filtration, have contributed to this absolutely innovative concept. **ÉCLAIR** is a compact, mobile and fully automatic cross-flow-filter of a brand new generation. A highly developed membrane filters out all those haze-forming particles, yeast, bacteria, colloids and other unwanted micro-organisms. Still, all the essential components stay right where you want them – in the clear wine.

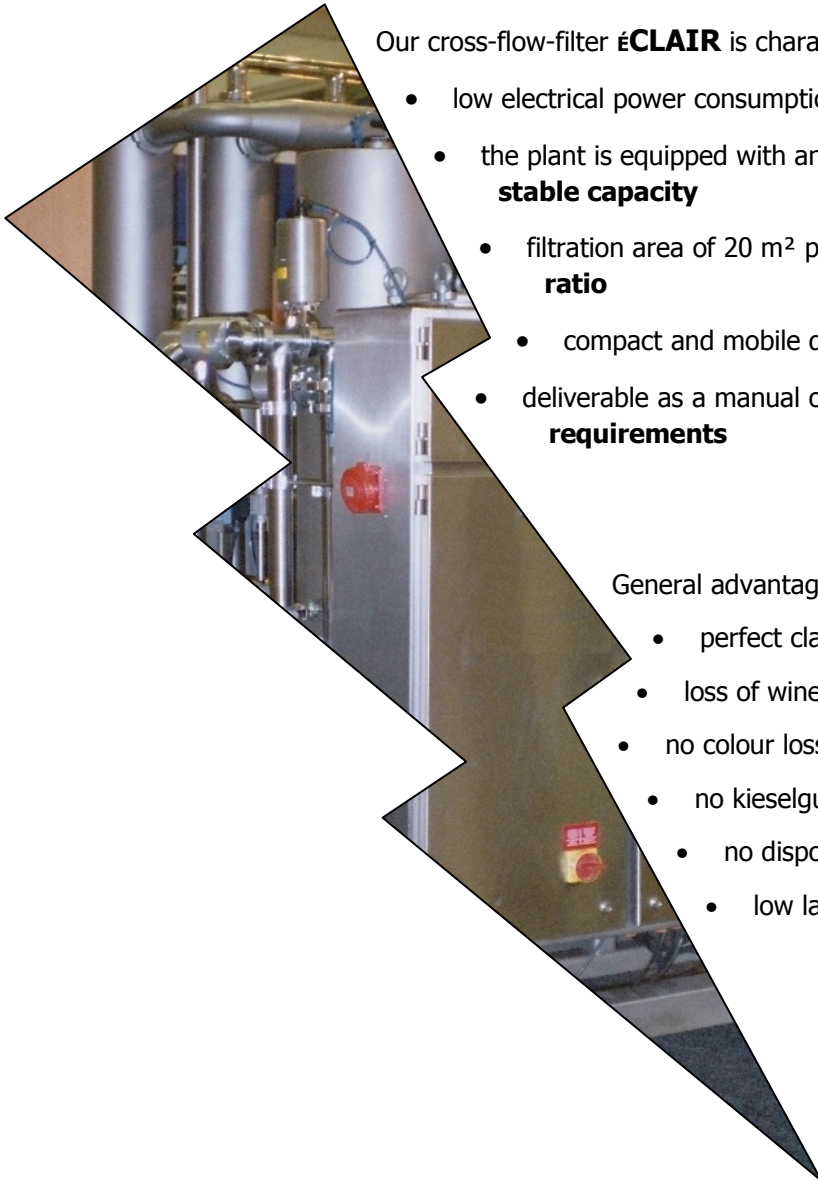
With **ÉCLAIR** you receive absolutely clear wine through a single filtration. Thanks to the effective back-flush system for the membranes with filtered wine, the output of the plant is higher and more stable.

Our cross-flow-filter **ÉCLAIR** is characterized by the following features :

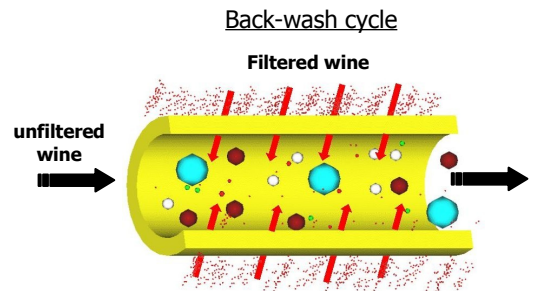
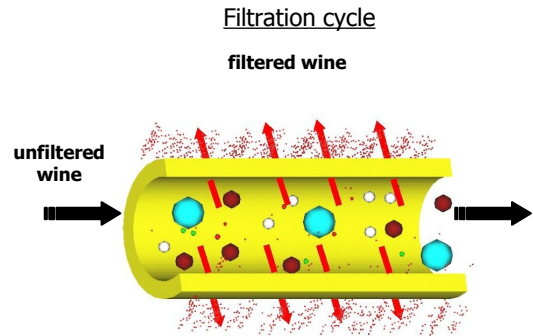
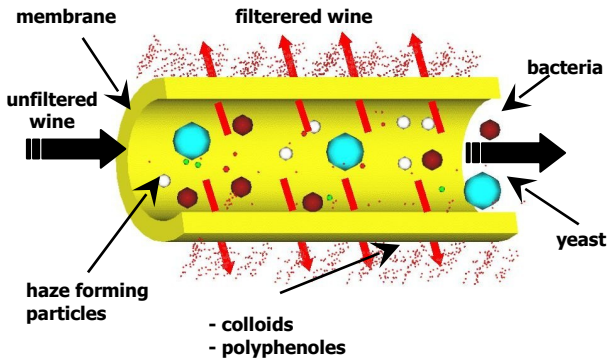
- low electrical power consumption = **low energy input**
- the plant is equipped with an automated back-wash system = **higher and stable capacity**
- filtration area of 20 m<sup>2</sup> per module = **excellent cost-performance ratio**
- compact and mobile design = **little required space**
- deliverable as a manual or fully automatic plant = **according to your requirements**

General advantages of cross-flow-filtration :

- perfect clarity in one step after fermentation
- loss of wine is reduced to a minimum
- no colour loss in red wine
- no kieselguhr or filter sheet is needed
- no disposal costs
- low labour costs



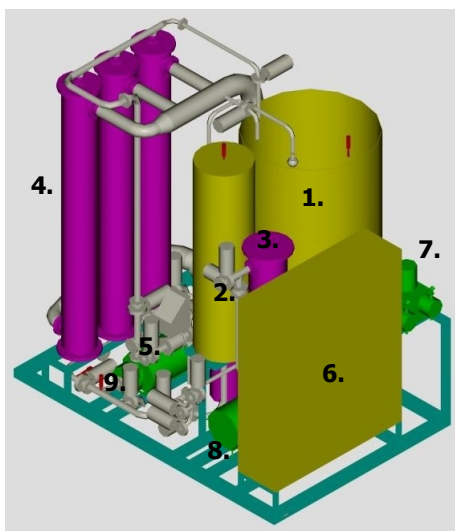
[ This is what happens inside a capillary ]



Please note that the following points can influence the flow rate :

- red or white wine
- concentration of suspended solids
- colloid and polyphenol content
- temperature
- type of vinification: the use of enzymes, mash fermentation, pre-heating of the mash, and so on and of course the parameters on the unit :
- the membrane itself
- whether back-washing or not
- pressure
- cross-flow velocity

different standard sizes €CLAIR		
Model No.	Number of elements	Flow rate litre/h
MF-WP1000	1	900 - 1'300
MF-WP2000	2	1'800 - 2'600
MF-WP3000	3	2'700 - 3'900
MF-WP4000	4	3'600 - 5'200
MF-WP6000	6	5'400 - 7'800
MF-WP8000	8	7'200 - 10'400



Example of an €CLAIR - model no. MF-WP3000 - with 3 modules and an output of filtered wine of 2'700 – 3'900 litres per hour. This plant is completely automated, including a concentrate pump to discharge the concentrate, two dosing pumps for the automated chemical cleaning etc.

1. working and cleaning (CIP) tank
2. inlet unfiltered wine
3. safety filter as a protection for the membranes against coarse particles
4. module housings with the membranes
5. outlet filtered wine (permeate)
6. control box
7. dosing pumps for the cleaning agents
8. concentrate pump
9. permeate pump