



EVAPORATION
TECHNOLOGY FOR INKS
WASTEWATER

eco


TECHNO
VACUUM EVAPORATION SYSTEMS

CUSTOMER



Caronno Pertusella (VA), Italy

Years of activity	60
Industry	Chemical
Production process	Silicon coatings and plastic films
Wastewater	Waters containing inks coming from rinses

CHALLENGE

Customer's needs

Reduce the disposal costs and discharge the distillate.

Goals to achieve

- To obtain a high distillate quality for the discharge
- To concentrate as much as possible to reduce disposal costs

SOLUTION SUPPLIED

DESCRIPTION OF THE SUPPLIED SOLUTION

ECO 750 VR HP is a heat pump evaporator with internal scraper and external heating jacket. Very easy to install and manage, this unit ensure great performances and high concentration factors. Moreover, this is the only technology that can handle wastewaters with a high tendency to fouling and scaling like inks.

% DISTILLATE (YIELD) 95%

CONCENTRATION FACTOR 20

ANALYSIS



INLETS

DISTILLATE

PARAMETERS	UNIT	WASTEWATER INLET	DISTILLATE	CONCENTRATE
pH		7,3	8,5	/
TS 105° C	%	4,6	/	> 85
Conductibility	μS/cm	300	< 100	/
NH ₄	mg/l	70	< 20	/
COD	mg/l	7000	< 200	/

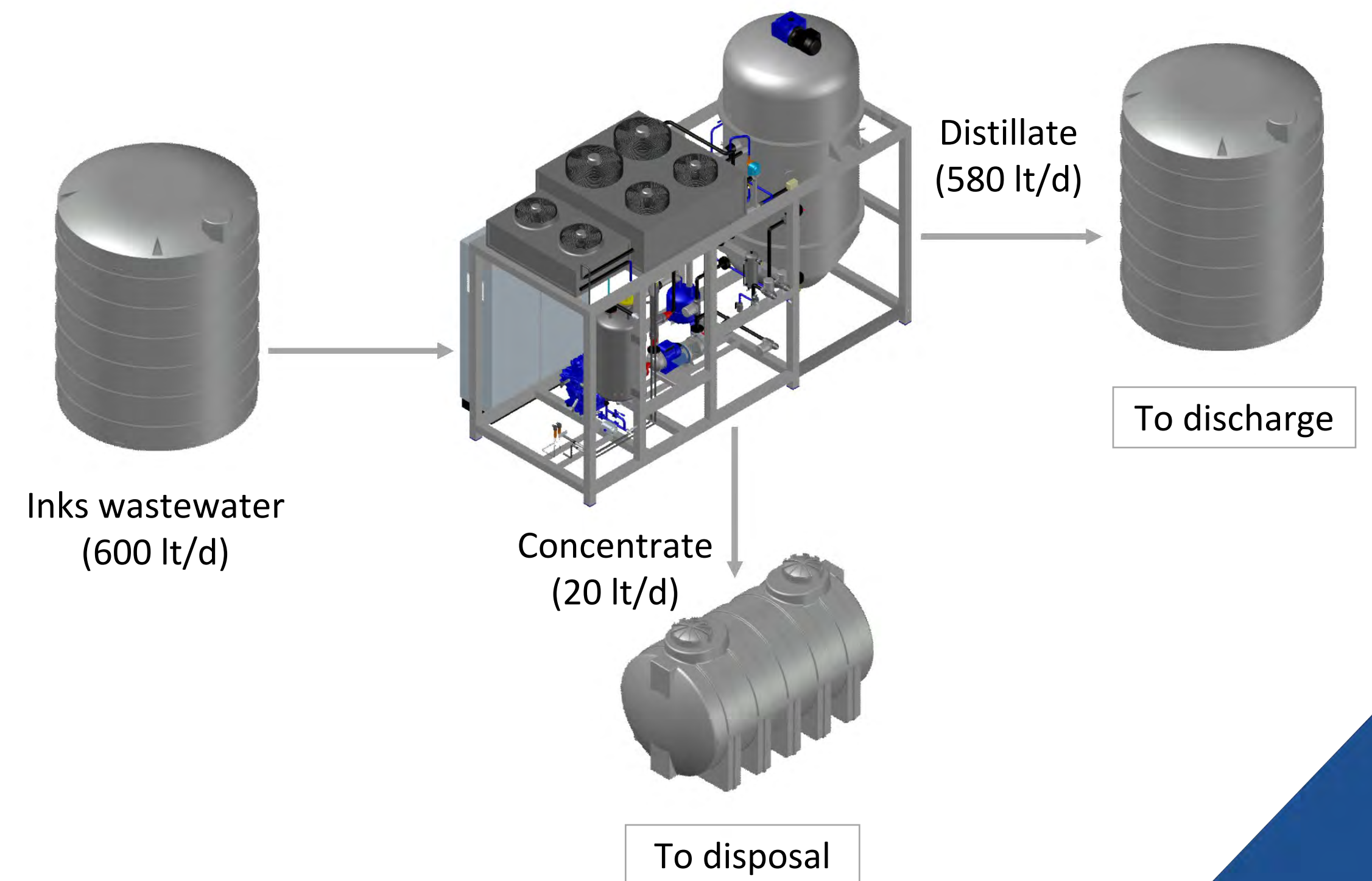
CONCLUSIONS

Thanks to our solution, the customer was able to obtain a great reduction in terms of disposal costs, and in the same time a distillate with a good quality for the discharge.

The return of the investment was less than 2 years.

The customer is also satisfied about the simplicity of management of the evaporator and its automation.

MASS BALANCE





The installed plant during regular daily functioning



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