



#### <u>RULES</u>

The definition "used oils" means an oily solution with a maximum percentage of 15% water .

The oily emulsions (oil concentration 3-5%) produced in the mechanical works, due to the concentration process can be turned into "used oils" and therefore given for free to specialized companies for the disposal.





# **ECOTEAM** solution

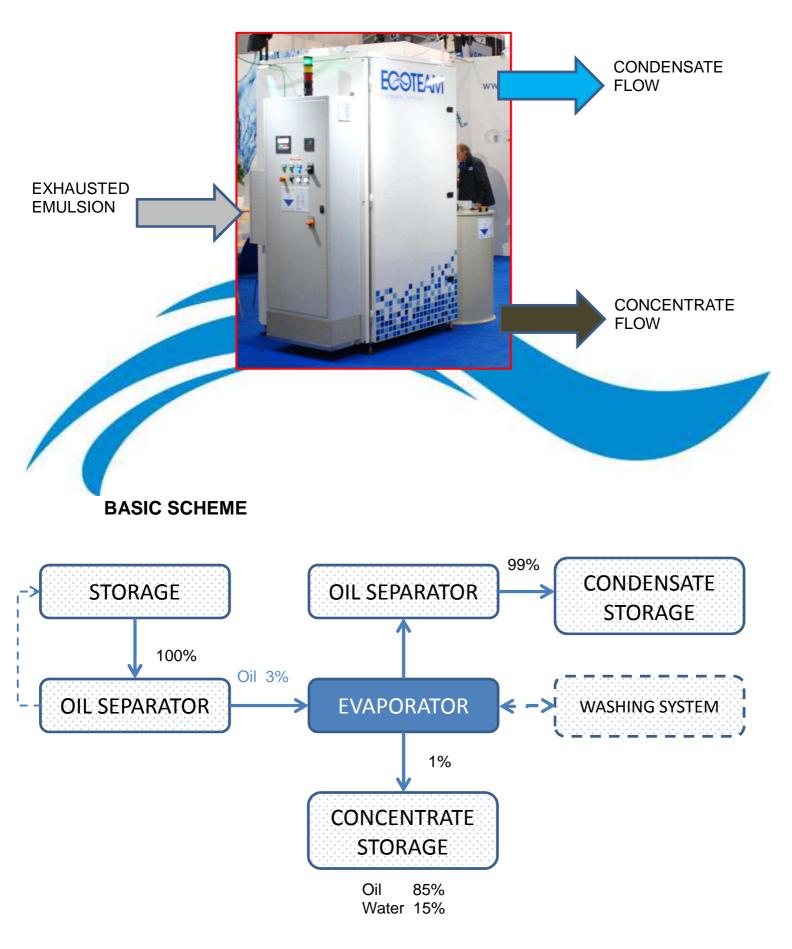
Our experience at your disposal for the best solution:

- Primary separation section
- Primary separation section ECOIL lamellar packs
- ECOCV evaporation plant low energy consumption
- Secondary separation section ECOIL lamellar packs
- Storage and reuse of the condensate
- Storage and disposal of the concentrate

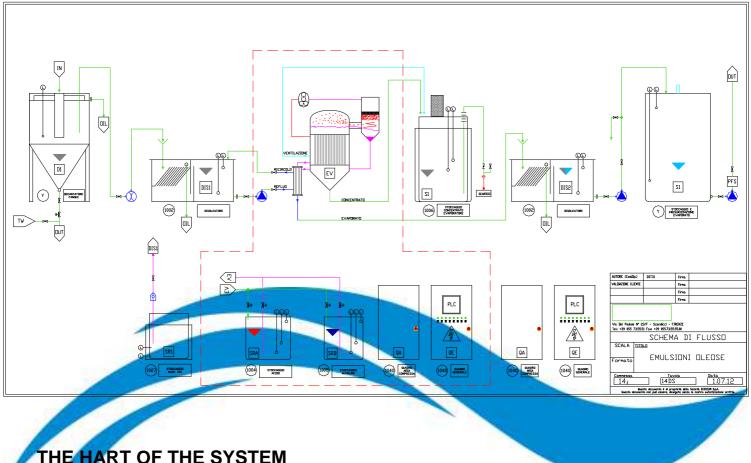
CASE 1	WASTE	CONDENSATE	CONCENTRATE
рН	6.4	7.6	7.0
Oil [%]	3	0	85
COD [ppm]	12.172	1.099	
Conductivity [µS/cm]	3.220	496	

### OUR WORK AT YOUR SERVICE

#### THE HART OF THE SYSTEM



## **FLOW CHART**







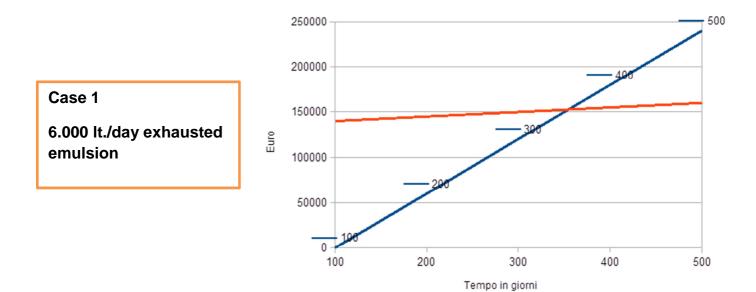
## **EVAPO-CONCENTRATOR**

ECOCV is an evapo-concentrator for water based solutions, with Mechanical Vapour Recompression (M.V.R.) technology, whose operating cost is  $\approx 50$ kW/m<sup>3</sup>

SYSTEM MANAGEMENT

ECOCV functions are automatically driven by a PLC, thus minimizing the operator intervention. The automatic washing system allows to maintain the total efficiency of the production.

# OUR WORK AT YOUR SERVICE

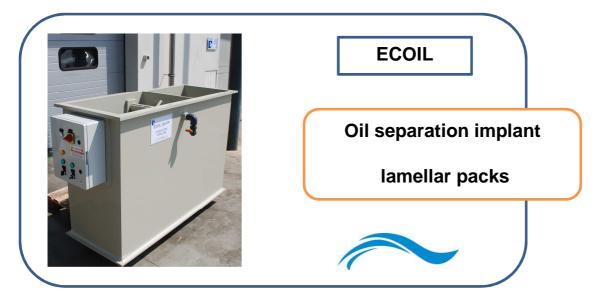


R.O.I.



LIQUID WASTE DATA				
Waste production	m3 / day	6		
Actual disposal cost	€/m3	80		
Working day / year		220		
Yearly disposal cost	€	105.600		
MECHANICAL VAPOUR RECOMPRESSION (MVR) OUTPUT				
Distillated water	%	90		
Concentrated waste (C.W.)	%	10		
CONCENTRATED WASTE DISPOSAL COST				
Daily concentrated waste	m3	0,6		
C. W. disposal cost	€/m3	0		
Yearly C.W. disposal cost	€	0		
ECOTEAM MVR OPERATING COST				
		ECOCV		
Daily evaporation capacity	m3	6		
Kw cost	m3	0,12		
Energy requirement x m3	Kw	50		
Total year cost	€	7.920		
Chemical costs	€/year	2.000		
Maintenance cost	€/year	1.500		
Yearly treatment cost	€	11.420		
YEARLY SAVING	€	94.180		
R.O.I.	Year	1,34		

OUR WORK AT YOUR SERVICE







Environmental quality in its purest form

The protection of the environment is a global project

Mission We solve problems in a certain and definitive way

Vision We have Italian roots and international perspectives

Research We invest in the present as we believe in the future

Post sale We are always on our customer's side



