

VIP CLEAN s.r.l. www.vipclean.it

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Via Goretta 96/A 10072 Mappano di Caselle (TO) SEDE DI ROMA

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WHY NATURA SYSTEM

Natura System is an innovative process to purify wastewater from cleaning cycles, in order to make it reusable for an infinite amount of additional cycles.



The Natura System functioning process has undergone validation testing by the Department of Environmental, Landscape and Infrastructure Engineering of the Turin Institute of Technology.

The positive lab test results have highlighted the possibility of infinite

Reuse cycles of the purified water



A VALITADED PROCESS



POLITECNICO DI TORINO

Dipartimento di Ingegneria dell'Ambiente, del Territorio e delle Infrastrutture

Ricercatore in Ingegneria Sanitaria Ambientale
Barbara RUFFINO

RELAZIONE FINALE DELL'ATTIVITÀ DI CONSULENZA FINALIZZATA
ALLA VERIFICA DELL'EFFICACIA DEL PROCESSO DENOMINATO
"NATURA SYSTEM"



The study performed in the month of February has shown that:

- 1. The purification system named Natura System maintains its efficiency in removal of total suspended solids (TSS) even after a high number of work cycles. In all cases examined, the efficiency of TSS removal always reaches at least 90%;
- 2. The additional treatment and reuse cycles of water for surface cleaning in industrial contexts do not lead to a deterioration of the water's characteristics:
- 3. It is strongly recommended that, after the time necessary for treatment, the water be separated from the sludge and stored in a specific container until the following use cycle;
- 4. Based on real-life construction site results, the use of the Natura System purification process would allow a reduction in required clean water, and an equivalent volume of wastewater to dispose of, of about 16, 35, and 100 m3/year for small, medium, and large sites respectively. The wastewater to dispose of would be reduced to about 1, 2, and 5 m3/year.



ADVANTAGES



Water savings due to water reuse



Reduction in wastewater to under go treatment process



ADVANTAGES



Reduction of transportation to and from wastewater disposal facilities



Tangible cost savings in Euros for wastewater treatment



ADVANTAGES



Reduction in pollution of public water (due to incorrect wastewater disposal)



Reduction in CO_2 emissions due to a decrease in transportation towards purification facilities

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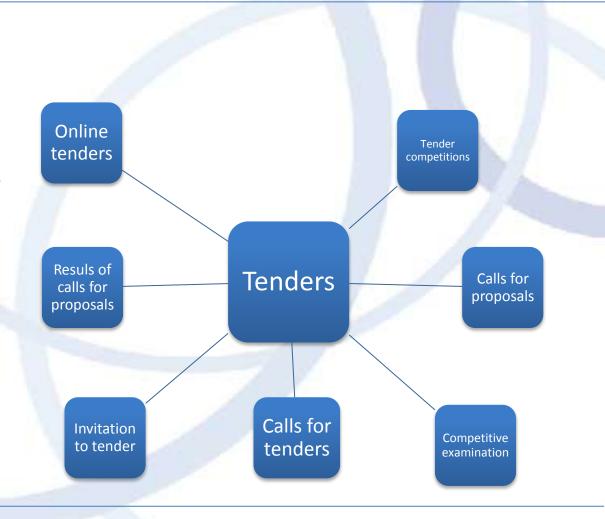
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ONE MORE GREAT ADVANTAGE

Natura System is an innovative process that allows its users to achieve high scores in Tenders for Company Service Providers





PROCESS COMPONENTS



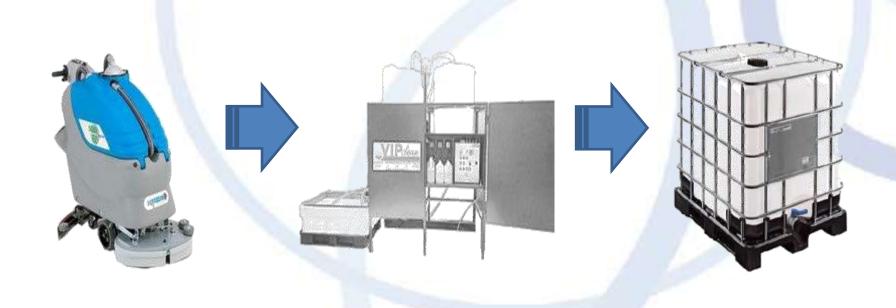




Combined-cycle purification



NATURA SYSTEM: Combined cycle for disposal



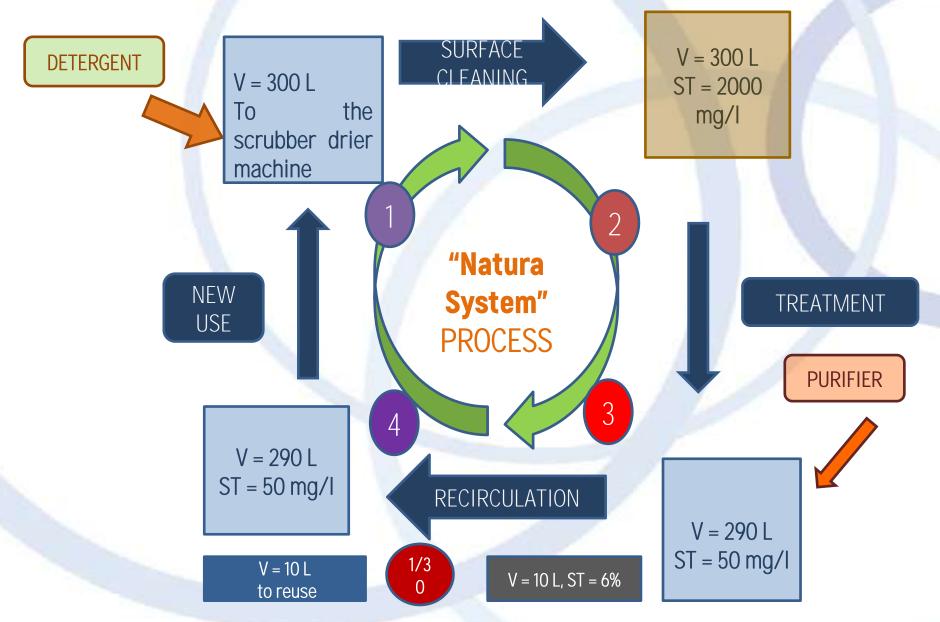


VIP Clean Very Important Purewater COMBINED CYCLE FOR PURIFICATION





PROCESS FLOW CHART





EXAMPLE OF SMALL CONSTRUCTION SITE IN CALCULATION OF SAVINGS

Quantity	Machine	Avg. daily consumption (liters)	Avg. working days	Annual project cycle (months)	Wastewater to dispose of with traditional system (liters)	% of wastewater dissipated throughout working cycle (5%)	to dispose of with traditional system	Acqua reflua da	dissipated throughout working	traditional	
1	Onyx	23	x 22	x 12	6072	303	5769	16632	831	15801	16
1	RUBY 55	40			10560	528	10032			10001	



EXAMPLE OF MEDIUM CONSTRUCTION SITE IN CALCULATION OF SAVINGS

Quantit y	Machine	Avg. daily consumption (liters)	Avg. working days	Annual project cycle (months)	Wastewater to dispose of with traditional system (liters)	% of wastewater dissipated throughout working cycle (5%)	to dispose of with traditional system	Acqua reflua da	dissipated throughout working	li adillonai	
1	Coral 65	100	(22	X 12	26400	1320	25080	36.960	1.848	35.112	35



EXAMPLE OF BIG CONSTRUCTION SITE IN CALCULATION OF SAVINGS

Quanti ty	Machine	Avg. daily consumption (liters)	Avg. working days	Annual project cycle (months)	Wastewater to dispose of with traditional system (liters)	% of wastewater dissipated throughout working cycle (5%)	TOTAL wastewater to dispose of with traditional system (liters)	smaltire con ciclo	TOTAL % of water dissipated throughout working cycle (5%)	TOTAL wastewater to dispose of with traditional system (liters)	N° of 1000- liter water tanks to dispose of
			< 22					109.560	5.412	104.082	
1	FLOORPUL 100	250			66000	3300	62700				
		\		X 12							104
1	SAPPHIRE 85	120		۸ IZ	31680	1584	30096				
1	RUBY 55	40			10560	528	10032				



EXAMPLE TANKS SAVED IN 1 YEAR OF USE

With traditional system 104 wastewater tanks to dispose of

With Natura System
5 wastewater tanks to dispose of



