

MACS 700. Large laboratory

KEY FIGURES			
Waste quantity	300	Plant type	M700
Material density (kg/l)	0,35	Number of units	1
Sterilization cycles per day	12	Required volume per cycle (l)	223
Operational Days	320	Available volume per cycle (l)*	260
Current disposal costs (€/t)	1.200	Utilization rate	85,85%
Disposal costs for hazardous waste(€/t)	300	Energy requirement in kW	60
Electricity costs (€/kWh)	0,24	Water requirement in liters per cycle	300
Water costs (€/m³)	2,30	Wear & spare parts (€/cycle)	3,00 €
Special waste container costs (€/y)	128.571	Acquisition costs MACS XLP (€)	291.005

SAVINGS	DAY	MONTH (30 DAYS)	YEAR
Throughput (t)	0,9	28	300
Energy requirement (kWh)	720	21.600	201.600
Water consumption (m³)	3,6	108	1.008
Savings on disposal costs (€)	844	25.313	270.000
Savings on special waste containers (€)	402	12.054	128.571
Total savings	1.246	37.366	398.571

OPERATING COSTS			
Electricity costs (€)	173	5.184	62.208
Water costs (€)	8,28	248	2.981
Maintenance and service (€)	36	1.080	12.960
Total	217	6.512	78.149

PROFITABILITY			
Savings (€)	1.028	30.854	320.423
Savings per ton (€)			1.068,08
Operating costs per kilo (€)			0,26
NPV over 10 years (€)			2.383.441,73
Return on investment, ROI over 10 years (%)			1.001,09%
Annualized ROI (%)			27,11%
Payback period (years)			0,91

* The information presented above cannot shed light on all variables or individual cases and is therefore subject to change and non-binding.

MACS®

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