

MACS XLP. Hospital 150 beds

KEY FIGURES			
Waste quantity	70	Plant type	XLP
Material density (kg/l)	0,25	Number of units	1
Sterilization cycles per day	9	Required volume per cycle (l)	97
Operational Days	320	Available volume per cycle (l)*	115
Current disposal costs (€/t)	1.200	Utilization rate	84,54%
Disposal costs for hazardous waste(€/t)	300	Energy requirement in kW	17,5
Electricity costs (€/kWh)	0,24	Water requirement in liters per cycle	110
Water costs (€/m³)	2,30	Wear & spare parts (€/cycle)	3,00 €
Special waste container costs (€/y)	42.000	Acquisition costs MACS XLP (€)	192.995

SAVINGS	DAY	MONTH (30 DAYS)	YEAR
Throughput (t)	0,2	7	70
Energy requirement (kWh)	158	4.725	44.100
Water consumption (m³)	1,00	30	277
Savings on disposal costs (€)	197	5.906	63.000
Savings on special waste containers (€)	131	3.938	42.000
Total savings	328	9.844	105.000

OPERATING COSTS			
Electricity costs (€)	38	1.134	13.608
Water costs (€)	2,28	68	820
Maintenance and service (€)	27	810	9.720
Total	67	2.012	24.148

PROFITABILITY			
Savings (€)	261	7.831	80.852
Savings per ton (€)			1.155,03
Operating costs per kilo (€)			0,34
NPV over 10 years (€)			511.563,55
Return on investment, ROI over 10 years (%)			318,93%
Annualized ROI (%)			15,40%
Payback period (years)			2,39

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

MACS®

Ermafa Environmental Technologies GmbH
2. Haidequerstrasse 1-3 | Objekt 36
1110 Wien, Österreich

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