

SANTEX
RIMAR
GROUP

SOLWA



DRYWA

GREEN SLUDGE DRYER

DRYWA

Green sludge dryer

DryWa technology is developed to make sludge management efficient and cost-effective, respecting the environment and climate.

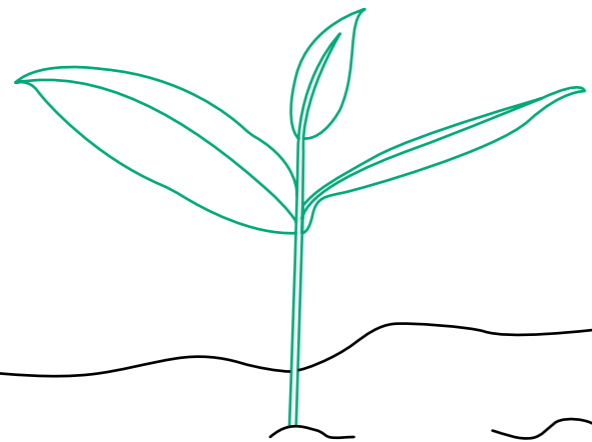
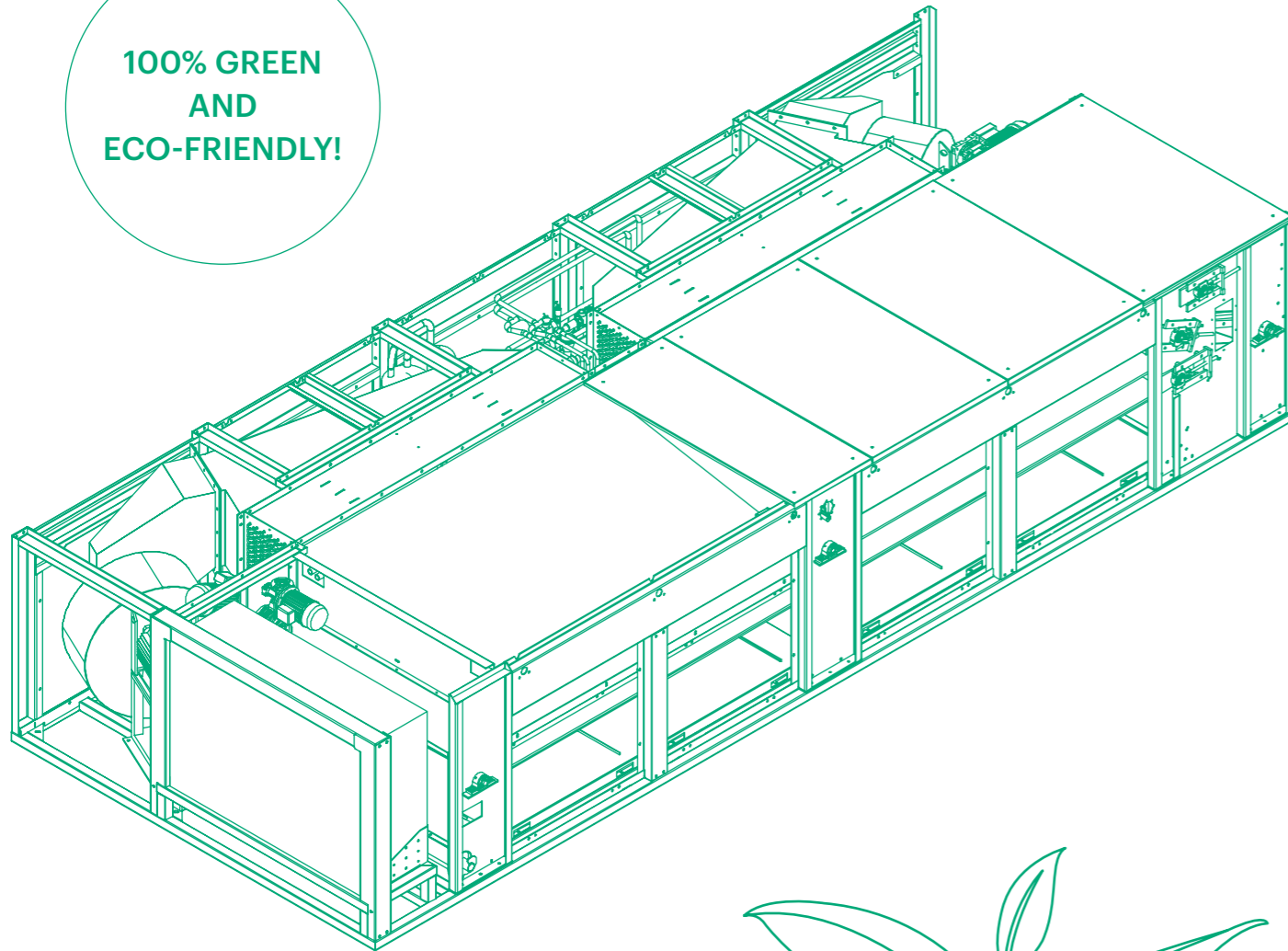
Drywa is the only **low temperature belt dryer** equipped with a CO₂ heat pump.

Compact design, no operative costs for filters and the lowest energy consumption make **Drywa 100% green and eco-friendly.**

Sewage sludge and sludge from ETP (particularly from Dyeing companies) are perfectly treated by DryWa without odors and air emissions, even **without filters.**

The process is based on a compact technology which can be used also in a series of joint modules.

100% GREEN AND ECO-FRIENDLY!



PERFORMANCES

Daily Sludge treatment	3 Ton/day
Final sludge dry matter	80%
Final sludge amount per day	0,8 Ton/day
Water extraction per day	2,2 Ton/day
Weight reduction	75%
Surface for the module installation	15 m ²
Electrical power installed	55 kWh
Energy per 1 kg of water extracted	0,5 kW/kgH₂O

Solwa had been awarded from United Nations as "Innovation for humanity development" and "Italian innovation of the year" from Boston MIT: DryWa is the latest development of Solwa know-how in thermal and fluid dynamics.

DryWa drying principle is a humidification-dehumidification close circuit with steam pressure difference **powered by** a high performance **CO₂ heat pump.**

Solwa developed an optimized process to reduce the heat pump electricity need and achieve advantages such as zero-air emissions, control of humidity and drying temperature.

Aligned with intelligent machine networking and independent process management, DryWa is optionally provided with the most cutting-edge ICT services such as data recording, **performance report, remote control, predictive maintenance, AI software improvements and remote technical assistance extension.**

PERFORMANCES

Sludge management costs reduction	-75% of disposal costs thanks to the weight reduction
Operational costs	Only 0,5 kWh to dry 1 Kg of water
Maintenance costs	No filters, no maintenance and no emissions risks
Space needs	Extremely compact dryer, only 15 m ²
Pay-back	Fast pay-back thanks to disposal saving costs
EFFICIENCY	Flexibility in sludge treatment
	Advanced ICT technology on board. Self-setting of the machine
	Emissions
	ZERO air emissions (odors, COV, NH ₃ ...) thanks to the closed air circuit
	Environmental authorizations procedures
	No specific environmental authorizations needed
	Turn key system
	Simple installation and ready to use with no wasted time to pre-heat
	Easy to use
	Fully automatic process
INDUSTRY 4.0	Industry 4.0
	Real time planning, monitoring and control
	Assistance and service
	Predictive maintenance on-board and global service always available

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