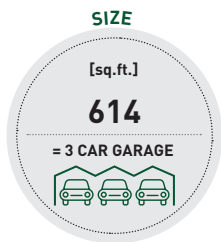


WASTE & SLUDGE SAFE & CLEAN DISPOSAL



Disposal of industry waste and sludge is becoming increasingly demanding due to high environmental requirements and capacity bottlenecks. Reduce your waste materials and thus your costs with PYREG carbonization technology.

PYREG CARBON TECHNOLOGY

YOUR DISPOSAL SOLUTION

ADVANTAGES

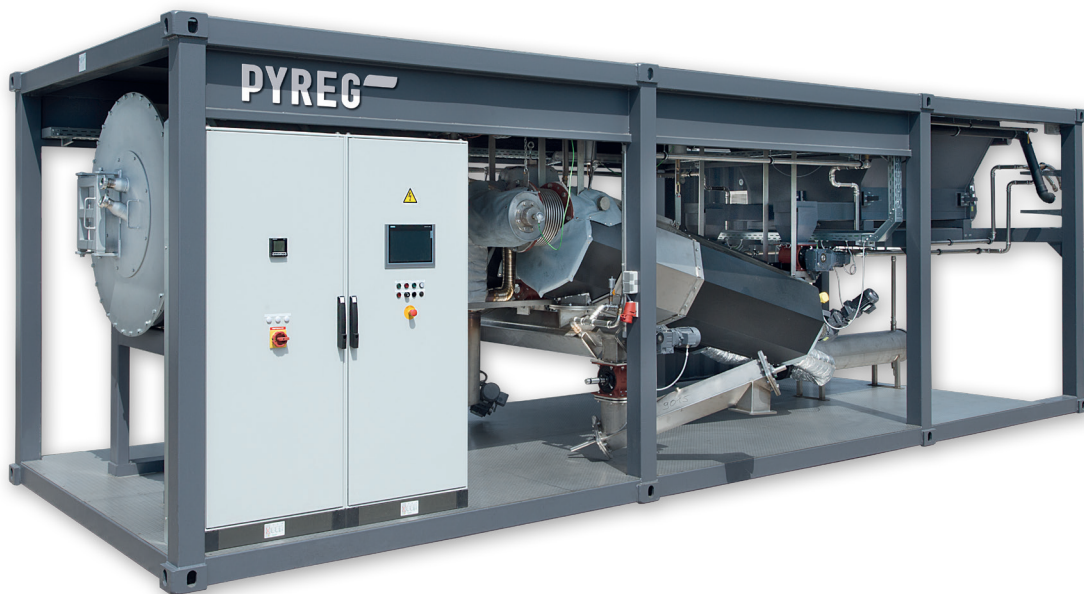
Up to 90 % final mass reduction.

Wide range of input materials: Biomass, plastics, mixed fabrics, compounds, sludges...

Requirements for input materials: Particle size < 30 mm; dry substance > 65 %, minimal calorific value 10 MJ/kg, pourable and freeflowing.

Energy efficient: The required energy is generated by the system itself. In addition up to 600 kWth of excess thermal energy can be used for other purposes (like drying or a local heating grid).

Safe & clean: PYREG carbonization process complies with EU environmental standards.



WASTE



PYREG
CARBON TECHNOLOGY
SOLUTIONS

SYSTEMS

	P500 STANDARD UNIT	P750 / 1500 INDUSTRIAL UNIT
Size	l 9,000 mm w 3,000 mm h 5,800 mm	l 13,000 mm w 3,000 mm h 5,800 mm
Combustible rating	500 kW	750 / 1,500 kW
Annual throughput DS, dry substance	750 t	up to 2,300 t
Annual output	up to 220 t	up to 680 t
Excess thermal energy	up to 150 kW _{th}	up to 600 kW _{th}
Operation hours per year	up to 7,500 h	up to 7,500 h
Power consumption	10 kW _{el}	up to 30 kW _{el}
Additional technology module required	l 3,000 mm w 3,000 mm h 2,800 mm	l 6,000 mm w 3,000 mm h 5,800 mm
With flue gas cleaning system alternatively	l 6,000 mm w 3,000 mm h 5,800 mm	l 12,000 mm w 3,000 mm h 5,800 mm
	flue gas scrubbers, activated carbon filters	

Based on 92 % DS agropellets

PYREG systems are designed as compact, decentralized recycling technology that can easily be integrated into existing material cycles and infrastructures. The process is based on the principle of dry carbonization. That means, waste is not burned, but carefully degassed and then carbonized (500-700 °C), by admission of a tightly targeted air stream. The excess thermal energy of up to 4.8 million kWh per year can be used onsite (e.g. drying) or fed into a local heating grid.

REFERENCES

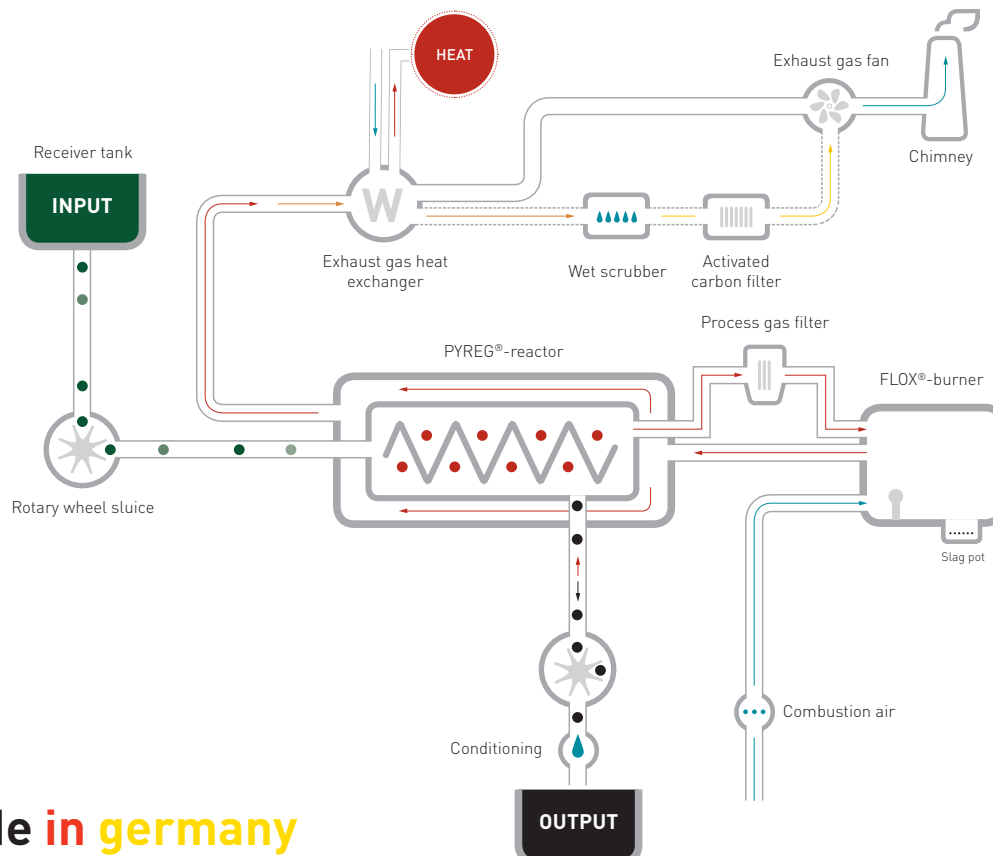
SHANGHAI, CHINA

Operation company: Meiho Environmental Co., Ltd.

Location site: Shanghai, China

PYREG unit in operation since 2020: P500

Input: Industrial painting residues



+ made in germany

pyreg.de