

## Sulzer PyroCon™ - Advanced quenching technology for pyrolysis

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**Optimize product value in your chemical recycling process:  
Maximize returns and drive profitability.**

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Many operators adapt traditional quenching systems in their chemical recycling process, often encountering severe fouling issues that interfere with the controlled thermal degradation of components leading to compromised product quality. PyroCon quenching technology addresses these critical challenges through an innovative design that not only prevents fouling but also optimizes the cooling process with integrated heat recovery, delivering both **reliable operation** and **enhanced energy efficiency** to pyrolysis facilities.



Beyond general pyrolysis applications, PyroCon technology excels in processing polystyrene (PS) and polymethyl methacrylate (PMMA) depolymerization products. Its **controlled cooling approach** effectively separates oligomers from monomer-rich gases while preventing fouling issues, delivering high monomer yields. This combination of precise process control and reliable operation **maximizes the profitability** of recycling facilities.

### Why PyroCon:

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#### Reduced downtime

- A **fouling-resistant** design prevents the build-up of solids, ensuring **continuous operation** and reducing the need for frequent maintenance.

#### Higher Yield

- **Precise reaction control** with rapid quenching prevents further degradation and provides **optimal breakdown** of plastic and bio-waste.

#### Minimized CAPEX

- Contrary to industry standard, PyroCon's design ensures the equipment walls are constantly protected with liquid, allowing the **use of standard steel grades**.

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**How can we help you?  
Contact us today to find  
your best solution.**

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