



## **SOLID STATE POLYCONDENSATION SSP**

IV increase, for PET and PES pellets,  
decontamination for direct food contact, reduction  
of acetaldehyde and VOCs, **continuous batch process**,  
fast and easy installation



**Starlinger**

# SOLID STATE POLYCONDENSATION viscoSTAR



The patented outlet device of the reactor is designed for consistent treatment time of the material in the reactor, preventing center flow of the pellets.



AA level is reduced. Foreign particles, e.g. glycol, are extracted. VOCs are minimised or eliminated. The end product is approved for food contact applications.

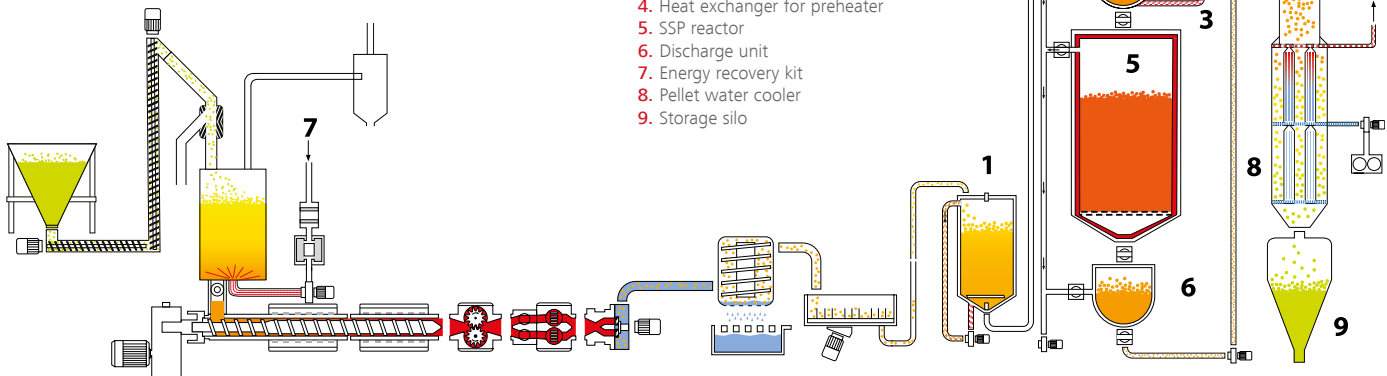
**State-of-the-art Solid State Polycondensation** for the IV increase of PET and PES pellets. Possible source material is regranulate from bottles, preforms, fibres, nonwovens, sheets and strapping.

**recoSTAR PET combined with viscoSTAR** feature the following advantages:

- Effective decontamination and adjustable IV increase under vacuum
- FIFO principle
- Equal residence time for each batch
- Modular design for capacity increase
- Energy saving in case of inline processing
- Low transformation costs



We reserve the right to technical modifications. DPR-24851-09V



## Technical data

viscoSTAR

Type	120	150	200	250	350
Max. output with pellets <sup>1</sup> [kg/h]	1600	2000	2400	3200	3200
Effective volume of reactor [m <sup>3</sup> ]	12	15	20	25	35
High-vacuum system [mbar]	≤10				
Energy consumption [kWh/kg] approx.	0.06 – 0.15				
IV increase [dl/g/h]	0.01 – 0.02				
Food grade according to	EFSA, FDA, brand owner approvals				
<b>Dimensions</b>					
Equipment height [m]	11.3	12.5	14.5	14.7	16.2
Floorspace [m]	8x8			11x9	

<sup>1</sup>6h residence time

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All data depending on design!

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