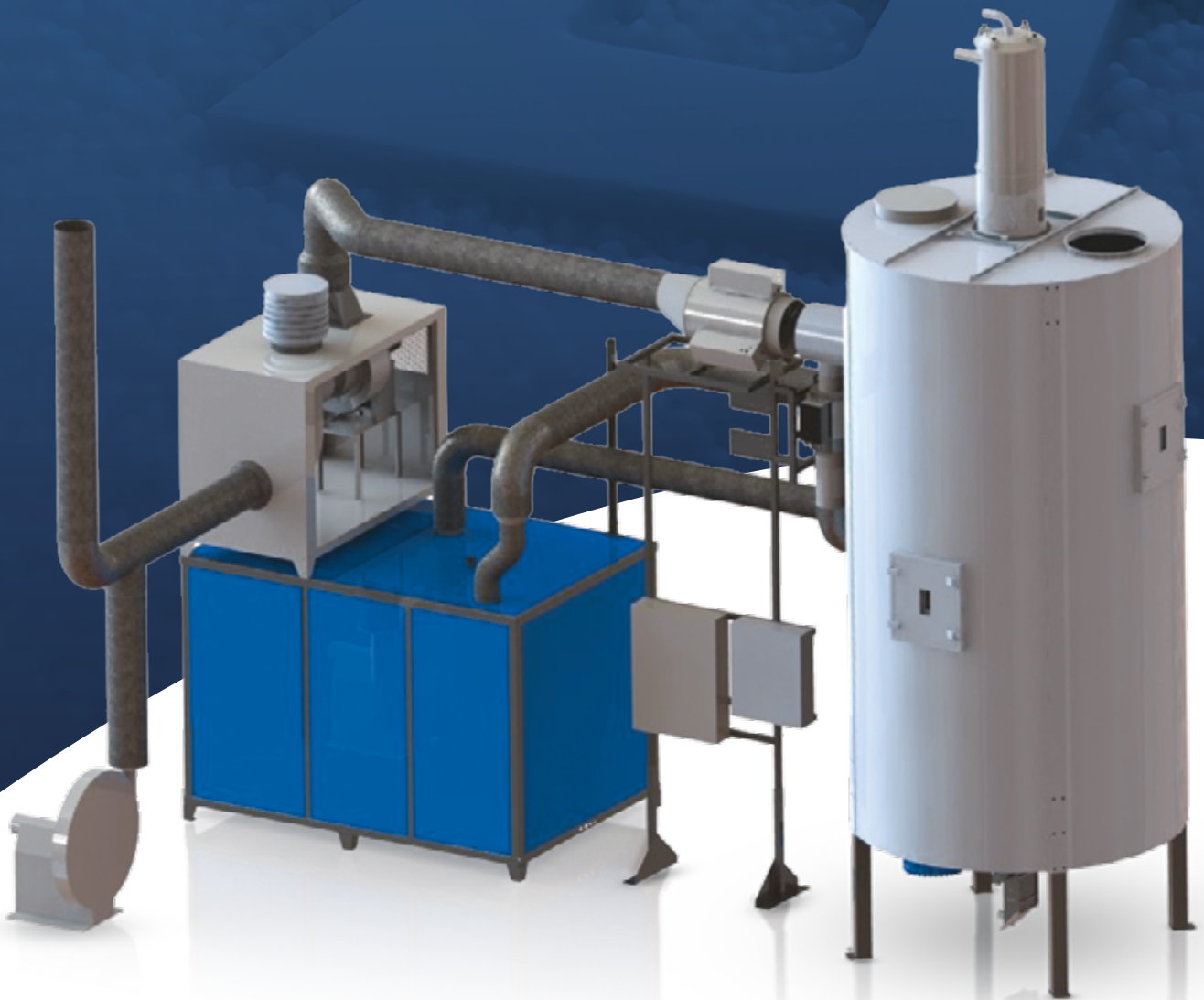


EAC Drying System

for green savings



EAC Drying System

Labotek is considered one of the leading suppliers of energy-efficient solutions. Together with the Infrastructure Division of battenfeld-cincinnati GmbH, we have developed an innovative drying technology that utilises hot air from the extrusion process generated by Efficient Air Cooling (EAC). This unique drying system is designed for extrusion lines using EAC technology.

Dual-zone drying technology

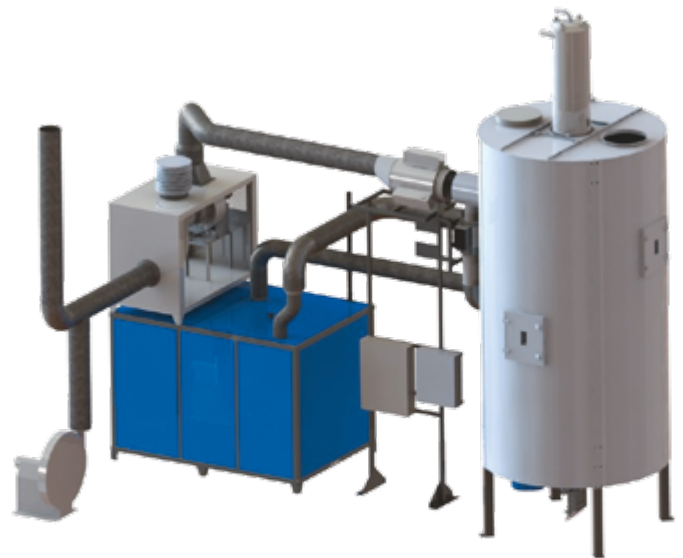
The drying hopper features two separate chambers, each with a dedicated function:

Upper zone

The material is dried and heated using hot air from the Efficient Air Cooling system. The air temperature is controlled by the Labotek system to ensure that the required drying temperature is maintained.

Lower zone

A desiccant drying system ensures that the required final residual moisture level is achieved. The system is designed to prevent air from being exchanged between the two zones.



Delivery programme

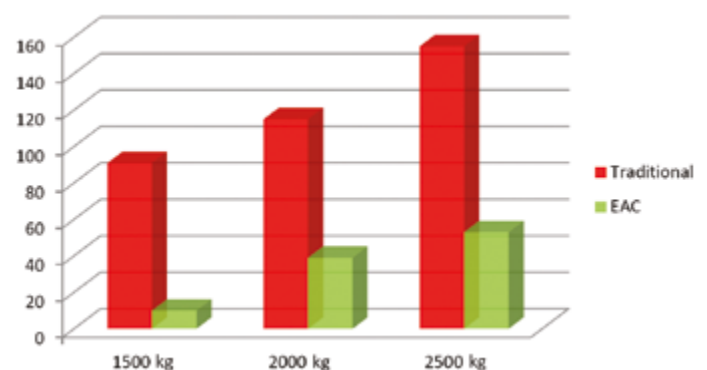
Labotek offers three standard drying systems designed for HDPE throughputs of:

1,500 kg/h
2,000 kg/h
2,500 kg/h

At full EAC effect, the potential energy savings are significant. A system processing 1,500 kg/h of HDPE can consume as little as 11 kW, compared with 91kW for a traditional drying system.*

This represents an energy saving of up to 88%, helping to ensure a rapid return on investment.

**) Energy consumption figures measured/calculated using Labotek dimensioning software for HDPE with $\Delta T = 70\text{ K}$, a specific heat capacity of $2.3\text{ kJ/kg}\cdot\text{K}$, 0.2% initial moisture and all resin-heating energy supplied by EAC. The specifications in this document are subject to change without notice.*



Energy consumption for traditional vs. EAC

Labotek A/S

Stroebjergvej 29
DK-3600 Frederikssund

+45 4821 8411
info@labotek.dk

www.labotek.com



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