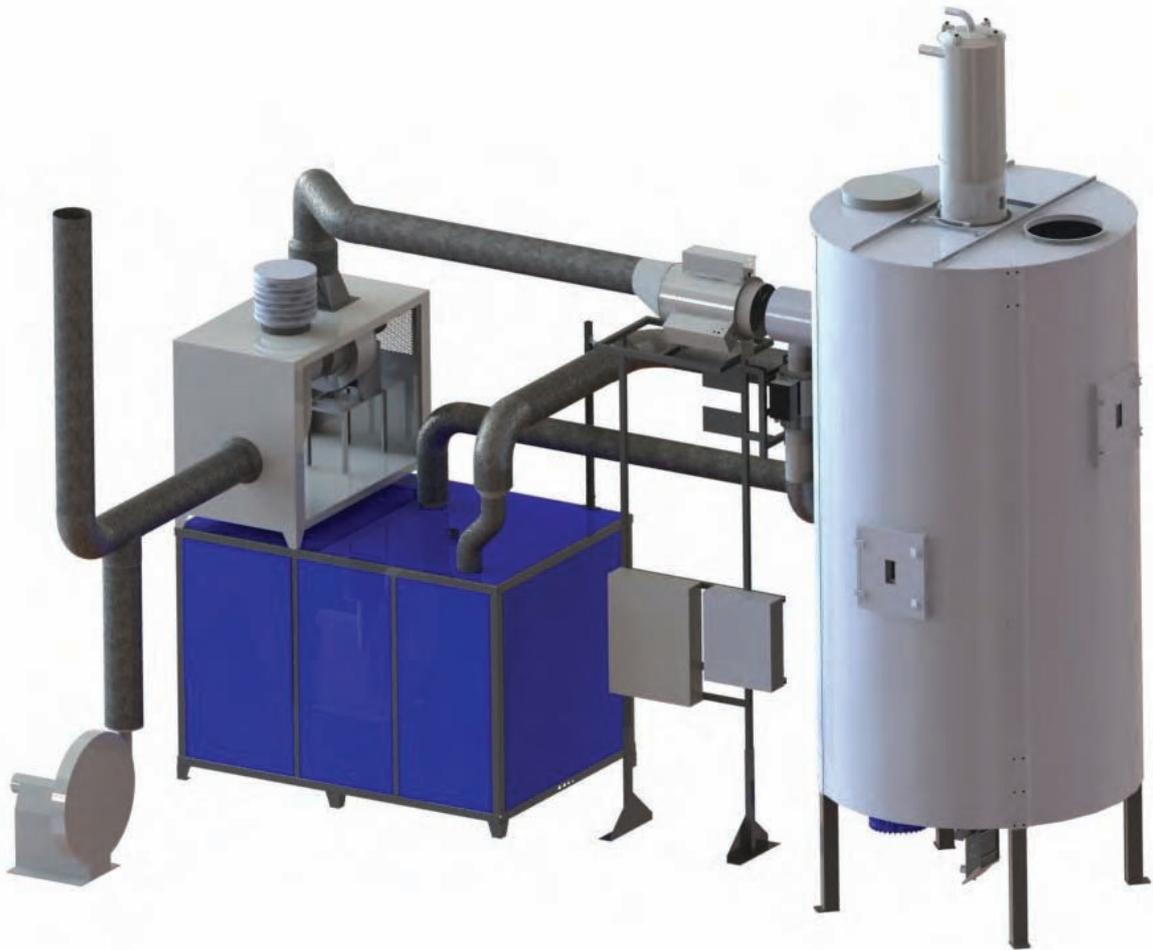


EAC Drying System

for green savings



EAC Drying System

Labotek A/S was founded in 1943 and is 100% Danish family owned, with its headquarters in Frederikssund, Denmark.

Introduction

Labotek is considered as leading supplier for developing energy efficient solutions, together with the Infrastructure Division of battenfeld-cincinnati GmbH, we have developed a new drying technology, utilizing the Efficient Air Cooling (EAC) hot air from extrusion process. This unique drying system is designed for all extrusion lines using EAC technology.

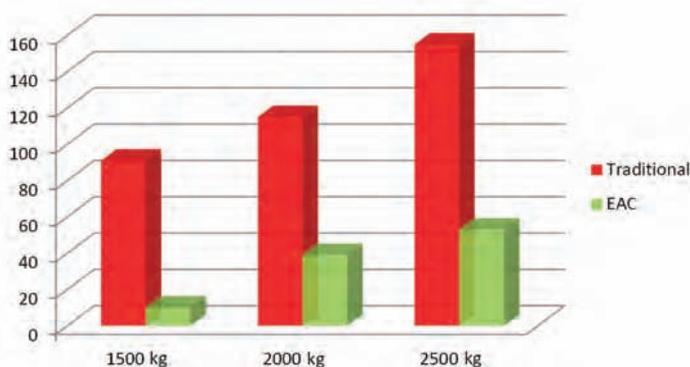
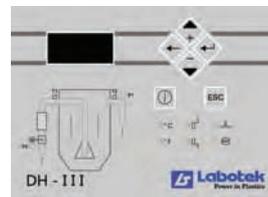
System is comprising a dual zone principle, where the drying hopper is designed with two chambers. The upper zone is dried and heated using hot air from Efficient Air Cooling system (EAC). The air is temperature controlled via the Labotek system to ensure the drying temperature is met. The lower zone is using a desiccant drying system, ensuring the required final residual moisture conditions are met. The design ensures that no air is exchanged from one zone to the other.

Delivery programme

Labotek has three drying systems available as standard. Systems are designed for drying of HD-PE for 1500, 2000 & 2500 kg/h. The energy savings achievable at full EAC effect are significant and a 1500 kg/h HDPE system can use only down to 11 kW, where a traditional system would use 91 kW * = **88% energy saving**.

The savings will return the investment rapidly.

*) Energy consumption figures measured/calculated with Labotek dimensioning software for HDPE with delta T=70K, specific heat capacity of 2.3 kJ/kgK, 0.2% initial moisture and all resin heating energy from EAC.



Energy consumption for traditional vs. EAC

Labotek offers 3 years warranty - excluding wear parts

Labotek A/S

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