

Low Temperature Belt Dryer BTU RecuDry[®] with heat recovery system



Energy saving 35 – 55 %



drying technology

Advantages

The RecuDry® system splits the existing drying technology into two drying areas:

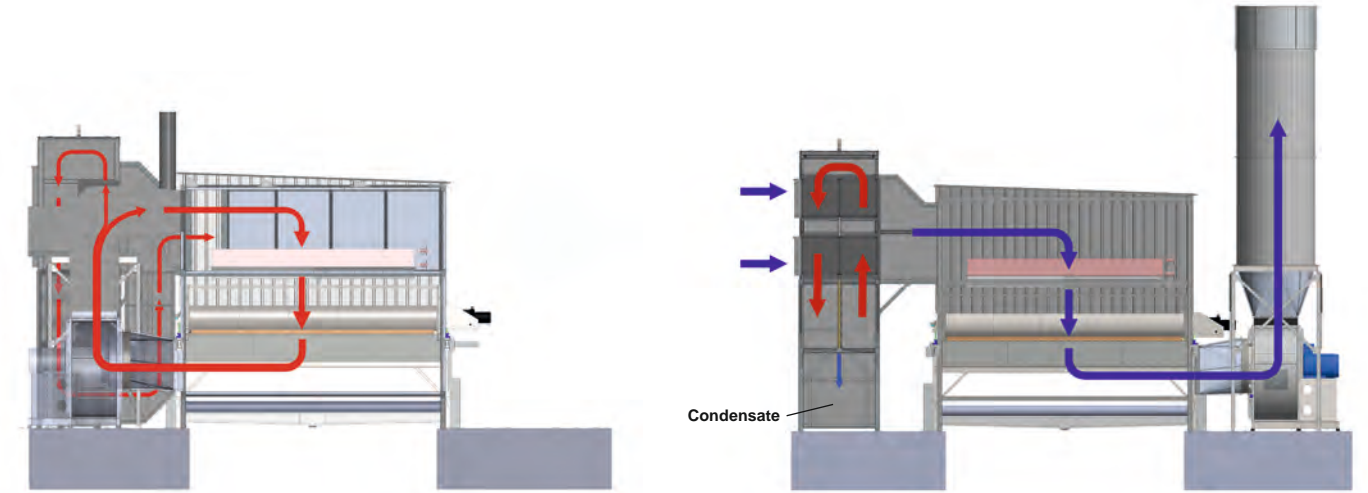
the **Recu module** and the **condensation module**.

In the Recu module, the drying air is optimally saturated through circulation and reheating. A part of this high-energy circulation air is directed to the condensation module. The contained - mainly latent - energy preheats the fresh air for the condensation module. By using air-to-air heat exchangers, most of the applied energy can be recovered and thus guarantees a highly efficient drying process.

Special advantages of the system:

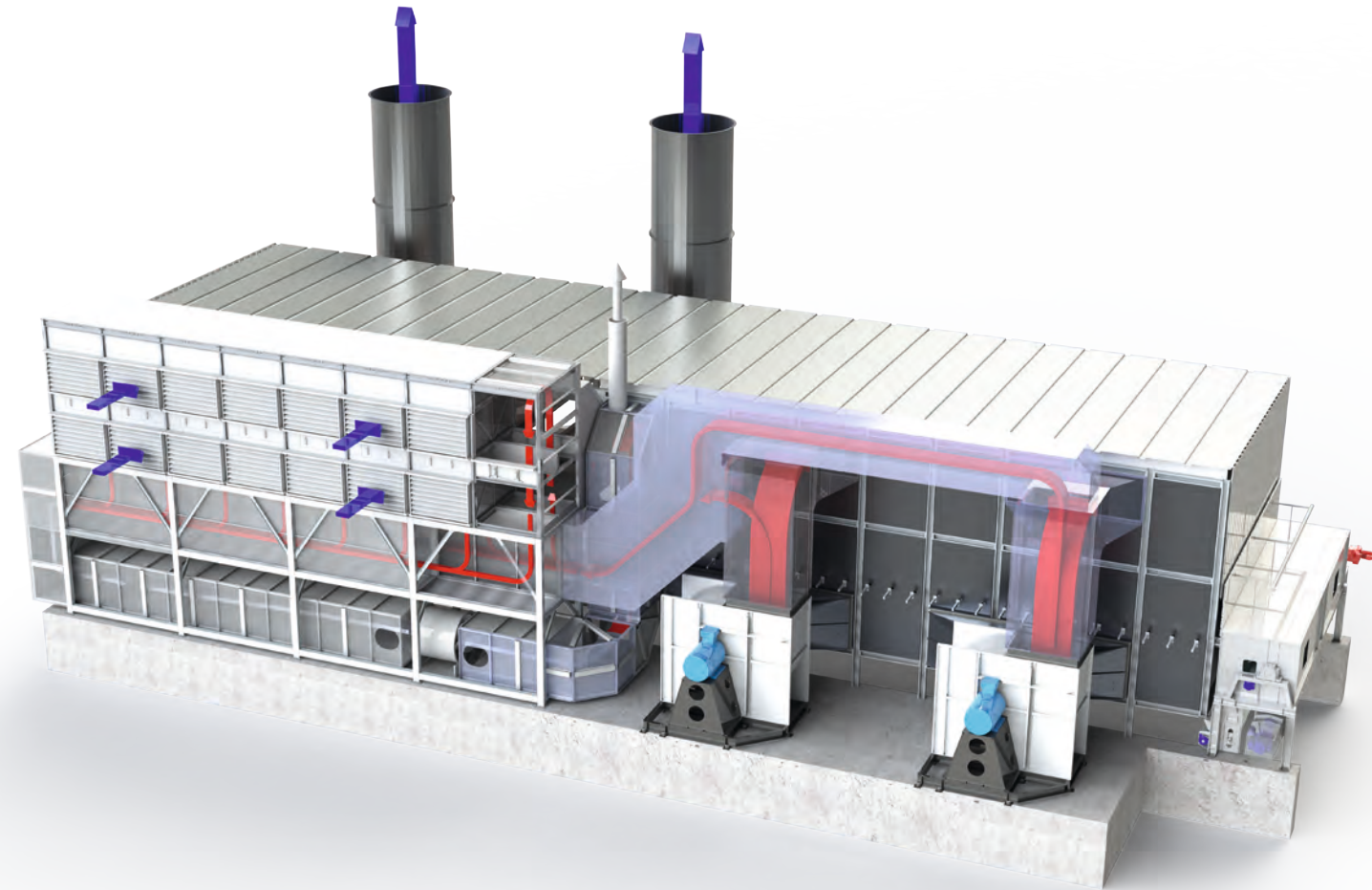
- Energy saving of 35 – 55 %, depending on the drying surface
- Less exhaust air flows and emissions
- Possibility of upgrading existing drying plants to RecuDry® system

System



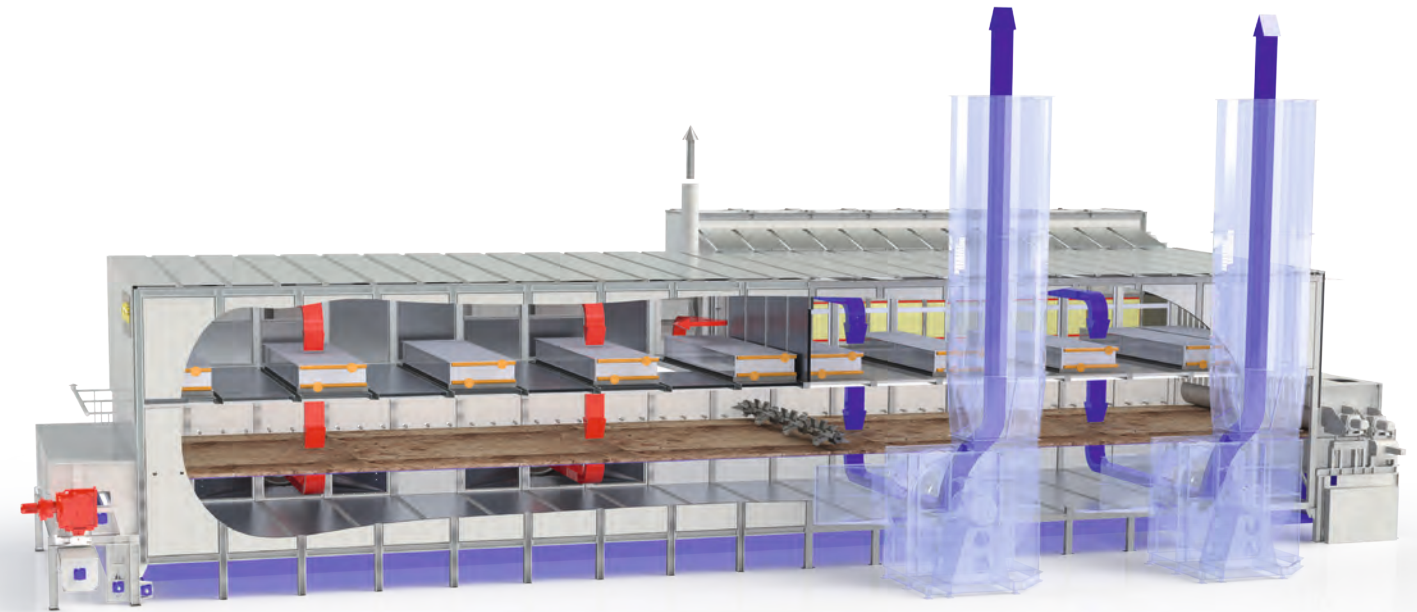
Recu module

Condensation module

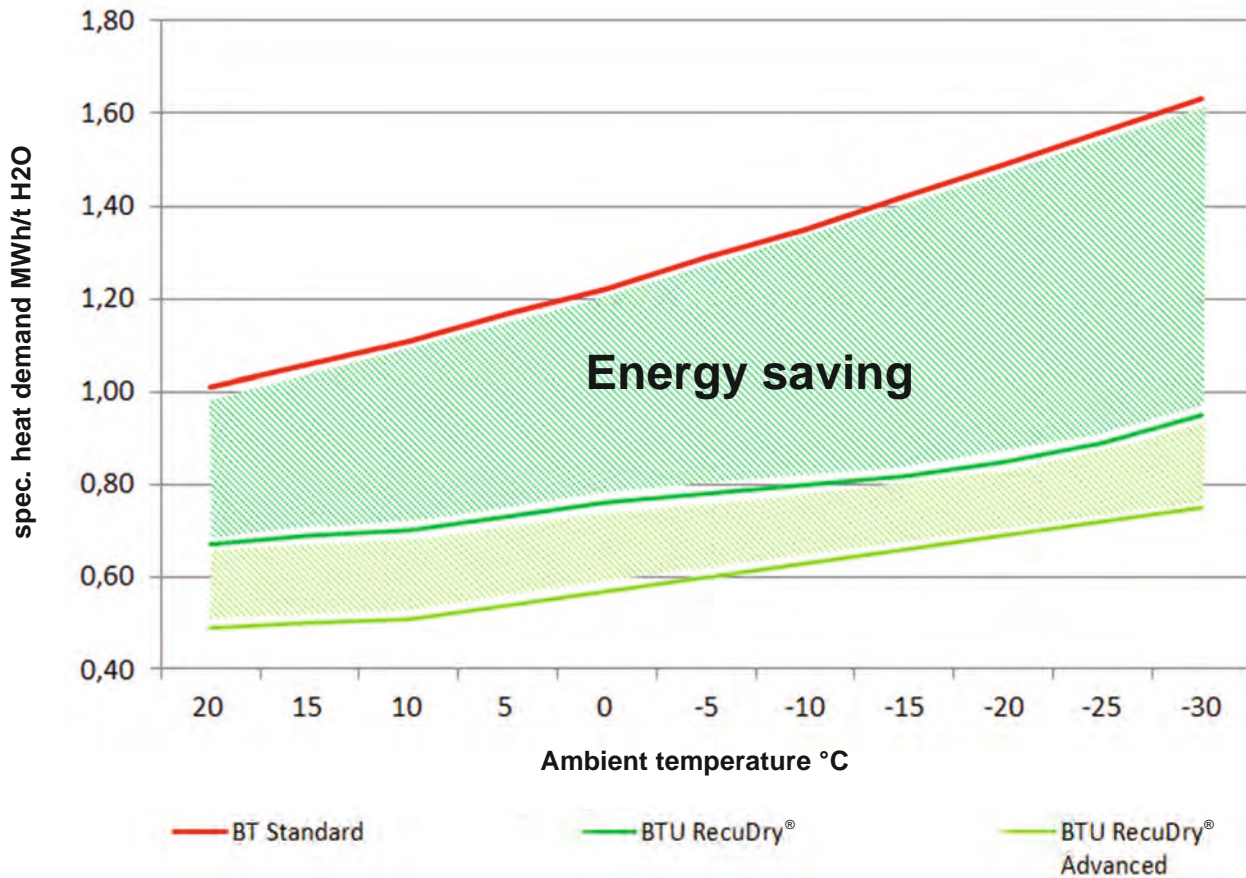


Condensation module

Recu module



Energy saving



Above an exemplary energy demand of a belt drying plant in a pellet plant is shown (heat supply with hot water at 90 °C).

The red line indicates the thermal heat demand of a standard drying plant.

Depending on the ambient temperature, it is possible to save between 35 % in summer and 40 % in winter with the RecuDry® system (green line).

Due to reduced reheating of the preheated air in the condensation module and by increasing the drying surface, the amount of saved energy can reach up to 55 % by using the RecuDry® Advanced system (light green line).



drying technology