

Low Temperature Belt Dryer BTU RecuDry with heat recovery system



Energy saving 35 - 55%



drying technology

Low Temperature Belt Dryer BTU RecuDry

Dryer plant with heat recovery

With the RecuDry-System the existing drying technology is split into two drying areas: a Recu- and a Condensationmodule

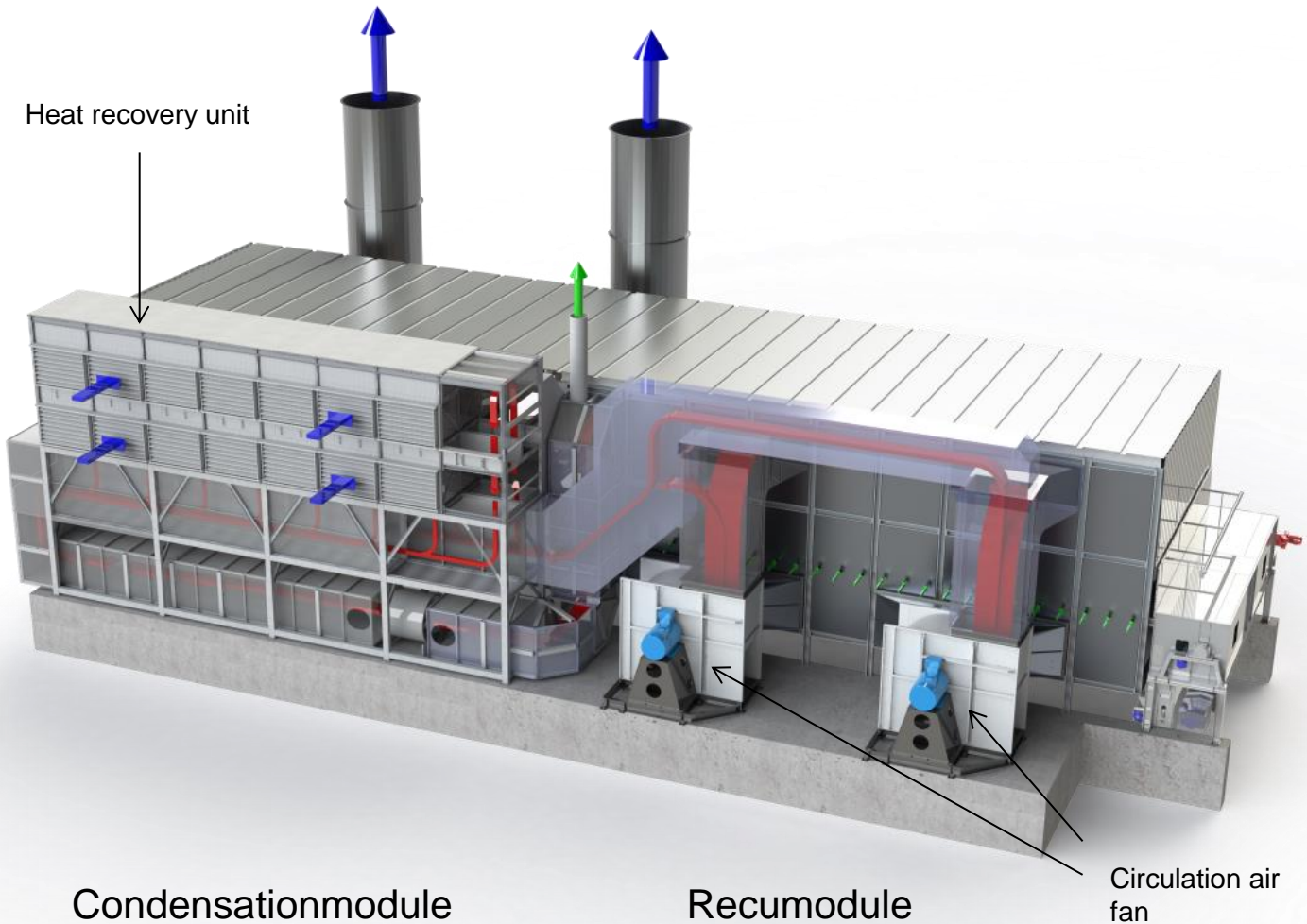
Inside the Recumodule the drying air will be saturated through circulation and reheating.

A part of this circulation air will be directed to the condensation module.

In the heat recovery unit fresh air will be heated by using the – mainly latent – energy of the circulation air.

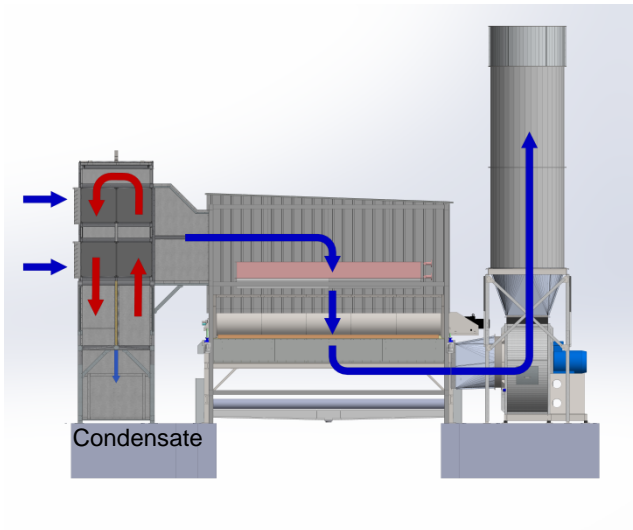
Special advantages of the system:

- Energy saving of 35 – 55 % depending on the drying surface
- Low exhaust air flows and emissions
- Possibility of upgrading of existing drying plant to RecuDry-System

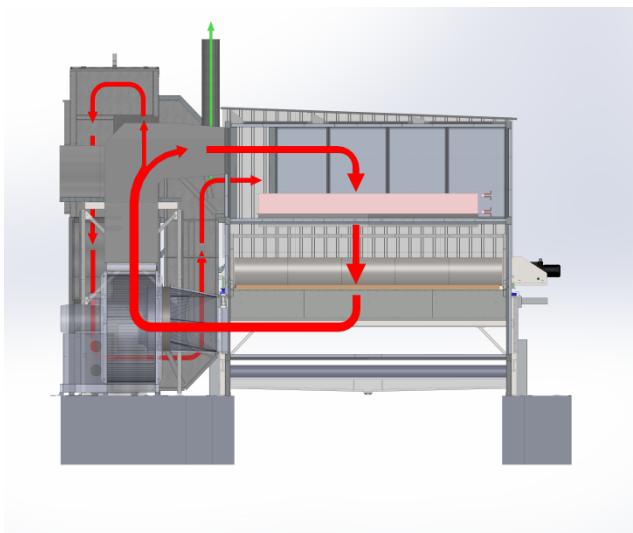


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Dryer plant with heat recovery
Air flows



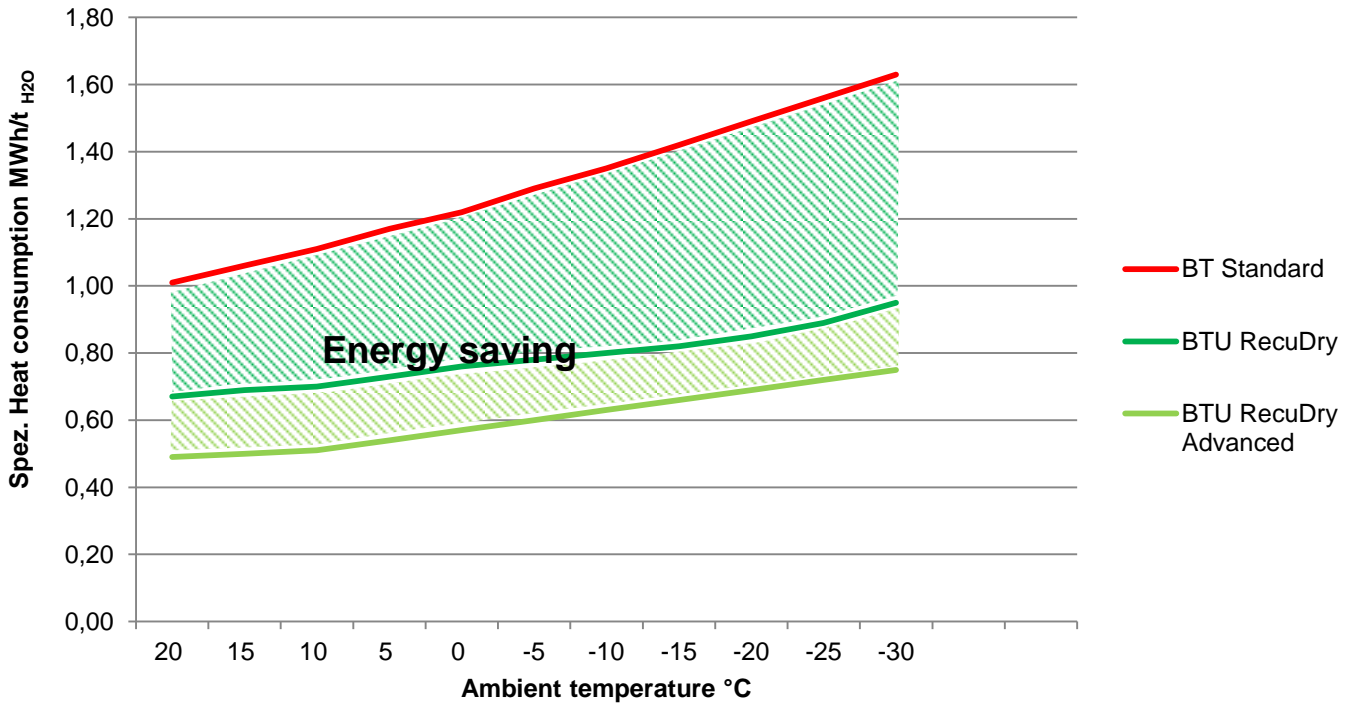
Condensationmodule



Recumodule

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Dryer plant with heat recovery
Energy saving



Displayed above you will find an exemplary energy demand of a belt drying plant with a heat supply of hot water at 90 °C.

The red line shows the heat consumption 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 the regulation of reheating at the condensation module and with increasing of the drying surface the energy saving can reach up to 55 % with the RecuDry Advanced-system (light green line).