USE BAELZ AND STAY COOL

Reduced Steam Consumption with Condensate Backup Control

BAELZ USE CASE #26

Industry:	**Chemical sector**
Company:	**Raw material supplier to the chemical industry**
Location:	**Western Germany**
Baelz Technology:	**Steam/water heat transfer station with condensate backup control**

WANT TO SAVE ENERGY?

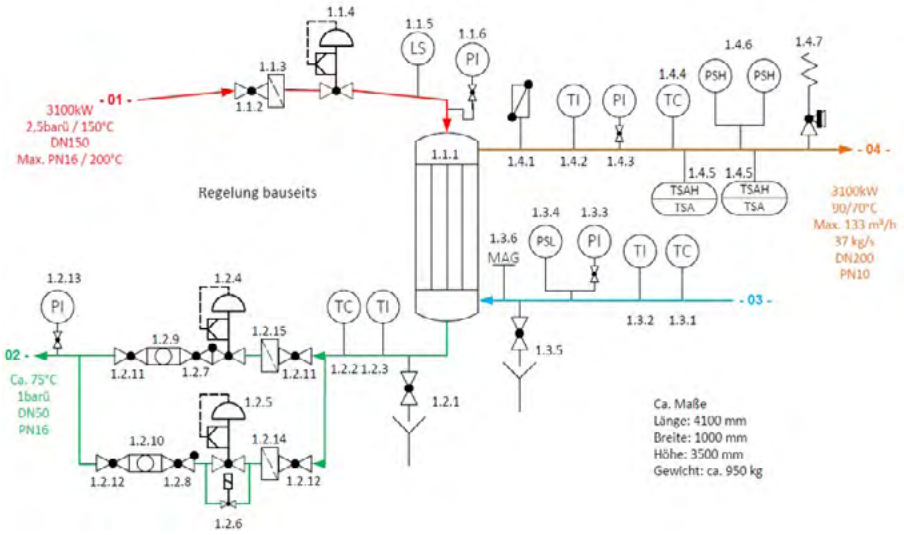
A leading manufacturer and supplier of raw materials for the chemical industry produces around five million tons of base chemicals every year. These are used for raw materials which serve the chemical industry as basic building blocks for the production of plastics, rubber and fibers.
Natural gas, naphtha and liquid gas are also processed. The production facility is supplied with cold water, steam and drinking water by a central power plant. Previously, a steam-regulated system was used for processing and heating liquid gas.
Compared to Baelz heat transfer stations with condensate-side control, steam-side control requires more steam, therefore consuming more energy, which results in higher CO_2 emissions.

BAELZ OFFERS SOLUTIONS.

For physical reasons, a station with steam-side control can only use the evaporation energy of the steam and cannot cool the condensate down any further. The high condensate temperature must therefore be considered, which must be evaporated into open condensate containers, the exhaust steam (vapor steam) being discharged on the roof. This can mean that up to 20% of the energy is wasted.
Efficient energy utilization with steam condensation systems is an important means of saving energy in the heating sector and contributing to achieving the goals of the energy transition.

RESULT

More efficient use of the steam condensation system reduces operating costs thanks to improved heat recovery and leads to better energy utilization.



FS_Chemie_00_DEN_JWA_0525

W. Baelz & Sohn GmbH & Co. · Koepffstrasse 5 · 74076 Heilbronn · Germany
Telefon +49 7131 1500-0 · anfrage@baelz.de · **www.baelz.de**