



Technical Paper

Pumping of special liquids

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Pumps for Heat Transfer Applications in Thermal Oil Circulations

Author:

Dipl.-Ing. Stefan Dötsch
Manager Process Engineering Pumps
FGD and High Temperature Applications
KSB AG
91257 Pegnitz, Germany

Co-Author:

Dipl.-Ing. Thomas Bures
Manager
Apparate- und Kesselbau AKB GmbH
69168 Wiesloch, Germany



Pump Users
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Summary

Industrial and technical processes nearly always involve the release or absorption of energy. By reason of their high specific heat capacity, water and steam are used for transferring heat at temperatures between 0°C and 200°C. At higher temperatures, i.e., between 200°C and 400°C, most plant operators use thermal oil for heating and cooling purposes. Diverse types of heat transfer fluid, a.k.a. thermal fluid, are available for use, depending on the intended application. While the details of the various processes may diverge widely, the transfer of heat always follows one and the same principle.