

Technical and Economic Analysis of Injecting Enhancers into High-Paraffin Oil Heaters

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Abstract

© Published under licence by IOP Publishing Ltd. This paper covers an algorithm of how to optimize the selection of preferred solutions to upgrade heat-exchange equipment. The algorithm is discussed in terms of high-paraffin oil heaters as compared with other heat-exchange surface features.

<http://dx.doi.org/10.1088/1757-899X/240/1/012048>

References

- [1] Nazmeev Yu G and Konakhina I A 2002 Heat and energy systems and power balances of production plants (M.: Publishers of Moscow power engineering institute)
- [2] Konakhina I A and Voropayev A N 2010 The question of how to select high-performance heat exchangers-oil coolers considering actual conditions of their operation Thermal physics and heat power engineering: collection of scientific articles - Magnitogorsk 146-41
- [3] Voropayev A N and Ukhanov K V 2009 Evaluation of effect of seasonal temperature variations of cooling water on the efficiency of heat exchangers-viscous fluid coolers *Izvestiya vuzov. power engineering issues* 5-6 137
- [4] Simonov V F 1985 Increasing power consumption efficiency in petrochemical industries (M.: Chemistry) 238