

Improve Air-Cooled Heat Exchanger Performance

BACK TO BASICS

JANUARY

2017

STEVE BOES, P.E.

Employ the maintenance practices outlined here to increase the cooling capacity of your air-cooled heat exchangers.

Air-cooled heat exchangers (ACHEs), sometimes called air coolers, are used in refineries, petro-chemical plants, gas treating plants, compressor stations, power plants, and other facilities. ACHEs are used for process cooling and/or condensing. There are thousands of these exchangers in use today, cooling and/or condensing everything from engine jacket water to process steam to highly viscous tar.

Often, these processes are critical to the operation of the plant. An ACHE outage will trigger the plant to shut down or operate at reduced capacity, which may cause significant loss of revenue.

This article describes the operation of ACHEs and identifies critical components that could fail and reduce the cooling capacity. It also identifies maintenance practices and procedures that help increase heat exchange capability and reduce the probability of component failure.

Air-cooled heat exchanger basics



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Heat Exchangers Kuppan Thulukkanam, 2024-02-29 *Heat Exchangers Classification Selection and Thermal Design* Third Edition discusses heat exchangers and their various applications such as refrigeration air conditioning automobiles gas turbines process industries refineries and thermal power plants With a focus on thermal design methods including rating and sizing the book covers thermohydraulic fundamentals and thermal effectiveness charts for various flow configurations and shell and tube heat exchangers It provides construction details geometrical features and correlations and thermo hydraulic details for tube fin plate fin air cooled shell and tube microchannel and plate heat exchangers and thermal design methods like rating and sizing The book explores additive manufacturing of heat exchangers printed circuit heat exchangers and heat transfer augmentation methods The book also describes recuperators and regenerators of gas turbine cycles waste heat recovery devices and phase change phenomena including boiling condensation and steam generation The book serves as a useful reference for researchers graduate students and engineers in the field of heat exchanger design including heat exchanger manufacturers [Heat Exchanger Design Handbook, Second Edition](#) Kuppan Thulukkanam, 2013-05-20

Completely revised and updated to reflect current advances in heat exchanger technology *Heat Exchanger Design Handbook* Second Edition includes enhanced figures and thermal effectiveness charts tables new chapter and additional topics all while keeping the qualities that made the first edition a centerpiece of information for practicing engineers research engineers academicians designers and manufacturers involved in heat exchange between two or more fluids See What's New in the Second Edition Updated information on pressure vessel codes manufacturer's association standards A new chapter on heat exchanger installation operation and maintenance practices Classification chapter now includes coverage of scrapped surface graphite coil wound microscale and printed circuit heat exchangers Thorough revision of fabrication of shell and tube heat exchangers heat transfer augmentation methods fouling control concepts and inclusion of recent advances in PHEs New topics like EMbaffle Helixchanger and Twistedtube heat exchanger feedwater heater steam surface condenser rotary regenerators for HVAC applications CAB brazing and cupro braze radiators Without proper heat exchanger design efficiency of cooling heating system of plants and machineries industrial processes and energy system can be compromised and energy wasted This thoroughly revised handbook offers comprehensive coverage of single phase heat exchangers selection thermal design mechanical design corrosion and fouling FIV material selection and their fabrication issues fabrication of heat exchangers operation and maintenance of heat exchangers all in one volume **Design and Operation of Heat**

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the presentation and publication of papers at the Seminars are encouraged the primary aim is to stimulate discussion and liaison between specialist groups The present Chairman of Eurotherm is Professor C J Hoogendoorn of the Technical University Delft Fax NL 15 783251 Information on Mure Seminars is available from the Secretary Keith Cornwell Heriot Watt University Edinburgh Fax UK 31 451 3129 This particular Seminar No 18 on the Design and Operation of Heat Exchangers was the first one on this topic and was held at the Universitat der Bundeswehr Hamburg University of the Federal Armed Forces Hamburg from February 27 to March 1 in 1991 The seminar was an international event and was attended by more than 60 scientists not only from countries of the European Community such as Belgium France Germany Great Britain and the Netherlands but also from other countries such as Canada China India Israel Romania Soviet Union Sweden and the United States of America

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