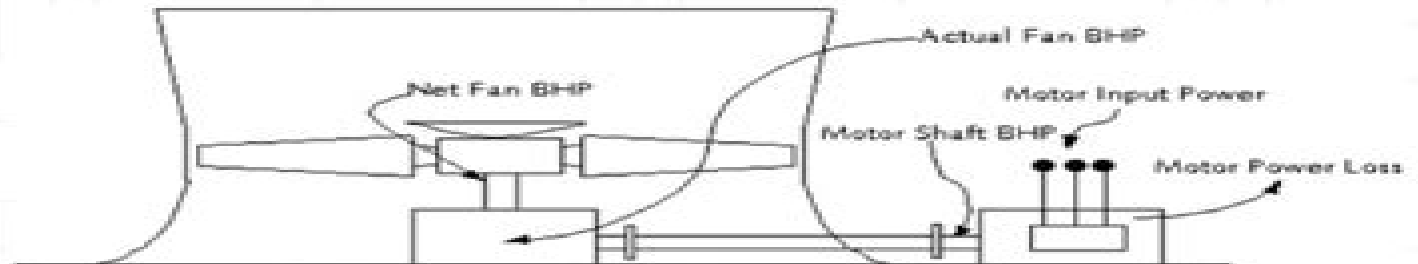


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8. Motor Power Sizing



The fan BHP shown on the fan rating sheet is the net fan brake horsepower based on the ideal conditions of fan test. The actual operating conditions of cooling tower is quite different from the test conditions of fan maker and the actual fan efficiency will be different from the environmental factor like the inlet and exit air flow conditions, tip clearance, obstructions to air flow, plenum geometry, etc. Therefore, a proper environmental correction factor should be considered to both total pressure and horsepower.

Ventilatoren Sirroco Howden who is supplying the fans had published a paper about the influence on the fan performance as follows;

1) Influence of Fan Inlet Shapes

Refer to example 6-4 how much the resistance is increased for the inlet shape other than $R/D = 0.15$.

2) Influence of Obstacles present in the air flow of the fan

The influence of fan performance due to the obstacles under the fan depends on the ratio of distance of leading edge of fan blade from the obstacles and the fan stack throat diameter, and on the ratio of area of obstacles and area of fan stack throat. The smaller of the ratio of distance and the larger of the ratio of area, the higher of resistance correction factor. In most cases, the additional pressure drop coefficient due to the obstacles is within 0.1 to 0.15.

3) Influence of Tip Clearance

Cooling Tower Thermal Design Manual

Anthony S. Fauci



Cooling Tower Thermal Design Manual:

Active Solar Thermal Design Manual, 1985 *Thermal Power Plants* Xingrang Liu, Ramesh Bansal, 2016-08-19

Thermal Power Plants Modeling Control and Efficiency Improvement explains how to solve highly complex industry problems regarding identification control and optimization through integrating conventional technologies such as modern control technology computational intelligence based multiobjective identification and optimization distributed computing and cloud computing with computational fluid dynamics CFD technology Introducing innovative methods utilized in industrial applications explored in scientific research and taught at leading academic universities this book Discusses thermal power plant processes and process modeling energy conservation performance audits efficiency improvement modeling and efficiency optimization supported by high performance computing integrated with cloud computing Shows how to simulate fossil fuel power plant real time processes including boiler turbine and generator systems Provides downloadable source codes for use in CORBA C MATLAB Simulink VisSim Comsol ANSYS and ANSYS Fluent modeling software Although the projects in the text focus on industry automation in electrical power engineering the methods can be applied in other industries such as concrete and steel production for real time process identification control and optimization

Handbook of Heat Transfer Applications Warren M. Rohsenow, James P. Hartnett, Ejup N. Ganić, 1985 Heat Exchangers Kuppam Thulukkanam, 2024-02-29 *Heat Exchangers Operation Performance and Maintenance* Third Edition covers heat exchanger installation commissioning and operation and maintenance and performance monitoring in service Focusing on in service issues like flow induced vibration corrosion and corrosion control and fouling and fouling control the book explores performance deterioration in service maintenance issues defects tube failures and how to detect these issues with NDT methods It discusses various cleaning processes and repair methods The book also considers boilers utility boilers coal based thermal power plants boiler corrosion and boiler degradation mechanisms It discusses different types of cooling systems feedwater treatment deaerators feedwater heaters economizers condensers cooling towers and cooling water management The book serves as a useful reference for researchers graduate students power plant engineers and engineers in the field of heat exchanger design including pressure vessel manufacturers **Handbooks** Defense Documentation Center (U.S.), 1962

Handbook of Applied Thermal Design Eric C. Guyer, 1989 Problems in thermal design are encountered in a vast array of fields from manufacturing equipment to energy systems and consumer products to scientific apparatuses The tools to achieve the solutions to these problems lie within this handbook Written for the non specialist this comprehensive resource addresses the use and control of thermal phenomena in both products and processes With contributions from leading experts in the field this book gives a foundation to the four principal facets of thermal design heat transfer analysis materials performance heating and cooling technology and instrumentation and control The focus is on providing practical thermal design and development guidance across the spectrum of problem analysis material applications equipment specification and sensor and

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Energy Conservation Update ,1980 *Energy Research Abstracts* ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes

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Power Plant Engineering ,1956 **Standard Handbook of Architectural Engineering** Robert Brown Butler,1998 Featuring 450 universal design scenarios stocked with easy to use interactive formulas innovative design tools illustrated examples and at a glance tables this Standard Handbook leads you step by step through the design selection and sizing of virtually any functional component of a building **Gas Heat** ,1957

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