# Design and Numerical Simulation of Heat Transfer Rate of Triple Concentric Copper Tube Heat Exchanger

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Abstract - Enhancement of heat transfer rate leads to lower energy consumption rate which results improved efficiency and performance of heat exchanger and produces lower adverse effects effect on environment. Triple concentric pipe heat exchanger was modeled and analyzed its heat transfer rate, efficiency and performance as instead of conventional heat exchanger. The triple pipe heat exchanger is the improved and modified version of the comentional double pipe heates: hanger. The analytical analysis of the triple concentric tube heat exchanger for compact size of heat exchanger is compared to double pipe heat exchanger. In this research work, design of compact size length of triple concentric heat exchanger is calculated through the overall heat transfer coefficient and log mean temperature differences. The 1.2 meter length of heat exchanger was calculated through analytical analysis. This triple concentric tube heateschanger theore tical analysis results show that better performance and increased heat transfer coefficient rate in compact size heat. exchanger.

Key Words: Triple concentric tube heat exchanger, Compact size, Overall heat transfer coefficient, Surface Roughness and

#### 1. INTRODUCTION

The heat exchanger is a device which transfers the heat energy of a hot fluid to the cold fluid. In heat exchanger transfer of thermal or heat energy between two or more fluids and fluids separated by solid surfaces at different temperature. The mostly used heatexchanger is double pipe heat exchanger. In this type of heat exchanger one pipe is placed concentrically inside a large diameter pipe with proper fitting and flow arrangements. [1,2]

In this research work triple pipe heat exchanger designed on the basis of double or negatic pipe heat exchanger. A pipe is inserted at the mid of the double pipe heat exchanger and double pipe heat exchanger modified as the triple pipe heat exchanger. [3] Three pipes of different diameters were arranged concentrically and three fluids exchange heats between them, it was given better heat transfer rate as compare to double pipe heat exchanger. [4] Triple concentric pipe heat exchanger comprises of three pipes of various widths and three liquids trade warms between them. Subsequently for this situation, there are three segments: middle pipe, inward pipe and external pipe. In triple pipe heat exchangers, a heated liquid is gone through an middle pipe and cold liquid gone through the inner pipe and normal

liquid flows through the external pipe. Triple concentric-pipe heat exchangers are utilized for sustenance preparing. purification of thick nourishment items (milk, cream, thick squeezed orange, apple crush), sanitization, refrigeration, cooling, energy transformation.[5]

The most well-known issues in heat exchanger design are evaluating (rating) and estimating (sixing) [6] The rating is sue is worried with the determination of the heat exchange rate and the liquid outlet temperatures for recommended liquid stream rates, inlet temperature, and admissible pressure drop of a current heat exchanger. Then again, the issue of the size of boiler is regarding the determination of measurement of heat exchanger, for selecting as uitable size. of heat exchanger and deciding the size to meet the predetermined hot and cool liquid inlet & outlet temperatures and flow rates.[7]

The present research work is based on the enhanced heat trains for rate with compacts to of the heat exchanger. In this, triple concentric pipe heat exchanger was designed and performance of heat exchanger were analyzed at various different temperature and mass flowrate of all three fluids. to approach the maximum temperature drop of hot fluid as compare to double pipe heat exchanger.

## 1.1 Design and Theoretical Analysis of Heat

#### Exchanger

Before you Considerations and assumptions made for sizing of triple on noembric tube heatexchanger.

- Two cold waterstreams enter the heat exchanger at same mass flow rates and same inlet temperatures. Heat transfer from bot water to cold water streams. are assumed symmetrical.
- 2. Heat exchanger is made of three copper pipes of different diameters and has no deposit of dirton the pipe because pipes are thin. Hot water temperature drop is considered as 40°C.
- Calculate unknown outlet temperatures of cold. water streams C1 and C2 from energy balance equation.  $(Q_{ij} = Q_{ij} + Q_{ij})$ .
- Determine the convective heat transfer coefficients. for inner pipe, intermediate pipe and outer pipe from the physical properties of fluid.
- Calculate two overall heat transfer coefficients, one based on outside area of inner tube and other based. on inside area of intermediate tube & logarithmic

# <u>Design Development And Heat Transfer Analysis Of A</u> <u>Triple</u>

**M** Mosston

March 3, 4, 11, 16, and 17, 1965 United States. Congress. House. Committee on Science and Astronautics, 1965 **Energy Research Abstracts** ,1978 Proceedings of the 20th International Conference on Fluidized Bed Combustion Guangxi Yue, Hai Zhang, Changsui Zhao, Zhongyang Luo, 2010-07-28 The proceedings of the 20th International Conference on Fluidized Bed Combustion FBC collect 9 plenary lectures and 175 peer reviewed technical papers presented in the conference held in Xi an China in May 18 21 2009 The conference was the 20th conference in a series covering the latest fundamental research results as well as the application experience from pilot plants demonstrations and industrial units regarding to the FBC science and technology It was co hosted by Tsinghua University Southeast University Zhejiang University China Electricity Council and Chinese Machinery Industry Federation A particular feature of the proceedings is the balance between the papers submitted by experts from industry and the papers submitted by academic researchers aiming to bring academic knowledge to application as well as to define new areas for research The authors of the proceedings are the most active researchers technology developers experienced and representative facility operators and manufacturers. They presented the latest research results state of the art development and projects and the useful experience The proceedings are divided into following sections CFB Boiler Technology Operation and Design Fundamental Research on Fluidization and Fluidized Combustion C02 Capture and Chemical Looping Gasification Modeling and Simulation on FBC Technology Environments and Pollutant Control Sustainable Fuels The proceedings can be served as idea references for researchers engineers academia and graduate students plant operators boiler manufacturers component suppliers and technical managers who work on FBC fundamental research technology development and industrial application

Scientific and Technical Aerospace Reports, 1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Limited Scientific and Technical Aerospace Reports ,1976 Technical Information Database Monthly Catalogue, United States Public Documents, 1979 **Nuclear Science Abstracts** .1975 Technical Abstract Bulletin Defense Energy Research Abstracts ,1988 50 Years of CFD in Engineering Sciences Akshai Documentation Center (U.S.), 1963 Runchal, 2020-03-09 Prof D Brian Spalding working with a small group of students and colleagues at Imperial College London in the mid to late 1960 s single handedly pioneered the use of Computational Fluid Dynamics CFD for engineering practice This book brings together advances in computational fluid dynamics in a collection of chapters authored by leading researchers many of them students or associates of Prof Spalding The book intends to capture the key developments in specific fields of activity that have been transformed by application of CFD in the last 50 years. The focus is on review of the impact of CFD on these selected fields and of the novel applications that CFD has made possible Some of the chapters trace the history of developments in a specific field and the role played by Spalding and his contributions The volume also includes

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