



MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

Department of Mechanical Engineering

REPORT OF SKILL BASED MINI PROJECT

Heat And Mass Transfer

Title of Project: Heat Exchanger

Introduction: A heat exchanger is a system used to transfer heat between a source and a working fluid. Heat exchangers are used in both cooling and heating processes. The fluids may be separated by a solid wall to prevent mixing or they may be in direct contact.

Description of Model: Heat exchangers are used **to transfer heat from one medium to another**. These media may be a gas, liquid, or a combination of both. The media may be separated by a solid wall to prevent mixing or may be in direct contact.

Applications of Model: Heat exchangers are used in many engineering applications, such as refrigeration, heating and Air-conditioning systems, power plants, chemical processing systems, food processing systems, automobile radiators, and waste heat recovery units.

What I Learned Through Project: Heat transfer is an essential part of our daily lives and often not even recognized as we go about with our lives. One essential heat transfer that everyone is familiar with, although maybe not understand its use, is sweating. We sweat when we play sports, run for the subway or train or lay on the beach

Submitted By

Name and Signature: Anurag Frederick

Enrolment Number: 0901ME201039

Class: Vth Sem. Mechanical Engineering

Submitted To

Prof. Manoj Kumar Gaur