



# MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

## Department of Mechanical Engineering

### REPORT OF SKILL BASED MINI PROJECT

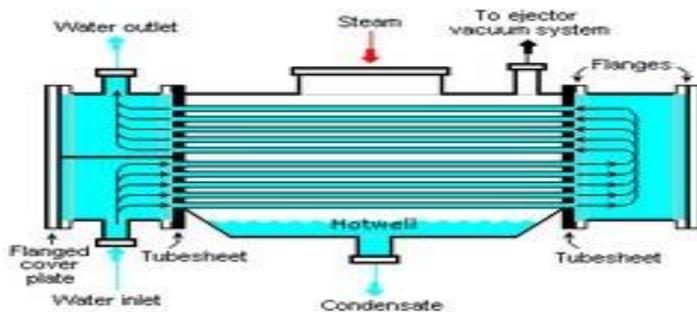
Heat & Mass Transfer (120513)

**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**



#### **Applications of Model**

Heat exchangers are used in many engineering applications, such as refrigeration, heating and airconditioning systems, power plants, chemical processing systems, food processing systems, automobile radiators, and waste heat recovery units.

- 1 - Smaller Spatial Footprint. With the advancement of modern technology, it seems that more powerful also means smaller; smaller personal devices, smaller and more versatile manufacturing equipment, and more.
- 2 - Lower Environmental Impact.
- 3- Minimal Operating Costs.

#### **What I Learned Through Project:**

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

**Submitted By**

**Name : AKASH KUMAR VERMA**

**Enrollment No : 0901ME201019**

**V SEM Mechanical Engineering**



**Submitted To**

**Dr. Manoj Kumar Gaur**

