



Previously known as
THERMOSYS

HEAT PIPE
MANUFACTURES

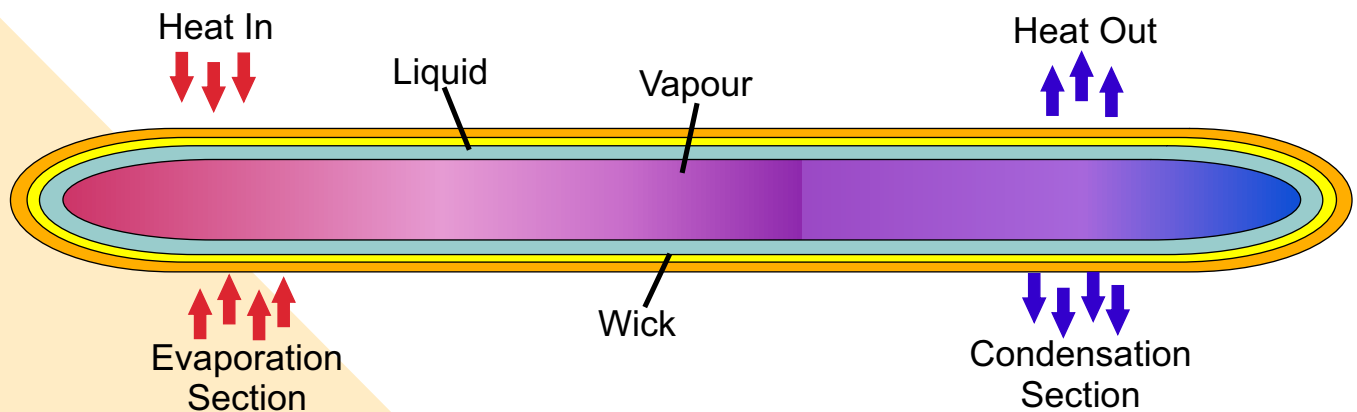
HEAT PIPE
HEAT EXCHANGERS
INDIA



HEAT PIPE HEAT EXCHANGERS INDIA

Established in 1986, we are the pioneers in the Heat Pipe manufacturing industry. More than 20 years of extensive R&D, hard work, and persistence have made us one of the leading manufacturers of Heat Pipes in the country today. Our wide range of products include Solar Water Heaters, Oil Coolers, Flue Gas Recovery Systems, Electronic Cooling, Electronic Panel Coolers, Mould Cooling, De-humidifiers in HVAC Systems, Steam / Vapour Condensers, Heat Equalizers, Direct Flame Heating Heat Pipes for Chemical Dryers.

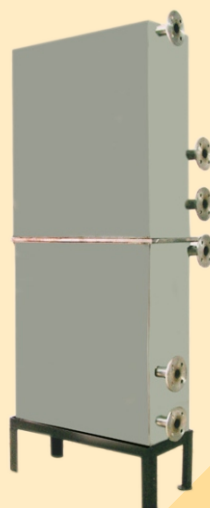
WHAT IS A HEAT PIPE?



A Heat Pipe is a sealed container of Stainless Steel, Copper, Aluminum, or mild Steel having a wicking capillary structure which helps to wet all the inside surface. It consists of a liquid which works as a heat transfer agent. When heat is applied to any part of the heat pipe's surface, the liquid starts boiling and converts to gas. As the liquid changes phase from liquid to gas it picks up latent heat of vaporization and travels at the colder end at sonic speed due to pressure difference.

The heat source of the heat pipe is called Evaporator. Gas reaching the cold end condenses into liquid, releasing the latent heat of condensation. The condensed liquid returns to the evaporator through the capillary structure. The cycle of evaporation and condensation continues till the heat is applied to the surface of the heat pipe. This process of evaporation and condensation makes it possible to transfer large quantity of heat at small temperature gradient along its axis. Due to isothermal quality of heat pipes they can also be used as temperature equalizers.

HEAT PIPES come in many shapes such as tubular, flattened, with the fins, jacketed, with bends and curves, etc. It can be customized according to the requirement. Our products undergo strict quality control so that they work efficiently for many years to come.





FEATURES

- 👉 Thousand times faster heat transfer than Copper, Silver or ordinary Metal tube
- 👉 Gradient free temperature distribution over the tube surface
- 👉 Power packed space saving systems for smaller areas
- 👉 Long lasting life



APPLICATION

- 👉 **Space Electronics**
- 👉 **Plastic Molding**
- 👉 **Heat recovery from flue gas of industrial boilers**
- 👉 **Solar Water Heaters**
- 👉 **Chemical Dryers**
- 👉 **Oil Coolers**
- 👉 **Electronic Panel Cooling**
- 👉 **Electronic Welding Machines**
- 👉 **Power Transformers**
- 👉 **De-humidifiers in HVAC Systems**
- 👉 **Steam/Vapour Condensers**
- 👉 **Vaporizers**
- 👉 **Energy Recovery Systems**



FEATURES

Heat pipe heat recovery systems have more advantages over conventional heat exchangers they are as mentioned below.

- 👉 Extremely high heat recovery ratio of the order of 50-80%
- 👉 System operates with very low pressure drop hence no increase in blower capacity required
- 👉 Extremely compact in size, Heat pipe heat recovery systems are less than half the size and weight of conventional heat exchangers yet are many times more efficient due to hyper conducting heat pipes
- 👉 No moving parts so no wear and tear hence long life of the system
- 👉 Avoids cross contamination, solid partition wall between two mediums
- 👉 It is a self contained system requiring no external power for operation
- 👉 Less maintenance required, very easy to clean the system
- 👉 Short pay back period



INFORMATION REQUIRED

- 👉 **Temperature of primary (Hot side) medium**
- 👉 **Mass flow rate of hot medium**
- 👉 **Type of Fuel used with fuel firing rate per hour**
- 👉 **Any specific soot other than normal or any other contaminants in the flue gas**
- 👉 **Type of system: Boiler, furnace, oven**
- 👉 **Medium to be heated at what temperature is to be heated**
- 👉 **Flow rate and pressure of secondary medium (cold side) in case of a liquid**



GAS TO GAS

GAS TO WATER





OUR HAPPY CUSTOMERS

- 👉 **Universal Medicap Ltd., Savli**
- 👉 **Chemcrux Pvt. Ltd., Ankleshwar**
- 👉 **Apex Engineering Ltd., Vadodara**
- 👉 **Radhika Technology, Ahmedabad**
- 👉 **Neology Solutions, Bangalore / USA**
- 👉 **Infrovate, Bangalore**
- 👉 **Central Power Research Institute, Nagpur**
- 👉 **G E Electrical Research, Bangalore**
- 👉 **G E Energy, Bangalore**
- 👉 **Indian Space Research Organization, Ahmedabad (ISRO)**
- 👉 **DRDO, Delhi**
- 👉 **J K Tyres Ltd., Kankroli, Rajasthan**
- 👉 **Rajratan Global Wire Ltd., Indore**
- 👉 **Radhe Ind. Pvt. Ltd., Rajkot**
- 👉 **...and many others**



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