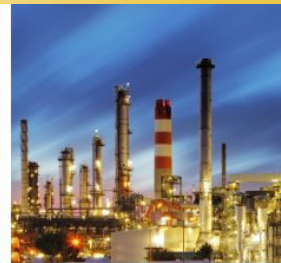




# **MifTech Solution**

*Central Water Heating System*



**AIR SOURCE HEAT PUMP  
HEATING SYSTEMS OPERATING ON  
SOLAR EXTRACTION TECHNOLOGY**

**At MifTech Solution, we don't make product; we make asset that achieve real-life measurable savings, which make a lasting impact in generating positive bottom-line growth for our clients**

We manufacture / trade energy-efficient central water heating system based on the globally-proven Heat Pump Technology. Our system presents environmental and economical benefits to our clients in the Residential, Commercial and Industrial sector.

As Energy Efficiency and cost specialist, with over 10+ year of experience team, we recognize the essential role we play in helping our customer succeed. Our commitment to customer goes far beyond the successfully delivery of a contract. Our focus is keeping customer business running 100% efficiently wherever they rely on controlled heating. We see ourselves as a vital integrant to their success and take this responsibility seriously.

Heat Pump runs on electric power, yet is more economical than solar heating system. The power consumption using heat pump for the entire 12 months is lesser than the power consumption of using back-up Heating Elements in Solar Water Heaters for the 115 days that Solar doesn't work (during monsoons and winters).

The 3rd party verification certifies the performance ratings of our products and provides our customers with confidence in the products they are purchasing and guarantees that they conform to the design specifications. Energy costs will be correctly stated and therefore the supplied product will correspond with the investment recovery projections.





# BENEFITS

## ◆ Safety and Reliability

Air Source Heat Pump Water Heater does not consume electricity to heat the water. The current and water are totally separated and has a very high safety quotient. The electric shocks, flammability, explosive possibility and other unsafe conditions which exist in electric water heaters or gas heaters don't exist in Air Source Heat Pumps

## ◆ High Efficiency and Energy Saving

Air Source Heat Pump Water Heater extracts abundant free heat energy from air. The electric energy is only used to make the compressor to transfer heat from air to water. Hence to provide the same quantity of hot water, the Air Source Heat Pump only costs one-fourth as much electricity as the traditional water heaters, which can save quite a lot of electricity for users

## ◆ Green Energy and Earth-friendly

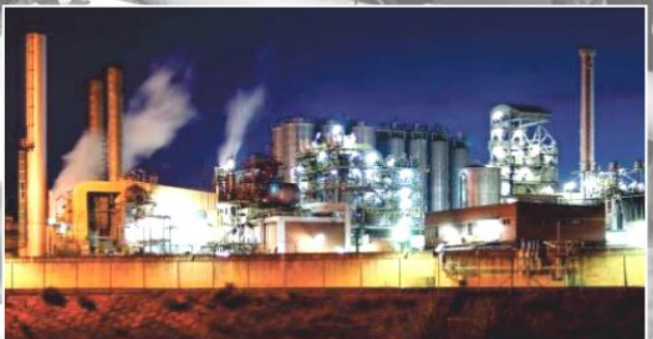
Air Source Heat Pump Water Heater utilize three types of clean energy – Solar energy, Ambient energy and Electric energy which initiate no harmful gases in the working process, and will not cause environmental pollution like oil, coal, or gas

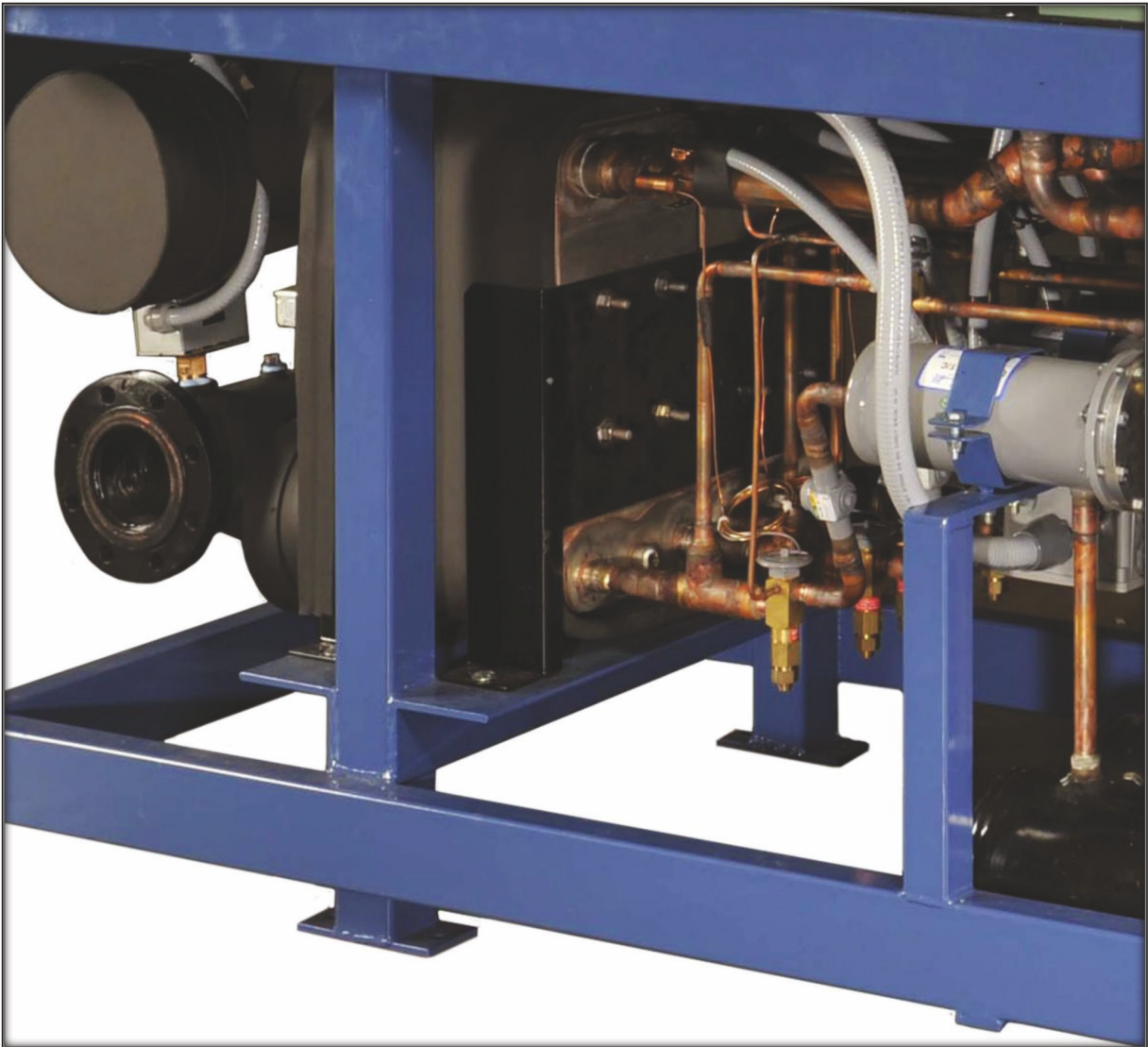
## ◆ 24 hours hot water supply

Air Source Heat Pump Water Heater will not be affected by severe weather such as overcast or rain. It can be used throughout the day

## ◆ Multiple Safety Protection Devices and Functions

The unit includes compressor overload protection, overflow protection, overheating protection and 3 minutes prolonged starting machine protection, HV protection, low pressure protection, phase drop/converse protection, temperature sensor protection, and it also has auto defrosting, clock and rated time on/off functions. A well installed and well maintained Heat Pump will give you years of trouble free performance





IN ORDER TO FULLY UNDERSTAND  
YOUR REQUIREMENT AND APPLICATION,  
A FREE NO-OBLIGATION SITE VISIT IS RECOMMENDED.

This will allow our experts to carry out an energy analysis to provide the most suitable solution for your application and also determine how much energy and money you will be saving by switching to a customized MifTech heating solution.



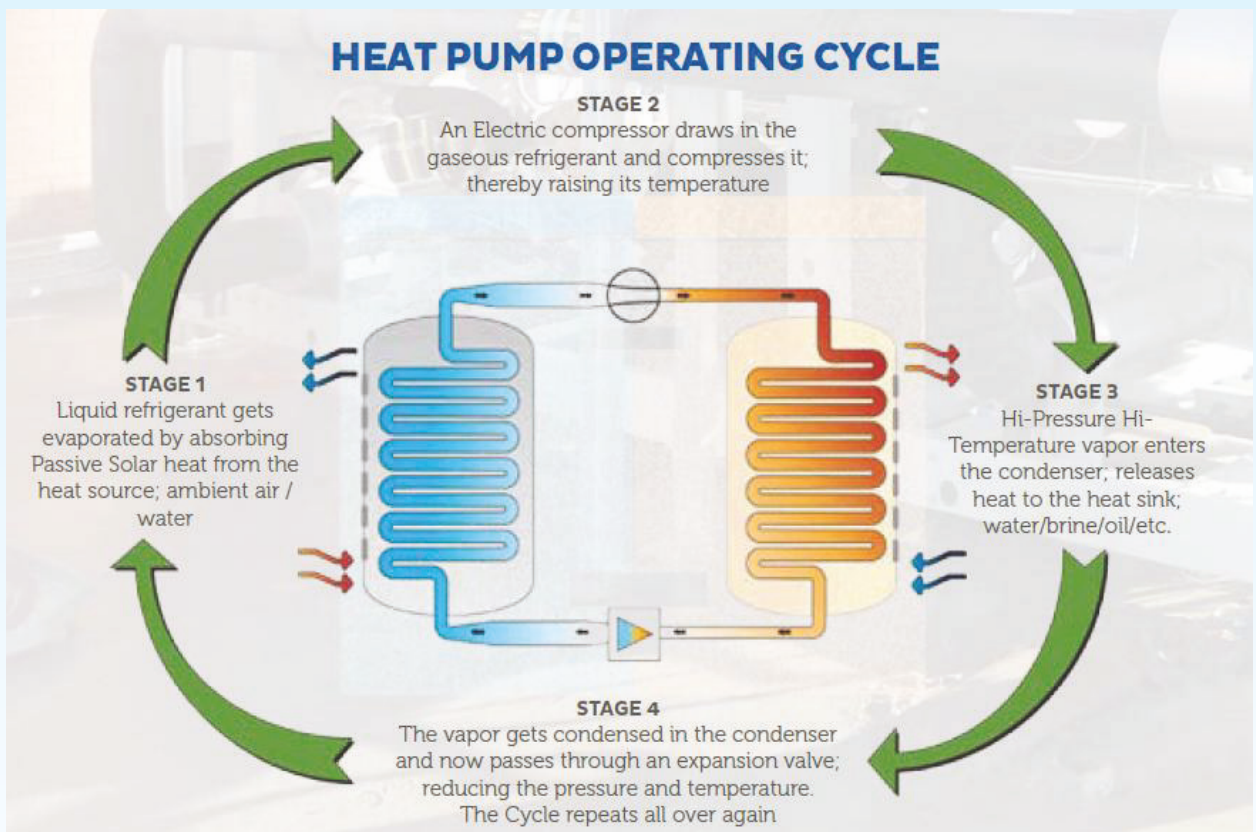
## HEAT PUMPS OPERATING CYCLE

Heat pumps work on the basic principle of heat transfer.

This means that rather than use electricity or burn fuel to create heat, Heat Pumps only “transport” heat energy from one place to another.

**A heat pump doesn't create Heat, It use a small amount of electrical energy to pump a heat transfer medium by the compressor through the evaporator to extract passive solar heat from a freely available heat source; ambient air or water; and pump it through the condenser; a liquid heat exchanger to transfer the heat to a heat sink, like a water tank or a swimming pool**

An air conditioner is a form of heat pump. It “extracts” heat from indoors and pumps it to the outside. So, on the indoor side, the evaporator makes the room cooler, and transfers the extracted heat to the outdoor side, the condenser.





### **Swimming Pool Air Source Heat Pump- Vertical Blowing Big model big capacity:**

How does a swimming pool heat pump work? MifTech swimming pool heat pumps make use of the renewable energy stored in the ambient air and transfer it to useful energy at the cost of very little electricity consumption. This innovative technology makes the efficiency of MifTech swimming pool heat pumps more than 5 times of traditional electric heating devices. How much can you save ? Within the permitted operating range, MifTech swimming pool heat pumps work with extremely high efficiency and can greatly reduce your energy bill. Flexible model.



### **Domestic Air Source Heat Pump:**

Your best choice for domestic hot water is Domestic heat pumps from MifTech intend to provide the most environmental solution for the domestic hot water. By replacing the existed central hot water devices such as electric Heater, boilers, Greaser, oil boilers etc, more than 70% of the energy required for domestic hot water can be taken from renewable source instead of electricity heating or fossil fuel burning. This almighty heat pump also can be used as an energy saving heating device in many places, e.g. as a second heat source of a solar heating.



### **Commercial Air Source Heat Pump:**

Powerful Heat Pumps for Commercial Hot Water System. According to some investigation, this percentage can even be as high as 50% in some hotels, nursing homes, hospitals etc. Heat pumps, however, generate hot water with renewable energy are especially suitable for commercial hot water project. Using MifTech heat pumps as the heating devices or replacing those existed boilers in commercial buildings makes great benefits in economic and environmental prospects with large capacity.



# HEAT PUMPS ENERGY EFFICIENCY & SAVINGS

75% Energy Savings compared to conventional heating systems The Sun heats our planet actively during the day; but even after the Sun sets, there is a large amount of passive solar energy stored in our surroundings; even in freezing climates. Only below  $-273^{\circ}\text{C}$ , the Absolute Zero point, there is no heat.



A Heat Pump consumes electrical energy to extract heat energy from a freely available heat source like the ambient air or water and transfers that energy to a Heat Sink.

A conventional heater/boiler always has efficiency losses. Therefore, a boiler produces less than 100% utilizable heat from 100% primary energy input. Its primary energy ratio (PER) is below 1. This means an indefensible waste of energy.

Paid Energy Input

Useful Energy Output

To transfer every 3 units of free energy to the heat sink, a Heat Pump consumes only 1 unit of electrical energy. You pay for 1 input unit and effectively get 4 output units, an unmatched CoP [Co-efficient of Performance] of 4.

75% Energy Savings compared to conventional heating systems

1 Unit Paid Energy

(3 Units Passive Solar Energy (Free Energy from air/water/etc.))

4 Units Useful Energy Output



***MifTech* Solution**

*Central Water Heating System*

Location : Badsha Complex, Near RTO, Katedan Industrial Road,  
Mailardevpally, Rajender Nagar, Ranga Reddy Dist. 500005 Telangana

Cell : +91 888 670 9911 | E-mail : [miftechsolution@gmail.com](mailto:miftechsolution@gmail.com)

Website : [miftechsolution.com](http://miftechsolution.com)