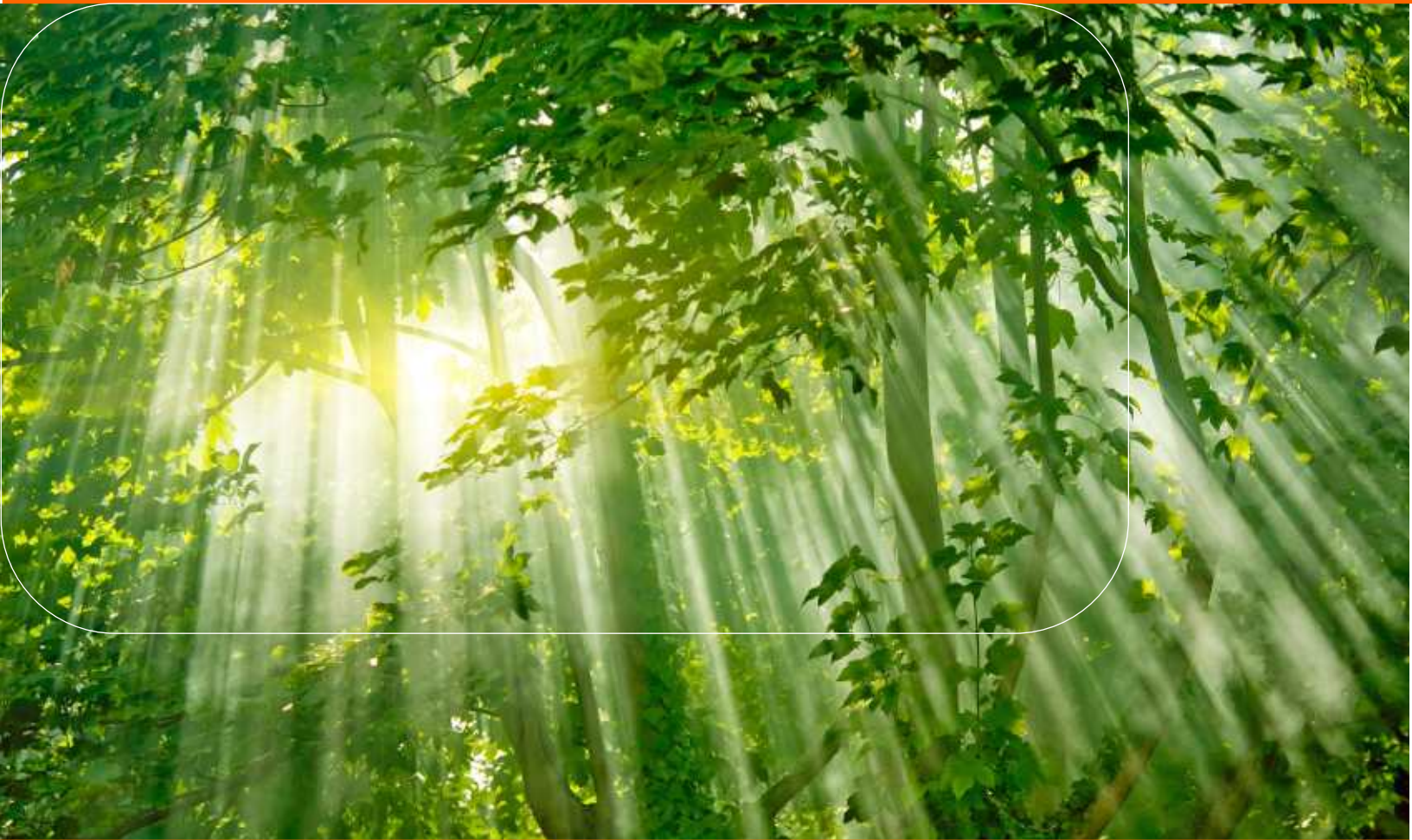


HEAT ENERGY for Free



ALLDELITE HEAT PUMPS

New Generation Heat Pumps - Designed for Energy Efficiency



Alldelite Group

Founded in 1999 and grown with many branches and divisions, now Alldelite consists of different companies and branches. Alldelite, managed and run by a Group of Professionals, having its offices in Chennai, Cochin, Hyderabad and Bangalore, has associate offices in most of the major cities in India.

Alldelite Heat Pumps Limited is a prominent member of Alldelite Group, and is focusing on renewable energy, specially Heat Pumps.

The goal of Alldelite Heat Pumps Limited is Success that builds on Customer Benefits and Social Responsibility. The route to achieving this is through better service and more efficient use of energy.

Alldelite Heat Pumps Limited would strive to help the customers to use more efficient and balanced use of energy mix to save the cost, save the environment and use their resources more efficiently.

Hotels, Hostels, Hospitals and Houses, wherever Hot water is required in large quantity, will be benefited with the offerings of Alldelite Heat Pumps Limited.



**When people look around from window,
what they see - Buildings and Roads ?**

**What We at Aldelite see is
a free source of energy – the Air.**

Believe it or not, you can actually use the outside air, one of nature's totally free gifts, to heat water. Even at low temperatures, ambient air contains heat. When you concentrate that heat using an Aldelite Heat Pump, you can get enough out of it to heat up water for your Hotel, Hostel, Hospital and Houses.

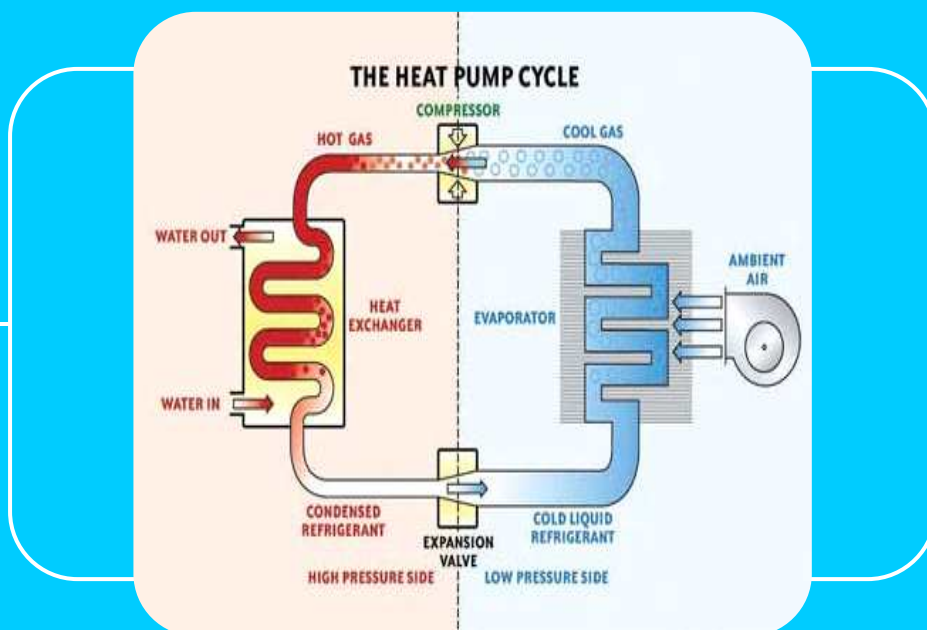
Cool Air that comes out as by-product also can be used to cool part of the building. It is amazing, but true. Heat Pumps Technology is used for over 30 years and we have the pleasure of marketing them in India.



How do we get Heat from Air?

Heat pump technology is actually based on a very simple, well known principle. It works in a similar way to any domestic refrigerator, using a vapour compression cycle.

The main components in the heat pump are the compressor, the expansion valve and two heat exchangers (an evaporator and a condenser)



A fan draws the outdoor air into the heat pump where it meets the evaporator. This is connected in a closed system containing a refrigerant that can turn into gas at very low temperatures. When the outdoor air hits the evaporator the refrigerant will turn into gas.

Then, using a compressor, the gas reaches a high enough temperature to be transferred in the condenser to the heating system. At the same time the refrigerant reverts to liquid form, ready to turn into gas once more and to collect new heat.



▶ **Cost Effective** ▶ **Eco Friendly** ▶ **Energy Efficient**



You Save Money

AllDelite Heat Pumps make hot water - very economical. You can reduce your heating costs by up to 65%. Variance can depend on several factors such as where the property is located, size of the property whether or not you use the system for cooling too.

The efficiency of AllDelite Heat Pumps positively impacts the speed with which you recover your investment. With energy prices continually rising, you will be happy about your decision. In fact you will start enjoying the savings from the first day.



You reduce CO2 emissions

Another very good reason for choosing an AllDelite Heat Pump is that it has a very low environmental impact. In fact, installing an AllDelite Heat Pump can cut your property's CO2 emissions in half. This is mainly because there is no combustion process involved; the heat pump merely upgrades naturally occurring energy from the air outside to heat the water.

This leads to much lower CO2 emissions than any traditional fossil-fuel based heating system and explains why AllDelite Heat Pumps are classified as renewable energy source.



More Good Reasons to Install Aldelite Heat Pumps

- Aldelite Heat Pumps work all through the year including monsoon and winter
- Aldelite Heat Pumps do not occupy much space like solar panels
- Aldelite Heat Pumps can be combined with a variety of different energy sources
- Aldelite Heat Pumps do not need gas/diesel supply
- Aldelite Heat Pumps do not need ventilation, or chimney
- Aldelite Heat Pumps give you clean and discreet heating
- Aldelite Heat Pumps are built to last so you can relax and enjoy cost-effective, hassle free heating for years to come
- Aldelite Heat Pumps are easy to install, operate and maintain
- Aldelite Heat Pumps can be installed on almost any kind of terrain





Frequently Asked Questions about Air Source Heat Pumps

How do Alldelite Heat Pumps compare with traditional boilers?

To put it simply Alldelite Heat Pumps are three times more efficient. Here below, a comparison is given.

- **With Conventional Diesel, LPG, CNG boilers:**
1 KWh of input energy = Less than 1 KWh of output energy.
- **With Alldelite Heat Pumps:**
1 KWh of input energy = 3 KWh of output energy.

There is no escaping the obvious conclusion – A Heat Pump is absolute best way to get low cost heating Hot Water.

How is the heat transferred into water?

The earth, water and air have the ability to absorb and store heat from the sun. For example, in the case of an air source heat pump this harnesses solar energy found in the outdoor air.

Where should I put a heat pump?

In any place whichever is convenient for you- either in the top floor or even in cellar.

Do they make much noise?

No, they hum like a large refrigerator. The units we supply have been made in such a way to reduce major noise and vibration.

To what temperature Alldelite Heat Pump will provide hot water?

With the correct design and equipment, all hot water requirements would be provided by Alldelite heat pump throughout the year. Alldelite Heat pumps produce water at a lower temperature than boiler systems. You will notice that you do not have to add as much cold water to your baths and showers. The aim is to save money and energy with Alldelite Heat Pump. There is no point in taking water to temperatures that can't be used anyway (above 55°C).

Can comfort cooling be generated from Alldelite Heat Pump System?

Yes, this can be achieved from air source heat pump system.

Can I heat a swimming pool?

Yes, a system can be designed purely for an indoor or outdoor pool or integrate it with a heating and hot water system for the whole of your property.

How much it will cost to make 1liter hot water with Alldelite Heat Pumps ?

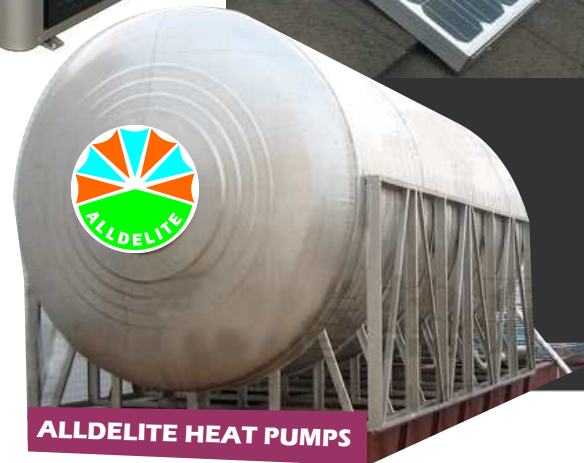
With Alldelite Heat Pumps to Heat 1 liter water from 25⁰c to 55⁰c approximate cost would be 8 paise compared to 16 paise by diesel 24 paise by electric geysers*

* Values are approximate. Variation can be based on local fuel and electricity cost

Choose your system

Range of Alldelite Heat Pumps

PRODUCTS	DESCRIPTION
MULTIBEN	HEAT PUMP SYSTEM
MULTIBEN PLUS	HEAT PUMP SYSTEM + INSULATED TANK
MULTIBEN SOLAR	HEAT PUMP SYSTEM + SOLAR PANELS
MULTIBEN SOLAR PLUS	HEAT PUMP SYSTEM + INSULATED TANK+ SOLAR PANELS



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