AIR SOURCE HEAT PUMP

Hot Water Generation System

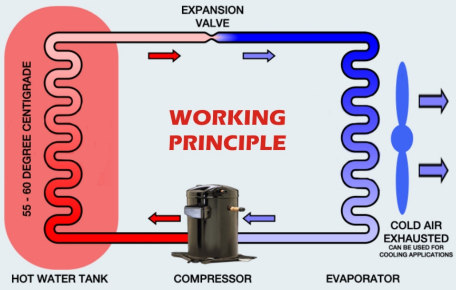
MAMATA ENERGY
Powering a Greener Future

THE MAMATA ENERGY HEAT PUMP USES HIGHLY ENERGY EFFICIENT VAPOR COMPRESSION TECHNOLOGY WITH A HIGH COEFFICIENT OF PERFORMANCE (C.O.P.)

* *24 HOURS HOT WATER SUPPLY EVEN AT SUB-ZERO TEMPERATURES AND IN THE ABSENCE OF SUNLIGHT*
* *1/4th POWER CONSUMPTION COMPARED TO CONVENTIONAL ELECTRIC GEYSER*
* *CAPACITIES VARYING FROM 1000 LITRES TO 50,000 LITRES*
* *SMALL FOOT PRINT AREA(40000 LITRE SYSTEM REQUIRES AROUND 40 SQ.FT. FOOTPRINT AREA).*
* *80% DEPRECIATION CAN BE CLAIMED IN THE FIRST YEAR*

Applications

Residential | Kitchens | Industrial | Hotels & Buildings | Hospitals



A heat pump uses the vapor compression cycle to absorb heat from its surroundings and pass it to water. Its functioning is the inverse of that of an air conditioner. Refrigerant gas is circulate through copper tubes using a compressor. The expansion valve increases gas pressure in the evaporator coils due to which it absorbs heat energy from the surrounding hot air and evaporates. This hot gas is then pumped to the condenser coils in the water tank to heat up the water. By-product of this cycle is cold air that can be used for dehumidification.

Installations

MAMATA ENERGY PVT. LTD.

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