Solution to economical, effective and sustainable heating

decacooL Air source Heat Pump Water Heaters

With the ever demanding and fast lifestyle, running hot water has become a daily necessity. decacooL air source heat pump water heater is a perfect solution for readily available running hot water for your direct use! With extremely affordable running costs, plug and play installation and negligible maintenance, decacooL heat pump is a classic alternative to the traditional geyser system, which is high energy consuming and has limited supply of hot water at a given time. Our heat pump is an all-weather solution to your daily needs.

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decacooL Heat Pump Features –

- ***Environment friendly refrigerant*** in our product ensures sustainability.
- ***Auto defrost sensors*** for protection against freezing and protects the equipment, ensuring the maintenance and cleaning intervals do not arise frequently.
- ***Backup electric heater*** ensures you get heated water even with continuous use.
- Switch on the ***ECO mode*** in heat pump (when limited use) for economy operation.
- ***Auto mode*** combines the working of Heat pump and Electric heater for uninterrupted hot water supply.
- ***Enamel glass line coated tank*** ensures long durability of hot water storage tank.
- 50mm thick, ***High density puff insulation*** in storage tank assures better insulation and power saving.
- Mg Anode rod in tank gives our product ***extended corrosion protection***, even with use of hard water.
- ***Smart digital controller*** is user friendly and gives the user full control of all settings!
- ***Coil in Tube heat exchanger***, Stainless steel tube (shell) ensures long life and copper tube heat exchanger ensures efficient heat transfer.

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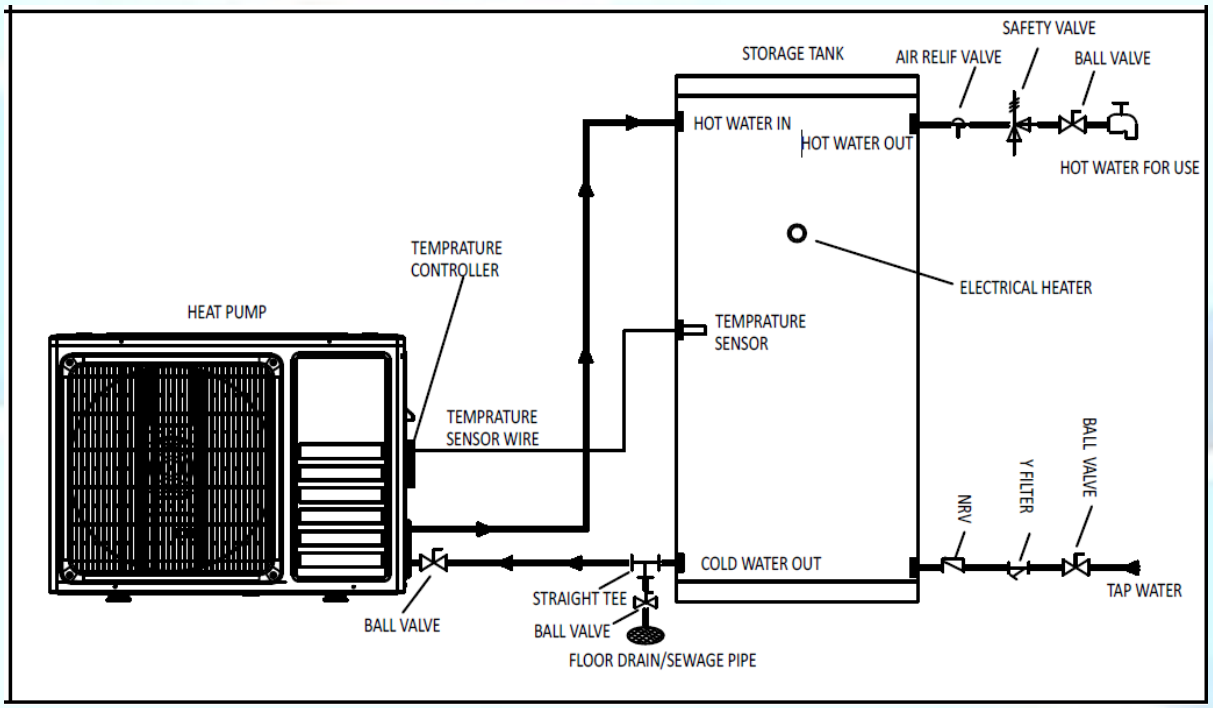
decacooL Heat Pump Working Principle –

Heat pumps use gas refrigerant for its operations. In the whole circuit, when the low temperature refrigerant gas flows through the evaporator, it absorbs readily available free heat from the atmosphere and then is compressed by the compressor into a high pressure, high temperature vapour. It then flows through the heat exchanger where heat from the refrigerant gas is transferred (exchanged) to the water in the storage tank. The refrigerant temperature decreases and then it is passed through the expansion valve, where the refrigerant transforms into a low temperature gas, ready to again go back in the evaporator for absorbing the atmosphere heat. This repeated cycle makes sure that the water in the storage tank is heated.



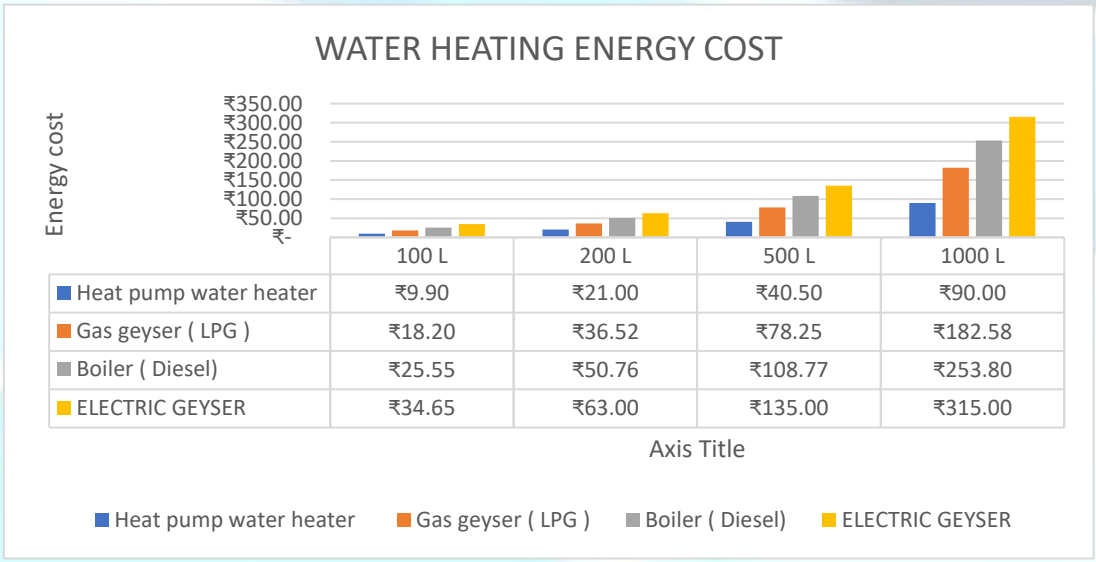
Applications –

- Residential bungalows, Swimming pools
- Apartments, Hospitals
- Hotels, resorts, Industrial applications

decacooL Heat Pump Specifications -

Model	DC-12-HP-300	DC-24-HP-500	DC-60-HP-1000
Tank Capacity (litre)	300	500	1000
Product configuration	SPLIT	SPLIT	SPLIT
Temperature rise per hour	10-12 degrees	10-12 degrees	10-12 degrees
COP	4.1	4.1	4.1
Heating element (Kw)	1.5	3	3
Refrigerant	R 32	R32	R22/ R32 / R410
Dimensions (LXWXH) in mm	820 X 300 X 595	950 X 400X 650	1050 x 650 x 850
Insulated tank coating	Enamel coated	Enamel coated	Enamel coated
Insulation thickness	50	50	50
Power supply	230 V, 50 Hz	230 V, 50 Hz	230 V, 50 Hz
Anode	Mg	Mg	Mg
Max temperature setting- HP	55	55	55
Max temperature setting- Electric heating	75	75	75
Power output W	3600	6800	17500
Power input W	900	2100	4600
Current (A)	4	9.3	12.4
Water circulation pump	Internal	External	External
Pump LPM	16	16	24
Water in / out	3/4 inch	3/4 inch	1 inch
Compressor type	Rotary	Rotary	Recip / scroll
Heat pump weight (kg)	50	65	130

Cost comparison: traditional heating and decacooL Heat Pump –



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For more information -

Kale Group of Industries commenced its activities in 1996 with a powder surface coating division. With its consistent pricing, high quality standards and just in time deliveries, Kale Group is now operating from 11 locations pan India. Kale group has its presence in three main product verticals –

- **Refrigeration**: Roll bond evaporators, fin evaporators, filter driers, Cu-Al suction assembly, sheet metal press components (painted and unpainted), aluminium tubes, water chillers, oil chillers.
- **Air conditioning**: Air conditioner ODU, IDU, Heat pumps, connecting kit, heat exchanger coils, return bends, header assembly.
- **Electrical**: Metal flush boxes, surface boxes, distribution boxes (standard and non-standard)

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