



GENESIS

AIR SOURCE
HEAT PUMPS



For a Green World



Heat Pumps are better for the environment than any other heating and cooling system



The main advantage of an HP compared to other HVAC systems is their efficiency HP are more efficient than traditional heating systems.

HP doesn't only heat the room, but also supplies hot water required for domestic use at the same time. HP can also be used for cooling during the summer

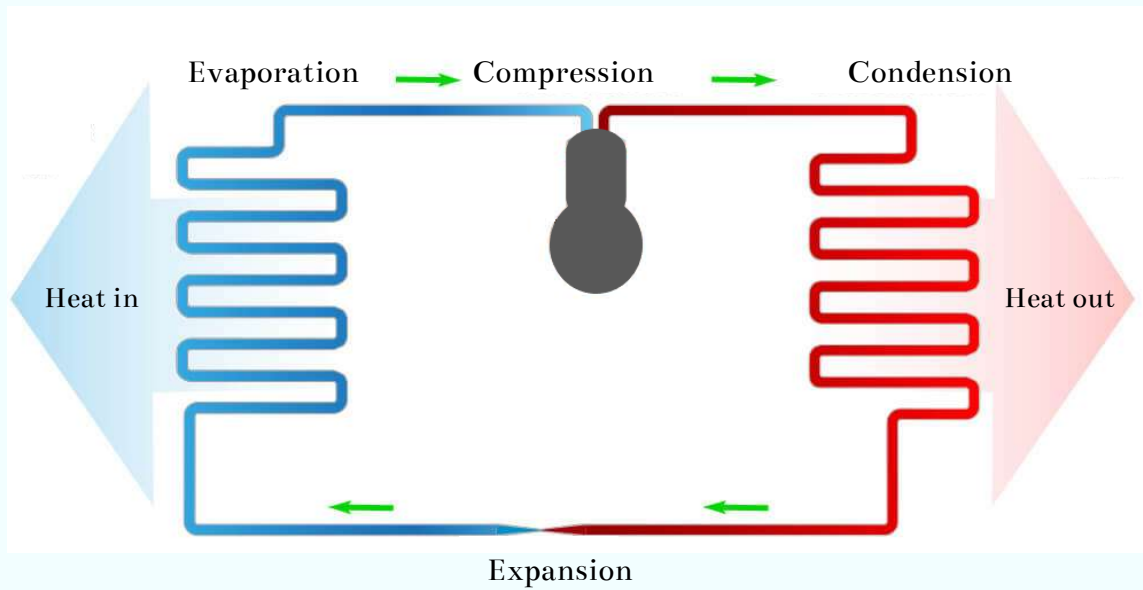
HP produce less emissions.

HP don't use fossil fuels .

HP are the most efficient option that can be paired with renewable energy such as rooftop or shared solar power.

HP are silence systems.

How Does a Heat Pump Work ?



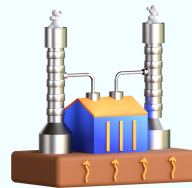
HP are home appliances that can both heat and cool a home uses technology similar to that found in air conditioner. It extracts heat from a source



Ground



Air



Geothermal



Water

The refrigerant in the evaporator is evaporated by the energy transferred from the air. In the compressor, the gaseous refrigerant is compressed. Its pressure and temperature increase. The refrigerant passing through the compressor reaches the condenser and the water in the condenser transfers its heat to the heating system cycle with the help of the plate heat exchanger. The refrigerant, which is cooled by the heat transfer occurring at this point, condenses and passes into the liquid phase again. The pressure in the expansion valve is then reduced and the low temperature refrigerant thus completes the cycle

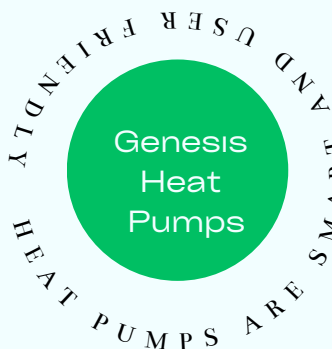
In cooling mode, HP absorbs heat inside the home and releases it outdoors.
In heating mode, HP absorbs heat from the outside air and releases it indoors.



silence operation



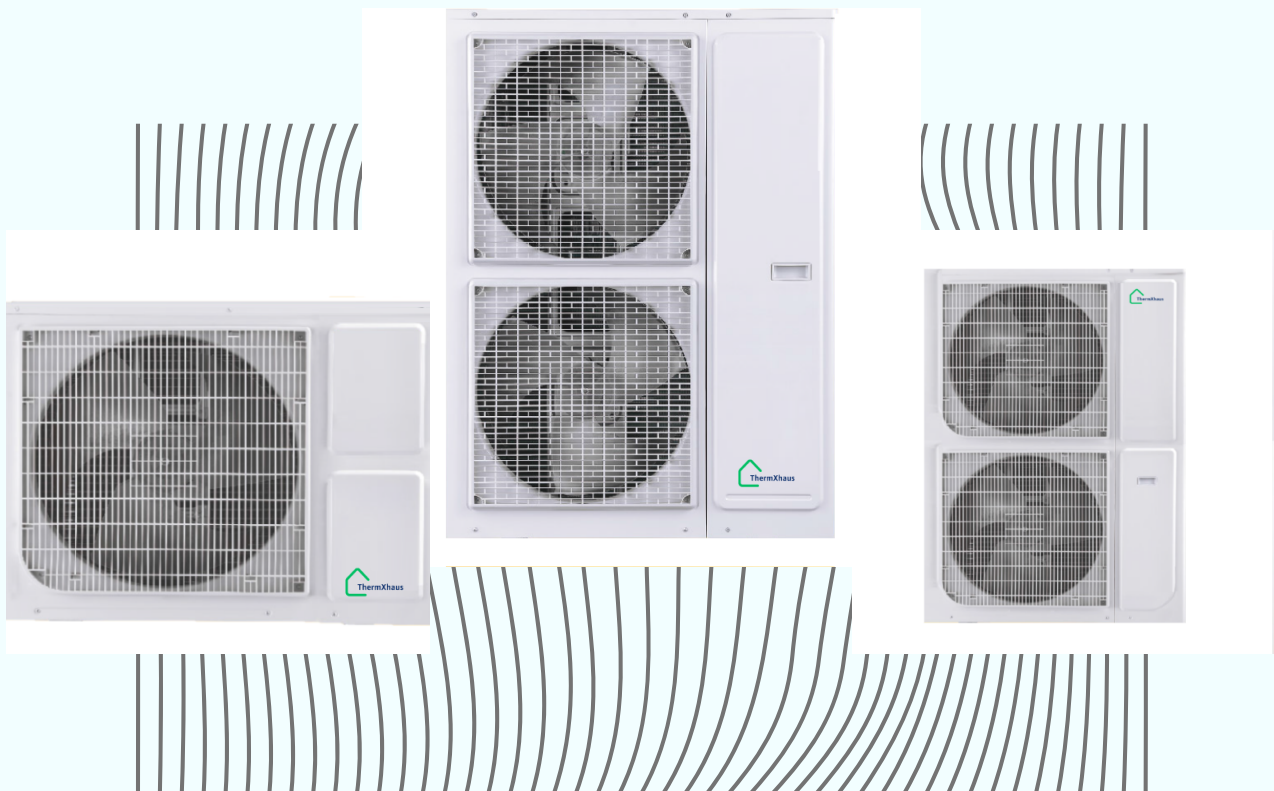
low temperature heating



24 hours programme



remote control



Outstanding Features

- Easy assembly and low installation cost due to its compact structure.
- Wider outdoor temperature operating range in heating mode.
- Outlet water temperature up to 80°C.
- Cascade up to 4 devices
- Options for use as needed (based on outlet water temperature and room temperature and with external room thermostat)
- Wide range of capacity
- Touch control panel with cables that can be used as Room Thermostat
- High convenience of hot water with 65°C outlet water temperature
- Domestic hot water with legionella programme
- Special operating modes (holiday mode, comfort mode, etc.)

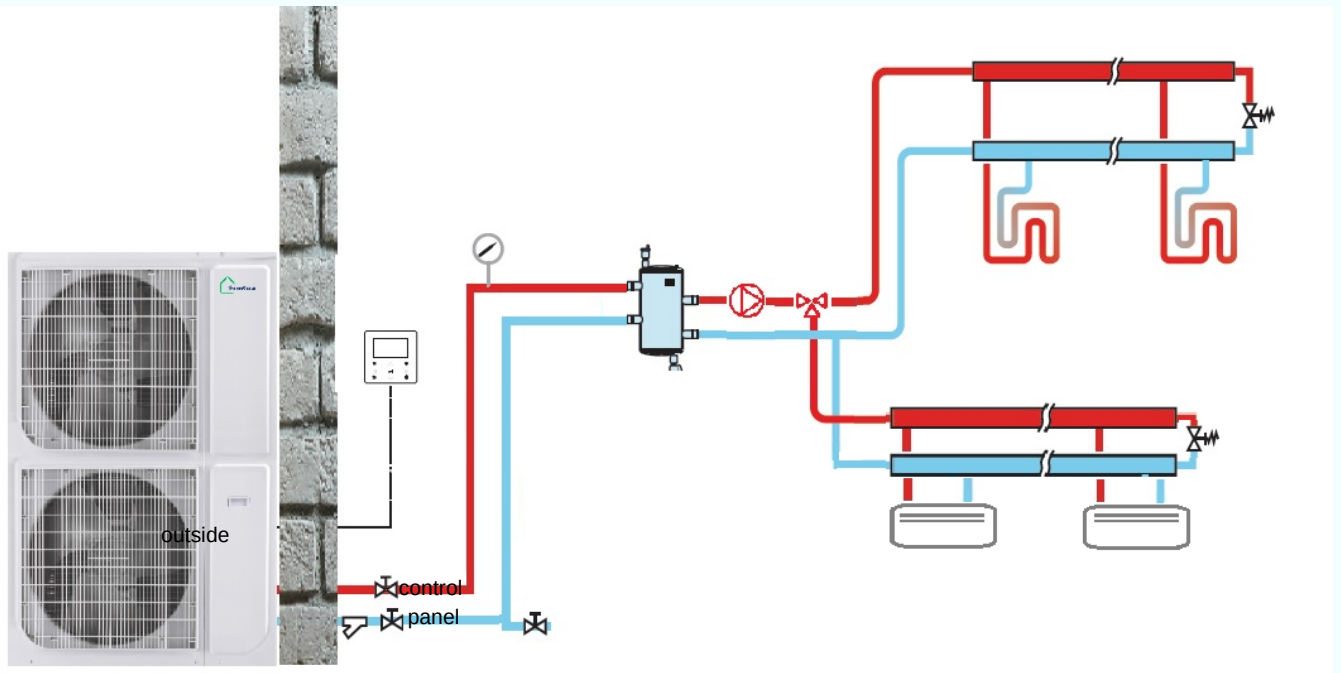
Genesis HP Operation Temperature Range

Heating : -20 ~ 35°C
Cooling : -15 ~ 43°C
DHW : -20 ~ 55°C

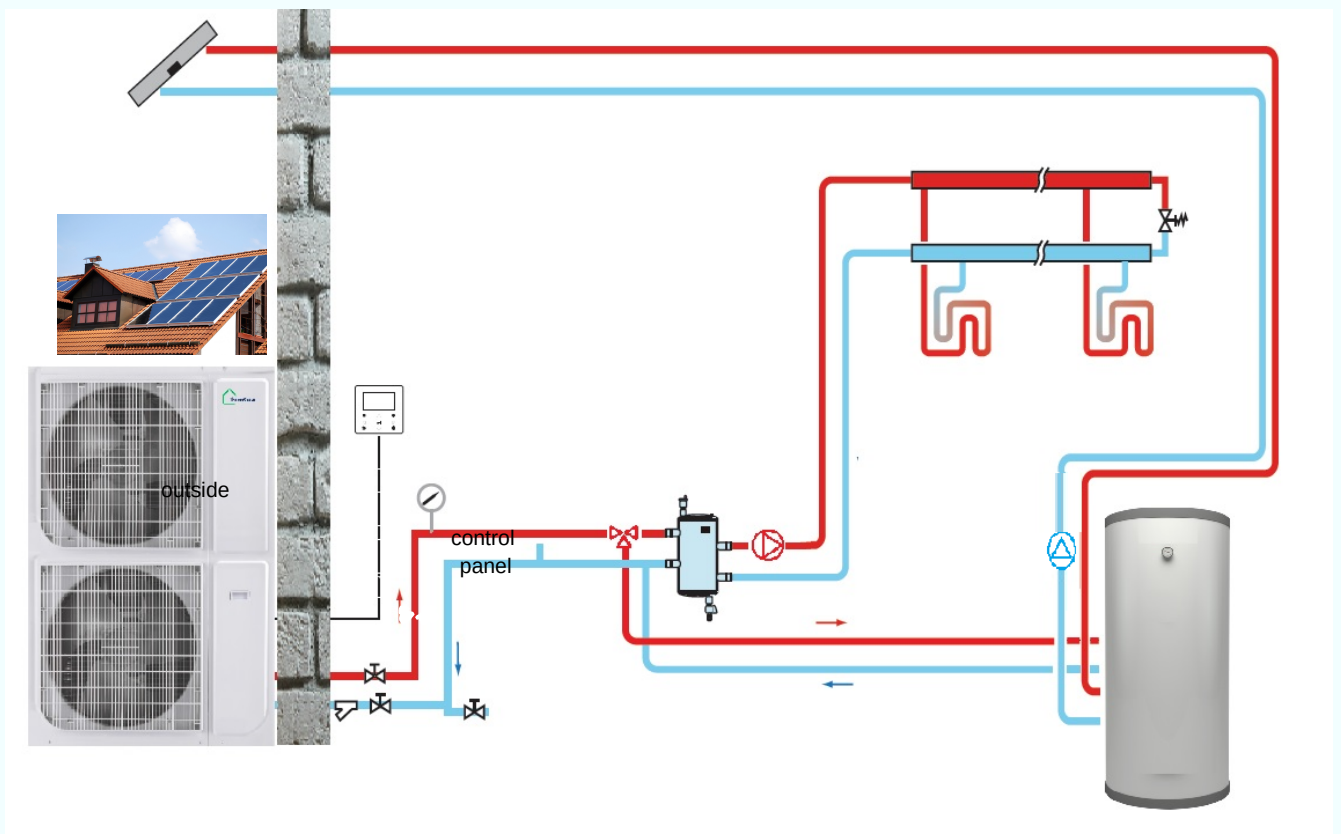
Operation Modes

- Heating • Cooling • DHW • Heating + DHW • Cooling + DHW

Monoblock Invertor Heat Pump Systems



Heating & Cooling



Heating & DHW with Solar Panel

Technical Specifications

| MODELS | | | GHP 07 | GHP 09 | GHP 14 | GHP 15 | GHP 17 |
|--------------------------------------|---------------------|---------|-------------|--------|--------|--------|--------|
| Heating | Nominal Capacity | W | 7200 | 8500 | 13500 | 15000 | 17000 |
| | Nominal Input Power | W | 1750 | 2100 | 3300 | 3700 | 4200 |
| | COP | | 4,11 | 4,05 | 4,09 | 4,05 | 4,05 |
| Cooling | Nominal Capacity | kW | 5300 | 7000 | 9000 | 10000 | 11000 |
| | Nominal Input Power | kW | 2000 | 2670 | 3450 | 3800 | 4200 |
| | EER | | 2,65 | 2,62 | 2,61 | 2,63 | 2,62 |
| Ambient Air Operating Range | Heating | °C | -20/35 | | | | |
| | Cooling | °C | -5/43 | | | | |
| | Domestic Hot Water | °C | -20/43 | | | | |
| Outlet Water Temperature Range | Heating | °C | 20/65 | | | | |
| | Cooling | °C | 5/25 | | | | |
| | Domestic Hot Water | °C | 15/55 | | | | |
| Refrigerant Type | | | R410A | | | | |
| Charging Volume | | kg | 1,25 | 1,50 | 2,30 | 2,50 | 3,10 |
| Recommended Fuse | | A | 16 | 16 | 28 | 30 | 40 |
| Sound Power Level (EN12102-1) | | dB(A) | 59 | 59 | 61 | 61 | 61 |
| Power Supply | | V/Ph/Hz | 220V ~ 50Hz | | | | |
| Dimensions | Length | mm | 950 | 950 | 980 | 980 | 980 |
| | Width | mm | 430 | 430 | 420 | 420 | 420 |
| | Height | mm | 710 | 710 | 1265 | 1265 | 1370 |
| Water Pipe Connection (Inlet-outlet) | | inch | DN 25 | DN 25 | DN 25 | DN 25 | DN 32 |
| Weight Net | | kg | 48 | 52 | 90 | 94 | 108 |
| Air Flow Rate | | m3 /h | 0,89 | 1,24 | 1,72 | 1,98 | 2,41 |
| IP Class | | IPx4 | | | | | |

