SMART HEAT PUMP WATER HEATER

COMPANY PROFILE

With over 30 years of experience in the industry, we design heat pumps that deliver excellent performance. Our in-house team uses advanced tools like AI and ML to create efficient solutions tailored to Indian conditions, constantly innovating to enhance efficiency and durability.

Reliable and easy to maintain; designed for safe operation

60°C hot water available 24/7; independent of weather conditions

Automatic defrost module for low ambient operation

Reliable & High Efficiency design

Significant energy savings, up to 75-85% compared to traditional heating systems

Adjustable water temp. and accurate temperature control

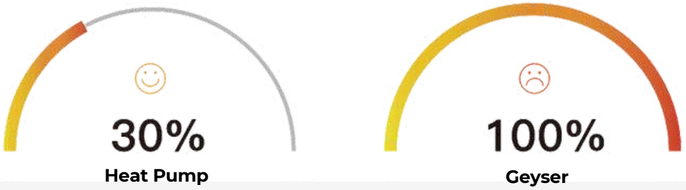
Designed & manufactured In india; customized for your requirement

Corrosion-proof galvanized, powder-coated steel chassis with polyester coating

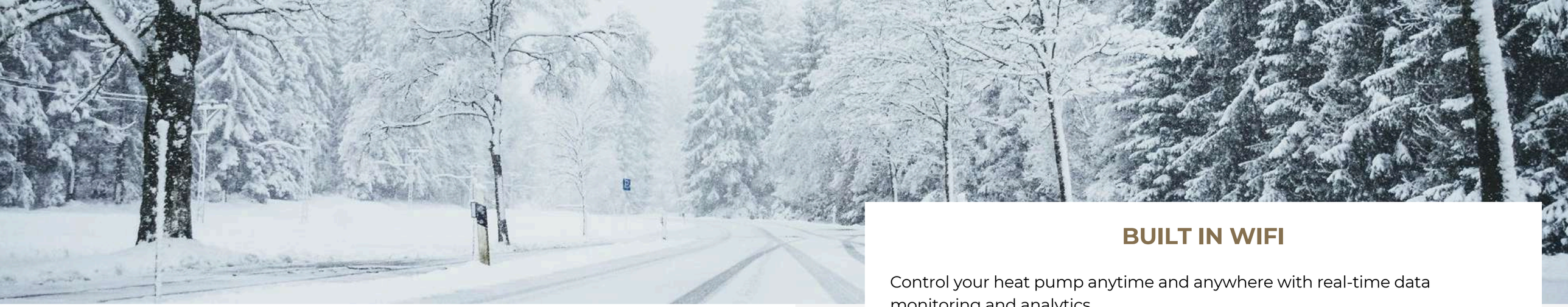
IS HEAT PUMP WORTH IT ?

	HEAT PUMP	GEYSER	LPG	PNG
	₹10	₹37	₹32	₹26
Efficiency	350 %	95 %	90 %	90 %
Energy Usage	1.67	6.33	6.28	4.95
Eco Friendly	Yes	No	No	No
Maintenance	Low	Moderate	High	Moderate
Lifespan	15+	5-8	7-10s	8-12
Cost/Unit	₹ 10	₹ 10	₹ 90	₹ 10
Total Cost/Day	498	1,810	1,494	1,836
Total Cost/Month	14,950	55,080	55,080	55,080
Total Cost/Year	1,79,402	6,60,954	5,67,226	4,03,361

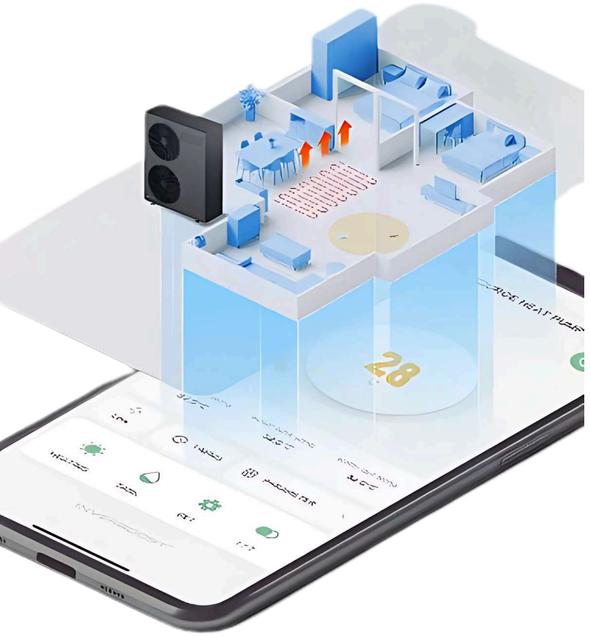
1/3rd Running Cost



Above Calculations are based on following Data Quantity of Hot water Estimated (Liters.) 5000; Cold Water Inlet Temperature (Degree centigrade) 20; Hot water Temperature (Degree centigrade) 50



INTELLIGENT CONTROL SYSTEM



- Real-Time Data Monitoring and Analytics
- AI Driven Data insights and alerts
- Automated Alerts system enabling diagnosis and preventive care.
- Personalized, Secure & Reliable Dashboard
- check energy consumption curve during the week

BUILT IN WIFI

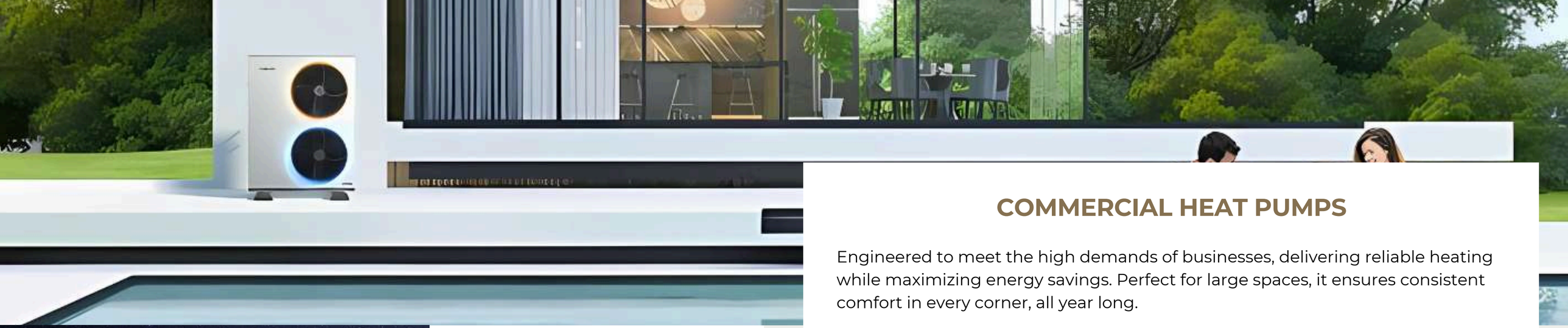
Control your heat pump anytime and anywhere with real-time data monitoring and analytics

- Switch ON/OFF
- Cloud-based data storage
- Set temperature & data
- Check running status of heat pump
- Automated diagnosis system

HOT & COLD HEAT PUMP

Introducing our revolutionary Hot & Cold Heat Pumps—designed for ultimate year-round comfort. Get hot water in winter, cool water in summer, all while saving on energy.

- Dual Functionality
- All-Season Heat Exchanger
- Smart Defrost System
- Year-Round Operation
- Wide Operating Range



COMMERCIAL HEAT PUMPS

Engineered to meet the high demands of businesses, delivering reliable heating while maximizing energy savings. Perfect for large spaces, it ensures consistent comfort in every corner, all year long.

- Smart Defrost System
- Titanium Heat Exchanger
- Smart Control System
- Turbo Boost mode for instant heating
- Long life with industrial grade material
- Multiple water tank option

APPLICATIONS

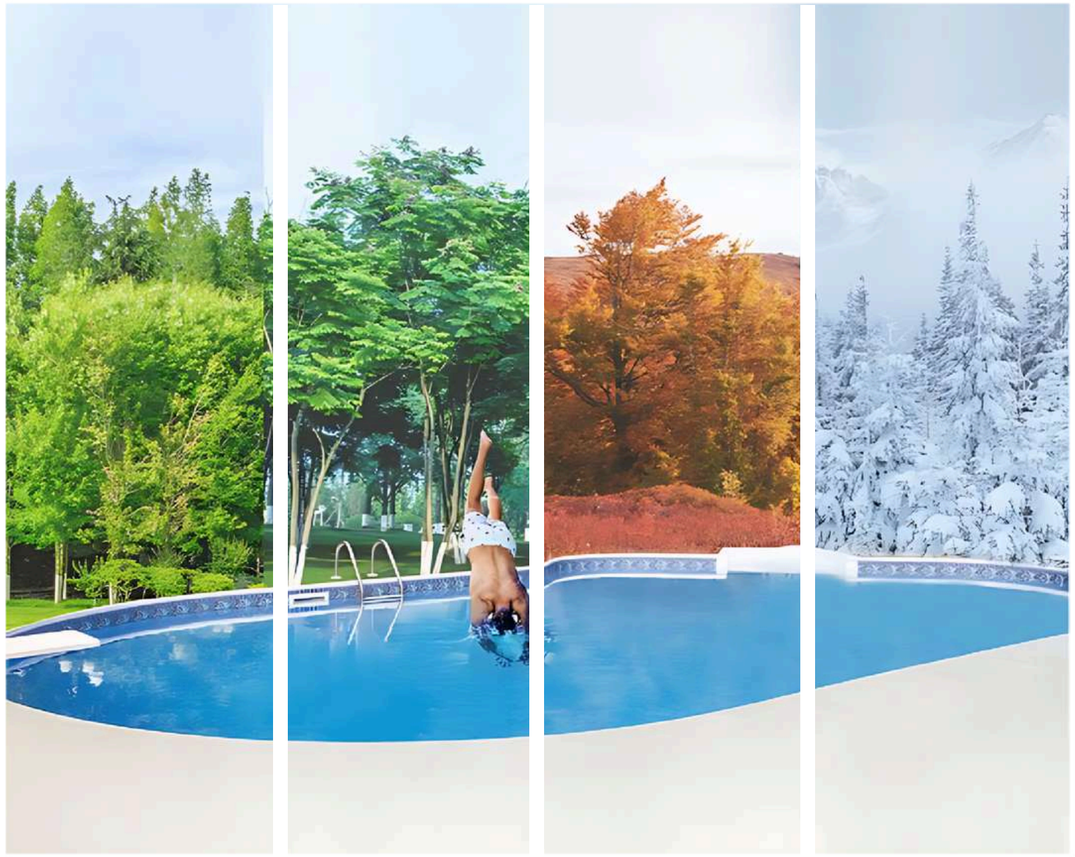
- Hotels
- Resorts
- Hospitals
- Boarding Schools
- Hostel / PG
- Temples
- Apartment Complexes

SWIMMING POOL HEAT PUMPS

MAXIMIZE ENERGY SAVINGS

LUXURY SWIMMING POOL EXPERIENCE

FOR ALL WEATHER CONDITIONS



TITANIUM HEAT EXCHANGER
FOR CORROSION RESISTANCE

INTELLIGENT & AUTOMATIC
DEFROSTING SYSTEM

OPERATION DOWN TO
-12C AMBIENT TEMP

ADVANCE CONTROL
SYSTEM WITH REAL TIME
MONITORING

RESIDENTIAL HEAT PUMP

Corrosion Resistance technology

Build to withstand hard water problem

Smart control system

Real time monitoring with analytics

Instant Hot water

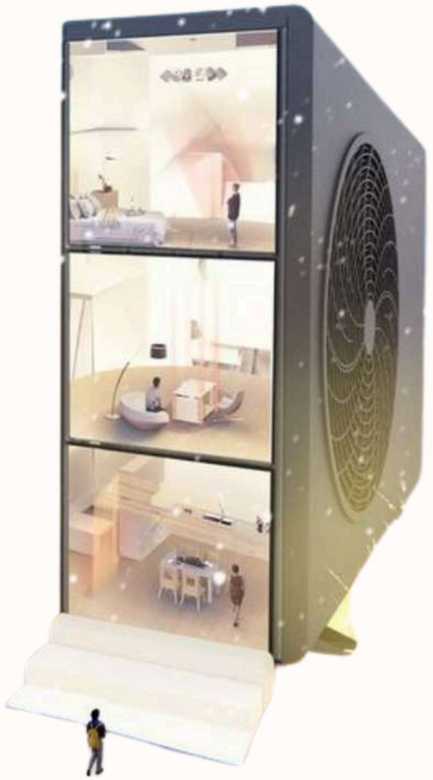
enjoy instant hot water without any delays

Massive Energy savings

Save upto 80% Electricity cost

Long lIfe with industrial grade material

Built to last forever with industrial grade materials



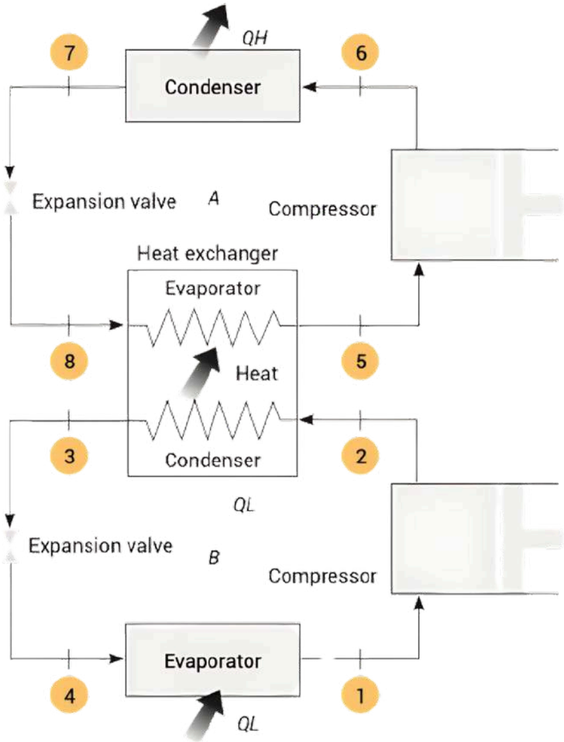
ULTRA LOW TEMPERATURE HEAT PUMP

The cascading heat pump is built to deliver reliable hot water, even in freezing temperatures as low as -50°C. Its advanced design ensures efficient heating performance, making it dependable in the most challenging cold climates.

Hilly Areas

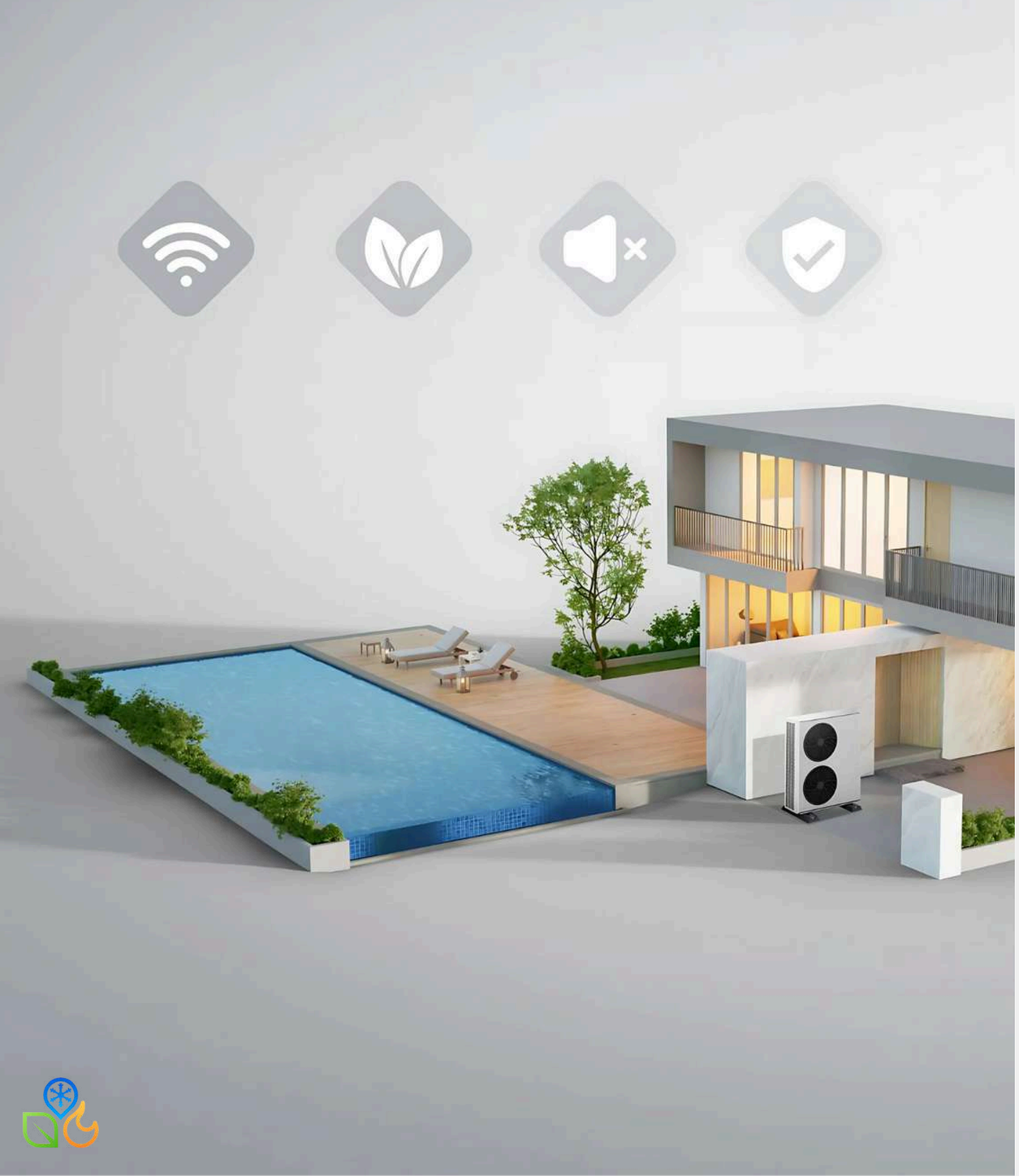
Low temp. Zones

Industrial Application



Cycle 1-2-3-4: Low Temperature Circuit
Cycle 5-6-7-8: High Temperature Circuit

4-1	The primary refrigerant takes heat from the hot well water and evaporates.
1-2	The compressor compresses the refrigerant and boosts it to high temperature and high pressure refrigerant.
2-3	The refrigerant gas now passes through the condenser where gives its heat to the refrigerant inside the high temperature circuit.
3-4	In order to be able to start the cycle again, the refrigerant must be depressurised, and so it is passed through an expansion valve, where it returns to a low-pressure liquid / gas mix and the cycle can recommence.
8-5	The secondary refrigerant takes heat from the low temperature circuit and evaporates into superheated vapour.
5-6	The compressor pushes the refrigerant to high pressure and high temperature gas.
6-7	The high temperature gas condenses and looses the heat to the water circulating through the condenser.
7-8	Then the liquid refrigerant is depressurized in to a low-pressure liquid/gas mix and the cycle continues.



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