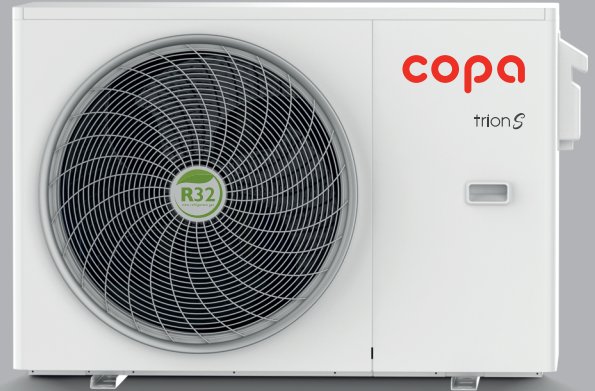


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trion S
multifunctional
heat pump



Eco-Friendly
Technology
High
Efficiency



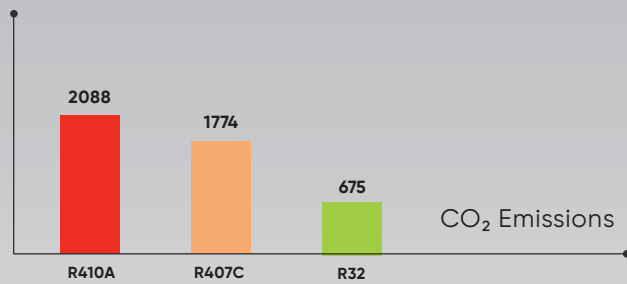
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Eco-Friendly and Efficient R32 Refrigerant

The Trion S Heat Pump is equipped with R32 refrigerant. Compared to the widely used R410A refrigerant, it is more environmentally friendly, more efficient, and has 68% lower global warming potential.



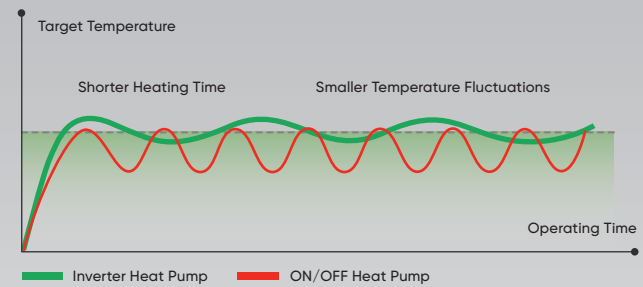
Remote Control

With the Hullian Smart App, compatible with Android and iOS, you can connect to the Trion S Heat Pump via Wi-Fi and control it remotely. The user-friendly external control panel, which also functions as a room thermostat, allows you to monitor real-time operation status, temperature levels in different zones, and past records, all with a single touch from anywhere.



DC Inverter Technology

Featuring full DC inverter technology, the Trion S Heat Pump automatically adjusts its frequency according to ambient temperature, minimizing temperature fluctuations and maintaining a stable climate for enhanced comfort. Its balanced operation ensures long-lasting durability and high energy efficiency.



User-Friendly Control Panel

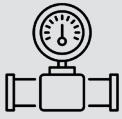
The Trion S Heat Pump features an external 3.5-inch color control panel, designed to provide a user-friendly experience, ensuring comfort and ease of use. It is equipped with a high-resolution smart LCD screen and an intuitive interface for effortless operation.



**Control Your Heating
and Cooling
Anytime, Anywhere!**



TECHNOLOGICAL SUPERIORITIES



3 x 3-Way Valve

With its advanced zone control performance, the Trion S Heat Pump manages up to three 3-way valves and two water pumps without requiring an additional control card.



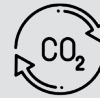
Photovoltaic Compatibility

The Trion S Heat Pump is designed to integrate seamlessly with solar panels, offering a more energy-efficient and eco-friendly solution.



EVI Technology

Equipped with EVI technology, its compressor retains generated energy, ensuring reliable operation even at -30°C .



Carbon-Neutral Operation

Harnessing energy from nature and electricity, the Trion S Heat Pump utilizes R32 refrigerant to balance its carbon emissions, enabling near-zero emission operation.



Wide Cascade Feature

The Trion S Heat Pump supports a wide cascade system by allowing up to 8 heat pumps to be interconnected.



High Performance

By combining renewable energy with advanced technology, the Trion S Heat Pump enhances its energy efficiency up to 6.38 times, delivering an outstanding COP value.



Smart System with Adjustable Water Temperature Based on Demand

Thanks to 32 different climate scenarios embedded in its software, the Trion S Heat Pump automatically adjusts itself according to outdoor conditions to ensure optimal hot water comfort. Additionally, it provides the flexibility to create and integrate custom climate scenarios and smart settings.



Easy Installation & Maintenance

With its compact design and optimized piping system, the Trion S Heat Pump allows for quick and convenient installation and maintenance.



User-Friendly LCD Panel

Equipped with an external user-friendly LCD panel, the Trion S Heat Pump enables simultaneous control of two zones and hot water settings for enhanced convenience.

Uninterrupted Performance with Built-in Heater

The COPA Trion S Heat Pump features an integrated heater, ensuring seamless operation down to -30°C without the need for an additional heating element.

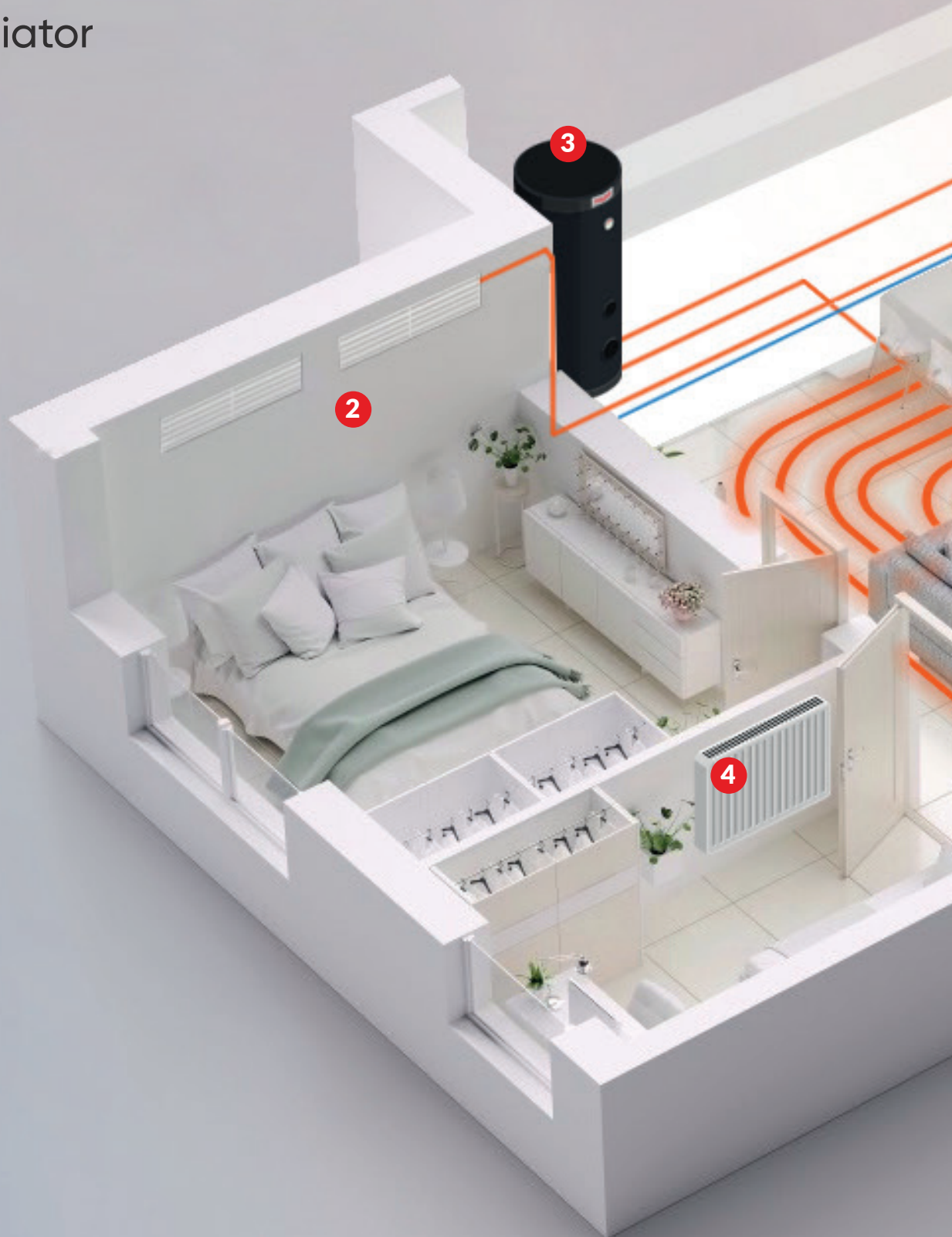


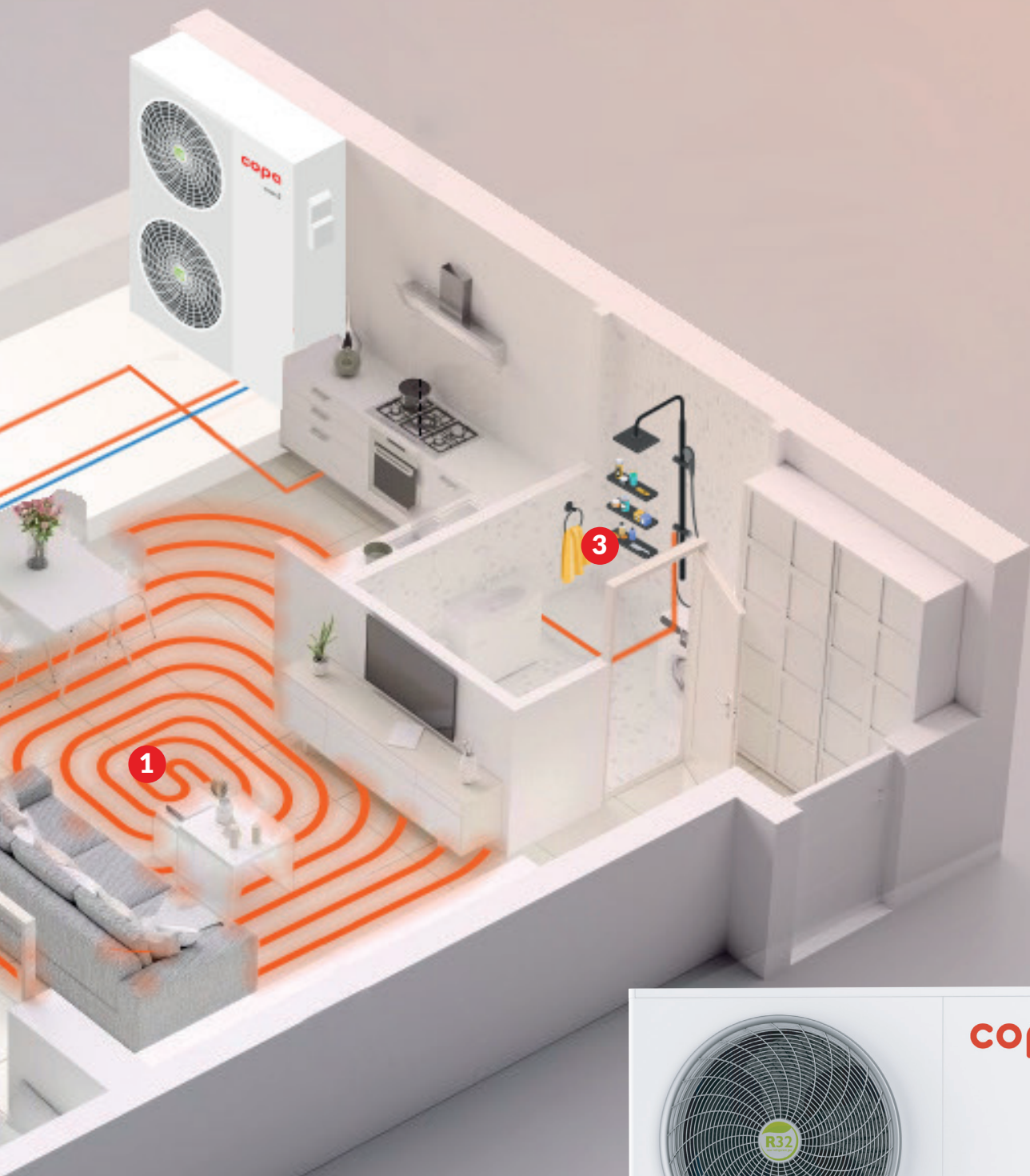
1 Underfloor Heating

2 Fan Coil

3 Hot Water

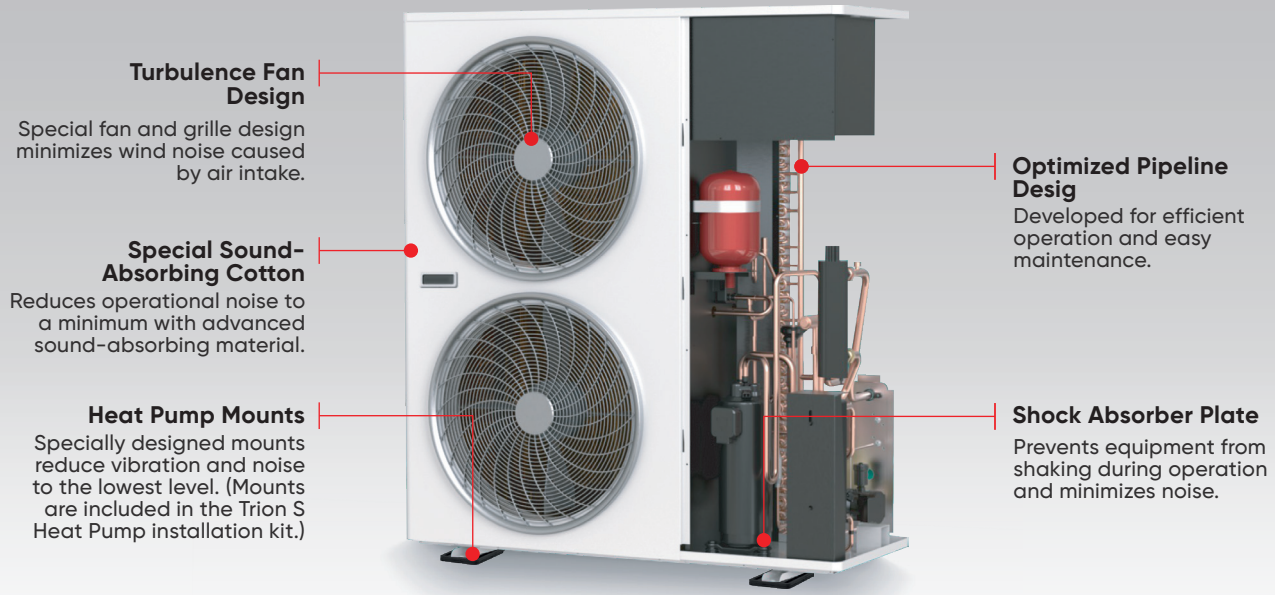
4 Radiator





Low Noise Level

The Trion S Heat Pump features a five-stage high-performance sound insulation system, preventing noise leakage and ensuring a comfortable living space.



COPA Trion S Heat Pump Technical Specifications

Model	6 Kw	8 Kw	11 Kw	11 Kw	15 Kw	15 Kw
Power Supply	220-240V~/50Hz	220-240V~/50Hz	220-240V~/50Hz	380V/3N~/50Hz	220-240V~/50Hz	380V/3N~/50Hz
Refrigerant Type	R32	R32	R32	R32	R32	R32
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C.						
Max. Heating Capacity (kW)	1.72~6.14	2.58~8.24	3.65~11.5	3.68~11.6	4.86~15.36	4.88~15.50
Power Input (kW)	0.27~1.33	0.41~1.81	0.60~2.55	0.60~2.55	0.80~3.40	0.80~3.43
COP	6.37~4.61	6.29~4.55	6.08~4.51	6.13~4.54	6.07~4.52	6.10~4.52
[Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C.						
Max. Heating Capacity (kW)	1.52~6.01	2.19~8.00	3.05~11.01	3.18~11.05	4.17~14.98	4.28~15.09
Power Input (kW)	0.35~2.25	0.50~3.10	0.71~4.18	0.74~4.16	0.96~5.55	0.98~5.56
COP	4.34~2.67	4.38~2.58	4.29~2.63	4.29~2.65	4.34~2.69	4.36~2.71
[Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C.						
Max. Cooling Capacity (kW)	1.21~4.03	1.63~5.18	2.25~7.21	2.35~7.28	3.18~9.98	3.21~10.16
Power Input (kW)	0.27~1.59	0.36~2.00	0.50~2.77	0.52~2.78	0.69~3.90	0.71~4.05
EER	4.48~2.53	4.53~2.59	4.50~2.60	4.52~2.62	4.60~2.56	4.52~2.51
[Hot Water] Ambient Temp. (DB/WB): 20°C/15°C, Water Temp. from 15°C to 55°C.						
Max. Heating Capacity (kW)	1.79~6.84	2.44~9.05	3.26~12.36	3.38~12.45	4.51~16.98	4.47~17.34
Power Input (kW)	0.24~1.48	0.33~1.95	0.44~2.74	0.45~2.73	0.61~3.66	0.61~3.87
COP	7.46~4.62	7.39~4.64	7.41~4.51	7.51~4.56	7.39~4.64	7.33~4.48
General Info						
Electric Heater Rated Input (kW)	3	3	3	3	3/6 k /(optional)	3/6 k /(optional)
Max. Power Input (kW)	6(3+3)	7 (4+3)	8.5 (5.5+3)	8.5 (5.5+3)	9.5(7.5+2) 11.5(7.5+4) 13.5(7.5+6)	"9.5 (7.5+2) 11.5(7.5+4) 13.5(7.5+6)"
Max. Running Current (A)	27.4(13.7+13.7)	31.8 (18.1+13.7)	38.7 (25.0+13.7)	22.4(14.5+7.9)	43.2(34.1+9.1) 52.3(34.1+18.2) 61.4(34.1+27.3)	24.9 (19.7+5.2) 30.2(19.7+10.5) 35.5 (19.7+15.8)
Expansion Tank (L)	3				5	
Compressor	Panasonic		GMCC		Panasonic	
Water Circulation Pump	WILO(DC Inverter)					
Water Side Heat Exchanger	Plate Heat Exchanger					
Air Side Heat Exchanger	Finned Heat Exchanger					
ErP Level (35°C)	A+++					
ErP Level (55°C)	A++					
Display	4-inch Colored Touch Screen					
Wi-Fi Function	Yes					
Rated Water Flow (m³/h)	1.03	1.38	1.9	1.9	2.6	2.58
Water Pressure Drop (kPa)	17	20	22	22	26	28
Water Pipe Connection (inch)	G1"					
Sound Pressure Level dB(A) at 1m	50~63	51~67	52~68	52~68	53~69	53~69
Operation Range (°C)	-30~43					
Max. Outlet Water Temp. (°C)	60					
Water Proof Class	IPX4					
Electricity Shock Proof	Class I					
Net Weight (kg)	98	120	136	156	150	170
Net Dimensions (L×W×H) (mm)	1159X479X775		1159X479X875		1259X479X1445	
Package Dimensions (L×W×H) (mm)	1270x590X970		1270x590x1070		1370x590x1640	

**The First Manufacturer
Member from
Turkey in the
European Heat
Pump Association**

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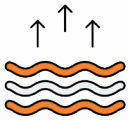
ehpa



What is an Air-to-Water Heat Pump?

An air-to-water heat pump is a device that utilizes energy from the air to heat or cool water. By transferring heat from the outdoor air to the water used indoors, it serves multiple purposes, including heating, cooling, and domestic hot water preparation. These systems offer an environmentally friendly and highly energy-efficient solution, making them suitable for a wide range of applications, from residential homes to commercial buildings.

Working Principle



EVAPORATION

The refrigerant absorbs heat from the outdoor air and evaporates, transforming from a liquid to a gas state.



COMPRESSION

The compressor compresses the evaporated refrigerant, increasing its temperature and pressure.



CONDENSATION

The high-temperature gas condenses in a heat exchanger, transferring its heat to the water.



EXPANSION

The refrigerant pressure is reduced, allowing it to absorb heat from the outside air again, and the cycle repeats.

Advantages of a Heat Pump

Energy Efficiency: Consumes less energy compared to fossil fuels while delivering high efficiency.

Eco-Friendly: Utilizes renewable energy, reducing carbon emissions.

Versatile Use: Provides heating, cooling, and hot water with a single system.

Low Operating Costs: Reduced electricity consumption offers long-term economic benefits.

Durable & Long-Lasting: Ensures years of trouble-free operation with proper maintenance.



**The heat pump
production line in
our factory offers
numerous advantages.**

- On-Site Manufacturing
- Fast spare part supply
- High production capacity
- Quick delivery
- State-of-the-art testing laboratory





COPA ISI SİSTEMLERİ SAN. VE TİC A.Ş.

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